

Report on
Preliminary Site Investigation for Contamination

Randwick Campus Redevelopment
Hospital Road and High, Magill and Botany Streets,
Randwick

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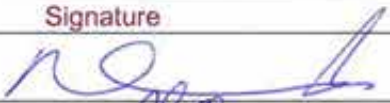
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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

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Executive Summary

This report presents the results of a preliminary site investigation (psi) with limited sampling undertaken for the proposed Randwick Campus Redevelopment at the site bound by Hospital Road and High, Magill and Botany Streets, Randwick.

The objectives of the PSI were to assess the potential for contamination of the site based on past and present site use, and to comment on the need for further investigation and/or management of contamination (if required).

The investigation included a desktop study of site history information, site records and regional mapping, combined with a program of limited soil and groundwater sampling and testing from 31 boreholes (BH 1 to BH 9, BH 101 to BH 122, Drawing 1, Appendix A).

The site comprises a collection of about 92 urban residential properties and a public road as shown on Drawing 1, Appendix A, and occupies approximately 3.3 hectares. The site history information examined suggests that the site has been primarily residential with the same or similar layout to that currently existing, since prior to 1943. The potential contamination sources have been identified as imported filling, hazardous building materials in existing structures, and chemicals associated with on-site and nearby commercial / retail businesses (e.g. university, hospital).

On the basis of the EPA's publication *Sampling Design Guidelines*, the recommended number of sample locations for a property of 3.3 hectares is 45 sample locations, aimed at determining the presence of a hot spot of contamination with a diameter of about 30 m. The current investigation involved 31 boreholes positioned in road reserves and a select number of available private properties within the site. Soil samples were analysed from the boreholes. Groundwater samples were analysed from one groundwater well installed at the site. The analytical suite generally covered the contaminants of concern identified through the desktop study. All analyte concentrations were less than the adopted site assessment criteria (SAC) with the exception of some elevated concentrations in a couple of roadbase samples, a small number of ecological investigation limit exceedances (metals and PAH), and marginally elevated copper and zinc in groundwater (considered to be a regional condition). An asbestos fragment was also uncovered at one bore location and confirmed to contain chrysotile asbestos.

Douglas Partners Pty Ltd (DP) notes that substantial excavation of the site is required to achieve the required levels for the proposed development, such that a minimum of 0.5 m and a maximum of 8 m or 11 m excavation will be undertaken across the site. As such, the majority of fill identified at the site will be removed as part of the proposed works. Based on the desktop study, field and analytical results presented in this report, it is considered that the site in general has a low potential for contamination with respect to the proposed hospital development.

The limited sampling regime adopted for this investigation reflects the access constraints at this stage. Additional locations will be targeted in future investigations (possibly on hospital or university owned properties). This staged approach is in line with the requirements of the NSW State Environmental Planning Policy No. 55 – *Remediation of Land* (SEPP 55) which details the requirements for assessing and managing contaminated land for planning purposes. SEPP 55 is based on a staged assessment process (consistent with NEPC (2013)) which is broadly summarised as follows:

-) Preliminary Site Investigation (PSI) – desktop investigation which may involve some limited intrusive sampling; and

) Detailed Site Investigation (DSI) – the scope of which is typically outlined in the PSI report.

If contamination is found, preparation of a:

-) Remediation Action Plan (RAP) which details the necessary remedial work or management required to render the site suitable for the proposed development / land use; and
-) Site Remediation & Validation Report (SRVR) which documents the completeness of the remedial work.

This project is currently at the PSI stage.

Given the limited nature of the sampling and testing undertaken, additional, post demolition investigations are recommended for the site, including the following:

-) Pre-demolition hazardous building materials survey of the building structures which comprise the site. It is noted that many of the premises appear to contain some asbestos, lead paint and other hazardous materials;
-) Post demolition clearance for surface asbestos containing materials (ACM) by an experienced occupational hygienist;
-) Additional soil and groundwater sampling and testing across the site to more thoroughly:
 - Assess the presence of complete source-pathway-receptor linkages under the Conceptual Site Model (CSM);
 - Assess the suitability of any fill/natural material to remain under the proposed development. DP notes the majority of the fill at the site will be removed during excavation works to reach final levels;
 - Determine the need for any soil or groundwater remediation; and
 - Assess the re-use potential and/or waste classification of roadbase, filling and natural soils.

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Report on Preliminary Site Investigation for Contamination Randwick Campus Redevelopment Hospital Road and High, Magill and Botany Streets, Randwick

1. Introduction

This report presents the results of a preliminary site investigation for contamination (PSI) undertaken for the proposed Randwick Campus Redevelopment at the site bound by Hospital Road and High, Magill and Botany Streets, Randwick (refer Drawing 1, Appendix A). The investigation was commissioned by Health Infrastructure in an email dated 12 September 2017 by Henriette Risseuw of Aurecon on behalf of Shadiqua Nainar of Health Infrastructure and was undertaken in accordance with Douglas Partners' proposal SYD170971 dated 18 August 2017.

It is understood that a new Acute Services Building (ASB) is proposed to the west of the existing Hospital Campus, and will include a new emergency department, extra beds, expanded rehab and ambulatory care facilities and new shared operating theatres for the Randwick Campus. The subject site for the new ASB is bounded by Botany Street, Eurimbla Avenue, Hospital Road and Magill Street, Randwick, NSW.

It is understood that the redevelopment includes:

-) A new multi-storey Acute Services Building (ASB), about 150 m by 130 m in area, with basement level -02 extending to RL 47 m. This will require excavation to depths of up to 8 m;
-) Potential future regrading of Hospital Road, which will require excavation to depths of up to about 6 m below current surface levels; and
-) A potential future tunnel below Hospital Road to link the existing Sydney Children's Hospital to the new ASB.

Excavation of the site to reach the required RLs will involve minimum excavation in the southern end of 0.5 m and up to 8 m in the northern part of the site.

The objectives of the current PSI were to assess the potential for contamination of the site based on past and present site use, and to comment on the need for further investigation and/or management of contamination (if required).

The investigation included utilising information and samples obtained from bores conducted as part of a geotechnical investigation. Please note that the results of the geotechnical investigation are presented in a separate report (Reference 72505.11.R.001). An additional soil contamination investigation was conducted to supplement the earlier works on 9 – 11 and 23-25 January 2018 and the results are presented in this report.

2. Scope of Works

The scope of works comprised:

-) Review of published regional information:
 - o Topography, geology and soil maps;
 - o NSW EPA Register published under the *Contaminated Land Management (CLM)* and *Protection of the Environment Operations (POEO)* Acts; and
 - o NSW Department of Primary Industries groundwater bore search.
-) Obtain and review the following:
 - o Selected historical aerial photography;
 - o Historical title deeds;
 - o Section 149 (2) & (5) Certificates; and
 - o SafeWork NSW Dangerous Goods Licences records.
-) A site walkover to inspect current site features, uses and potential contamination sources and receptors;
-) Some of the field work was conducted in conjunction with the geotechnical works detailed in a separate geotechnical report;
-) Collect soil samples (plus one replicate QC sample) from the nine boreholes (BH1 to BH9) drilled for the geotechnical investigation;
-) Additional fieldwork consisted of 22 hand augured bores (BH 101 to BH 122) drilled to depths of 1.5 m below ground level (bgl) or 0.5 into natural soils, whichever was the lesser;
-) Analysis of soil samples taken from the 31 bores located within the site boundary, albeit within some in existing road corridors (including Hospital Road and Eurimbla Avenue);
-) Screening of all fill samples collected within the site boundary with a photo-ionisation detector (PID) to assess the likely presence or absence of volatile organic compounds (VOC);
-) Submit selected soil samples (plus QC samples) for analysis of a combination of the following common contaminants at a National Association of Testing Authorities (NATA) accredited laboratory:
 - o Eight priority metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc);
 - o Total recoverable hydrocarbons (TRH);
 - o Monocyclic aromatic hydrocarbons (benzene, toluene, ethylbenzene and xylenes – BTEX);
 - o Polycyclic aromatic hydrocarbons (PAH);
 - o Organochlorine pesticides (OCP), organophosphorus pesticides (OPP);
 - o Polychlorinated biphenyls (PCB);
 - o Total phenols;
 - o Asbestos (presence / absence);
 - o pH, cation exchange capacity (for determination of site specific environmental investigation levels); and

- o Toxicity characteristic leaching procedure (TCLP) testing on metals and PAH (for an indicative waste classification).
-) Gauge and record the standing water level in the groundwater monitoring well (BH7; Drawing 1, Appendix A) installed for the geotechnical investigation;
-) Collect a groundwater sample from BH7 well using a low-flow positive displacement sampling pump. Measure the physical parameters of pH, conductivity, dissolved oxygen and oxidation / reduction potential whilst sampling;
-) Submit a groundwater sample to a NATA accredited laboratory for analysis of the following potential contaminants:
 - o Eight priority metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc);
 - o TRH;
 - o BTEX;
 - o PAH; and
 - o VOC.

3. Site Identification and Location

The site is located approximately 7 km southeast of the Sydney CBD (Drawing 1, Appendix A). The site is bordered by High Street to the north, Hospital Road to the east, Magill Street to the south and Botany Street to the west. Eurimbla Avenue runs through the centre of the site.

To the east of Hospital Road is the existing Randwick Hospital's Campus (the Hospital), currently occupied by numerous multi-storey buildings, a number of car parks, and open space and courtyard areas. Buildings across the Hospital include the Sydney Children's Hospital and Ronald McDonald House, The Prince of Wales Public and Private Hospitals including patient wings, operating theatres and palliative care, and campus services such as staff residences, ambulance station, and childcare facilities. The hospital occupies a total area of approximately 13.5 hectares (ha).

Table 1: General Site Information

Item	Description
Site Name/ Occupier:	Currently numerous owners – yet to be consolidated
Site Address	Bordered by High Street to the north, Hospital Road to the east, Magill Street to the south and Botany Street to the west. Eurimbla Avenue runs through the centre of the site (Drawing 1, Appendix A).
Lot and DP Numbers	Listed in Table 16, Section 8
Geographical Co-ordinates	NW corner 336983.93 m E, 6245693.93 m S NE corner 337114.86 m E, 6245670.41 m S SW corner 336939.61 m E, 6245434.73 m S SE corner 337071.19 m E, 6245400.69 m S
Local Government Authority	Randwick City Council

Item	Description
County/Parish	Parish of Alexandria and the County of Cumberland
Total Site Area	Approximately 3.3 ha
Current Zoning	R2 – Low density residential; and R3 – Medium density residential, with the Hospital Road site zoned SP2 Infrastructure Health Services Facility by Randwick Local Environmental Plan 2012.
Current Site Use	Residential with some commercial/medical
Proposed Future Land Use	Hospital and health care

The land uses surrounding the Hospital include:

-) *North* – High Street is present to the north, beyond which is a mixture of residential and commercial properties. At the intersection of High and Avoca Streets and Belmore Road is a convenience store to the north and a street based shopping centre. Further to the north east is Randwick shopping centre complex;
-) *East* – Hospital Road and Randwick Hospital (described above) followed by Avoca Street located to the east. Beyond this is open space parkland, located at the junction of Avoca Street and Belmore Road. Residential properties are also located to the east of Avoca Street. Further east is Brigidine College, comprising a number of multi-storey buildings and open space areas;
-) *South* – Magill Street located to the south of the site is predominantly residential; and
-) *West* – Botany Street is located to the west followed by the University of NSW, Biomedical Campus which has been the subject of previous investigations by Douglas Partners Pty Ltd (DP) and was previously part of the larger university site which had previously been quarried for igneous clays from a dyke/ diatreme previously identified at the site. The quarry was subsequently backfilled. The historical aerial photographs indicated that the quarry/landfill extends beyond the boundary of the current development. Following completion of quarrying (to depths of approximately 4.5 m to 9.0 m based on field observations), the area appears to have been backfilled in an uncontrolled manner and has since been used for internal roadways and parking by the university.

4. Geology, Topography and Hydrogeology

Reference to the Sydney 1:250,000 Series Geological Sheet indicates that the Randwick area is located mainly on Quaternary aged alluvium, gravel, sand silt and clay, with some areas also being located on Triassic aged Hawkesbury Sandstone, comprising sandstone and quartz with some shale.

The topography of the site appears to be relatively flat.

The Tasman Sea lies to the east of the site. Eastlakes and Mill Pond lie to the south west of the site, leading into Botany Bay. The anticipated groundwater flow direction from the site, on this basis, is west to south west. However, previous investigations by DP in the vicinity of the site suggest that a south-easterly groundwater flow direction is also possible.

A groundwater bore search of the Department of Water and Energy website database (previously held by the Department of Natural Resources) was conducted on 11 September 2017. Forty-seven groundwater bores were located within a 1 km radius of the site. A summary of the groundwater bore depth and standing water levels were available for all of the bores. Details are provided in the Lotsearch Results in Appendix C.

The bores were used for monitoring, remediation, recreation, domestic, commercial, and industrial. The standing water levels for the majority of groundwater wells were found to range from 2.5 to 5 metres below ground level (bgl), with measurements of 8.6, 10, 16.5, 20 and 27 m bgl also recorded.

Drillers logs supplied indicated that the lithology across the area was generally comprised of topsoil or fill, followed by either sand or clay, and sandstone. Coffee rock and peat was noted at some locations.

DP has previously undertaken works on the adjacent UNSW site to the west. The general finding close to the site is that the depth to rock varied from 0.7 m to >5 m bgl. While no free groundwater was observed in these bores, DP expects that this observation may be dependent on the drilling method used during fieldwork.

In the investigation conducted by DP in the Randwick Hospital site to the east, groundwater was observed at depths of 3.7 m (RL 40.5 m) and 4.7 m (RL 44.4 m) in two boreholes. No groundwater was observed during auger drilling in the remaining boreholes. The use of water for rock coring purposes precluded any further observation of groundwater.

Further information can be found in the DP Report 72505.11.R.001.

5. Acid Sulphate Soils

Based on Randwick Council's Acid Sulphate Soils Map (March 2007), it appears that the site is in an area of no known acid sulphate soil. The nearest area with an unknown potential for acid sulphate soils is located approximately 1.4 km east of the site. The site is also located more than 500 m from an area mapped as having an elevated risk of acid sulphate soils.

Therefore it is considered that there is a low likelihood that acid sulphate soils will occur across the site.

6. Proposed Development

It is understood that the proposed Randwick Campus Redevelopment will include:

-) A new multi-storey Acute Services Building (ASB), about 150 m by 130 m in area, with basement level 02 extending to RL 47 m. This will require excavation to depths of up to 8 m, with the deepest part of the excavation being at the northern end. Working column loads are understood to be up to 15,000 kN;
-) Separate patient and public bridges over Hospital Road;

-) Potential future regrading of Hospital Road to surface levels of RL 50.5 m to RL 54.4 m. This will require excavation to depths of up to about 6 m within the middle area and reducing to the existing ground surface levels at each end near High and Magill Streets; and
-) A potential future tunnel below the new Hospital Road to link the existing Sydney Children's Hospital to the new building. The proposed invert level of the tunnel is at about RL 47 m (i.e. similar to the proposed basement level -02). It is anticipated that this tunnel will require excavation of about 3 m further below the proposed Hospital Road level, and will be constructed as a cut-and-cover tunnel.

It is understood that a future expansion area, located immediately north of the proposed ASB site and extending up to High Street, is also being considered as part of this preliminary investigation. No details of this future development are known at this stage. However, it is likely that the future development may include multi-storey buildings, new internal roads and utilities. Relatively deep basement excavations are also expected, similar to the currently proposed ASB.

7. Site History

The desktop component of this investigation involved a review of historical information relating to potential contamination sources at the site. Relevant findings are provided below and are based on a review of:

-) Aerial photographs;
-) Title deeds;
-) Section 149 Planning Certificates;
-) Regulatory Notices;
-) Dangerous Goods records;
-) Council records; and
-) Anecdotal Evidence.

The site history documents reviewed are provided in Appendix C.

7.1 Aerial Photographs

Aerial photographs were obtained from databases held by the NSW Department of Property and Land Information Division as part of the Lotsearch Environmental Risk and Planning Report (Lotsearch Report) for the years 1943, 1955, 1961, 1970, 1982, 1991, 2000, 2009 and 2014. Aerial Photos are provided in the Lotsearch Report in Appendix C and a summary of the features observed on the site and the surrounding land is presented in Table 2 below.

The aerial photographs were examined for information on past land uses and changes to the site condition and layout, in particular those of a potentially contaminating nature.

Table 2: Historical Aerial Photograph Summary

Year	Site Features	Surrounding Features
1943	The residential properties along Eurimbla Ave, Botany Street and Hospital Road appear to be of similar size and orientation to subsequent photos, however the houses are smaller and appear to contain outdoor toilet blocks in the rear.	Residential properties are evident to the north and south of the site. To the west, the UNSW site appears to be vacant and the large quarried areas to the west of Botany Street appear to have been filled in by this stage. The quarried area does not appear to extend to the subject site in the 1943 photo. To the east, parts of the hospital site are undeveloped and only the main buildings are evident.
1955	No significant changes can be seen in this photograph compared to the 1943 photograph.	The increased density of housing to the south of the site can be seen in the 1955 photograph however little change can be seen to the hospital or UNSW sites.
1961	No significant changes can be seen in this photograph compared to the 1955 photograph.	Construction works to the west can be seen with large multilevel buildings being erected at UNSW. Large parts of the hospital site appear to be vacant and unused.
1965	No significant changes can be seen in this photograph compared to the 1961 photograph.	The buildings at UNSW are larger and appear to be completed with roadways evident on the site.
1970	No significant changes can be seen in this photograph compared to the 1965 photograph.	Further commercial / industrial development has taken place throughout the surrounding subdivisions. Properties to the north are being consolidated into larger properties. Additional parking and smaller buildings have been added to the UNSW site. New buildings are evident on the southern part of the hospital site to the east. The northern part of the hospital site is in the initial phases of construction for new building.
1982	This coloured photograph shows the newer grey roof areas which have been added to the previous structures.	Further commercial / industrial development has taken place. A new high rise hospital building has been constructed and many areas of car parking can be seen on the hospital and UNSW sites.
1991	A number of the properties on the site have extended to the rear to include the outdoor toilet blocks.	Further commercial / industrial development has taken place in the surrounding areas.

Year	Site Features	Surrounding Features
2000	No significant changes to the surrounds can be seen in this photograph compared to the previous photograph. Pools can be seen on various properties and the majority of the properties have been extended, however the overall layout remains unchanged and residential in nature.	Additional buildings have been added to the hospital and university sites.
2014	No significant changes to the surrounds can be seen in this photograph compared to the previous photograph.	Additional buildings have been added to the hospital and university site to cover the majority of the properties.

7.2 Historical Title Deeds

A historic title deed search was conducted on selected lots within the site. The title deed search was not extended to the whole of the properties comprising the site given that the land use has remained essentially residential since prior to 1943, and titles information would not provide any further insight in terms of contamination potential. The properties in the following tables were selected given the potential for some commercial / retail use. Searches were carried out by Mr James McDonnell of Scott Ashwood Pty Ltd. Tables 3 to 15 provide details of the search. A full copy is also provided in Appendix C. # Denotes Current Registered Proprietor.

Table 3: Historical Title Search - Address: 49, 51, 63, 69 and 81 Botany Street, Randwick
As regards Lot 1 D.P. 590480

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
08.10.1914 (1914 to 1920)	Charles William Coulton (Builder)	Residential
03.05.1920 (1920 to 1920)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk) William Leslie Coulton (Grazier) (Application by Transmission not investigated)	Residential
28.06.1920 (1920 to 1922)	Edward Percy Hennessy (Builder) Amelia Maria Hennessy (Married Woman)	Residential
15.09.1922 (1922 to 1927)	Kathleen Cantor (Widow)	Residential
26.09.1927 (1927 to 1976)	Robert Harden (Cooper) Lily Harden (Married Woman)	Residential
24.06.1976 (1976 to 1976)	Lyndhurst Walter Harden (Clerk) Doris Lillian Boots (Married Woman) (Section 93 Application not investigated)	Residential
24.11.1976 (1976 to 1977)	Ignas Anthony Kava (Builder) Dympnia Mary Kava	Residential
22.09.1977 (1977 to 1980)	Hernan Goyoaga (Leading Hand) Maria Adriana Goyoaga (Married Woman)	Residential
27.05.1980 (1980 to 1994)	Alfred Chen (Accountant) Christina Chen (Married Woman)	Residential
28.02.1994 (1994 to Date)	# Derek Roy Mahony	Residential
As regards Lot 2 D.P. 590480		
08.10.1914 (1914 to 1920)	Charles William Coulton (Builder)	Residential
03.05.1920 (1920 to 1920)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk) William Leslie Coulton (Grazier) (Application by Transmission not investigated)	Residential
28.06.1920 (1920 to 1922)	Edward Percy Hennessy (Builder) Amelia Maria Hennessy (Married Woman)	Residential
15.09.1922 (1922 to 1927)	Kathleen Cantor (Widow)	Residential
26.09.1927 (1927 to 1976)	Robert Harden (Cooper) Lily Harden (Married Woman)	Residential
24.06.1976 (1976 to 1976)	Lyndhurst Walter Harden (Clerk) Doris Lillian Boots (Married Woman) (Section 93 Application not investigated)	Residential
24.11.1976 (1976 to 1977)	Ignas Anthony Kava (Builder) Dympnia Mary Kava	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
08.08.1977 (1977 to 1983)	Cecilia Ruby Frommholtz (Widow)	Residential
08.09.1983 (1983 to 1984)	Lynette Mary Wheelock (Transmission Application not investigated)	Residential
13.01.1984 (1984 to 1985)	Lynette Mary Wheelock	Residential
12.06.1985 (1985 to 1988)	Michael Patrick Feneley Gaye Annette Poole	Residential
03.05.1988 (1988 to 1988)	Rodnay Darran Ireland Allyson Jane Ireland	Residential
22.07.1988 (1988 to 2009)	Arief Suhadi Vintjie Sugijantho Now Vien Suhadi	Residential
27.03.2009 (2009 to Date)	# Full Face Orthodontics Pty Ltd	Commercial/Medical
As regards Lot 2 D.P. 13997		
08.10.1914 (1914 to 1920)	Charles William Coulton (Builder)	Residential
03.05.1920 (1920 to 1926)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk) William Leslie Coulton (Grazier) (Application by Transmission not investigated)	Residential
27.09.1926 (1926 to 1927)	John Marron (Contractor)	Residential
23.04.1927 (1927 to 1928)	Hubert Charles Dunell (Tennis Court Expert)	Residential
24.01.1928 (1928 to 1953)	Robert Stewart (Master Mariner)	Residential
26.06.1953 (1953 to 1953)	Cherie Anna Stewart (Widow) Roald Francois Stewart (Mariner) (Application by Transmission not investigated)	Residential
08.10.1953 (1953 to 1970)	Roald Francois Stewart (Mariner)	Residential
13.04.1970 (1970 to 1972)	Phyllis Stewart (Widow) (Section 94 Application not investigated)	Residential
26.07.1972 (1972 to 1975)	Ernest Percze (Design Draftsman) Joli Percze (Widow)	Residential
09.10.1975 (1975 to 1985)	The Baptist Union of New South Wales	Possible Commercial
10.05.1985 (1985 to 1996)	Danny Calligeros	Possible Commercial
19.12.1996 (1996 to 2007)	John Heath Roberts	Possible Commercial

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
28.06.2007 (2007 to 2012)	Change Suffit Pty Limited	Possible Commercial
06.03.2012 (2012 to Date)	# The University of New South Wales	Educational Institution
As regards Lot 6 D.P. 13997		
08.10.1914 (1914 to 1920)	Charles William Coulton (Builder)	Residential
03.05.1920 (1920 to 1926)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk) William Leslie Coulton (Grazier) (Application by Transmission not investigated)	Residential
27.09.1926 (1926 to 1927)	John Marron (Contractor)	Residential
27.01.1927 (1927 to 1937)	Mary Botta (Married Woman)	Residential
02.12.1937 (1937 to 1952)	Albert Joseph Botta (Clerk)	Residential
03.06.1952 (1952 to 1958)	Stanley Fullerton Williams (Manufacturer) Catherine Mary Williams (Married Woman)	Residential
21.03.1958 (1958 to 1965)	Herbert Edward John Skipper (Accountant)	Residential
02.12.1965 (1965 to 1980)	Jacob Smoljo (Machine Operator) Victoria Smoljo (Married Woman)	Residential
26.11.1980 (1980 to 2002)	Victoria Smoljo (Widow) (Transmission Application not investigated)	Residential
21.10.2002 (2002 to 2017)	Anthony Smoljo Maria Smoljo	Residential
03.03.2017 (2017 to Date)	# The University of New South Wales	Educational Institution
As regards Lot B D.P. 439101		
08.10.1914 (1914 to 1920)	Charles William Coulton (Builder)	Residential
03.05.1920 (1920 to 1921)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk) William Leslie Coulton (Grazier) (Application by Transmission not investigated)	Residential
07.01.1921 (1921 to 1926)	Duncan Davidson (Commission Agent) Christopher William Hunt (Builder)	Residential
04.01.1926 (1926 to 1926)	Duncan Davidson (Commission Agent)	Residential
04.01.1926 (1926 to 1944)	Margaret Gertrude Davidson (Widow) (Application by Transmission not investigated)	Residential
12.01.1944 (1944 to 1953)	Percy Leyden Williamson (Solicitor) John Arthur Boxhall (Solicitor)	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
25.11.1953 (1953 to 1953)	John Arthur Boxhall	Residential
30.11.1953 (1953 to 1988)	Reginald John Porterfield (Railway Employee) Agnes Catherine Porterfield (Married Woman)	Residential
12.05.1988 (1988 to 1992)	Reginald John Porterfield	Residential
09.01.1992 (1992 to 1992)	Lila Maria Dibbs (Transmission Application not investigated)	Residential
26.08.1992 (1992 to Date)	# She Liung Chang	Residential

Table 4: Historical Title Search - Address: 14 & 8 Magill Street, 66 Eurimbla Avenue and 97 & 99 Botany Street, Randwick
Description: Lot 3 D.P. 11351, Lot 7 D.P. 975640, Lot 1 D.P. 74860 and Lots A and B D.P. 439101

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
As regards Lot 3 D.P. 11351		
04.04.1911 (1911 to 1917)	Claudius Smith (Grazier)	Residential
25.10.1917 (1917 to 1922)	Charles James Roberts (Grazier)	Residential
03.07.1922 (1922 to 1923)	John Ernest Page Ducker (Estate Agent)	Residential
23.10.1923 (1923 to 1924)	Malvina Margaretta Pilley (Married Woman)	Residential
18.12.1924 (1924 to 1957)	Jane Hickey (Widow)	Residential
08.03.1957 (1957 to 1957)	Jack Maurice Hickey (Aircraft Engineer) (Section 94 Application not investigated)	Residential
23.10.1957 (1957 to 1964)	Anthony James Witts (Bank Officer) Carmel Agatha Witts (Married Woman)	Residential
22.01.1964 (1964 to 1986)	John Spada (Computer Programmer) Rosa Spada (Married Woman)	Residential
02.07.1986 (1986 to Date)	# Rosa Spada (Widow)	Residential
As regards Lot 7 D.P. 975640		
03.08.1915 (1915 to 1964)	William John Anthony Joyce (Contractor) Norton Francis Gregory Joyce (No Occupation Noted)	Residential
20.05.1964 (1964 to 1973)	Elizabeth May Godfrey (Spinster)	Residential
21.11.1973	Theofilos Kazonis (Excavator)	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
(1973 to 2006)	Now Theos Kazonis Maria Kazonis (Married Woman)	
24.10.2006 (2006 to Date)	# Australian Merchant Services Pty Ltd Now # 8 Magill Street Pty Limited	Possible commercial
As regards Lot 1 D.P. 74860		
12.03.1920 (1920 to 1923)	William Naylor (Musician)	Residential
16.02.1923 (1923 to 1923)	John Ernest Page Ducker (Estate Agent)	Residential
23.08.1923 (1923 to 1958)	Alice Maud Laughlin (Married Woman)	Residential
22.12.1958 (1958 to 1964)	A. M. Laughlin Investments Pty. Limited	Residential/possible commercial
02.04.1964 (1964 to 1964)	Irwin Anthony Ormsby (Solicitor)	Residential
01.12.1964 (1964 to 1971)	Anthony Henry Press (Grazier) Mary Press (Married Woman)	Rural/Residential
29.09.1971 (1971 to 1971)	Anthony Henry Press (Grazier)	Rural/Residential
17.12.1971 (1971 to 1971)	Barry Wilson (Investor)	Residential
23.12.1971 (1971 to 1972)	Margaret Le Marseny (Married Woman)	Residential
21.06.1972 (1972 to 1974)	Juan Angel Gonzalez (Carpenter) Marcelina Gonzalez (Married Woman)	Residential
27.02.1974 (1974 to 1999)	Mary Catherine Maloney (Widow)	Residential
24.03.1999 (1999 to 2000)	Janice Margaret Baker Helen Patricia Butcher Catherine Hillis	Residential
08.05.2000 (2000 to Date)	# Xiao Sheng He # Yi Hua Jin	Residential
As regards Lot A D.P. 439101		
29.12.1910 (1910 to 1911)	Russell George Williamson (Engineer)	Residential
14.11.1911 (1911 to 1919)	John Baldwin (Cab Proprietor)	Residential
03.11.1919 (1919 to 1921)	Sarah Talman (Married Woman)	Residential
11.08.1921 (1921 to 1925)	Mary Francis Ready (Married Woman) Charles Patrick Ready (Property Owner)	Residential
30.06.1925	Eileen Pirani (Confectioner)	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
(1925 to 1955)		
19.08.1955 (1955 to 1956)	Francis Joseph Maher (Taxi Driver)	Residential
03.02.1956 (1956 to 1960)	Clifford Hartley Lorne Bridge (Clerk)	Residential
24.03.1960 (1960 to 1972)	Borys Erdstein (Accountant) Now Bernard Erdstein Etka Erdstein (Married Woman) Now Edith Erdstein	Residential
17.11.1972 (1972 to 2007)	Chris Vassiliou (Spray Painter) Mary Vassiliou (Married Woman)	Residential
20.08.2007 (2007 to 2011)	Chris Vassiliou & his deceased estate	Residential
10.03.2011 (2011 to 2012)	Vicky Petrou (Executor of the Will of Chris Vassiliou)	Residential
05.04.2012 (2012 to Date)	# Helen Vlachos	Residential
As regards Lot B D.P. 439101		
29.12.1910 (1910 to 1911)	Russell George Williamson (Engineer)	Residential
14.11.1911 (1911 to 1919)	John Baldwin (Cab Proprietor)	Residential
03.11.1919 (1919 to 1921)	Sarah Talman (Married Woman)	Residential
11.08.1921 (1921 to 1925)	Mary Francis Ready (Married Woman) Charles Patrick Ready (Property Owner)	Residential
30.06.1925 (1925 to 1954)	Eileen Pirani (Confectioner)	Residential
09.12.1954 (1954 to 1964)	Harry James Donnelly (Clerk) Judith May Donnelly (Married Woman)	Residential
02.12.1964 (1964 to 1973)	Judith May Donnelly	Residential
12.01.1973 (1973 to 1973)	Nola June Ryan (Married Woman) Betty Alice May Freebody (Married Woman) Ronald James Donnelly (Clerk)	Residential
06.04.1973 (1973 to 1996)	Sotiris Baghas (Labourer) Despina Baghas (Married Woman)	Residential
20.08.1996 (1996 to Date)	# Despina Baghas	Residential

Table 5: Historical Title Search - Address: Lot 35 D.P. 7745 - 1 to 3 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
11.10.1918 (1918 to 1923)	Commonwealth of Australia (Acquired for Defence Purposes)	Residential
28.08.1923 (1923 to 1924)	John O'Riordan (Tallow Farmer)	Residential/commercial
08.03.1924 (1924 to 1924)	Thomas Austin Thomson (Grazier)	Commercial - Grocer and Butcher shop
25.06.1924 (1924 to 1955)	Henry Robert Doubleday (Gentleman)	Commercial
22.11.1955 (1955 to 1965)	Cecil Joseph Thompson (Builder) Ruth Lilian Thompson (Married Woman)	Commercial
16.07.1965 (1965 to 1974)	A.T.A. Fashions Pty Limited Julie Ullman (Company Director)	Commercial
10.04.1974 (1974 to 1977)	Australian Academy of Science	Educational Institution
01.11.1977 (1977 to 1991)	Commonwealth of Australia	Educational Institution
20.12.1991 (1991 to date)	# University of New South Wales	Educational Institution

Leases: -

- J 25.06.1924 to Alfred Westroff Evans (Grocer), of Shop and Dwelling 3 Eurimbla Avenue – expired prior to 16.12.1955
- J 25.06.1924 to Marcellus Anton Shell (Butcher), of Shop and Dwelling 1 Eurimbla Avenue – expired prior to 16.12.1955
- J 24.04.1967 to Carol Ann Bartlett (Widow), of Shop and Dwelling 3 Eurimbla Avenue – expired 20.08.1974
- J 06.12.1980 to University of New South Wales – expires 31.12.1984
- J 01.10.1986 to University of New South Wales – expires 31.12.1989

Table 6: Historical Title Search - Address: Lot C D.P. 304806 – 19 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
27.10.1922 (1922 to 1925)	Lilly May Dashwood ((Married Woman)	Residential
08.04.1925 (1925 to 1936)	Margaret Hyland (Spinster)	Residential
08.10.1936 (1936 to 1951)	James Hyland (Retired) Mary Hyland (Spinster) Now Mary Cowie (Married Woman) (Transmission Application not investigated)	Residential
24.10.1951 (1951 to 1982)	Mary Cowie (Married Woman) (Transmission Application not investigated)	Residential
13.05.1982 (1982 to 1983)	David John Cowie (Transmission Application not investigated)	Residential
23.05.1983 (1983 to 1988)	Stephen David Henstock Carol Helen Henstock	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
02.11.1988 (1988 to 1993)	Michael Kenneth Moore	Residential
06.08.1993 (1993 to 1999)	Graham R Nunn Pty Limited	Commercial
01.10.1999 (1999 to 2017)	Sydney Children's Hospital Foundation Limited	Health Institution
06.07.2017 (2017 to date)	# Health Administration Corporation	Health Institution

Table 7: Historical Title Search - Address: Lot B D.P. 304806 – 21 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
14.10.1922 (1922 to 1927)	James Henry Fletcher McClure (Clerk)	Residential
12.07.1927 (1927 to 1956)	Eva Josephine Dunlea (Widow)	Residential
14.09.1956 (1956 to 1959)	Eileen Cavanagh (Widow) Catherine Hodges (Spinster) (Transmission Application not investigated)	Residential
25.09.1959 (1959 to 1967)	Clement Francis Gainsford (Assistant Fireman) Alice Maud Gainsford (Married Woman)	Residential
17.03.1967 (1967 to 2004)	Alec Thlivitis (Railway Employee) Angellina Thlivitis (Married Woman)	Residential
19.02.2004 (2004 to 2011)	Alec Thlivitis	Residential
16.12.2011 (2011 to date)	# Peter Thlivitis	Residential

Table 8: Historical Title Search - Address: Lot 5 D.P. 13995 – 33 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
27.06.1923 (1923 to 1926)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk)	Residential
29.07.1926 (1926 to 1926)	Edward Ernest Christie (Builder)	Residential
13.09.1926 (1926 to 1927)	Victor Herbert Fielder (Builder)	Residential
10.06.1927 (1927 to 1947)	Ruby Viola Beazley (Married Woman)	Residential
29.12.1947 (1947 to 1954)	James Francis Gumbley (Master Butcher)	Commercial (Butcher?)
15.04.1954 (1954 to 1961)	Margaret Elizabeth Gumbley (Widow) Harold Francis Gumbley (Butcher) John Henry Gumbley (Butcher) (Transmission Application not investigated)	Commercial (Butcher?)
16.06.1961 (1961 to 1961)	Harold Francis Gumbley (Butcher) John Henry Gumbley (Butcher)	Commercial (Butcher?)
16.06.1961 (1961 to 2014)	Harold Francis Gumbley (Butcher, now Manager)	Commercial (Butcher?)
04.03.1999 (1999 to 2014)	Paul Francis Gumbley John James Gumbley (Executors of the Will of Harold Francis Gumbley)	Commercial
20.02.2014 (2014 to date)	# The University of New South Wales	Educational Institution

Table 9: Historical Title Search - Address: Lot 10 D.P. 13995 – 43 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
27.06.1923 (1923 to 1926)	Alice Maud Coulton (Widow) Charles Frederick Coulton (Clerk)	Residential
29.07.1926 (1926 to 1926)	Edward Ernest Christie (Builder)	Residential
13.09.1926 (1926 to 1926)	Victor Herbert Fielder (Builder)	Residential
13.12.1926 (1926 to 1974)	Keith Vyner Coates (Clerk)	Residential
03.12.1974 (1974 to 1977)	Errol Joseph Coates (Technical Teacher) Betty Denice Lane (Married Woman) (Section 94 Application not investigated)	Residential
04.10.1977 (1977 to 1988)	Steven Arthur Lang (Accountant) Betsy Ann Lang (Married Woman)	Residential
26.10.1988 (1988 to 2001)	Andrew John Brown Donna Ann Brown	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
21.03.2001 (2001 to 2003)	Nicholas George Minutillo	Residential
27.08.2003 (2003 to date)	# The University of New South Wales	Educational Institution

Leases:

-) 06.10.2005 (AB 817870) – expired due to effluxion of time, not investigated
-) 22.12.2010 (AF 955878) to Aurora Project and Programs Pty Limited – expires 07.09.2012, also 2 year option

Table 10: Historical Title Search - Address: Lot 19 D.P. 7745 – 62 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
28.11.1921 (1921 to 1927)	Bridget Mary Hagarty (Married Woman) Frances Josephine Mannix (Spinster)	Residential
01.09.1927 (1927 to 1933)	Mary Russell (Married Woman)	Residential
06.04.1933 (1933 to 1935)	Clarence Hudson Cooke (Solicitor)	Residential
05.04.1935 (1935 to 1946)	William Livingstone Cooke (Retired Civil Servant) Anthony Bailey Bradfield (Solicitor) (Transmission Application not investigated)	Residential
06.08.1946 (1946 to 1953)	Anthony Bailey Bradfield (Solicitor)	Residential
14.12.1953 (1953 to 1954)	Violet Needham Thyra Frances Needham (Section 12 Application not investigated)	Residential
25.02.1954 (1954 to 1954)	Vera Malone (Widow)	Residential
25.02.1954 (1954 to 1964)	Eileen Ann Joseph (Married Woman)	Residential
21.09.1964 (1964 to 1965)	Beryl Jean Hay (Married Woman)	Residential
27.05.1965 (1965 to 1968)	Lawrence Kenneth Wong (Engineer) Enid Wong (Married Woman)	Residential
27.06.1968 (1968 to 1989)	Gyula Baranyai (Labourer) Margit Baranyai (Married Woman)	Residential
31.03.1989 (1989 to 1999)	Chin Li Liu	Residential
28.06.1999 (1999 to 2010)	John Alan Moore Toniann Moore	Residential
24.06.2010 (2010 to date)	# George John Williams # Emma Jane Armson	Residential

Table 11: Historical Title Search - Address: Lots 2 & 1 D.P. 1182570 – 44 & 42 Eurimbla Avenue

 The title derivation for this land from 3rd September 1918

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
03.09.1918 (1918 to 1919)	Sydney Coulton (Builder)	Residential
03.02.1919 (1919 to 1937)	Giovannico Cossu (Fruiterer) Josephine Cossu (Married Woman)	Residential
23.02.1937 (1937 to 1956)	Permanent Trustee Company of New South Wales Limited	Residential
21.02.1956 (1956 to 1990)	Khalil Sarkis (Labourer)	Residential
27.02.1990 (1990 to 1995)	Khalil Sarkis Mechel Michael Sarkis Patricia Anne Sarkis	Residential
18.04.1995 (1995 to 2012)	Khalil Sarkis Mechel Michael Sarkis	Residential
01.08.2012 (2012 to 2013)	Mechel Michael Sarkis Sam George Sarkis	Residential
16.07.2013 (2013 to 2014)	Mechel Michael Sarkis	Residential
<u>Continued as regards Lot 2 D.P. 1182570 – 44 Eurimbla Avenue</u>		
17.03.2014 (2014 to date)	# The University of New South Wales	Educational Institution
<u>Continued as regards Lot 1 D.P. 1182570 – 42 Eurimbla Avenue</u>		
01.08.2012 (2012 to 2013)	Mechel Michael Sarkis Sam George Sarkis	Residential
16.07.2013 (2013 to date)	# Sam George Sarkis	Residential

Table 12: Historical Title Search - Address: Lot 10 D.P. 12909 - 28 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
01.09.1922 (1922 to 1950)	War Service Homes Commissioner	Residential
06.11.1950 (1950 to 1957)	Sarah Jane D'Arcy (Married Woman)	Residential
20.03.1957 (1957 to 1980)	Phyllis Lillian D'Arcy (Spinster) (& Her deceased estate) (Section 94 Application not investigated)	Residential
08.09.1980 (1980 to 1985)	Rosa Maria Da Silva (Married Woman)	Residential
07.02.1985 (1985 to date)	Ross Franklin Smiley	Residential

Table 13: Historical Title Search - Address: Lot 3 D.P. 12909 – 14 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
01.09.1922 (1922 to 1954)	War Service Homes Commissioner	Residential
29.03.1954 (1954 to 1957)	Agnes Allen (Widow)	Residential
09.10.1957 (1957 to 1995)	Marjorie Mary Curry (Married Woman) (Section 94 Application not investigated)	Residential
28.09.1995 (1995 to 2006)	Zoly Oravec Maria Oravec	Residential
18.07.2006 (2006 to 2011)	Maria Oravec	Residential
27.04.2011 (2011 to date)	# Scott Andrew O'Brien	Residential

Table 14: Historical Title Search - Address: Lot Y D.P. 445567 – 4 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
13.07.1917 (1917 to 1921)	John Ashwin (Glass Merchant) (& His deceased estate)	Residential
06.10.1921 (1921 to 1928)	Mary Alice Ashwin (Spinster) Now Mary Alice Rossington (Married Woman)	Residential
05.09.1928 (1928 to 1936)	Clara Isabel Welshman (Spinster) Now Clara Isabel Dibble (Married Woman)	Residential
11.03.1936 (1936 to 1951)	William John Webb (Science Master)	Residential
14.09.1951 (1951 to 1959)	Francis Damien Collins (Fireman)	Residential
02.11.1959 (1959 to 1971)	Frances Mary Sharman (Married Woman) Florence Eileen Carney (Married Woman)	Residential
23.09.1971 (1971 to 1977)	Florence Eileen Carney (Married Woman)	Residential
28.04.1977 (1977 to 1977)	Thomas Edward Carney (Motor Mechanic) Michael Robert Carney (Commission Agent) (Transmission Application not investigated)	Residential
05.08.1977 (1977 to 1981)	Bruce Edward Julian Smith (Insurance Clerk) Anna Roberta Smith (Married Woman)	Residential
10.03.1981 (1981 to 1981)	Anna Roberta Smith (Married Woman)	Residential
10.03.1981 (1981 to 1994)	David Rodney Farrell (Solicitor) Peter James Farrell (Industrial Relations Officer) Susan Angela Farrell (Personnel Manager)	Residential
24.08.1994	David Rodney Farrell (Solicitor)	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
(1994 to 1994)	Peter James Farrell (Industrial Relations Officer)	
24.08.1994 (1994 to 1997)	David Rodney Farrell (Solicitor)	Residential
07.04.1997 (1997 to 1997)	David Rodney Farrell (Solicitor) Ellen Elizabeth Linda Farrell	Residential
07.04.1997 (1997 to Date)	# Ellen Elizabeth Linda Farrell	Residential

Table 15: Historical Title Search - Address: Lot X D.P. 445567 – 2 Eurimbla Avenue

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
13.07.1917 (1917 to 1921)	John Ashwin (Glass Merchant) (& His deceased estate)	Residential
06.10.1921 (1921 to 1928)	Mary Alice Ashwin (Spinster) Now Mary Alice Rossington (Married Woman)	Residential
05.09.1928 (1928 to 1936)	Clara Isabel Welshman (Spinster) Now Clara Isabel Dibble (Married Woman)	Residential
11.03.1936 (1936 to 1951)	William John Webb (Science Master)	Residential
14.09.1951 (1951 to 1962)	Francis Damien Collins (Fireman)	Residential
16.11.1962 (1962 to 1964)	David Yee Wong (Retired) Ho Shock Yin (Married Woman)	Residential
02.04.1964 (1964 to 1965)	David Yee Wong (Retired)	Residential
06.03.1965 (1965 to 1968)	Stan Callintzis (Labourer) Stella Callintzis (Married Woman)	Residential
12.11.1968 (1968 to 1973)	Steve Misokefalos (Inspector) Niki Misokefalos (Spinster) Stella Mihali (Spinster)	Residential
13.03.1973 (1973 to 1983)	Steven Mihaelidis (T.V. Technician) Stella Mihali (Spinster)	Residential
07.11.1983 (1983 to 1988)	Tohan Pty Limited	Residential
29.04.1988 (1988 to 1991)	Joseph Tat Kong Tiong (or Teong)	Residential
19.09.1991 (1991 to 1992)	Moresdam Pty Limited	Residential
25.08.1992 (1992 to 1993)	Andrew Victor Rallis Julie Anne Rallis	Residential
15.09.1993	Angelo Theodore Theodore	Residential

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Potential Land Activity
(1993 to 2013)	Graham Alexander Tier (& His deceased estate) Michael Andrew Stergoulis John Laurence Cannon	
12.02.2013 (2013 to date)	# Angelo Theodore Theodore # Michael Andrew Stergoulis # John Laurence Cannon	Residential

7.3 Lotsearch Results

The site is zoned R2 – Low density residential and R3 – Medium density residential, with the Hospital Road site zoned SP2 Infrastructure Health Services Facility by Randwick Local Environmental Plan 2012.

A number of state and local heritage items are listed in the vicinity but not within the site boundary. The closest are:

-) The Cotswold, late Victorian cottage Item – 50 m South of the site; and
-) Blenheim House and outbuilding - 82 m North East of the site.

A number of medical practitioners are registered within a 200 m radius of the site. A business registered as Eurimbah General Store, is registered at 3 Eurimbah Ave, Randwick. In particular the following historical businesses are registered on the site:

1950 Historical Businesses

-) Grocers-Retail Abehouse A 3 Eurimbla Ave., Randwick 56264 Premise Match;
-) Mixed Businesses and General Store - Burke, T., 3 Eurimbla Ave., Randwick 79499;
-) Carriers and Cartage Contractors Joyce, J., 8 Magill St., Randwick 19128; and
-) Butchers-Retail - Thomas, W., 1 Eurimbla Rd., Randwick 14410.

1965 and 1970 Businesses

-) Butchers-Retail (B860) Darnley, Les, 1 Eurimbla Ave., Randwick 273453 Premise Match Onsite;
-) Mixed Businesses (M408) Eurimbah General Store, 3 Eurimbah Ave., Randwick 332577 Premise Match; and
-) Carriers and Cartage Contractors (C150) Joyce, J., 8 Magill St., Randwick 278145 Premise Match.

The closest dry cleaners and motor garages (considered to be high risk contaminating sites) are more than 180 m from the site, and are not considered to be a source of contamination to the site.

7.4 Regulatory Notice Search

The EPA publishes records of contaminated sites under Section 58 of the CLM Act on a public database, accessible via the internet. The notices relate to investigation and/or remediation of significant contaminated land as defined under the CLM Act. More specifically the notices relate to the following:

-) Actions taken by the EPA under Sections 15, 17, 19, 21, 23, 26 or 28 of the CLM Act;
-) Actions taken by the EPA under Sections 35 or 36 of the Environmentally Hazardous Chemicals Act 1985; and
-) Site audit statements provided to the EPA under section 52 of the CLM Act on sites subject to an in-force remediation order.

The search of the database revealed that the subject site is not listed.

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

The NSW EPA also issues environmental protection licences under Section 308 of the POEO Act. The register contains:

-) Environmental protection licences;
-) Applications for new licences and to transfer or vary or extend licences;
-) Environment protection and noise control licences;
-) Convictions and prosecutions under the POEO Act;
-) The result of civil proceedings;
-) Licence review information;
-) Exemptions and provisions of the POEO Act or Regulations;
-) Approvals granted under Clause 9 of the POEO (Control of Burning) Regulation; and
-) Approvals granted under Clause 7a of the POEO (Clean Air) Regulation.

A search of the public register on the 5 October 2017 indicated that no licences were listed for the site.

Results of the searches are attached in the Lotsearch Report in Appendix C.

8. Site Walkover

Full access was not possible to the various residences at the time of the investigation and therefore observations of the site from external (street) locations were made for the purposes of this investigation, by a DP environmental scientist, on 10 October 2017. Photographs are provided in Appendix B. A summary of the observations is provided in Table 16.

Table 16: Site Walkover Summary

Address	Cadastral	Description
1-3 Eurimbla Ave	Lot 35 DP7745	Two storey rendered commercial style building with aluminium roof. Building covers the entire footprint. Side access is a sealed (bitumen) pathway to the rear carpark area on corner of Hospital Road and High Street
5 Eurimbla Ave	Lot 1 DP12909	Older style brick semi with terracotta roof and side driveway.
7 Eurimbla Ave	Lot 2 DP12909	Older style brick semi with terracotta roof and flat carport.
9 Eurimbla Ave	Lot A DP102029	Older style brick semi with terracotta roof and side driveway.
11 Eurimbla Ave	Lot B DP102029	Older style brick semi with terracotta roof and side driveway. Large healthy tree in the front footpath looks healthy. Concrete appears ok with no major cracks.
13 Eurimbla Ave	Lot B DP303478	Single storey rendered semi with carpark areas to the front. Grass looks sparse.
15 Eurimbla Ave	Lot A DP303478	Single storey rendered semi with carport to the front, with a healthy vine ground. Grass looks sparse.
17 Eurimbla Ave	Lot D DP304806	Older style dark brick single storey residence with grey terracotta roof and front garage. Hedges look healthy and well maintained. No signs of stored chemicals or dangerous goods.
19 Eurimbla Ave	Lot C DP304806	Sydney Children Hospital Residence - grey rendered single storey residence with healthy front vegetation and terracotta roof.
21 Eurimbla Ave	Lot B DP304806	Single storey brick rendered grey bungalow with grey terracotta roof and garage. Hedges look sparse and pile of rubbish noted in the front courtyard.
23 Eurimbla Ave	Lot A DP304806	Single storey brick rendered grey bungalow with grey terracotta roof and carport. Hedges and vegetation look healthy and well maintained.
25 Eurimbla Ave	Lot 1 DP13995	Renovated beige double storey. Wooden shingle style renovation on second storey. Grass in front garden looks healthy.

Address	Cadastral	Description
27 Eurimbla Ave	Lot 2 DP13995	Older style dark brick single storey residence with grey terracotta roof and front garage. Hedges look healthy and well maintained. No signs of stored chemicals or dangerous goods.
29 Eurimbla Ave	Lot 3 DP13995	Grey rendered brick bungalow with terracotta roof and front hedge. Limited view of the garage to the left rear and no sign of stored chemicals or dangerous goods.
31 Eurimbla Ave	Lot 4 DP13995	Single storey brick pink painted residence with terracotta roof with side driveway leading to a garage to the left of the property. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
33 Eurimbla Ave	Lot 5 DP13995	Single storey brick painted residence with terracotta roof. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
35 Eurimbla Ave	Lot 6 DP13995	Newer renovated brick two storey residence with grey terracotta roof and front garage. Hedges look healthy and well maintained. No signs of stored chemicals or dangerous goods.
37 Eurimbla Ave	Lot 7 DP13995	Brick single storey bungalow with possible fibro eaves and side driveway leading to a garage to the left of the property. View to the garage is limited so storage of chemicals is possible. Vegetation looks healthy.
39 Eurimbla Ave	Lot 8 DP13995	Brick single storey bungalow with possible fibro eaves and side driveway leading to a garage to the left of the property. View to the garage is limited so storage of chemicals is possible. Vegetation looks healthy.
41 Eurimbla Ave	Lot 9 DP13995	Single storey bungalow with possible fibro eaves and side driveway leading to a gate to the left of the property. Vegetation looks healthy.
43 Eurimbla Ave	Lot 10 DP13995	Two storey brick residence with terracotta roof. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
45 Eurimbla Ave	Lot 11 DP13995	Brick single storey bungalow with possible fibro eaves. View to the garage is limited so storage of chemicals is possible. Vegetation looks healthy.
47 Eurimbla Ave	Lot 12 DP13995	Brick single storey bungalow with possible fibro eaves and side driveway leading to a garage to the left of the property. View to the garage is limited so storage of chemicals is possible. Vegetation looks healthy.

Address	Cadastral	Description
4 Eurimbla Ave	Lot Y DP445567	Single storey brick medical centre with terracotta roof. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
2 Eurimbla Ave	Lot X DP445567	Two storey brick residence with terracotta roof and timber carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
6 Eurimbla Ave	Lot A DP439756	Single storey brick semi residence with terracotta roof. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
8 Eurimbla Ave	Lot B DP439756	Single storey brick semi residence with terracotta roof and flat carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
10 Eurimbla Ave	Lot 1 DP300666	Single storey brick semi residence with terracotta roof and flat carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
12 Eurimbla Ave	Lot 32 DP667518	Single storey brick semi residence with terracotta roof and timber carport. No signs of stored chemicals or dangerous goods.
14 Eurimbla Ave	Lot 3 DP667518	Single storey brick semi residence with terracotta roof and timber carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
16 Eurimbla Ave	Lot 4 DP667518	Single storey brick semi residence with terracotta roof and flat carport. No signs of stored chemicals or dangerous goods.
18 Eurimbla Ave	Lot 5 DP667518	Single storey brick semi residence with terracotta roof and timber carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
20 Eurimbla Ave	Lot 6 DP667518	Single storey brick semi residence with terracotta roof and flat carport. No signs of stored chemicals or dangerous goods.
22 Eurimbla Ave	Lot 7 DP667518	Single storey brick semi residence with terracotta roof and flat carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
24 Eurimbla Ave	Lot 4 DP667518	Single storey brick semi residence with terracotta roof. No signs of stored chemicals or dangerous goods.
26 Eurimbla Ave	Lot 9 DP667518	Single storey brick semi residence with terracotta roof. No signs of stored chemicals or dangerous goods.

Address	Cadastral	Description
28 Eurimbla Ave	Lot 10 DP667518	Single storey brick semi residence with terracotta roof and possible fibro carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
30 Eurimbla Ave	Lot 11 DP667518	Single storey brick semi residence with terracotta roof and timber carport. No signs of stored chemicals or dangerous goods.
32 Eurimbla Ave	Lot 12 DP667518	Single storey brick semi residence with terracotta roof and timber carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
34 Eurimbla Ave	Lot 13 DP667518	Single storey brick semi residence with terracotta roof and flat carport. Vegetation looks lush and healthy. No signs of stored chemicals or dangerous goods.
36 Eurimbla Ave	Lot 14 DP667518	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
38 Eurimbla Ave	Lot B DP6441943	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
40 Eurimbla Ave	Lot A DP6441943	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
42 Eurimbla Ave	Lot 1 DP1182570	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
44 Eurimbla Ave	Lot 2 DP1182570	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
46 Eurimbla Ave	Lot 23A DP434935	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
48 Eurimbla Ave	Lot 23B DP434935	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
50 Eurimbla Ave	Lot 1 DP522586	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
52 Eurimbla Ave	Lot 2 DP522586	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.

Address	Cadastral	Description
54 Eurimbla Ave	Lot 1 DP501682	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
56 Eurimbla Ave	Lot 2 DP501682	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
58 Eurimbla Ave	Lot 3 DP513339	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
60 Eurimbla Ave	Lot 4 DP513339	Single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
62 Eurimbla Ave	Lot 19 DP7745	Renovated brick rendered new residence with flat new roof. Front grass is sparse on footpath. Limited view of garden.
64 Eurimbla Ave	Lot 18 DP7745	Double storey brick rendered new residence with grey terracotta roof. Large healthy tree to front of property.
66A Eurimbla Ave	Lot 11 DP806091	Single storey rendered residence rear access from side passageway, front double garage.
66 Eurimbla Ave or 6 Magill Street	Lot 1 DP74860	Large single storey brick semi residence with terracotta roof and carport. Trees look lush and healthy, grass is healthy on footpath. Limited view behind brick wall of the garden. Front double garage. No front garden.
68 Eurimbla Ave or 8 Magill Street	Lot 7 DP 975640	Rendered double storey modern residence. High rendered wall at back limits view to inspect the garden. Front is double fronted garages (townhouse or semi) with rendered courtyard. Front tree looks healthy.
2 Magill Street	Lot 1 DP307266	Single storey rendered bungalow residence with terracotta roof and carport. Trees look lush and healthy, grass is sparse on footpath. No signs of stored chemicals or dangerous goods.
4 Magill Street	Lot 12 DP806091	Single storey brick pink painted house with terracotta roof and front garden.
10 Magill Street	Lot 1 DP11351	Single storey brick rendered residence with concrete driveway. Garden looks healthy with fruit trees along front gate.
12 Magill Street	Lot 2 DP11351	Double storey rendered residence with possible double garage and paved front courtyard.

Address	Cadastral	Description
14 Magill Street	Lot 3 DP11351	Single storey dark brick residence with possible fibro green painted eaves and concrete driveway. A brick side passage leads to the rear garden. Front grass is sparse but well maintained. Limited vegetation is evident.
49 Botany Street	Lot 1 DP590480	Consolidated commercial medical rooms (orthodontics) red brick first storey with side ramp and second storey addition (possibly fibro construction) and terracotta roof.
51 Botany Street	Lot 2 DP590480	
53 Botany Street	Lot A DP440501	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy.
55 Botany Street	Lot B DP440501	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy.
57 Botany Street	Lot C DP440501	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy.
59 Botany Street	Lot D DP440501	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy.
61 Botany Street	Lot 1 DP13997	Single storey dark brick bungalow residence with terracotta roof and driveway at side. Vegetation appears healthy. Tree in the front footpath is healthy but grass in footpath is sparse and bare.
63 Botany Street	Lot 2 DP13997	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy. Tree in the front footpath is healthy but grass in footpath is sparse and bare.
65 Botany Street	Lot 3 DP13997	Single storey dark brick semi residence with terracotta roof and driveway at side. Vegetation appears healthy. Tree in the front footpath is healthy but grass in footpath is sparse and bare.
67 Botany Street	Lot 4 DP13997	Beige rendered single storey bungalow residence with terracotta roof and driveway at side. Vegetation looks healthy. Tree in the front footpath is healthy but grass in footpath is sparse and bare.
67A Botany Street	Lot 5 DP13997	Single storey dark brick freestanding residence with terracotta roof and driveway at side. Concrete in driveway is cracked. Tree in the front path is healthy.
69 Botany Street	Lot 6 DP13997	Single storey dark brick freestanding residence with terracotta roof and driveway at side. Concrete in driveway is cracked. Tree in the front path is healthy, however the grass is not.

Address	Cadastral	Description
71 Botany Street	Lot 7 DP13997	Single storey beige rendered bungalow residence with terracotta roof and driveway at side. Limited vegetation and view to the rear drive (garage) is limited.
73 Botany Street	Lot A DP167106	Single storey dark brick bungalow residence with terracotta roof and driveway at side. Vegetation appears healthy.
75 Botany Street	Lot B DP167106	Single storey dark brick bungalow residence (possible fibro eaves) with brick fenced courtyard. Vegetation appears healthy.
77 Botany Street	Lot C DP167106	Single storey dark brick bungalow residence (possible fibro eaves) with hedging at front fence. Vegetation appears healthy.
79 Botany Street	Lot D DP167106	Pink brick residence with possible fibro second storey extension. Limited view behind the front brick wall.
81 Botany Street	Lot A DP33161	Single storey beige bungalow residence with terracotta roof and driveway at side. Vine on front fence appear lush and healthy.
83 Botany Street	Lot B DP33161	Single storey white painted brick bungalow residence (possible fibro eaves) with terracotta roof and grassed front garden. Vegetation appears healthy.
85 Botany Street	Lot C DP33161	Single storey white painted brick bungalow residence (possible fibro eaves) with terracotta roof and grassed front garden. Vegetation appears healthy.
87 Botany Street	Lot D DP33161	Single storey dark brick bungalow residence (possible fibro eaves) with grassed garden front. Vegetation appears healthy.
89 Botany Street	Lot E DP33161	Double storey dark brick bungalow residence (possible fibro eaves on carport) with brick courtyard at front (limited view) and healthy tree in front footpath.
91 Botany Street	Lot F DP33161	Single storey painted brick residence with grassed garden area and carport.
93 Botany Street	Lot 1 DP741639	Double storey bungalow residence (possible fibro second storey extension) with brick courtyard at front (limited view) and healthy tree in front footpath.
95 Botany Street	Lot 2 DP1134643	Single storey painted brick residence with terracotta roof and concrete front courtyard.

Address	Cadastral	Description
97 Botany Street	Lot A DP439101	Single storey dark brick semi residence with terracotta roof and driveway at side. Possible fibro eaves.
99 Botany Street	Lot B DP439101	Single storey dark brick semi residence with terracotta roof and driveway at side. Possible fibro eaves.
101 Botany Street	Lot 3 DP302329	Painted brick bungalow corner property with healthy trees in garden and front footpath. No signs of stored chemicals or dangerous goods.

9. Preliminary Conceptual Site Model

A conceptual site model (CSM) is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how the site became contaminated and how potential receptors may be exposed to contamination either in the present or in the future i.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

9.1 Potential Contamination Sources and Contaminants of Concern

Based on the desktop study and site walkover, the following potential sources of contamination and associated contaminants of concern have been identified (Table 17).

Table 17: Potential Contamination Sources and Contaminants of Concern

Potential Source	Description of Potential Contaminating Activity	Contaminants of Concern
Imported fill of unknown origin (S1)	Uncontrolled filling: Associated with disturbed terrain in the local area and from the demolition of former buildings/structures on site. Only shallow fill is anticipated across the site.	Heavy metals, TPH, BTEX, PAH, phenols, PCB, OCP, and asbestos.
Hazardous building materials in existing buildings (S2)	Presence of hazardous building materials within the building fabric of some of the existing buildings.	Asbestos, synthetic mineral fibre (SMF), lead and PCB
Industrial/commercial activities at the site or nearby (S3)	Storage of chemicals or equipment associated with former butcher/ medical practices and orthodontist.	Heavy metals, TRH, BTEX, PAH, phenols, PFAS, VOCs and asbestos.
Neighbouring sites (S4)	Potential migration of contamination associated with the backfilled quarry at the UNSW site. Current operations at the new Biomed building at UNSW.	Asbestos, metals, hydrocarbons (TPH/BTEX) and pharmaceutical solvents (VOCs).

Notes:

TRH -	total petroleum hydrocarbon
BTEX -	benzene, toluene, ethylbenzene, xylene
PAH -	polycyclic aromatic hydrocarbons
PCB -	polychlorinated biphenyls
OCP -	organochlorine pesticides
OPP -	organophosphorus pesticides
VOC -	volatile organic compounds
PFAS-	Perfluorinated Alkylated Substances

The potential contamination sources (S) on the site are therefore as follows:

- S1 Fill of unknown origin;
- S2 Hazardous building materials;
- S3 Previous industrial/commercial activities at the site; and
- S4 Neighbouring sites (hospital and UNSW).

9.2 Potential Receptors

9.2.1 Human Health Receptors

- R1 Current site users (residents, site workers and visitors);
- R2 Construction and maintenance workers;
- R3 Final end users (site workers and visitors); and
- R4 Land users in adjacent areas (university / hospital / residential / commercial).

9.2.2 Environmental Receptors

- R5 Groundwater;
- R6 Surface water (Botany Bay); and
- R7 Terrestrial ecosystems (neighbouring areas of conservations such as Centennial Park, Queens Park and Eastlakes).

9.2.3 Potential Pathways

Potential pathways for the identified contamination to impact on the receptors include the following:

- P1 Ingestion and dermal contact;
- P2 Inhalation of dust and/or vapour;
- P3 Leaching of contaminants and vertical migration into groundwater (Eastlakes/Botany Bay);
- P4 Surface water run-off (Centennial Park/Coogee);
- P5 Lateral migration of groundwater; and
- P6 Contact with terrestrial ecology (Centennial Park).

9.3 Summary of Preliminary CSM

A 'source – pathway – receptor' approach has been used to assess the potential risks of harm being caused to human, water or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways. The possible pathways between the above sources (S1 to S4) and receptors (R1 to R7) are provided in Table 18 below.

Table 18: Potential Complete Pathways

Source	Pathway	Receptor
S1 Fill of unknown origin S3 Previous industrial/commercial activities at the site and S3 Vehicles and cars within the building footprint	P1: Ingestion and dermal contact	R1: Current site users R2: Construction and maintenance workers R3: Final end users
	P2: Inhalation of dust and/or vapour	R1: Current site users R2: Construction and maintenance workers R3: Final end users (educational/hospital) R4: Land users in adjacent areas (educational/hospital/residential/commercial/industrial)
	P3: Leaching of contaminants and vertical migration into groundwater	R5: Groundwater
	P4: Surface water run-off P5: Lateral migration of groundwater	R6: Surface water
	P6: Contact with terrestrial ecology	R7: Terrestrial ecology
S2 Hazardous building materials	P1: Ingestion and dermal contact P2: Inhalation of dust and/or vapour	R1: Current site users R2: Construction and maintenance workers R3: Final end users
S4 Neighbouring sites (hospital and UNSW)	P2: Inhalation of vapour generated by contaminated groundwater.	R1: Current site users R2: Construction and maintenance workers R3: Final end users R4: Land users in adjacent areas
	P3: Lateral migration of contaminated groundwater from up-gradient sites	R5: Groundwater R6: Surface water
	P6: Contact with terrestrial ecology	R7: Terrestrial ecology

10. Fieldwork and Analysis

10.1 Data Quality Objectives and Project Quality Procedures

The investigation has been devised broadly in accordance with the seven step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of NEPC (2013).

The DQO process is outlined as follows:

-) Stating the Problem;
-) Identifying the Decision;
-) Identifying Inputs to the Decision;
-) Defining the Boundary of the Assessment;
-) Developing a Decision Rule;
-) Specifying Acceptable Limits on Decision Errors; and
-) Optimising the Design for Obtaining Data.

An evaluation of the DQO is presented in Appendix F.

10.2 Data Quality Indicators

The performance of the assessment in achieving the DQO was assessed through the application of Data Quality Indicators (DQI), defined as follows:

Precision:	A quantitative measure of the variability (or reproducibility) of data;
Accuracy:	A quantitative measure of the closeness of reported data to the “true” value;
Representativeness:	The confidence (expressed qualitatively) that data are representative of each media present on the site;
Completeness:	A measure of the amount of useable data from a data collection activity; and
Comparability:	The confidence (expressed qualitatively) that data can be considered equivalent for each sampling and analytical event.

An evaluation of the DQI is presented in Appendix F.

10.3 Initial Sample Locations and Rationale

The initial fieldwork for the PSI was carried out in conjunction with a geotechnical investigation and, as such, the bore locations were positioned primarily for geotechnical investigation purposes in areas where access was available. Given the access constraints on properties not yet acquired for the purpose of the Randwick Campus Redevelopment, the locations were primarily in Hospital Road (Boreholes BH 1 to BH 3), Eurimbla Ave (BH 4 and BH 5), Magill Street (BH 6) and in the front of a property on Botany Street (BH 7) which was converted into a groundwater monitoring well.

On the basis of the EPA's publication *Sampling Design Guidelines*, the recommended number of sample locations for a property of 3.3 hectares is 45 sample locations, aimed at determining the presence of a hot spot of contamination with a diameter of about 30 m.

The limited sampling regime adopted for the initial investigation reflected the access constraints at that stage of the project. Additional locations will be targeted in future investigations, such as those discussed in Section 10.4. This staged approach is in line with the requirements of the *State Environmental Planning Policy 55 (SEPP55)*.

Soil samples from the initial investigation were collected from each of the borehole locations on 18 – 25 September and 6 October 2017. Selected samples were analysed for a range of analytes, as described in Section 2. These samples were selected based on site observations (odour, staining etc), PID readings and their position within the test bore (i.e. fill or natural). Test bore BH7 was converted into a groundwater well and sampled on 13 October 2017.

The soil and groundwater sampling locations are shown on Drawing 1, Appendix A.

10.4 Additional Sampling Locations and Rationale

Additional fieldwork was undertaken to supplement the initial investigation, given that some properties within the site were identified as being accessible. The additional contamination investigation included 22 boreholes in a total of 11 properties where access had been granted at the time of the field work in January 2018. Two boreholes were augured at each property, one in the front yard and one in the backyard. Soil samples were collected from these borehole locations on 9 – 11 January 2018. Selected samples were analysed for a range of analytes, as described in Section 2. These samples were selected based on site observations (odour, staining etc), PID readings and their position within the test bore (i.e. fill or natural).

The additional bore locations are shown on Drawing 1, Appendix A and include bores positioned in the following 11 properties:

-) 2 Magill Street;
-) 89 Botany St;
-) 65 Botany St;
-) 63 Botany St;
-) 15 Eurimbla Ave;
-) 31 Eurimbla Ave;
-) 40 Eurimbla Ave;
-) 41 Eurimbla Ave;
-) 44 Eurimbla Ave;
-) 52 Eurimbla Ave; and
-) 66A Eurimbla Ave.

In addition to the hand-augered locations, sampling and testing was conducted on soil samples recovered at Boreholes BH8 and BH9 (refer Drawing 1, Appendix A). These bore locations were positioned primarily for geotechnical investigation purposes in areas where access was available.

10.5 Drilling and Soil Sampling Methods

In the initial phase of work (2017), bores were drilled under the instruction and supervision of a geotechnical engineer and/or environmental scientist from DP between 18-25 September and 6 October 2017; specific dates for each sampling location are detailed in the logs in Appendix D. The drilling method included:

-) Seven boreholes were drilled to depths of between 16.0 m and 20.5 m bgl, and were located within the existing roads, except for BH7, which was drilled within a residential property (refer to Drawing 1 in Appendix A for borehole locations);
-) The boreholes were drilled through the filling and soil to the top of weathered rock using a bobcat-mounted or truck-mounted drilling rig using solid flight auger and rotary drilling (i.e. with circulating drilling fluid) techniques;
-) Standard penetration tests (SPTs) were undertaken below the depths of non-destructive drilling (NDD) at approximate 1.5 m depth intervals to assess the compaction of filling, the strength of the soils/weathered rock and to collect samples for tactile assessment and laboratory testing;
-) Observation of any groundwater whilst augering the boreholes;
-) All boreholes were continued into the bedrock using diamond core drilling techniques to recover 50 mm diameter (NMLC-size) rock core samples for logging and strength testing;
-) Point load (axial) strength testing at approximately 1 m depth intervals on the rock core;
-) Logging of the boreholes and co-ordination of the field work by a geotechnical engineer;
-) Soil samples for contamination testing were collected from boreholes BH1 – BH5 and BH7 which were located within the proposed building footprint and consolidated site area; and
-) BH7 was converted to a groundwater well, MW7 with well construction details provided below in Section 10.5.

Stage 2 of the fieldwork, as undertaken in January 2018 comprised:

-) 22 hand-augered bores were drilled in the front and back gardens of selected properties on 9 – 11 January 2018; these bores were drilled to 1.5 m or the top of natural whichever was the lesser using hand tools by a suitably qualified environmental scientist;
-) Two boreholes were drilled under the instruction and supervision of a geotechnical engineer from DP between 23-25 January 2018. Specific dates for each sampling location are detailed in the logs in Appendix D; and
-) Soil samples for contamination testing were collected from both two boreholes at the depths of filling and natural material.

All sampling data was recorded on DP's borehole logs with essential information included in the chain-of-custody sheets. The general sample handling procedure adopted is summarised below:

-) Collect soil samples directly from the augers or SPT tube;

-) Transfer samples into laboratory-prepared glass jars, filled to the top to minimise the headspace within the sample jar, and capping immediately to minimise loss of volatiles;
-) Label sample containers with individual and unique identification, including project number, sample location and sample depth; and
-) Place the glass jars, with Teflon lined lid, into an ice cooled, insulated and sealed container for transport to the laboratory.

Envirolab Services Pty Ltd (Envirolab) was used for the primary analysis of soil samples with ALS used for inter laboratory duplicate analysis.

10.6 Well Construction Details and Groundwater Sampling Methodology

The groundwater monitoring well was constructed to intercept the water table for groundwater level monitoring opportunities and for groundwater quality (contamination) sampling purposes. The groundwater monitoring well was constructed of 50 mm diameter acid washed class 18 PVC casing and machine slotted well screen intervals. Joints were screw threaded, thereby avoiding the use of glues and solvents which may contaminate the wells. The well was capped and a Gatic cover placed flush with the ground surface.

The monitoring well at BH7 was constructed as follows:

-) The well was installed to a depth of about 20.5 m bgl to allow measurement of the groundwater level and collection of groundwater samples for environmental testing;
-) The well details were as follows: screen 4.0 m to 20.47 m; gravel 5.0 m to 20.47 m; bentonite 3.5 m to 5.0 m; backfill surface to 3.5 m with concrete set;
-) Groundwater well purged >3 well volumes following installation using a low flow pump (Geopump) until field parameters (pH, temperature, dissolved oxygen (DO), conductivity, total dissolved solids (TDS) and redox) had stabilised;
-) The groundwater level was measured within the well on one occasion following purging of groundwater using an interface meter as 5.07 m bgl (equivalent RL of 49.53 m AHD); and
-) Groundwater sampling was undertaken on 13 October 2017 using the low flow pump. Samples were placed with a minimum of aeration into appropriately preserved bottles. For analysis of metals the relevant sample fraction was filtered using an in-line disposable 0.45 µm filter that was changed between samples.

The sample handling and management comprised the following:

-) The sample was placed in an insulated cooler and maintained at a cool temperature using ice until transported to the analytical laboratory, and
-) Chain-of-custody documentation was maintained at all times and countersigned by the receiving laboratory on transfer of samples.

Envirolab was used for the primary groundwater sample analysis.

10.7 Field Quality Assurance and Quality Control

The field quality assurance (QA) and quality control (QC) procedures for sampling were as prescribed in Douglas Partners' *Field Procedures Manual*. Field replicate samples were recovered and analysed for a limited suite of contaminants by means of intra and inter-laboratory analysis. Trip blank and trip spike samples were also included as part of the QA/QC process. This is in accordance with standard industry practice and guidelines.

No field rinsate samples were collected or analysed as part of the soil assessment, given that disposable equipment was used for soil sampling at each bore significantly reducing the likelihood of cross contamination. Rinsate sample test results were not considered to be critical to the outcomes of the investigation.

A complete discussion of the field QA/QC is presented in Appendix F. In summary, it is considered that on the basis of the field and laboratory QA/QC the analytical data reported by the laboratory is reliable and useable for this investigation.

10.8 Analytical Rationale

The analytical scheme was designed to obtain an indication of the potential presence and possible distribution of contaminants that may be attributable to past and present activities, and features within the site, as generally informed by the CSM and discussed in Section 9. However, it should be noted that PFAS and VOC analysis of soil samples was not undertaken as the desktop identification of those potential contaminants was not completed prior to undertaking the testing. Future investigations will incorporate such potential contaminants.

The analytical rationale was also to enable appropriate data to preliminarily classify soils to be excavated in accordance with the NSW Environment Protection Authority (EPA) *Waste Classification Guidelines* November 2014 (EPA, 2014).

10.9 Laboratory QA/QC

The analytical laboratory, accredited by NATA, is required to conduct in-house QA/QC procedures. These are normally incorporated into every analytical run and include reagent blanks, spike recovery, control samples, surrogate recovery and duplicate samples. These results are included in the laboratory certificates in Appendix E.

The results of the DP assessment of laboratory QA/QC are presented in Appendix F. In summary, it is considered that on the basis of the field and laboratory QA/QC the analytical data reported by the laboratory is reliable and useable for this investigation.

11. Assessment Criteria

In order to address the objectives of the new Randwick Campus Redevelopment including the Acute Services Building (ASB) and, the adoption of a range of Site Assessment Criteria has been

undertaken in order to identify any areas which have limited suitability for more sensitive uses (such as landscaped areas and 'residential' such as the long term rehabilitation or possible accommodation for nurses/doctors during extended periods).

The Site Assessment Criteria (SAC) applied in the current investigation is informed by the CSM which identified human and ecological receptors to potential contamination on the site (refer to Section 8). Analytical results were assessed (as a Tier 1 assessment) against the SAC comprising the investigation and screening levels of Schedule B1, National Environment Protection Council, National Environment Protection Measure 1999, as amended (NEPC, 2013). The NEPC guidelines are endorsed by the EPA under the CLM Act 1997. Petroleum based health screening levels for direct contact have been adopted from the *Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) Technical Report no.10 Health screening levels for petroleum hydrocarbons in soil and groundwater* (2011) as referenced by NEPC (2013).

The investigation and screening levels are applicable to generic land use settings and include consideration of, where relevant, the soil type and the depth of contamination. The investigation and screening levels are not intended to be used as clean up levels. Rather, they establish concentrations above which further appropriate investigation (e.g. Tier 2 assessment) should be undertaken or where certain land-uses may be more suitable. They are intentionally conservative and are based on a reasonable worst-case scenario.

11.1 Soils Site Assessment Criteria

11.1.1 Health Investigation Levels

The Health Investigation Levels (HIL) and Health Screening Levels (HSL) are scientifically-based, generic assessment criteria designed to be used in the first stage (Tier 1) of an assessment of potential human health risk from chronic exposure to contaminants.

HIL are applicable to assessing health risk arising via all relevant pathways of exposure for a range of metals and organic substances. The HIL are generic to all soil types and apply generally to a depth of 3 m below the surface. Site-specific conditions may determine the depth to which HILs apply for other land uses.

HSL are applicable to selected petroleum compounds and fractions to assess the risk to human health via inhalation and direct contact pathways. HSL have been developed for different land uses, soil types and depths to contamination.

The generic HIL and HSL are considered to be appropriate for the assessment of contamination at the site. Given the proposed land use and based on the CSM (Section 9) the adopted HIL and HSL are:

-) **HIL-B & HSL-B** – residential end use with minimal access to underlying soils for limited parts of the site which may be used for patients and families who require extended periods at the hospital;
-) **HIL-C & HSL-C** - public open space (for area to be landscaped);
-) **HIL-D & HSL-D** - commercial and industrial end use (continuation of present use), and intrusive maintenance workers (also representing construction workers) and
-) **HSL** – Intrusive Maintenance Worker (shallow trench).

Health screening levels for the vapour intrusion pathway have been conservatively adopted.

Table 19 shows the HILs that have been adopted by NEPC (2013) Schedule B1, Table 1A(1). Table 19 only includes contaminants analysed during this assessment, not the full list provided in NEPC (2013).

Table 19: Health Investigation Levels

Contaminant	HIL B – Residential (mg/kg)	HIL C – Open Space (mg/kg)	HIL D – Industrial/ Commercial (mg/kg)
Metals and Inorganics			
Arsenic	500	300	3000
Cadmium	150	90	100
Chromium (IV)	500	300	3600
Copper	30,000	17,000	240,000
Lead	1200	600	1,500
Mercury (inorganic)	120	80	730
Nickel	1200	1200	6,000
Zinc	60,000	30,000	400,000
PAH			
Carcinogenic PAH (as benzo(a)pyrene TEQ) ¹	4	3	40
Total PAH	400	300	4000
Phenols			
Pentachlorophenol (used as an initial screen)	45,000	40,000	240,000
OCP			
DDT + DDD + DDE	600	400	3600
Aldrin + Dieldrin	10	10	45
Chlordane	90	70	530
Endosulfan (total)	400	340	2000
Endrin	20	20	100
Hepatchlor	10	10	50
HCB	15	10	80
Methoxychlor	500	400	2500
Other Pesticides			
Chlorpyrifos	340	250	2000
Other Organics			
PCB ²	1	1	7

Notes:

1 sum of carcinogenic PAH

2 non dioxin-like PCBs only

Table 20 shows petroleum hydrocarbon compounds adopted from NEPC (2013) Schedule B1, Table 1A(3). The HSLs are based on overlying soil type and depth. HSLs for sand have been used based on the sandy clay fill material encountered at the site in the boreholes. Given the general depth of fill encountered in the investigation during the intrusive works, and using the most conservative values, the depth range of 0 m to <1 m has been used.

Table 20: Soil Health Screening Levels for Vapour Intrusion

Contaminant	Soil Type	HSL B – Residential (mg/kg)	HSL C – Open Space (mg/kg)	HSL D – Industrial Commercial (mg/kg)	HSL – Intrusive Maintenance Worker
		Depth 0 m to <1m	Depth 0 m to <1m	Depth 0 m to <1m	Depth 0 m to <1m
Toluene	Sand	160	NL	NL	NL
Ethylbenzene		55	NL	NL	NL
Xylenes		40	NL	230	NL
Naphthalene		3	NL	NL	NL
Benzene		0.5	NL	3	77
TRH C ₆ -C ₁₀ less BTEX [F1]		45	NL	260	NL
TRH >C ₁₀ -C ₁₆ less naphthalene [F2]		110	NL	NL	NL

11.2 Ecological Investigation and Screening Levels

Ecological Investigation Levels (EIL) have been derived for selected metals and organic compounds and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). EIL depend on specific soil physiochemical properties and land use scenarios and generally apply to the top 2 m of soil, which corresponds to the root zone and habitation zone of many species. The EIL is determined for a contaminant based on the sum of the ambient background concentration (ABC) and an added contaminant limit (ACL). The ABC of a contaminant is the soil concentration in a specific locality that is the sum of naturally occurring background levels and the contaminants levels that have been introduced from diffuse or non-point sources (e.g. motor vehicle emissions). The ACL is the added concentration (above the ABC) of a contaminant above which further appropriate investigation and evaluation of the impact on ecological values is required.

The EIL is calculated using the following formula:

$$\text{EIL} = \text{ABC} + \text{ACL}$$

The ABC is determined through direct measurement at an appropriate reference site (preferred) or through the use of methods defined by Olszowy et al *Trace element concentrations in soils from rural and urban areas of Australia*, Contaminated Sites monograph no. 4, South Australian Health Commission, Adelaide, Australia 1995 (Olszowy, 1995) or Hamon et al, *Geochemical indices allow estimation of heavy metal background concentrations in soils*, Global Biogeochemical Cycles, vol. 18, GB1014, (Hamon, 2004). ACL is based on the soil characteristics of pH, CEC and clay content.

EIL (and ACLs where appropriate) have been derived in NEPC (2013) for only a short list of contaminants comprising As, Cu, Cr (III), DDT, naphthalene, Ni, Pb and Zn. An *Interactive (Excel) Calculation Spreadsheet* may be used for calculating site-specific EIL for these contaminants, and has been provided in the ASC NEPM Toolbox available on the SCEW (Standing Council on Environment and Water) website (<http://www.scew.gov.au/node/941>).

The adopted EIL, derived from the *Interactive (Excel) Calculation Spreadsheet* are shown in the following Table 21. The following site specific data and assumptions have been used to determine the EILs:

-) The EILs will apply to the top 2 m of the soil profile;
-) Given the likely source of soil contaminants (i.e. historical site use/fill) the contamination is considered as “aged” (>2 years) and
-) ABCs have been derived using the *Interactive (Excel) Calculation Spreadsheet* using input parameters of aged soil, CEC of 2.4 cmol_e/kg and pH of 7 with high traffic and clay content of 15% for the samples analysed as part of this DSI (see laboratory certificates provided in Appendix E).

Table 21: Ecological Investigation Levels (EIL) in mg/kg

Analyte		EIL Residential Open Space	EIL Commercial Industrial	Comments
Metals	Arsenic	100	160	Adopted pH of 7 and CEC of 2.4 cmol _e /kg; assumed clay content 15% High traffic area (NSW)
	Chromium III	200	320	
	Copper	65	80	
	Lead	1100	1800	
	Nickel	9	10	
	Zinc	240	300	
PAH	Naphthalene	170	370	

Ecological Screening Levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. ESL apply to the top 2 m of the soil profile as for EIL.

ESL have been derived in NEPC (2013) for petroleum fractions F1 to F4 as well as BTEX and Benzo(a)pyrene. Site specific data and assumptions as summarised in Table 22 have been used to determine the ESL. The more conservative soil type of coarse sand has been adopted. The adopted ESL, from Table 1B(6), Schedule B1 of NEPC (2013) are shown in Table 23.

Table 22: Inputs to the Derivation of ESL

Variable	Input	Rationale
Depth of ESL application	Top 2 m of the soil profile	The top 2 m depth below ground level corresponds to the root zone and habitation zone of many species.
Land use	Range of uses	Hospital Masterplan
Soil Texture	Coarse	Based on findings noted in test bore logs – sandy clay filling over sand (Appendix D)

Table 23: Ecological Screening Levels (ESL) in mg/kg

Analyte		ESL (Residential and open space)	ESL (Industrial Commercial)	Comments
TRH	C6 – C10 (less BTEX) [F1]	180*	215	All ESLs are low reliability apart from those marked with * which are moderate reliability
	>C10-C16 (less Naphthalene) [F2]	120*	170*	
	>C16-C34 [F3]	300	1700	
	>C34-C40 [F4]	2800	3300	
BTEX	Benzene	50	75	
	Toluene	85	135	
	Ethylbenzene	70	165	
	Xylenes	105	180	
PAH	Benzo(a)pyrene	0.7	1.4	

11.3 Management Limits

NEPC (2013) Table 1B(7) provides 'management limits' for TRH fractions, which are applied after consideration of relevant HSLs. The management limits have been adopted to avoid or minimise the following potential effects of petroleum hydrocarbons:

-) Formation of non-aqueous phase liquids (LNAPL);
-) Fire and explosive hazards; and
-) Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

The presence of site TRH contamination at the levels of the management limits does not imply that there is no need for administrative notification or controls in accordance with jurisdictional requirements. The adopted management limits are shown in Table 8 and have been selected based on the CSM.

Management limits for coarse material are presented in Table 24, since variable clay textures were encountered in the fill samples collected, and coarse texture management limits are more conservative of the two management limits available.

Table 24: Management Limits for TRH Fractions in Soil

TRH Fraction	Soil Texture	Management Limit: Residential / Open Space (mg/kg)	Management Limit: Industrial Commercial (mg/kg)
C ₆ -C ₁₀ [F1]	Coarse	700	700
>C ₁₀ -C ₁₆ [F2]	Coarse	1,000	1,000
>C ₁₆ -C ₃₄ [F3]	Coarse	2,500	3,500
>C ₃₄ -C ₄₀ [F4]	Coarse	10,000	10,000

11.4 Asbestos in Soil

Bonded asbestos-containing material (ACM) is the most common form of asbestos contamination across Australia, generally arising from:

-) Inadequate removal and disposal practices during demolition of buildings containing asbestos products;
-) Widespread dumping of asbestos products and asbestos containing fill on vacant land and development sites; and
-) Commonly occurring in historical fill containing unsorted demolition materials.
-) Importation of asbestos contaminated building products from China.

Mining, manufacturing or distribution of asbestos products may result in sites being contaminated by friable asbestos including free fibres. Severe weathering or damage to bonded ACM may also result in the formation of friable asbestos comprising fibrous asbestos (FA) and/or asbestos fines (AF).

Asbestos only poses a risk to human health when asbestos fibres are made airborne and inhaled. If asbestos is bound in a matrix such as cement or resin, it is not readily made airborne except through substantial physical damage. Bonded ACM in sound condition represents a low human health risk, whilst both FA and AF materials have the potential to generate, or be associated with, free asbestos fibres. Consequently, FA and AF must be carefully managed to prevent the release of asbestos fibres into the air.

Given the preliminary nature of the investigation the adopted SAC for asbestos is no asbestos detected at the laboratory reporting limit of 0.1 g/kg.

11.5 Contaminants with No Assessment Criteria

Where no guidance is provided in NEPC (2013) for a specific analyte, the PQL was used as the initial screening criteria.

If concentrations are recorded above the PQL, reference criteria will be sourced from other national and international guidance as relevant and used to determine the significance of the detected analyte.

11.6 Groundwater Site Assessment Criteria

11.6.1 Groundwater Investigation Levels

The potential receptors of impacted groundwater from the site include the ecosystems of Botany Bay, as discussed in Section 9.

The Groundwater Investigation Levels (GIL) listed in NEPC (2013) are based on:

-) *National water quality management strategy. Australian and New Zealand guidelines for fresh and marine water quality 2000 (ANZECC & ARMCANZ); and*
-) *Drinking Water Guidelines.*

With respect to the protection of aquatic environments, the nearest water body to the site is Eastlakes and Mill Pond to the south west, which leads into Botany Bay and the Tasman Sea to the west. As a conservative measure, the appropriate GIL in terms of aquatic ecosystem risk are therefore, considered to be the ANZECC Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) trigger values for toxicants in freshwater for the protection of 95% of species (where available). The adopted GIL for the analytes included in the investigation, and the corresponding source documents, are shown in Table 25.

Table 25: Groundwater Investigation Levels (in µg/L unless otherwise stated)

Analyte		NEPC (2013)	
		Fresh Water	Drinking Water
Metals	Arsenic (V)	13 as As (V)	10 (Arsenic)
	Cadmium	0.2	2
	Chromium (VI)	1	50
	Copper	1.4	2,000
	Lead	3.4	10
	Mercury (total)	0.06	1
	Nickel	11	20
	Zinc	8	-
PAH	Benzo(a)pyrene	0.1 ^c	0.01
	Naphthalene	16	-
	Anthracene	0.01 ^c	-
	Phenanthrene	0.6 ^c	-
	Fluoranthene	1 ^c	-
OCP	Heptachlor	0.01	-
	Aldrin + Dieldrin	-	0.3
	Aldrin	0.001 ^c	-
	Dieldrin	0.01 ^c	-
	DDE	0.03 ^c	-
	Lindane	0.2	10
	Chlordane (trans + cis)	0.03	2
	DDT	0.006	9
	Endrin	0.01	-
	Endosulphan	0.03	20
PCB	Total PCB	-	-
	Aroclor 1221	1 ^c	-
	Aroclor 1232	0.3 ^c	-
	Aroclor 1242	0.3	-
	Aroclor 1248	0.03 ^c	-
	Aroclor 1254	0.01	-
Phenols	Phenol	320	-
TPH	C6-C9	150 ^f	150 ^f
	C10-C36	600 ^f	600 ^f
	C6-C10 – BTEX (F1)	-	-
	C10-C16 – Naphthalene (F2)	-	-

Analyte		NEPC (2013)	
		Fresh Water	Drinking Water
MAH	Benzene	950	1
	Toluene	180 ^c	800
	Ethylbenzene	80 ^c	300
	o-xylene	350	600 (xylene)
	m-xylene	75 ^c	
	p-xylene	200	
	Styrene	-	30
VOC	Chloroethene (vinyl chloride)	100 ^c	0.3
	1,1-Dichloroethene	700 ^c	30
	1,2-Dichloroethene	-	60
	Tetrachloroethene (PCE)	70 ^c	50
	Chloroform	370 ^c	3
	Dichloromethane	4,000 ^c	4
	Carbon Tetrachloride	240 ^c	3
	1,1-Dichloroethane	90 ^c	-
	1,2-Dichloroethane	1,900 ^c	3
	1,1,1-Trichloroethane	270 ^c	-
	1,1,2-Trichloroethylene	330 ^c	-
	1,1,2,2-Tetrachloroethane	400 ^c	-
	1,3-Dichlorobenzene	260	-
	Chlorobenzene	5 ^c	300
	1,4-Dichlorobenzene	60	40
	1,2-Dichlorobenzene	160	1,500
	1,2,4-Trichlorobenzene	85	30 (trichlorobenzene)
	1,2,3-Trichlorobenzene	3	
	1,3,5-Trichlorobenzene	8,000 ^c	

Notes:

- a: ANZECC & ARMCANZ (2000) Trigger Values for a slightly to moderately disturbed system
- b: NHMRC & NRMCC (2011) drinking water criteria (health)
- c: insufficient data for reliable trigger value; interim working value or low reliability value used
- d: based on aesthetics
- e: based on pH 8; refer to ANZECC (2000) for changes to GILs based on pH
- f: Airport (Environment Protection) Regulations (1997), Schedule 2 Water Pollution Accepted Limits: Table 1.03 - Accepted Limits of contamination.

11.6.2 Health Screening Levels – Petroleum Hydrocarbons

The generic HSLs published in NEPC (2013) and CRC CARE (2011) are considered to be appropriate for the assessment of contamination in groundwater at the site. Given the proposed land use the adopted HSL are:

-) **HSL B** – high density residential;
-) **HSL C** – public open space;
-) **HSL-D** – Commercial and Industrial; and
-) **HSL** - Intrusive Maintenance Worker (shallow trench).

In addition, the HSL adopted is predicated on the following inputs prescribed in Table 26.

Table 26: Inputs to the Derivation of HSLs

Variable	Input	Rationale
Potential exposure pathway	Vapour intrusion (inhalation) with contaminated groundwater as the source	The basement level is expected to intercept groundwater, which may be perched.
Soil Type	Sand	The intrusive investigations on site, as shown in the logs in Appendix I, show a subsurface comprised predominantly of clay and sandy clays.
Depth to contamination	2 m to <4 m	Used as an initial screen. The detection of volatile contaminants in the groundwater may trigger a site specific risk assessment given the proposed basement depths.

The adopted groundwater HSL for vapour intrusion, from Table 1A(4), Schedule B1 of NEPC (2013) are shown in the following Table 27.

Table 27: Groundwater Health Screening Levels (HSL) for Vapour Intrusion (µg/L)

Analyte		HSL-B	HSL-C	HSL-D	HSL – Intrusive Maintenance Worker
TRH	C ₆ – C ₁₀ (less BTEX) [F1]	1000	NL	6000	NL
	>C ₁₀ -C ₁₆ (less Naphthalene) [F2]	1000	NL	NL	NL
BTEX	Benzene	800	NL	5000	NL
	Toluene	NL	NL	NL	NL
	Ethylbenzene	NL	NL	NL	NL
	Xylene	NL	NL	NL	NL
PAH	Naphthalene	NL	NL	NL	NL

Note: NL – Not limiting.

11.7 Waste Classification Criteria

The waste classification was conducted with reference to the NSW Environment Protection Authority (EPA) *Waste Classification Guidelines* November 2014 (EPA, 2014).

12. Field Work Results

12.1 Soil

The subsurface profile encountered in the boreholes (BH1 to BH9) is summarised as follows:

-) PAVEMENT: A 30 – 70 mm thick asphaltic concrete surfacing overlying roadbase gravel to depths of between 0.2 m and 0.4 m in BH1 to BH6 as well as BH8 and BH9;
-) FILLING: Sandy filling and/or ripped sandstone in all boreholes to depths of between 0.2 m and 2.3 m;
-) SAND: Predominantly medium dense sand in all boreholes to depths of between 1.5 m and 6.9 m. Dense clayey sand possibly extremely low strength sandstone was encountered in BH6 below a depth of 5.2 m. A 0.5 m thick band of stiff silty clay/clay was encountered in BH9 below a depth of 5.5 m;
-) BEDROCK: In all boreholes, the top of bedrock ranged between depths of 1.5 m (RL 53.1 m) and 6.9 m (RL 40.7 m). The upper rock profile included variably extremely low to low strength sandstone. More consistent medium and high strength sandstone was encountered in all boreholes at depths ranging between 3.9 m (RL 44.6 m) and 8.8 m (RL 38.8 m). Some very low and low strength siltstone and laminite bands were interbedded within the sandstone in BH1, BH2, BH5, BH6, BH8 and BH9; and

The rock discontinuities are predominantly along bedding planes dipping between 0° and 20° below the horizontal with the occasional rock joint dipping between 30° and 70°.

Details of the subsurface conditions encountered in the additional boreholes BH101 to BH122 are provided in the Appendix D and summarised as follows:

-) FILLING (topsoil): dark brown, fine to medium slightly silty sand topsoil in BH101, BH113 and BH121 to depths of between 0.05 m and 0.3 m;
-) FILLING: Sandy filling with fine to medium gravel and trace of rootlets in all boreholes to depths of between 0.2 m and 1.4 m; and
-) SAND: fine to medium yellow sand in all boreholes. Clayey sand was encountered in BH117 and BH118 at depths of 1.4 m and 1.0 m respectively.

Field Observations:

-) Potential ACM fragment was located in BH106 at a depth of 0.0 – 0.2 m, although this find appeared to be localised and not found at any other location. The recovered potential ACM fragment and additional 500ml soil sample was sent to the lab for analysis for ACM and Asbestos Fines and Fibrous Asbestos. Chrysotile asbestos was confirmed in laboratory testing to be present in this material;

-) No signs of contamination located at any of the boreholes, with all PID readings <1 ppm; and
-) Refusal at BH 120 due to limited access to soil.

12.2 Groundwater

Groundwater was measured at a depth of 5.0 m (RL 42.6 m) in BH 6 whilst drilling. No groundwater was observed during auger drilling in the remaining boreholes. The use of water for rotary/washbore drilling and rock coring purposes precluded any further observation of groundwater in the deep boreholes.

The results of the groundwater measurements during the initial field work and following purging within the groundwater monitoring well at BH7 are provided in Table 28.

Table 28: Summary of Groundwater Level Measurements

Borehole	During Initial Field Work		Standpipe Well (Measured on 13 October 2017)		
	Depth (m)	Reduced Level (m AHD)	Date Groundwater Purged	Depth (m)	Reduced Level (m AHD)
BH6	5.0	42.6	-	-	-
BH7	-	-	6 October 2017	5.1	49.5

No signs of contamination concern were noted during groundwater well development or sampling. No phase separated hydrocarbons (PSH) were observed or detected by the interface meter.

13. Laboratory Results

The results of the laboratory analysis undertaken are presented in the following tables in Appendix E:

Table E1: Soil Results;

Table E2: Groundwater Results; and

Table E3: Preliminary Waste Classification.

The full NATA laboratory certificates of analysis together with the chain of custody and sample receipt information are also included in Appendix E.

14. Analysis and Discussion of Results

14.1 Soil

All analyte concentrations for soil samples analysed for BTEX, phenols, OCP, OPP, PCB and light fraction TPH were below laboratory limits of reporting (LOR).

Metal concentrations were either less than the LOR and/or less than the adopted SAC with the exception of:

-) Nickel in BH3/0.1-0.2 at 79 mg/kg and BH110/0-0.2 at 26 mg/kg which exceeded the EIL for commercial industrial (10mg/kg) and residential/open space (9 mg/kg);
-) Copper in BH102/0-0.3 m at 83 mg/kg and BH112/0-0.2 at 110 mg/kg which exceeded the EIL for commercial industrial (80mg/kg) and residential/open space (65 mg/kg);
-) Zinc in BH104/0-0.3 at 250 mg/kg ; BH105/ 0.5-0.7 at 310 mg/kg; BH111/0-0.2 at 390 mg/kg, BH115/0.5-0.7 at 310 mg/kg and BH118/0.5-0.6 at 510 mg/kg which exceeded the EIL residential/open space (240 mg/kg);

A number of exceedances of ESL were noted for B(a)P in samples BH102/0-0.3, BH103/0-0.3, BH105/0.3-0.5, BH105/0.5-0.7, BH106/0-0.2, BH106/0.5-0.7, BH107/0-0.2, BH108/0-0.2, BH109/0-0.2, BH110/0-0.2, BH113/0.5-0.7, BH114/0.4-0.7, BH115/0.5-0.7, BH116/0-0.2.

Exceedances were noted for various contaminants in the roadbase sample taken from BH4/0.07-0.15 (noted as having a strong hydrocarbon odour) and BH8/0.4-0.5. Exceedances included:

- Copper – 100 mg/kg in BH4 exceeded EILs for commercial / industrial (80 mg/kg) and residential/open space (65 mg/kg);
 - TRH C10-C16 – 1700 mg/kg in BH8 exceeded management limits (1000 mg/kg);
 - TRH C16-C34 – 6600 mg/kg in BH4 and 11,000 mg/kg in BH8 exceeded ESLs for urban residential (300 mg/kg) and industrial / commercial (1700 mg/kg) and management limits (10000 mg/kg);
 - TRH F2-naphthalene – 170 mg/kg in BH4 and 1600 in BH8 exceeded NEPM (2013) Table 1A(3) Res A/B Soil HSL for vapour intrusion, Sand (0-1m) (110 mg/kg) and NEPM (2013) Table 1B(6) ESLs for Urban Res, Coarse Soil (120 mg/kg);
 - Benzo(a)pyrene – 57 mg/kg in BH4 exceeded ESLs for urban residential (0.7 mg/kg) and industrial / commercial (1.4 mg/kg); and
 - Carcinogenic PAH – 77 mg/kg in BH4 exceeded HIL B (4 mg/kg), HIL C (3 mg/kg) and HIL D (40 mg/kg), Naphthalene of 150 mg/kg in BH8.
-) The fragment of fibreboard discovered during hand-augering in BH106 was analysed and Chrysotile asbestos was confirmed in laboratory testing to be present in this material;

14.2 Preliminary Waste Classification

14.2.1 Fill

The waste classification of the fill encountered in the bores was conducted in accordance with the six step process as set out in EPA (2014) and summarised in Table 29 below. Roadbase was not included in this classification and will require specific assessment against EPA (2014) and/or the Recovered Aggregate Order 2014, as part of future investigations.

Table 29: Six Step Classification

Step	Classification	Rationale
1. Is it special waste?	No ^b	The fill at the bore locations was not found to contain clinical waste, asbestos (in general) or tyres according to the logs, visual inspection and analytical results.
2. Is it liquid waste?	No	The spoil comprised of soil matrix (i.e. no liquids)
3. Is the waste "pre-classified"?	No	Waste not observed to contain coal tar, batteries, lead paint or dangerous goods containers.
4. Does the waste have hazardous waste characteristics?	No ^a	Waste not observed to / or considered at risk to contain explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances or corrosive substances.
5. Chemical Assessment	Undertaken	Refer Table E3
6. Is the waste putrescible?	No	All observed components of material composed of materials pre-classified as non-putrescible (i.e. soil-based materials). Organic content is assessed to be minor.

Notes:

- a. Given the current site use of hospital and university owned properties within the subject site the possibility exists for the fill in parts of the site to have characteristics described in Step 4. Further testing may be required in this regard.
- b. An asbestos fragment was encountered in fill in BH106. There is a potential for asbestos to be present in filling and surface soils, particularly around and beneath existing buildings. As such, the confirmed waste classification of surface and fill soils, to be undertaken following building demolition, may be governed by the presence of asbestos.

The laboratory test results are presented in Table E2 in Appendix E.

As shown in the attached Table E2, all concentrations for the analysed samples were within the contaminants thresholds (CT1) for General Solid Waste (GSW), with the exception of the PAH (benzo(a)pyrene) concentrations in the following samples:

Sample ID	Sample Depth	Matrix Description
BH4	0.07-0.15	Roadbase
BH110	0.0-0.2	Fill
BH111	0.0-0.2	Fill
BH112	0.0-0.2	Fill
BH113	0.5-0.7	Natural sand
BH114	0.5-0.7	Fill
BH115	0.5-0.7	Natural sand
BH117	1.5-1.6	Natural sand
BH118	0.5-0.6	Fill
BH102	0.0-0.3	Fill
BH103	0.0-0.3	Fill
BH105	0.5-0.7	Natural sand

Sample ID	Sample Depth	Matrix Description
BH106	0.0-0.2	Fill
BH107	0.0-0.2	Fill
BH108	0.7-0.8	Natural sand
BH109	0.0-0.2	Fill

And the lead concentrations in the following samples:

Sample ID	Sample Depth	Matrix Description
BH111	0.0-0.2	Fill
BH112	0.0-0.2	Fill
BH113	0.5-0.7	Natural sand
BH114	0.5-0.7	Fill
BH115	0.5-0.7	Natural sand
BH116	0.0-0.2	Fill
BH117	1.5-1.6	Natural sand
BH118	0.5-0.6	Fill
BH119	0.5-0.6	Fill
BH121	0.0-0.5	Natural sand
BH102	0.0-0.3	Fill
BH103	0.0-0.3	Fill
BH104	0.0-0.3	Fill
BH105	0.3-0.5	Fill
BH105	0.5-0.7	Natural sand
BH106	0.0-0.2	Fill
BH107	0.0-0.2	Fill
BH108	0.0-0.2	Fill
BH108	0.7-0.8	Natural sand
BH109	0.0-0.2	Fill

In addition, the following exceedances were also noted:

-) Nickel in BH3/0.1-0.2 at 79mg/kg, which exceeded CT1 of 40mg/kg;
-) Total PAH in BH4/0.07-0.15 at 634.3mg/kg, which exceeded SCC1 of 200mg/kg; and
-) TPH (C10-36) in BH8/0.4-0.5 at 13160 exceeded SCC1 of 10,000mg/kg.

A selected range of samples were subjected to analysis under TCLP to determine leachable concentrations. The TCLP results indicated that all samples recorded leachable concentrations within GSW leaching criteria (TCLP1) for lead and B(a)P where tested. Results are provided in Table E3, Appendix E.

Based on the results, the filling encountered in the bores at the site is preliminarily classified for off-site disposal purposes as General Solid Waste (non-putrescible), with the exception of the following areas:

-) Roadbase across the site which will require further testing and classification;
-) Fill in the vicinity of BH3/0.1-0.2 where nickel exceedances necessitate further TCLP testing; and
-) Fill in the vicinity of BH 106 where fragments were confirmed to be ACM (chrysotile asbestos).

DP notes that substantial excavation of the site is required to achieve the required levels for the proposed development, such that a minimum of 0.5 m and a maximum of 8 m excavation will be undertaken across the site. As such, the majority of fill identified at the site will be removed as part of the proposed works.

14.2.2 Natural Underlying Material

Further testing of the natural sands and sandstone bedrock described in the test bore logs is required as this has been found to contain PAH in exceedances of CT1 in some locations. At this stage underlying natural soil is pre-classified as General Solid Waste (non putrescible) until further testing determines otherwise.

Additional testing will be required as part of future investigations for confirmation.

14.3 Groundwater

No signs of contamination concern were noted during groundwater well development or sampling from Bore BH7. No PSH were observed or detected by the interface meter.

Concentrations of PAH, TRH/BTEX, VOC, OCP, OPP, PCB, phenols were below detection in the groundwater sample from BH7, with the exception of low level TPH (C6-C10) and TPH (C6-C10 less BTEX) which did not exceed the GIL and chloroform which registered 0.004mg/L (below the GIL of 0.37mg/L). DP notes that a few of the VOCs detection limits were lower than the assessment criteria.

The detected metals concentrations were within the GIL with the exception of copper (0.007 mg/L) in GW7 and the duplicate which was marginally above the GIL of 0.0014mg/L and zinc (0.022 and 0.024mg/K in GW7 and duplicate marginally above the GIL of 0.008mg/L. These results are typical of groundwater conditions in urban settings.

15. Conclusions and Recommendations

Based on the desktop study, field and analytical results presented in this report, it is considered that the site in general has a low potential for contamination with respect to the proposed hospital development.

Elevated concentrations of some contaminants were found in several roadbase samples, and this may be reflective of the quality of the old roadbase used in the area. It is recommended that the roadbase be assessed for re-use or disposal options as part of future investigations.

Minor ecological investigation exceedances were reported (primarily in metals and PAH), and the impact of such should be assessed as part of future investigations, particularly in areas of proposed landscaping.

Given the limited nature of the sampling and testing undertaken, additional, post demolition investigations are recommended for the site, including the following:

-) Further testing on properties located within the site and owned by Health Infrastructure and/or UNSW to determine if there are any hazardous substances which may influence waste classification (explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances or corrosive substances);
-) Pre-demolition hazardous building materials survey of the building structures which comprise the site. It is noted that many of the premises appear to contain some asbestos and other hazardous materials;
-) Post demolition clearance for surface asbestos containing materials (ACM) by an experienced occupational hygienist;
-) Additional soil and groundwater sampling and testing across the site to more thoroughly:
 - Assess the presence of complete source-pathway-receptor linkages under the CSM;
 - Assess the suitability of any fill/natural material to remain under the proposed development. DP notes the majority of the fill at the site will be removed during excavation works to reach final levels;
 - To remain under the proposed development;
 - Determine the need for any soil or groundwater remediation; and
 - Assess the re-use potential and/or waste classification of roadbase, filling and natural soils.

Apart from additional groundwater monitoring bores, it is recommended that the post-demolition investigations be undertaken using test pits rather than bores to enable a more thorough visual assessment of the potential for the existence and spread of asbestos impact in the soils.

16. References

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17. Limitations

Douglas Partners (DP) has prepared this report (or services) for this project bound by High, Magill, Hospital and Botany Streets, Randwick in accordance with DP's proposal dated 18 August 2017 and acceptance received from Health Infrastructure dated 12 September 2017. The work was carried out under the Health Infrastructure Contract HI17299 signed 18 October 2017. This report is provided for the exclusive use of Health Infrastructure for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Asbestos has not been detected by observation or by laboratory analysis, either on the surface of the site, or in filling materials at the test locations sampled and analysed. Building demolition materials, such as concrete, brick, tile [list as appropriate to the field work findings], were, however, located in previous below-ground filling and/or above-ground stockpiles [as appropriate], and these are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos.

Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions or to budget constraints (as discussed above), or to parts of the site being inaccessible and not available for inspection/sampling [where appropriate], or to vegetation preventing visual inspection and reasonable access [where appropriate]. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the (geotechnical / environmental / groundwater) components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

Douglas Partners Pty Ltd

Appendix A

About This Report

Drawings

About this Report

Douglas Partners



Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole 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. They may not be the same at the time of construction as are indicated in the report; and
- 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 first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or 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 a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

POTENTIAL FUTURE
(STAGE 2)
DEVELOPMENT SITE

PROPOSED ACUTE SERVICES BUILDNG,
LEVEL -02 RL 47.0m

POTENTIAL FUTURE (STAGE 2)
REGRADE OF HOSPITAL ROAD
LEVELS RL 50.5 TO RL 54.4m OVER
~150m LENGTH

POTENTIAL FUTURE (STAGE 2)
TUNNEL (RL 47.0m) TO LINK TO
SYDNEY CHILDREN'S HOSPITAL

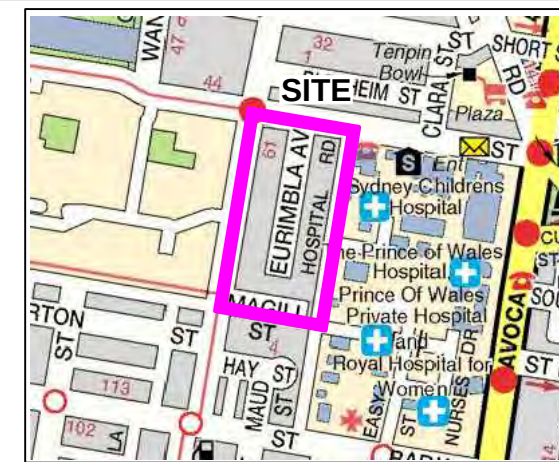
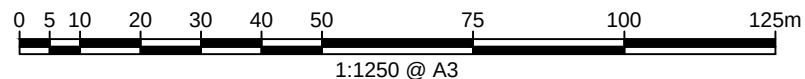
PROPOSED PATIENT BRIDGE

PROPOSED PUBLIC BRIDGE

LEGEND

- ▲ Previous borehole (UNSW Wallace Wurth Building, Proj. 71543, 2010)
- ▲ Previous borehole (UNSW Bioscience Building Proj. 73492, 2013)
- ▲ Previous borehole (Prince of Wales Hospital Proj. 85461.00, 2016)
- ⊕ DP borehole
- ⊕ DP Environmental borehole
- W Groundwater monitoring well
- ① Photo number with direction of view

NOTE:
1: Base image from Nearmap.com
(Dated 6.8.2017)
2: Test locations were located using high resolution
hand held GPS.



Locality Plan



Appendix B

Site Photographs



Photo 1 - Magill Street properties



Photo 2 - Magill Street Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 1
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 3 - Magill Street properties



Photo 4 - Magill Street Properties

	Site Photographs Preliminary Site Investigation Randwick Hospital Redevelopment	PROJECT: 72505.12
		PLATE No: 2
		REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 5 - Magill Street properties



Photo 6 - Corner Magill Street & Botany Street

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 3
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 7 - Botany Street properties



Photo 8 - Laneway from Botany St to Eurimbla Ave

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 4
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 9 - Botany Street properties



Photo 10 - Botany Street properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 5
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 11 - Botany Street properties



Photo 12 - Botany Street properties



Site Photographs

Preliminary Site Investigation

Randwick Hospital Redevelopment

CLIENT: Health Infrastructure

PROJECT: 72505.12

PLATE No: 6

REV: A

DATE: 10-Oct-17



Photo 13 - Botany Street properties



Photo 14 - Botany Street properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 7
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 15 - Botany Street properties



Photo 16 - Botany Street properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 8
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 17 - Corner of Botany and High Street - commerical property



Photo 18 - Corner of Botany and High Street - commerical property

 Douglas Partners Geotechnics Environment Groundwater	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 9
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 19 - Corner of Botany and High Streets



Photo 20 - High Street footpath



Site Photographs

Preliminary Site Investigation

Randwick Hospital Redevelopment

CLIENT: Health Infrastructure

PROJECT: 72505.12

PLATE No: 10

REV: A

DATE: 10-Oct-17



Photo 21 - Corner of Eurimbla Avenue and High Streets commercial



Photo 22 - Eurimbla Avenue Property - commercial

 Douglas Partners Geotechnics Environment Groundwater	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 11
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 23 - Eurimbla Avenue Properties



Photo 24 - Eurimbla Avenue Properties

 Douglas Partners Geotechnics Environment Groundwater	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 12
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photos 25 and 26
Eurimbla Avenue Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 13
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 27 - Eurimbla Avenue Properties



Photo 28 - Eurimbla Avenue Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 14
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 29 - Eurimbla Avenue Properties



Photo 30 - Eurimbla Avenue Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 15
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 31 - Eurimbla Avenue Properties



Photo 32 - Eurimbla Avenue Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 16
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 33 - Eurimbla Avenue Properties - domestic paints and building materials



Photo 34 - Eurimbla Avenue Properties

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 17
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 35 - Eurimbla Avenue Properties - domestic paints and building materials



Photo 36 - Carpark at rear of property on corner of High Street and Eurimbla Avenue

	Site Photographs	PROJECT: 72505.12
		PLATE No: 18
	Preliminary Site Investigation	REV: A
	Randwick Hospital Redevelopment	DATE: 10-Oct-17
	CLIENT: Health Infrastructure	



Photo 37 - Hospital Road



Photo 38 - Hospital Road (rear of properties on Eurimbla Avenue)

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 19
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17



Photo 39 - Hospital Road (rear of properties on Magill Street)



Photo 40 - Hospital Road (rear of properties on Magill Street)

	Site Photographs	PROJECT: 72505.12
	Preliminary Site Investigation	PLATE No: 20
	Randwick Hospital Redevelopment	REV: A
	CLIENT: Health Infrastructure	DATE: 10-Oct-17

Appendix C

Site History Search Results

Lotsearch



Environmental Risk and Planning Report

High Street, Randwick, NSW 2031

Report Date: 11 Sep 2017 14:37:07

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.

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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
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

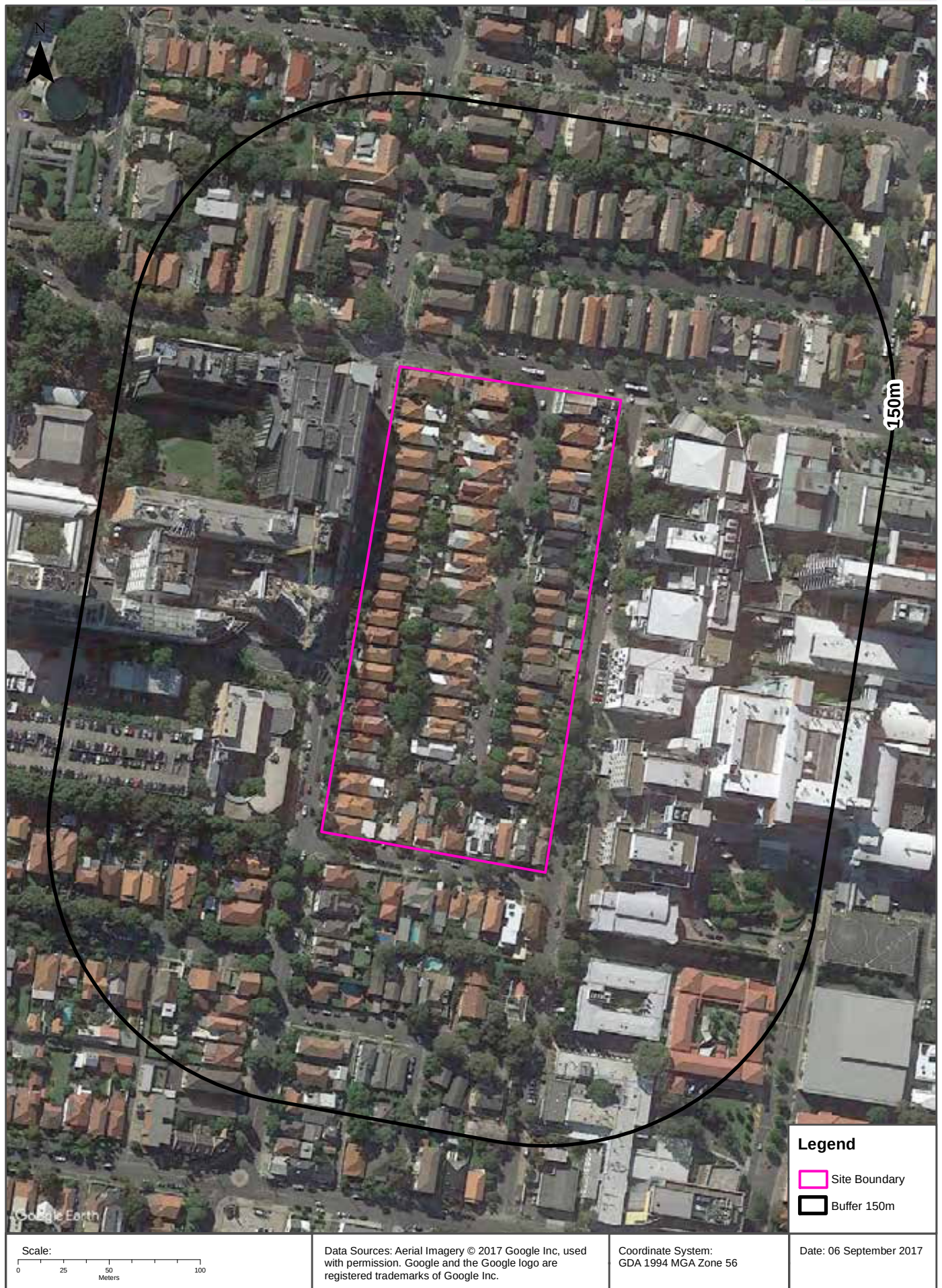
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	Department Finance, Services & Innovation	11/09/2017	11/09/2017	Daily	-	-	-	-
Topographic Data	Department Finance, Services & Innovation	10/04/2015	01/04/2015	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	28/08/2017	10/08/2017	Monthly	1000	0	0	2
Contaminated Land: Records of Notice	Environment Protection Authority	28/08/2017	28/08/2017	Monthly	1000	0	0	1
Former Gasworks	Environment Protection Authority	28/08/2017	16/01/2017	Monthly	1000	0	0	0
National Waste Management Site Database	Geoscience Australia	27/06/2017	07/03/2017	Quarterly	1000	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	28/08/2017	28/08/2017	Monthly	2000	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	22/06/2017	22/06/2017	Quarterly	1000	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	28/08/2017	28/08/2017	Monthly	1000	0	1	1
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority	28/08/2017	28/08/2017	Monthly	1000	0	2	2
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	28/08/2017	28/08/2017	Monthly	1000	0	0	0
UPSS Environmentally Sensitive Zones	Department of Environment, Climate Change and Water (NSW)	14/04/2015	12/01/2010	As required	1000	1	1	1
UBD Business to Business Directory 1991 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business to Business Directory 1991 (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business to Business Directory 1986 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	1	1
UBD Business to Business Directory 1986 (Road & Area Matches)	Hardie Grant			Not required	150	-	1	1
UBD Business Directory 1982 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	4
UBD Business Directory 1982 (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business Directory 1978 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	7
UBD Business Directory 1978 (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business Directory 1975 (Premise & Intersection Matches)	Hardie Grant			Not required	150	1	3	3
UBD Business Directory 1975 (Road & Area Matches)	Hardie Grant			Not required	150	-	2	2
UBD Business Directory 1970 (Premise & Intersection Matches)	Hardie Grant			Not required	150	3	6	7
UBD Business Directory 1970 (Road & Area Matches)	Hardie Grant			Not required	150	-	2	2
UBD Business Directory 1965 (Premise & Intersection Matches)	Hardie Grant			Not required	150	3	7	9
UBD Business Directory 1965 (Road & Area Matches)	Hardie Grant			Not required	150	-	2	2
UBD Business Directory 1950 (Premise & Intersection Matches)	Hardie Grant			Not required	150	4	11	12
UBD Business Directory 1950 (Road & Area Matches)	Hardie Grant			Not required	150	-	5	8
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	1000	0	0	182
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	1000	-	2	34
Points of Interest	Department Finance, Services & Innovation	01/02/2017	01/02/2017	Annually	1000	0	3	72

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Tanks (Areas)	Department Finance, Services & Innovation	01/02/2017	01/02/2017	Annually	1000	0	0	0
Tanks (Points)	Department Finance, Services & Innovation	01/02/2017	01/02/2017	Annually	1000	0	0	2
Major Easements	Department Finance, Services & Innovation	01/02/2017	01/02/2017	As required	1000	0	0	0
State Forest	Department Finance, Services & Innovation	01/02/2017	29/06/2016	As required	1000	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment and Heritage	01/02/2017	31/12/2016	Annually	1000	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000	1	1	1
Groundwater Boreholes	NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation; Commonwealth of Australia (Bureau of Meteorology) 2015	21/03/2016	01/12/2015	Annually	2000	0	0	383
Geological Units 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	1000	1	-	2
Geological Structures 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	1000	0	-	1
Naturally Occurring Asbestos Potential	NSW Department of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000	0	0	0
Soil Landscapes	NSW Office of Environment and Heritage	12/08/2014		None planned	1000	2	-	4
Standard Local Environmental Plan Acid Sulfate Soils	NSW Planning and Environment	07/10/2016	07/10/2016	As required	500	0	-	-
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Office of Environment and Heritage	12/05/2017	01/01/2002	None planned	1000	-	-	-
Mining Subsidence Districts	Department Finance, Services & Innovation	13/07/2017	01/07/2017	As required	1000	0	0	0
SEPP 14 - Coastal Wetlands	NSW Planning and Environment	17/12/2015	24/10/2008	Annually	1000	0	0	0
SEPP 26 - Littoral Rainforest	NSW Planning and Environment	17/12/2015	05/02/1988	Annually	1000	0	0	0
SEPP 71 - Coastal Protection	NSW Planning and Environment	17/12/2015	01/08/2003	Annually	1000	0	0	0
SEPP Major Developments 2005	NSW Planning and Environment	09/03/2013	25/05/2005	Under Review	1000	0	0	0
SEPP Strategic Land Use Areas	NSW Planning and Environment	01/08/2017	28/01/2014	Annually	1000	0	0	0
Local Environmental Plan - Land Zoning	NSW Planning and Environment	30/06/2017	23/06/2017	Quarterly	1000	2	5	68
Local Environmental Plan - Minimum Subdivision Lot Size	NSW Planning and Environment	30/06/2017	23/06/2017	Quarterly	0	1	-	-
Local Environmental Plan - Height of Building	NSW Planning and Environment	30/06/2017	23/06/2017	Quarterly	0	2	-	-
Local Environmental Plan - Floor Space Ratio	NSW Planning and Environment	30/06/2017	23/06/2017	Quarterly	0	1	-	-
Local Environmental Plan - Land Application	NSW Planning and Environment	30/06/2017	13/04/2017	Quarterly	0	1	-	-
Local Environmental Plan - Land Reservation Acquisition	NSW Planning and Environment	30/06/2017	23/06/2017	Quarterly	0	0	-	-
State Heritage Items	NSW Office of Environment and Heritage	01/08/2017	27/05/2016	Quarterly	1000	0	0	11
Local Heritage Items	NSW Planning and Environment	30/06/2017	16/06/2017	Monthly	1000	0	2	157
Bush Fire Prone Land	NSW Rural Fire Service	01/08/2017	09/06/2017	Quarterly	1000	0	0	0
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment and Heritage	01/03/2017	16/12/2016	As required	1000	1	1	1
RAMSAR Wetlands	Commonwealth of Australia Department of the Environment	08/10/2014	24/06/2011	As required	1000	0	0	0
ATLAS of NSW Wildlife	NSW Office of Environment and Heritage	11/09/2017	11/09/2017	Daily	10000	-	-	-

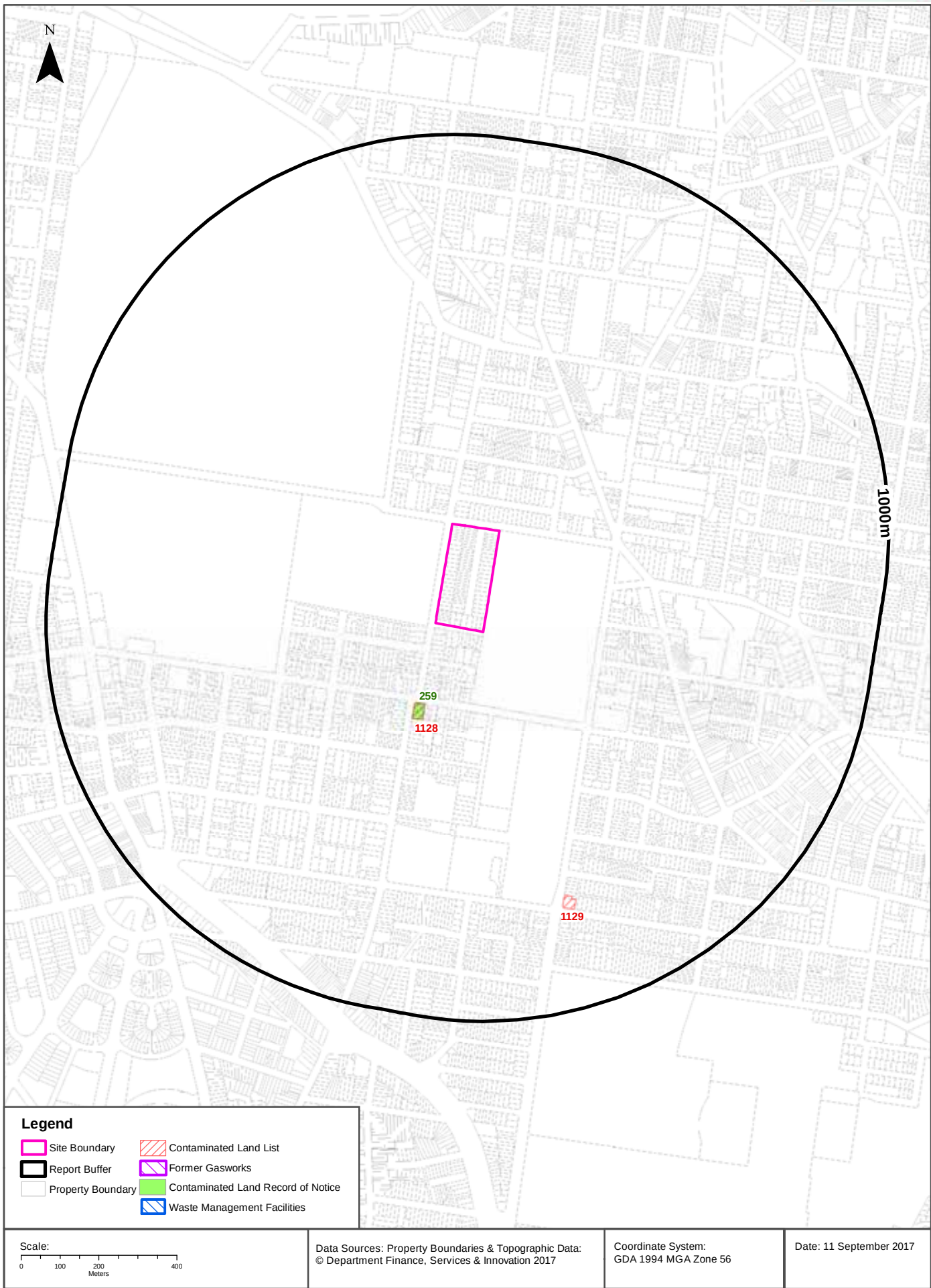
Aerial Imagery 2016

High Street, Randwick, NSW 2031



Contaminated Land & Waste Management Facilities

High Street, Randwick, NSW 2031



Contaminated Land & Waste Management Facilities

High Street, Randwick, NSW 2031

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 (m)	Direction
1128	7-Eleven Service Station	126-130 Barker Street	Randwick	Service Station	N/A - Site no longer on EPA Contaminated Land List	Previous EPA List	Premise Match	210m	South
1129	Metro Petroleum	345 Avoca Street	Randwick	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	707m	South

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

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land & Waste Management Facilities

High Street, Randwick, NSW 2031

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
259	7-Eleven Service Station	126-130 Barker Street	Randwick	8 current and 3 former	3257	Premise Match	210m	South

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

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 (m)	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Australian Government Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

EPA PFAS Investigation Program

High Street, Randwick, NSW 2031

EPA PFAS Investigation Program

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

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

EPA PFAS Investigation Program: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

EPA Other Sites with Contamination Issues

High Street, Randwick, NSW 2031

EPA Other Sites with Contamination Issues

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

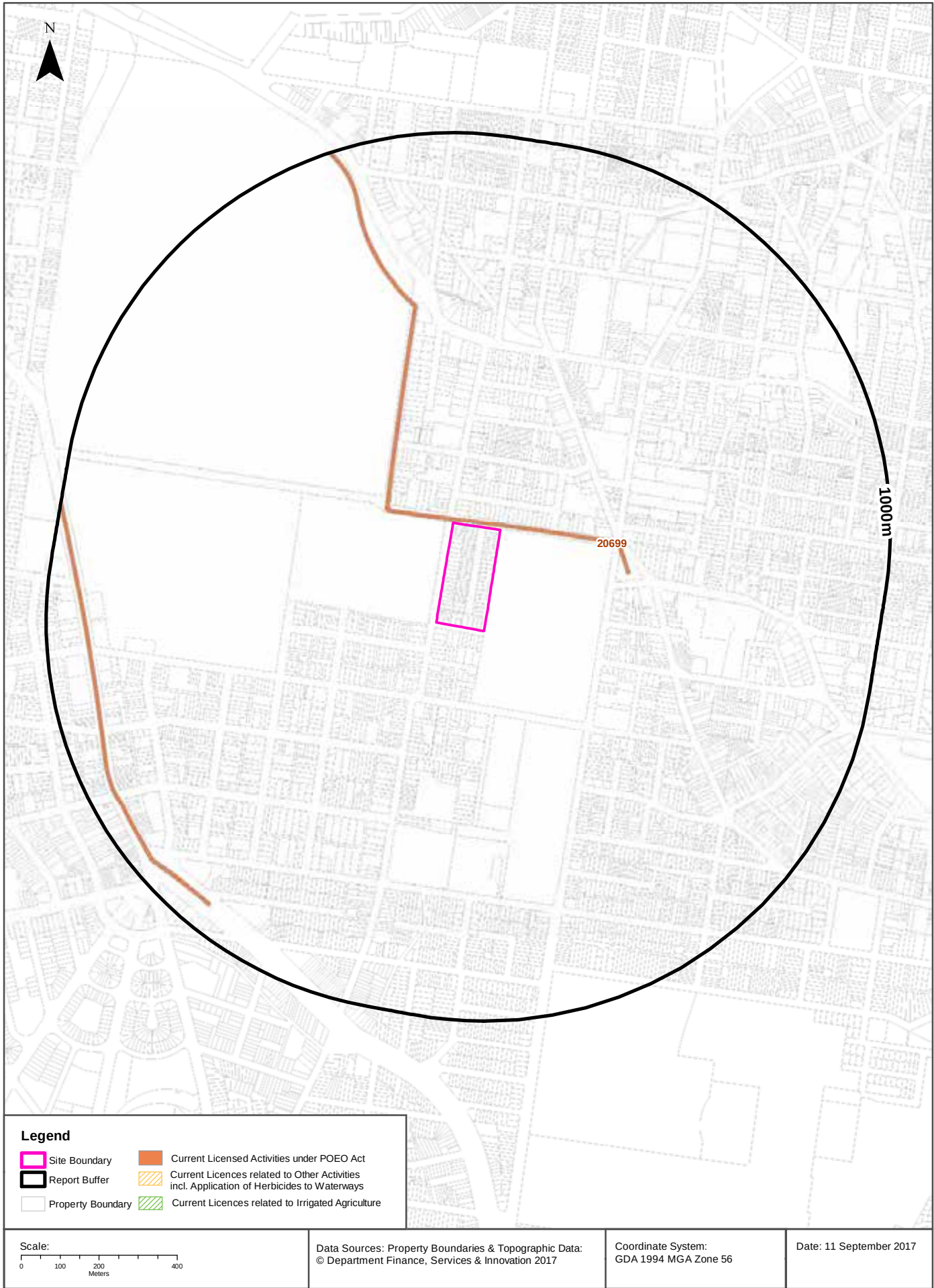
- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill

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
High Street, Randwick, NSW 2031



EPA Activities

High Street, Randwick, NSW 2031

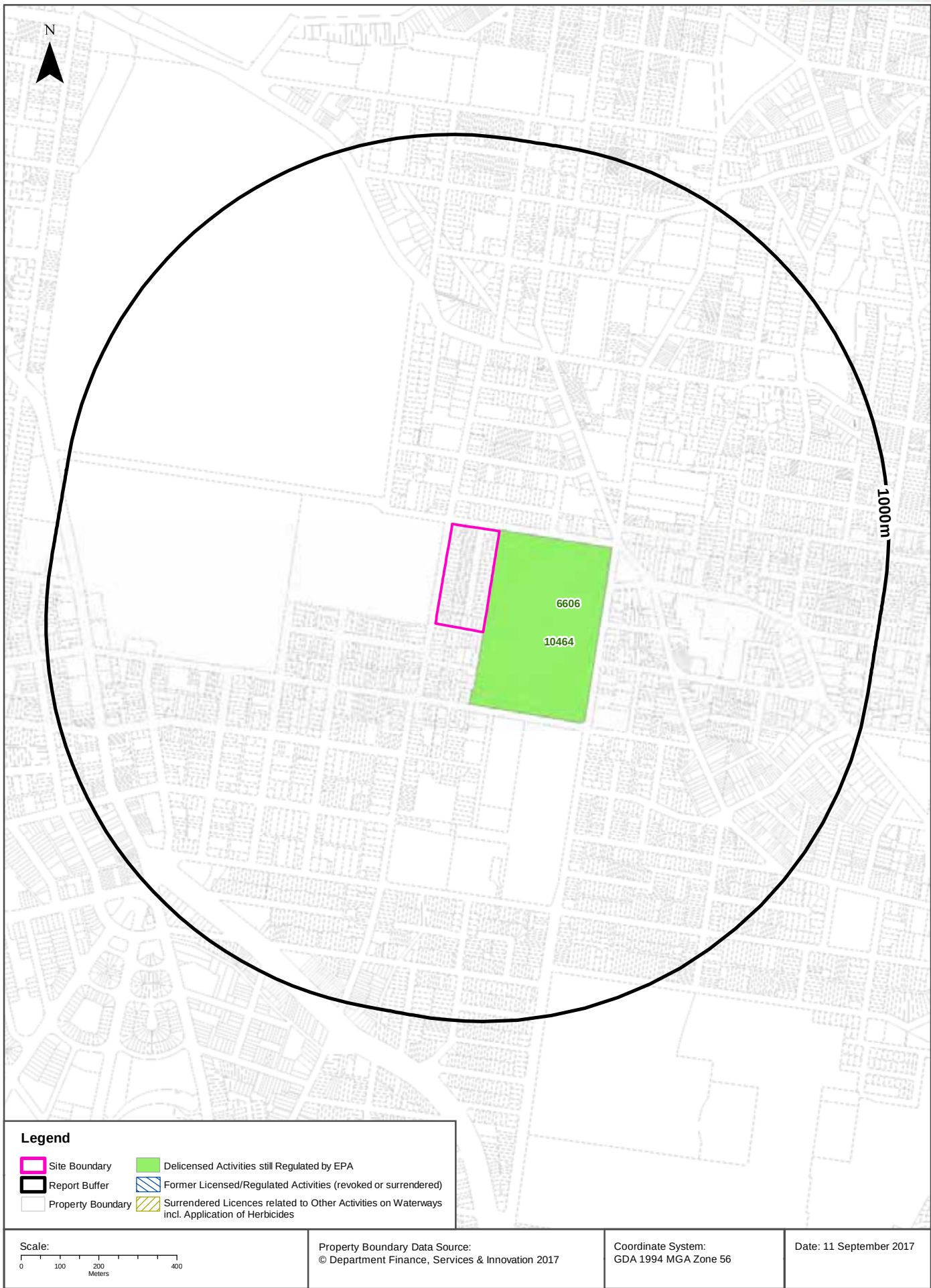
Licensed Activities under the POEO Act 1997

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
20699	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	CBD and South East Light Rail	CBD and South East Light Rail Alignment and Ancillary Sites	SYDNEY	Land-based extractive activity	3	4m	North

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities
High Street, Randwick, NSW 2031



EPA Activities

High Street, Randwick, NSW 2031

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
6606	SOUTH EASTERN SYDNEY AND ILLAWARRA AREA HEALTH SERVICE	PRINCE OF WALES HOSPITAL	BARKER STREET	RANDWICK	Hazardous, Industrial or Group A Waste Generation or Storage	1	0m	South East
10464	P.O.W. HOSPITAL PTY LIMITED	PRINCE OF WALES PRIVATE HOSPITAL	Barker Street	RANDWICK	Hazardous, Industrial or Group A Waste Generation or Storage	1	0m	South East

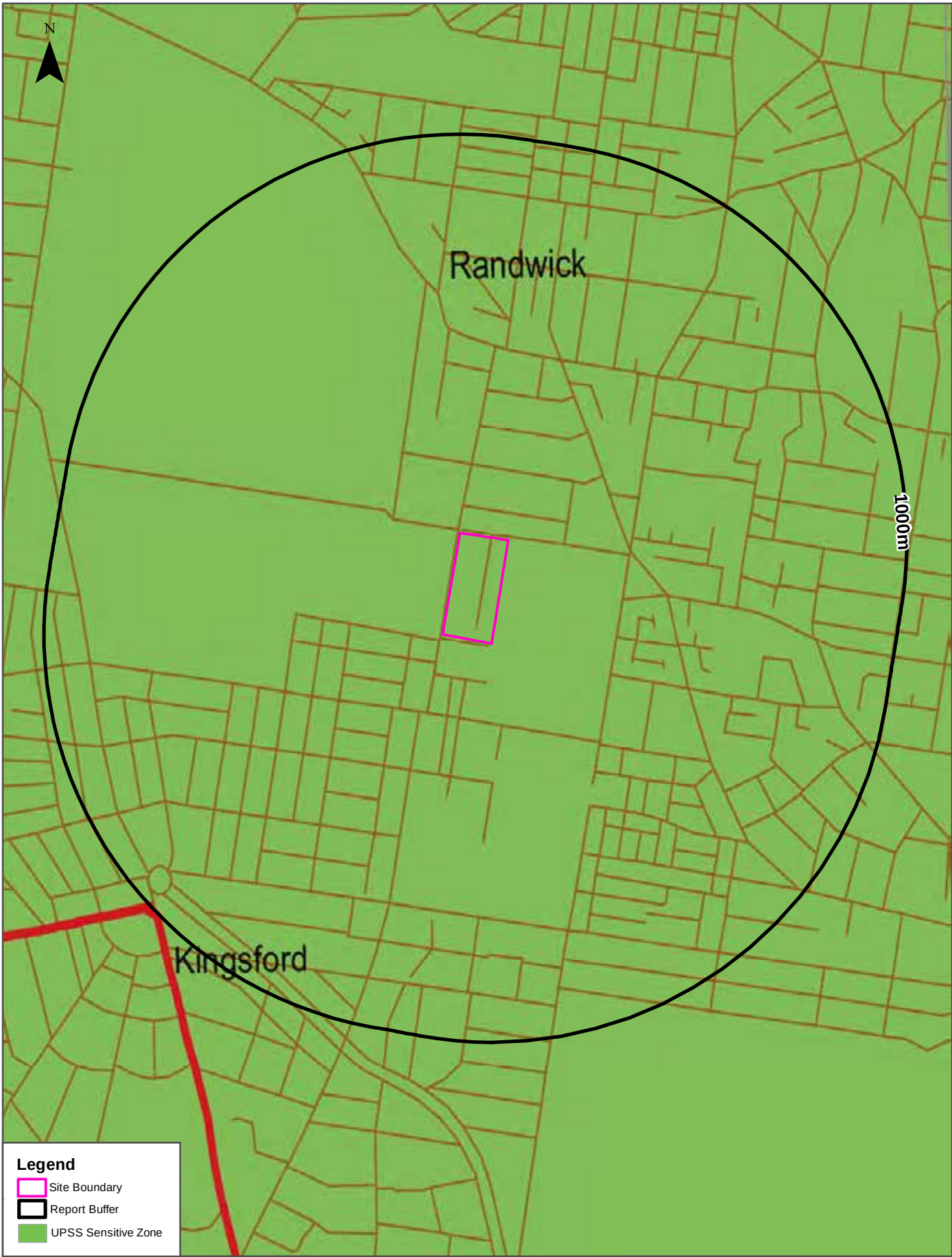
Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

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
N/A	No records in buffer							

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



Historical Business Directories

High Street, Randwick, NSW 2031

1991 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1991 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Records Road or Area Matches

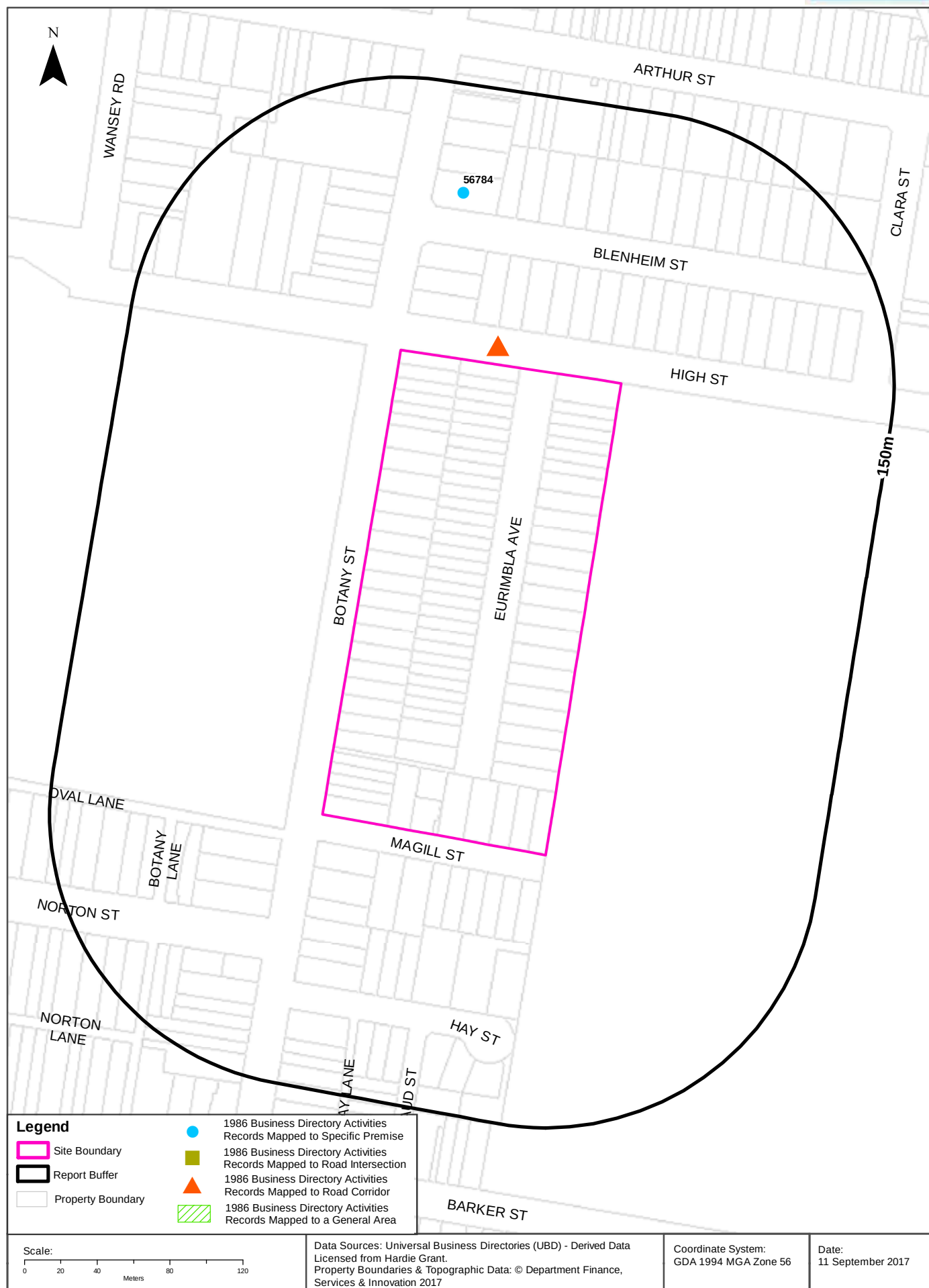
Records from the 1991 UBD Business to Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1986 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1986 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1986 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
MEDICAL PRACTITIONERS.	O'Keefe, 3. O. F., 39 Botany Rd., Randwick	56784	Premise Match	91m	North

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1986 Business to Business Directory Records Road or Area Matches

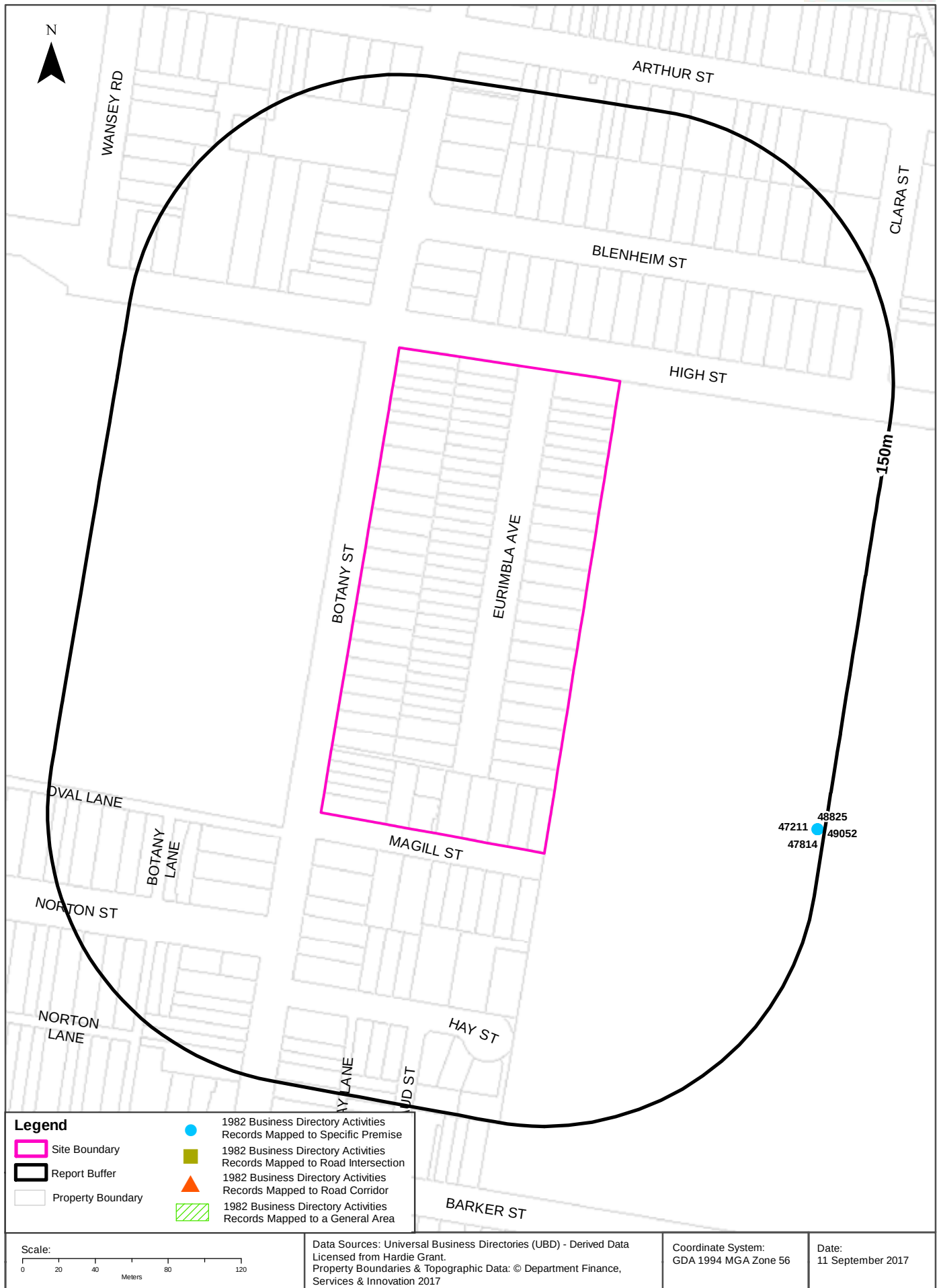
Records from the 1986 UBD Business to Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
MEDICAL PRACTITIONERS.	Donnellan, M. J., 65 High St., Randwick.	54581	Road Match	0m

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1982 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1982 Business Directory Records Premise or Road Intersection Matches

Records from the 1982 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
MEDICAL PRACTITIONERS. (M2020)	Beveridge, J., Prince of Wales Hospital. Randwick. 2031.	47211	Premise Match	146m	South East
MEDICAL PRACTITIONERS. (M2020)	Davis, A. E., Prince of Wales Hospital, Randwick. 2031.	47814	Premise Match	146m	South East
MEDICAL PRACTITIONERS. (M2020)	Kern, J. B., Prince of Wales Hospital, Randwick. 2031.	48825	Premise Match	146m	South East
MEDICAL PRACTITIONERS. (M2020)	Lethlean, A. K., Prince of Wales Hospital, Randwick. 2031.	49052	Premise Match	146m	South East

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1982 Business Directory Records Road or Area Matches

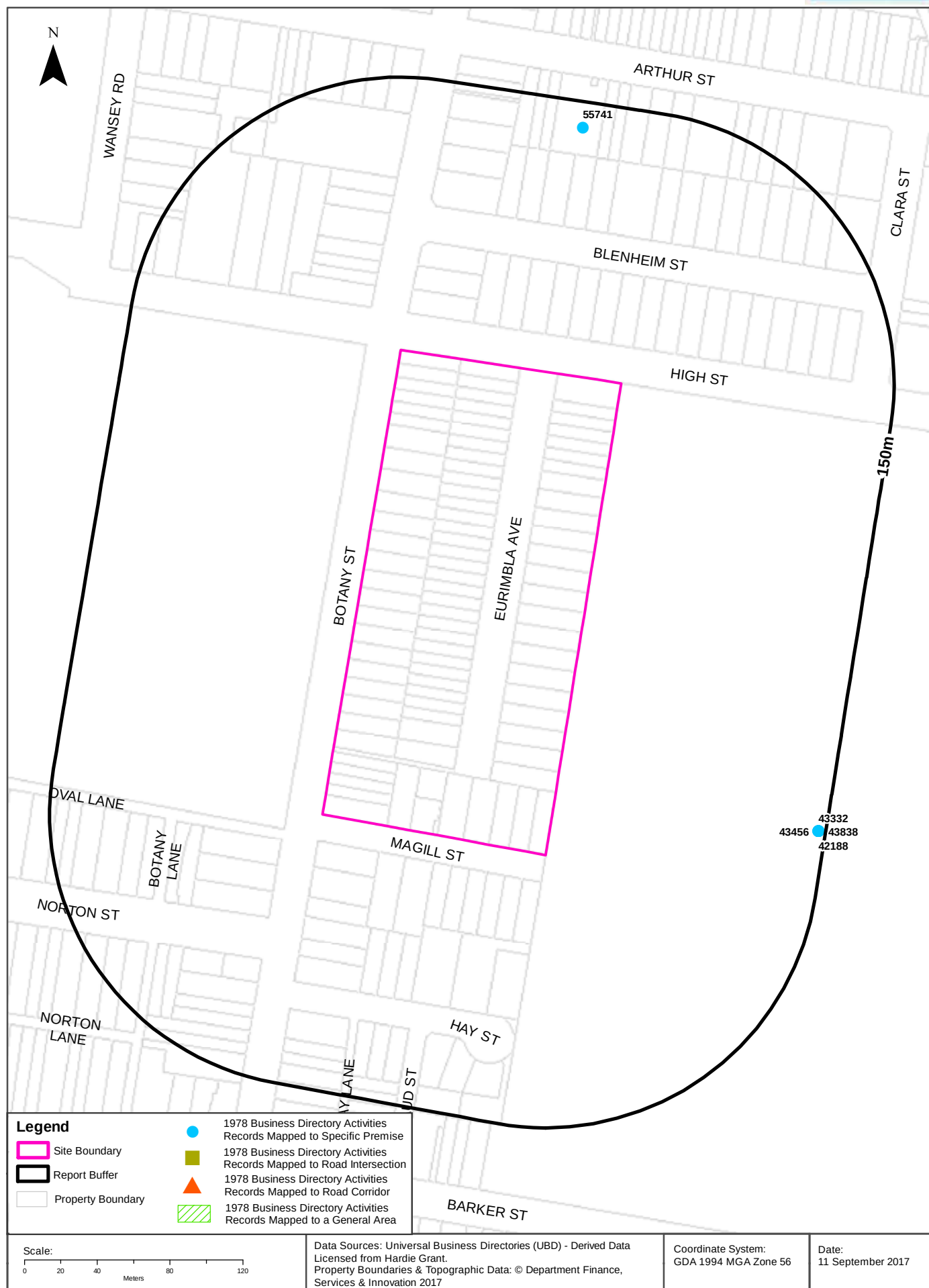
Records from the 1982 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

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

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1978 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1978 Business Directory Records Premise or Road Intersection Matches

Records from the 1978 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
PAINTERS, PAPERHANGERS &/OR DECORATORS.	Clark, P.J., 34 Arthur St., Edgecliff.	55741	Premise Match	136m	North
MEDICAL PRACTITIONERS.	Beveridge, J., Prince of Wales Hospital, Randwick.	42188	Premise Match	146m	South East
MEDICAL PRACTITIONERS.	Davis. A.E., Prince of Wales Hospital, Randwick.	42599	Premise Match	146m	South East
MEDICAL PRACTITIONERS.	Kern, J.B., Prince of Wales Hospital, Randwick.	43332	Premise Match	146m	South East
MEDICAL PRACTITIONERS.	Lethlean, A.K., Prince of Wales Hospital. Randwick	43456	Premise Match	146m	South East
MEDICAL PRACTITIONERS.	O'Gorman, H.D.W., Prince of Wales Hospital, Randwick.	43849	Premise Match	146m	South East
MEDICAL PRACTITIONERS.	Owen. E.R.. Prince of Wales Hospital, Randwick.	43838	Premise Match	146m	South East

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1978 Business Directory Records Road or Area Matches

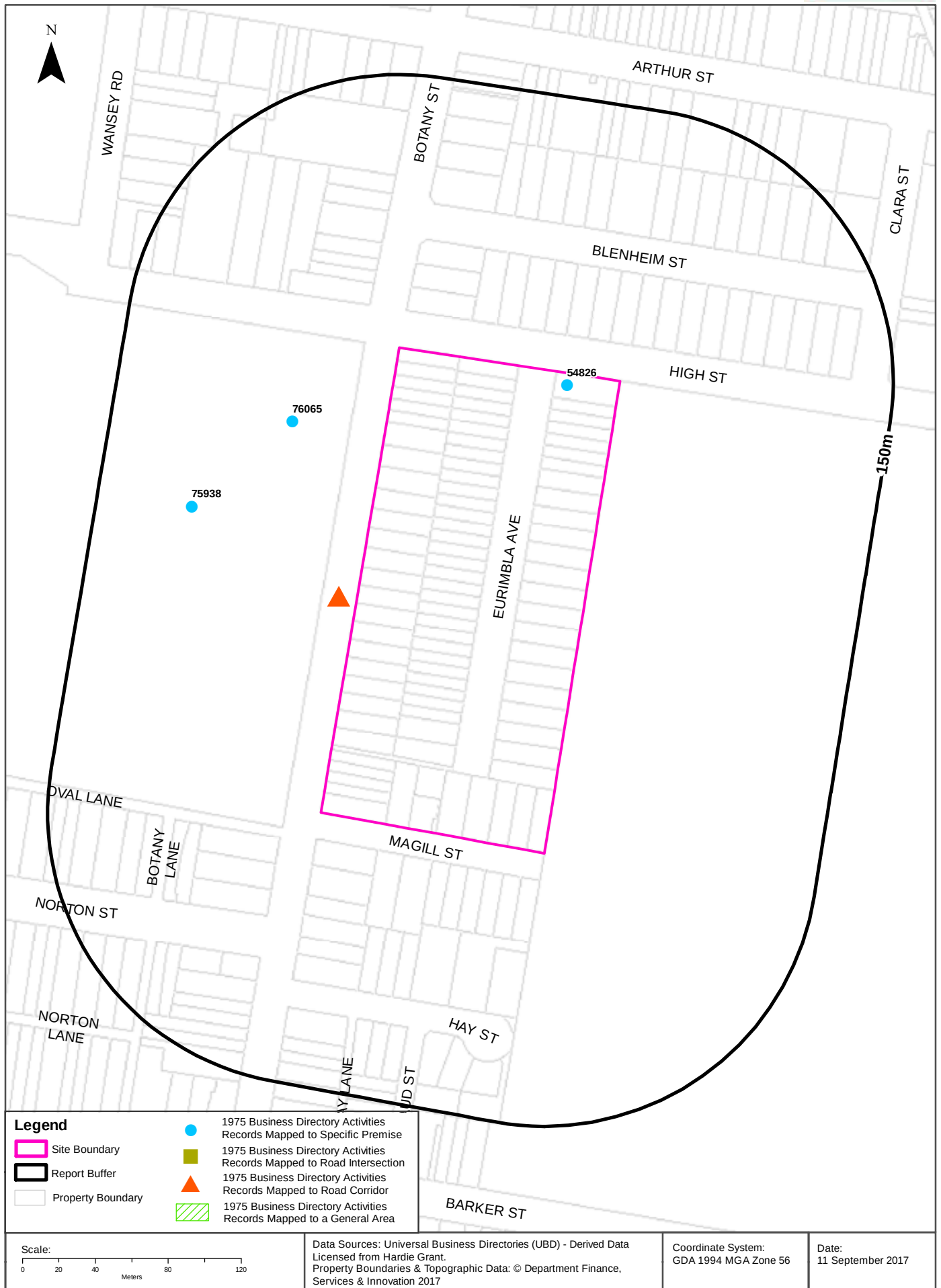
Records from the 1978 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

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

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1975 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1975 Business Directory Records Premise or Road Intersection Matches

Records from the 1975 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
MIXED BUSINESSES.	Eurimbah General Store, 3 Eurimbah Ave., Randwick.	54826	Premise Match	0m	Onsite
SCHOOLS., SPECIAL	Wallace Worth School Medicine, The, High St., Randwick.	76065	Premise Match	51m	North West
SCHOOLS, COLLEGES., TECHNICAL	School of Biological Sciences, High St., Randwick	75938	Premise Match	98m	West

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1975 Business Directory Records Road or Area Matches

Records from the 1975 UBD Business Directory, 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:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
MOTOR GARAGES &/OR ENGINEERS.	Varsity Auto Centre, Botany St., Randwick.	59716	Road Match	0m
MOTOR SPARE PARTS DEALERS- RETAIL	Varsity Auto Centre, Botany St., Randwick.	62360	Road Match	0m

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1970 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1970 Business Directory Records Premise or Road Intersection Matches

Records from the 1970 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
BUTCHERS-RETAIL (B860)	Darnley, Les, 1 Eurimbla Ave., Randwick	273453	Premise Match	0m	Onsite
MIXED BUSINESSES (M408)	Eurimbah General Store,3 Eurimbah Ave.,Randwick	332577	Premise Match	0m	Onsite
CARRIERS & CARTAGE CONTRACTORS (C150)	Joyce, J., 8 Magill St., Randwick	278145	Premise Match	0m	Onsite
SCHOOLS-SPECIAL (S152)	Wallace Worth School of Medicine (The),Cnr. High & BotanySts.,Randwick	359762	Premise Match	46m	North West
DENTAL LABS.& TECHNICIANS (D120)	Wilson,R.,32 Norton St.,Randwick	288274	Premise Match	91m	South West
SCHOOLS/COLLEGES-TECHNICAL(S146)	School of Biological Sciences,Cnr. High & Botany Sts.,Randwick	359601	Premise Match	91m	West
MEDICAL PRACTITIONERS (M216)	Rundle,F. F.,University Hospital,Randwick	328116	Premise Match	103m	East

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1970 Business Directory Records Road or Area Matches

Records from the 1970 UBD Business Directory, 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:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Varsity Auto Centre,Botany St.,Randwick	342055	Road Match	0m
MOTOR GARAGES & ENGINEERS(M6S6)	Varsity Auto Centre,Botany St.RANDWICK	338813	Road Match	0m

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1965 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1965 Business Directory Records Premise or Road Intersection Matches

Records from the 1965 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
Butchers - Retail	Darnley, Les, , 1 Eurimbla Ave., Randwick	58151	Premise Match	0m	Onsite
Mixed Businesses	Eurimbah General Store, 3 Eurimbah Ave., Randwick	117215	Premise Match	0m	Onsite
Carriers & Cartage Contractors	Joyce, J., 8 Magill St., Randwick	63093	Premise Match	0m	Onsite
Schools - Special	Wallace Worth School of Medicine (The), Cnr. High & Botany Sts., Randwick	143138	Premise Match	35m	North West
Schools/Colleges - Technical	School of Biological Sciences, , Cnr, High & Botany Sts., Randwick	143030	Premise Match	67m	West
DENTAL LABS. & TECHNICIANS	Wilson, R., 32 Norton St., Randwick	73048	Premise Match	84m	South West
Medical Practitioners	Rundle, F. P., University Hospital, Randwick	112556	Premise Match	89m	East
Hospitals - Public	Prince of Wales R.G. Hospital, Avoca St., Randwick	101121	Premise Match	146m	South East
Hospitals - Public	Randwick Chest Hospital, 260 Avoca St., Randwick	101124	Premise Match	146m	South East

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1965 Business Directory Records Road or Area Matches

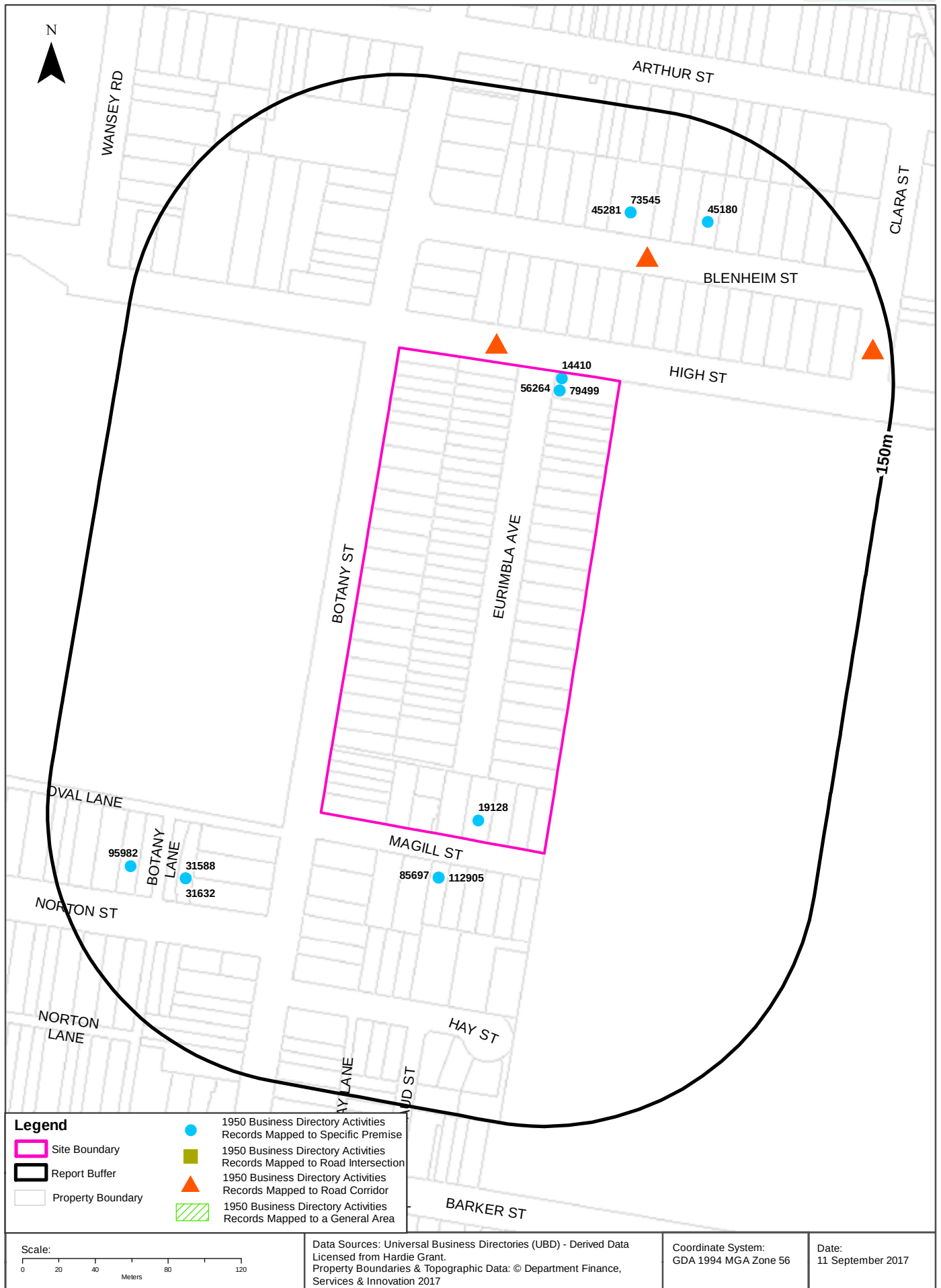
Records from the 1965 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
Piano Tuners &/or Repairers	Continental Piano Co., 22 High St., Randwick	133049	Road Match	0m
Ambulances	Eastern Suburbs Ambulance, High St., Randwick	46106	Road Match	0m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Historical Business Directory Records

High Street, Randwick, NSW 2031



Historical Business Directories

High Street, Randwick, NSW 2031

1950 Business Directory Records Premise or Road Intersection Matches

Records from the 1950 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
GROCERS-RETAIL	Abehouse, A., 3 Eurimbla Ave., Randwick	56264	Premise Match	0m	Onsite
MIXED BUSINESSES & GENERAL STORES	Burke, T., 3 Eurimbla Ave., Randwick	79499	Premise Match	0m	Onsite
CARRIERS & CARTAGE CONTRACTORS	Joyce, J., 8 Magill St., Randwick	19128	Premise Match	0m	Onsite
BUTCHERS-RETAIL	Thomas, W., 1 Eurimbla Rd., Randwick	14410	Premise Match	0m	Onsite
MOTOR RADIATOR SPECIALISTS & REPAIRERS	Little, J. B., 5 Magill St., Randwick	85697	Premise Match	24m	South
WELDERS-ELECTRIC &/OR OXY	Little, J. B., 5 Magill St., Randwick	112905	Premise Match	24m	South
DENTAL LABORATORIES & TECHNICIANS	Wilson, R., 34 Norton St., Randwick	31588	Premise Match	83m	South West
DENTAL SUPPLIES & EQUIPMENT	Wilson, R., 34 Norton St., Randwick	31632	Premise Match	83m	South West
FLATS, RESIDENTIALS, Etc.	Marlborough, 11 Blenheim St., Randwick	45281	Premise Match	92m	North East
MEDICAL PRACTITIONERS	OâBrien, J. P. E., 11 Blenheim St., Randwick	73545	Premise Match	92m	North East
FLATS, RESIDENTIALS, Etc.	Hollywood Flats, 19 Blenheim St., Randwick	45180	Premise Match	100m	North East
PUBLIC ADDRESS SYSTEM MANUFACTURERS &/OR DISTRIBUTORS	Head, H. R. 28 Norton St., Randwick	95982	Premise Match	109m	South West

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Records Road or Area Matches

Records from the 1950 UBD Business Directory, 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:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
FLATS, RESIDENTIALS, Etc.	Deblacam, High St., Randwick	45075	Road Match	0m
ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Donald, A. and Son, 22 High St., Randwick	40635	Road Match	0m
AMBULANCES	Eastern Suburbs Ambulance, High St., Randwick	1715	Road Match	0m
FLATS, RESIDENTIALS, Etc.	Lisrouan, High St., Randwick	45244	Road Match	0m
BOOT & SHOE REPAIRERS	Moffatt, J., Blenheim St., Randwick	10463	Road Match	60m
FLATS, RESIDENTIALS, Etc.	Imbros Tenedos, Clara St., Randwick	45187	Road Match	127m
FLATS, RESIDENTIALS, Etc.	Lisrouan, Clara St., Randwick	45243	Road Match	127m
FLATS, RESIDENTIALS, Etc.	Mudros Lemnos, Clara St., Randwick	45314	Road Match	127m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

High Street, Randwick, NSW 2031

Dry Cleaners, Motor Garages & Service Stations 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:

Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Feature Point	Direction
MOTOR GARAGES & SERVICE STATIONS.	Weidman Motors Pty. Ltd., 129 Botany St., Randwick.	65693	1986	Premise Match	181m	South
Motor Garages & Service Stations	Weidmann Motors Pty Ltd 129 Botany St., Randwick	53989	1991	Premise Match	184m	South
MOTOR GARAGES &/OR ENGINEERS	Gillies, I. D., 15 Arthur St., Randwick	83802	1950	Premise Match	196m	North
DRY CLEANERS & PRESSERS.	Westley Dry Cleaner, 154 Barker St., Randwick.	25565	1986	Premise Match	212m	South
DRY CLEANERS & PRESSERS. (D8500)	Westley Dry Cleaner, 154 Barker St., Randwick. 2031.	24092	1982	Premise Match	212m	South
DRY CLEANERS, PRESSERS &/OR DYERS	Normays Dry Cleaner, 154 Barker St., Randwick.	20894	1978	Premise Match	212m	South
DRY CLEANERS,PRESSERS/DYERS (D710)	Normays Dry Cleaner,154 Barker St.,Randwick	292425	1970	Premise Match	212m	South
DRY CLEANERS, PRESSERS & DYERS	Normays Dry Cleaners, 152 Barker St., Randwick	35565	1950	Premise Match	212m	South
DRY CLEANERS, PRESSERS&/OR DYERS.	Normay's Dry Cleaner, 154 Barker St., Randwick.	24246	1975	Premise Match	218m	South
Dry Cleaners, Pressers/Dyers	Havana Dry Cleaning, 66 Belmore Rd., Randwick	76186	1965	Premise Match	298m	North East
DRY CLEANERS & PRESSERS.	Randwick Dry Cleaners, 125 Belmore Rd., Randwick.	25488	1986	Premise Match	299m	North East
DRY CLEANERS & PRESSERS.	Weldon Dry Cleaners, 103 Belmore Rd., Randwick.	25561	1986	Premise Match	299m	North East
DRY CLEANERS & PRESSERS. (D8500)	Randwick Dry Cleaners, 125 Belmore Rd., Randwick. 2031.	24020	1982	Premise Match	299m	North East
DRY CLEANERS & PRESSERS. (D8500)	Weldon Dry Cleaners, 103 Belmore Rd., Randwick. 2031.	24090	1982	Premise Match	299m	North East
DRY CLEANERS, PRESSERS &/OR DYERS	Randwick Dry Cleaners, 125 Belmore Rd., Randwick.	20927	1978	Premise Match	299m	North East
DRY CLEANERS,PRESSERS/DYERS (D710)	Havana Dry Cleaning 66 Belmore Rd.,Randwick	292337	1970	Premise Match	299m	North East
DRY CLEANERS, PRESSERS & DYERS	Hanava Dry Cleaning, 66 Belmore Rd., Randwick	35273	1950	Premise Match	299m	North East
DRY CLEANERS, PRESSERS & DYERS	Wendon Dry Cleaners Pty. Ltd., 103 Belmore Rd., Randwick.,	35825	1950	Premise Match	299m	North East
DRY CLEANERS,PRESSERS/DYERS (D710)	Randwick Dry Cleaners,131 Belmore Rd.,Randwick	292468	1970	Premise Match	302m	North East
Dry Cleaners, Pressers/Dyers	Randwick Dry Cleaners, 131 Belmore Rd., Randwick	76304	1965	Premise Match	302m	North East
DRY CLEANERS, PRESSERS&/OR DYERS.	Randwick Dry Cleaners, 125 Belmore Rd., Randwick.	24299	1975	Premise Match	305m	North East
MOTOR GARAGES &/OR ENGINEERS	Avoca Garage, 251 Avoca St., Randwick	83403	1950	Premise Match	349m	South East
MOTOR GARAGES & ENGINEERS(M6S6)	S. & L. Auto Repairs,9 Cuthill St.RANDWICK	338564	1970	Premise Match	353m	East
Motor Garages & Engineers - Randwick	S. & L. Auto Repairs, 9 Cuthill St.	123271	1965	Premise Match	353m	East
Motor Garages & Engineers - Randwick	Lloyd, Peter Pty. Ltd., Cnr. Avoca & Barker Sts.	123266	1965	Road Intersection	366m	South East
DRY CLEANERS, PRESSERS & DYERS	Lyke-Nu Dry Cleaning Co. Ltd. 37 Belmore Rd., Randwick	35468	1950	Premise Match	393m	North East
MOTOR GARAGES & SERVICE STATIONS.	Boydied (Randwick) Pty. Ltd., 265 Avoca St., Randwick.	64082	1986	Premise Match	397m	South East

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MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Boyded (Randwick) Pty. Ltd., 265 Avoca St., Randwick. 2031,	56156	1982	Premise Match	397m	South East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Boyded (Randwick) Pty. Ltd., 265 Avoca St., Randwick.	49445	1978	Premise Match	397m	South East
MOTOR GARAGES &/OR ENGINEERS.	Boyded (Randwick) Pty. Ltd., 265 Avoca St., Randwick.	58469	1975	Premise Match	397m	South East
MOTOR GARAGES & ENGINEERS(M6S6)	Avoca Garage & Motor Body Works,265 Avoca St.RANDWICK	337229	1970	Premise Match	397m	South East
Motor Garages & Engineers - Randwick	Avoca Garage & Motor Body Works, 265 Avoca St.	123259	1965	Premise Match	397m	South East
Motor Garages & Service Stations	Shore Petroleum Service Station 8 Perouse Rd., Randwick	53885	1991	Premise Match	425m	East
MOTOR GARAGES & SERVICE STATIONS.	Esso Randwick Service Station, 8 Perouse Rd., Randwick.	64656	1986	Premise Match	425m	East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Esso Randwick Service Station, 8 Perouse Rd., Randwick. 2031.	56726	1982	Premise Match	425m	East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Servicenter, 8 Perouse Rd., Randwick.	50022	1978	Premise Match	425m	East
MOTOR GARAGES &/OR ENGINEERS.	Esso Servicenter 8 Perouse Rd. Randwick,	58853	1975	Premise Match	427m	East
MOTOR SERVICE STATIONS - PETROL, OIL	Esso Servicenter 8 Perouse Rd., Randwick.	61734	1975	Premise Match	427m	East
Motor Garages & Service Stations	Coogee Bay Road Auto Port 1 Coogee Bay Rd, Randwick 2031	53661	1991	Premise Match	450m	East
BATTERY SERVICE STATIONS	Randwick Garage (J. B. Williams, Propr.), 1 Coogee Bay Rd., Randwick	6635	1950	Premise Match	450m	East
MOTOR GARAGES &/OR ENGINEERS	Randwick Garage, 1 Coogee Bay Rd., Randwick	84257	1950	Premise Match	450m	East
MOTOR SERVICE STATIONS-PETROL, Etc.	Randwick Garage, 1 Coogee Bay Rd., Randwick	86318	1950	Premise Match	450m	East
MOTOR GARAGES &/OR ENGINEERS	Williams, J. B., 1 Coogee Bay Rd., Coogee	84565	1950	Premise Match	451m	East
DRY CLEANERS, PRESSERS & DYERS	Sharpe Bros., 5 Belmore Rd., Randwick; Wilkes Ave., Artarmon; 146 Alison Rd., Randwick	35690	1950	Premise Match	452m	North East
DRY CLEANERS, PRESSERS&/OR DYERS.	Sharpe Bros., 5 Belmore Rd., Randwick.	24327	1975	Premise Match	453m	North East
Motor Garages & Engineers - Randwick	Nock, G., 190 Alison Rd.	123268	1965	Premise Match	471m	North
Motor Garages & Engineers - Randwick	Alison Service Station, 140 Alison Rd.	123258	1965	Road Intersection	477m	North
MOTOR GARAGES &/OR ENGINEERS	Alison Service Station, 140 Alison Rd., Randwick	83369	1950	Road Intersection	477m	North
MOTOR SERVICE STATIONS-PETROL, Etc.	Alison Service Station, 140 Alison Rd., Randwick	85742	1950	Road Intersection	477m	North
DRY CLEANERS, PRESSERS & DYERS	Sharpe Bros., 5 Belmore Rd., Randwick; Wilkes Ave., Artarmon; 146 Alison Rd., Randwick	35687	1950	Premise Match	484m	North
DRY CLEANERS, PRESSERS & DYERS	Sharpe Bros., 5 Belmore Rd., Randwick; Wilkes Ave., Artarmon; 146 Alison Rd., Randwick	35688	1950	Premise Match	484m	North
DRY CLEANERS, PRESSERS & DYERS	Sharpe Bros., 5 Belmore Rd., Randwick; Wilkes Ave., Artarmon; 146 Alison Rd., Randwick	35689	1950	Premise Match	484m	North
DRY CLEANERS, PRESSERS&/OR DYERS.	Star Brite Dry Cleaning, 68 Perouse Rd., Randwick.	24358	1975	Premise Match	502m	South East
MOTOR GARAGES &/OR ENGINEERS	Morrow and Smith, 188 Alison Rd., Randwick	84108	1950	Premise Match	504m	North
MOTOR SERVICE STATIONS-PETROL, Etc.	Morrow and Smith, 188 Alison Rd., Randwick	86223	1950	Premise Match	504m	North
DRY CLEANERS, PRESSERS & DYERS	Randwick Dry Cleaners (R. McKenna, Propr.), 56 Perouse Rd., Randwick	35631	1950	Premise Match	507m	South East
MOTOR GARAGES &/OR ENGINEERS.	Randwick Auto Port, 155 Avoca St., Randwick.	59445	1975	Premise Match	519m	North East
Motor Garages & Engineers - Randwick	Randwick Auto Port, 155-159 Avoca St.	123270	1965	Premise Match	519m	North East
Motor Garages & Service Stations	Randwick Auto Port 155 Avoca St., Randwick	53801	1991	Premise Match	520m	North East
MOTOR GARAGES & SERVICE STATIONS.	Randwick Auto Port, 155 Avoca St , Randwick.	65324	1986	Premise Match	520m	North East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Randwick Auto Port, 155 Avoca St., Randwick. 2031.	57442	1982	Premise Match	520m	North East

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MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Randwick Auto Port, 155 Avoca St., Randwick.	50720	1978	Premise Match	520m	North East
MOTOR GARAGES & ENGINEERS(M6S6)	Randwick Auto Port,155-159 Avoca St.RANDWICK	338482	1970	Premise Match	520m	North East
DRY CLEANERS & PRESSERS.	Star Brite Dry Cleaning, 68 Perouse Rd., Randwick. .	25530	1986	Premise Match	525m	South East
DRY CLEANERS & PRESSERS. (D8500)	Star Brite Dry Cleaning, 68 Perouse Rd., Randwick. 2031.	24063	1982	Premise Match	525m	South East
DRY CLEANERS, PRESSERS &/OR DYERS	Star Brite Dry Cleaning, 68 Perouse Rd., Randwick.	20967	1978	Premise Match	525m	South East
DRY CLEANERS, PRESSERS & DYERS	Kleanit Valet Service, 53 Perouse Rd., Randwick	35381	1950	Premise Match	541m	South East
Motor Garages & Engineers - Waverly	Waverley Autos, 15 Victoria St.	123512	1965	Premise Match	578m	North East
DRY CLEANERS & PRESSERS.	Avoca Dry Cleaners, 141 Avoca St., Randwick.	25224	1986	Premise Match	585m	North East
DRY CLEANERS & PRESSERS. (D8500)	Avoca Dry Cleaners. 141 AvocaSt., Randwick. 2031.	23754	1982	Premise Match	585m	North East
DRY CLEANERS, PRESSERS &/OR DYERS	Weldon Dry Cleaners, 141 Avoca St., Randwick.	20985	1978	Premise Match	585m	North East
DRY CLEANERS, PRESSERS&/OR DYERS.	Weldon Dry Cleaners, 122 Avoca St., Randwick.	24402	1975	Premise Match	595m	North East
DRY CLEANERS & PRESSERS.	Gemini, 110 Avoca St., Randwick.	25318	1986	Premise Match	621m	North East
DRY CLEANERS & PRESSERS. (D8500)	Gemini, 110 AvocaSt., Randwick. 2031.	23850	1982	Premise Match	621m	North East
Motor Garages & Service Stations	Road & Track Automotive Services 115 Avoca St., Randwick	53816	1991	Premise Match	666m	North East
MOTOR GARAGES & SERVICE STATIONS.	Road & Track Automotive Services, 115 Avoca St., Randwick.	65346	1986	Premise Match	666m	North East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Road & Track Automotive Services. 115 Avoca St., Randwick.2031.	57473	1982	Premise Match	666m	North East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Road & Track Automotive Services. 115 Avoca St., Randwick.	50751	1978	Premise Match	666m	North East
DRY CLEANERS, PRESSERS & DYERS	Coogee Laundry, 115 Avoca St., Randwick	35164	1950	Premise Match	666m	North East
MOTOR GARAGES &/OR ENGINEERS.	Road & Track Automotive Services. 115 Avoca St., Randwick.	59469	1975	Premise Match	667m	North East
MOTOR GARAGES &/OR ENGINEERS.	T.S.W TradingCo. 115 Avoca St. Randwick.	59618	1975	Premise Match	667m	North East
MOTOR GARAGES &/OR ENGINEERS.	South Randwick Service Station Pty. Ltd., 345 Avoca St., Randwick.	59558	1975	Premise Match	728m	South
Motor Garages & Engineers - Randwick	South Randwick Service Station Pty. Ltd., 345 Avoca St.	123272	1965	Premise Match	728m	South
MOTOR GARAGES & ENGINEERS(M6S6)	South Randwick Service Station Pty. Ltd.,345 Avoca St.RANDWICK	338632	1970	Premise Match	729m	South
MOTOR GARAGES & ENGINEERS(M6S6)	Randwick Auto Body,107 Avoca St.RANDWICK	338481	1970	Premise Match	739m	North East
Motor Garages & Engineers - Randwick	Randwick Auto Body, 107 Avoca St.	123269	1965	Premise Match	739m	North East
DRY CLEANERS, PRESSERS & DYERS	Leo and Co., Military Rd., Watsons Bay and 26a Cowper St., Bondi Junction	35404	1950	Premise Match	836m	North
MOTOR GARAGES &/OR ENGINEERS.	South Kensington Garage, 12 Rainbow St., Kingsford.	59555	1975	Premise Match	867m	South West
MOTOR SERVICE STATIONS - PETROL, OIL	South Kensington Garage. 12 Rainbow St., Kingsford.	61953	1975	Premise Match	867m	South West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	South Kensington Garage, 12 Rainbow St., Kingsford. 2032.	57598	1982	Premise Match	868m	South West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	South Kensington Garage, 12 Rainbow St., Kingsford.	50857	1978	Premise Match	868m	South West
MOTOR GARAGES & ENGINEERS(M6S6)	South Kensington Garage,12 Rainbow St.KINGSFORD	338629	1970	Premise Match	868m	South West
MOTOR SERVICE STATIONS- PETROL,OIL,Etc. (M716)	South Kensington Garage,12 Rainbow St.KINGSFORD	341477	1970	Premise Match	868m	South West
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	South Kensington Garage, 12 Rainbow St.	125806	1965	Premise Match	868m	South West
Motor Garages & Engineers - Kingsford	South Kensington Garage, 12 Rainbow St.	122833	1965	Premise Match	868m	South West

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BATTERY SERVICE STATIONS	South Kensington Garage, 12 Rainbow St., Kingsford	6644	1950	Premise Match	868m	South West
MOTOR GARAGES &/OR ENGINEERS	South Kensington Garage, 12 Rainbow St., Kingsford	84393	1950	Premise Match	868m	South West
MOTOR SERVICE STATIONS-PETROL, Etc.	South Kensington Garage, 12 Rainbow St., Kingsford	86405	1950	Premise Match	868m	South West
MOTOR GARAGES & SERVICE STATIONS.	Mannys Service Centre, 380 Anzac Pde., Kingsford.	65036	1986	Premise Match	873m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Mannys Service Centre, 380 Anzac Pde., Kingsford. 2032.	57139	1982	Premise Match	873m	West
DRY CLEANERS,PRESSERS/DYERS (D710)	Kingsford Dry Cleaners,432 Anzac Pde.,Kingsford	292362	1970	Premise Match	874m	South West
Dry Cleaners, Pressers/Dyers	Kingsford Dry Cleaners, 432 Anzac Pde., Kingsford	76217	1965	Premise Match	874m	South West
MOTOR GARAGES & SERVICE STATIONS.	Amoco Kingsford Service Station, 398 Anzac Pde., Kingsford.	63893	1986	Premise Match	875m	West
MOTOR GARAGES & ENGINEERS(M6S6)	Chadwick & Avefy,456 Anzac Pde.KINGSFORD	337557	1970	Premise Match	889m	South West
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	Total Service Station, 456 Anzac Pde.	125808	1965	Premise Match	889m	South West
MOTOR SERVICE STATIONS - PETROL, OIL	Barringtons Service Station, 245 Anzac Pde., Kingsford.	61430	1975	Premise Match	910m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Barringtons Service Station, 245 Anzac Pde., Kingsford.	49381	1978	Premise Match	911m	West
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Barringtons Service Station,245 Anzac Pde.KENSINGTON	340824	1970	Premise Match	911m	West
Motor Garages & Engineers - Kingsford	Barrington's Service Station, 245 Anzac Pde.	122827	1965	Premise Match	912m	West
DRY CLEANERS, PRESSERS & DYERS	Brunner, J. F. (Agents), 590 Anzac Pde., Kingsford	35144	1950	Premise Match	913m	South West
MOTOR GARAGES &/OR ENGINEERS.	White, Peter Service Station, 241 Anzac Pde., Kensington,	59779	1975	Premise Match	925m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	White. Peter Service Station, 241 Anzac Pde., Kensington.	51103	1978	Premise Match	926m	West
MOTOR GARAGES & ENGINEERS(M6S6)	White,Peter Service Station,241 Anzac Pde.KENSINGTON	338880	1970	Premise Match	926m	West
Motor Garages & Engineers - Kensington	White, Peter Service Station, 241 Anzac Pde.	122810	1965	Premise Match	926m	West
MOTOR SERVICE STATIONS-PETROL, Etc.	White, Peter, 241 Anzac Pde., Kensington	86523	1950	Premise Match	926m	West
MOTOR GARAGES & SERVICE STATIONS.	Southern Cross Auto Port. 301 Anzac Pde., Kingsford.	65489	1986	Premise Match	928m	South West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Southern Cross Auto Port, 301 Anzac Pde., Kingsford.	50864	1978	Premise Match	928m	South West
MOTOR GARAGES & ENGINEERS(M6S6)	Southern Cross Auto Port,301 Anzac Pde.KINGSFORD	338638	1970	Premise Match	928m	South West
MOTOR GARAGES & SERVICE STATIONS.	Cowen & Smith, 3 Burton St., Darlinghurst.	64515	1986	Premise Match	930m	North
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cowen & Smith, 3 Burton St., Darlinghurst.	49856	1978	Premise Match	930m	North
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	Barringtons Service Station, 243 Anzac Pde.	125801	1965	Premise Match	931m	West
MOTOR GARAGES &/OR ENGINEERS	Destro, L., 273 Anzac Pde., Kingsford	83683	1950	Premise Match	933m	West
MOTOR GARAGES &/OR ENGINEERS	Kingsford Car Repairs, 273 Anzac Pde., Kingsford	83957	1950	Premise Match	933m	West
DRY CLEANERS, PRESSERS &/OR DYERS	Manning, G., 22 Queen St., Randwick.	20868	1978	Premise Match	939m	East
MOTOR GARAGES & SERVICE STATIONS.	Rob & Robb Automotive, Rear 231 Anzac Pde., Kingsford.	65347	1986	Premise Match	941m	West
MOTOR GARAGES & ENGINEERS(M6S6)	John's Auto Repairs,295 Houston Lane.KINGSFORD	338068	1970	Premise Match	947m	South West
DRYCLEANING MACHINERY & SUPPLIES MFRS. &/OR DIST.	Auto-Coin-Dry Cleaning Pty. Ltd., 221 Anzac Pde., Kensington.	20998	1978	Premise Match	948m	West
DRY CLEANERS, PRESSERS &/OR DYERS	Peter, Barry Laundries Pty. Ltd., 221 Anzac Pde., Kensington.	20913	1978	Premise Match	948m	West

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DRY CLEANING MACHINERY & SUPPLIES-MFRS.&/OR DIST. (D720)	Auto-Coin Dry Cleaning Pty.Ltd.,221 Anzac Pde.,Kensington	292584	1970	Premise Match	948m	West
DRY CLEANERS,PRESSERS/DYERS (D710)	Kensington Norge Village,221 Anzac Pde.,Kensington (&Branch)	292360	1970	Premise Match	948m	West
Dry Cleaners, Pressers/Dyers	Kensington Norge Village, 221 Anzac Pde., Kensington (& Branch)	76215	1965	Premise Match	948m	West
MOTOR GARAGES &/OR ENGINEERS.	Southern Cross Auto Port, 301 Anzac Pde., Kingsford.	59561	1975	Premise Match	951m	South West
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	Southern Cross Auto Port (Shell), 303 Anzac Pde.	125807	1965	Premise Match	952m	South West
MOTOR GARAGES & SERVICE STATIONS.	Caltex Service Station, 219A Anzac Pde., Kensington.	64402	1986	Premise Match	952m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Cooneys (Golden Fleece) Service Station, 219 Anzac Pde.,Kensington. 2033.	56565	1982	Premise Match	952m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Esso Kensington Service Station, 219A Anzac Pde., Kensington.2033.	56702	1982	Premise Match	952m	West
MOTOR GARAGES & ENGINEERS(M656)	Cooneys Service Station Pty. Ltd.,219a Anzac Parade.KENSINGTON	337611	1970	Premise Match	952m	West
Motor Garages & Engineers - Kensington	Golden Fleece Service Station, 219a Anzac Pde.	122802	1965	Premise Match	952m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cooneys (Golden Fleece) Service Station, 219 Anzac Pde., Kensington.	49840	1978	Premise Match	953m	West
MOTOR GARAGES &/OR ENGINEERS.	Cooney's Service Station Pty. Ltd., 219a Anzac Pde., Kensington.	58696	1975	Premise Match	953m	West
MOTOR GARAGES &/OR ENGINEERS.	Cwney, N., 219 Aniac Pde., Kensington.	58697	1975	Premise Match	953m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	8P Doncaster Service Station. 217 Anzac Pde.. Kensington.	49538	1978	Premise Match	955m	West
MOTOR SERVICE STATIONS - PETROL, OIL	BP Doncaster Service Station, 217 Anzac Pde., Kensington.	61495	1975	Premise Match	955m	West
Motor Garages & Engineers - Kensington	Green Frog (The), 217 Anzac Pde.	122803	1965	Premise Match	955m	West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	BP Doncaster Service Station 217 Anzac Pde., Kensington, 2033.	56204	1982	Premise Match	956m	West
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	B.P. Doncaster Service Station,217 Anzac Pde.,Kensington,2033KENSINGTON	340797	1970	Premise Match	956m	West
MOTOR SERVICE STATIONS-PETROL, Etc.	Green Frog (The), 217 Anzac Pde., Kensington	86009	1950	Premise Match	956m	West
MOTOR SERVICE STATIONS-PETROL, Etc.	Green Frog (The), 217 Anzac Pde., Kensington	86008	1950	Premise Match	956m	West
MOTOR GARAGES &/OR ENGINEERS	Green Frog (The), 217 Anzac Pde., Kensington	83822	1950	Premise Match	956m	West
DRY CLEANERS, PRESSERS & DYERS	Bestway Dry Cleaners, 359 Anzac Pde., Kingsford	35121	1950	Premise Match	966m	South West
DRY CLEANERS, PRESSERS & DYERS	Normays Dry Cleaners, 473 Anzac Pde., Kingsford	35567	1950	Premise Match	969m	South West
MOTOR GARAGES & SERVICE STATIONS.	Lightning Service Station, 72 Alison Rd., Randwick.	64984	1986	Premise Match	970m	North
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Lightning Service Station, 72 Alison Rd., Randwick. 2031.	57089	1982	Premise Match	970m	North
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Lightning Service Station, 72 Alison Rd., Randwick.	50377	1978	Premise Match	970m	North
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Lightning Service Station,72 Alison Rd.RANDWICK	341279	1970	Premise Match	970m	North
Motor Service Stations - Petrol, Oil, Etc. - Randwick	Lightning Service Station, 72 Alison Rd.	126080	1965	Premise Match	970m	North
MOTOR SERVICE STATIONS-PETROL, Etc.	Lightning Service Station, 72 Alison Rd., Randwick	86139	1950	Premise Match	970m	North
MOTOR SERVICE STATIONS - PETROL, OIL	Knappick Service Station. 417 Anzac Pde., Kingsford.	61839	1975	Premise Match	970m	South West
MOTOR GARAGES & SERVICE STATIONS.	Caltex Roundhouse Service Station, 417 Anzac Pde., Kingsford.,	64383	1986	Premise Match	973m	South West
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Caltex Round house Service Station, 417 Anzac Pde.,Kingsford.2032.	56453	1982	Premise Match	973m	South West

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MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Manuels Service Station, 417 Anzac Pde., Kingsford.	50427	1978	Premise Match	973m	South West
MOTOR SERVICE STATIONS- PETROL,OIL,Etc. (M716)	Knappick Service Station,417 Anzac Pde.KINGSFORD	341259	1970	Premise Match	973m	South West
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	Knappick, Les., 417 Anzac Pde.	125805	1965	Premise Match	973m	South West
Battery Service Stations	McGees Service Station, , 417 Anzac Pde., Kingsford	50212	1965	Premise Match	973m	South West
MOTOR GARAGES &/OR ENGINEERS	Mathieson and Waters Pty. Ltd., 417 Anzac Pde., Kingsford	84052	1950	Premise Match	973m	South West
DRYCLEANING MACHINERY & SUPPLIES MFRS. &/OR DIST.	Auto-Coin-Dry Cleaning Pty. Ltd., 221 Anzac Pde., Kensington.	24433	1975	Premise Match	975m	West
DRY CLEANERS, PRESSERS&/OR DYERS.	Kensington Norge Village. 221 Anzac Pde., Kensington.	24103	1975	Premise Match	975m	West
Motor Garages & Service Stations	Carrington Service Station 226 Carrington Rd., Coogee. 2034	53649	1991	Premise Match	980m	East
MOTOR GARAGES & SERVICE STATIONS.	Carrington Service Station, 226 Carrington Rd., Coogee.	64437	1986	Premise Match	980m	East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Carrington Service Station, 226 Carrington Rd., Coogee. 2034.	56496	1982	Premise Match	980m	East
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Carrington Service Station, 226 Carrington Rd., Coogee.	49770	1978	Premise Match	980m	East
MOTOR GARAGES & ENGINEERS(M6S6)	Carrington Service Station,226 Carrington Rd.COOGEE	337539	1970	Premise Match	980m	East
Motor Garages & Engineers - Coogee	Carrington Service Station, 226 Carrington Rd.	122457	1965	Premise Match	980m	East
Motor Garages & Engineers - Coogee	Johnson, J. W., 226 Carrington Rd.	122460	1965	Premise Match	980m	East
DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 343 Anzac Pde., Kingsford.	25402	1986	Premise Match	980m	South West
DRY CLEANERS & PRESSERS. (D8500)	Lawrence Dry Cleaners, 343 Anzac Pde., Kingsford. 2032.	23923	1982	Premise Match	980m	South West
MOTOR GARAGES &/OR ENGINEERS.	Carrington Service Station, 226 Carrington Rd., Coogee.	58639	1975	Premise Match	981m	East
DRY CLEANERS, PRESSERS & DYERS	Lykes Dry Cleaners, 345 Anzac Pde., Kingsford	35481	1950	Premise Match	982m	South West
MOTOR GARAGES & ENGINEERS(M6S6)	Central Service Station,7 Buanerong Rd.KINGSFORD	337554	1970	Premise Match	984m	South West
MOTOR SERVICE STATIONS- PETROL,OIL,Etc. (M716)	Central Service Station,7 Bunnerong Rd.KINGSFORD	340959	1970	Premise Match	984m	South West
DRY CLEANERS, PRESSERS & DYERS	Jones, Dry Cleaners Pty. Ltd. 357 Anzac Pde., Kingsford	35366	1950	Premise Match	987m	South West
MOTOR GARAGES &/OR ENGINEERS.	Alison Road Auto Port, 54 Alison Rd., Randwick.	58314	1975	Premise Match	990m	North

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

High Street, Randwick, NSW 2031

Dry Cleaners, Motor Garages & Service Stations 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:

Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
MOTOR GARAGES &/OR ENGINEERS.	Varsity Auto Centre, Botany St., Randwick.	59716	1975	Road Match	0m
MOTOR GARAGES & ENGINEERS(M6S6)	Varsity Auto Centre,Botany St.RANDWICK	338813	1970	Road Match	0m
Motor Garages & Service Stations	Varsity Auto Centre Barker St., Randwick	53975	1991	Road Match	188m
MOTOR GARAGES & SERVICE STATIONS.	Varsity Auto Centre, Barker St., Randwick.	65664	1986	Road Match	188m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Varsity Auto Centre, Barker St., Kensington. 2033.	57786	1982	Road Match	195m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Varsity Auto Centre, Barker St., Kensington.	51034	1978	Road Match	195m
MOTOR GARAGES & SERVICE STATIONS.	Avoca Rae Service Station, Avoca St., Randwick.	63996	1986	Road Match	288m
MOTOR GARAGES & SERVICE STATIONS.	Coogee Bay Road Auto Port, Coogee Bay Rd., Randwick.	64502	1986	Road Match	433m
MOTOR GARAGES &/OR ENGINEERS	B. and H. Motors, Middle Lane, Kingsford	83405	1950	Road Match	817m
MOTOR SERVICE STATIONS-PETROL, Etc.	B. and H. Motors, Middle Lane, Kingsford	85766	1950	Road Match	817m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Amoco Kingsford Service Station, Anzac Pde., Kingsford. 2032.	55971	1982	Road Match	876m
Motor Garages & Engineers - Kingsford	Amoco Service Station, Anzac Pde.	122825	1965	Road Match	876m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kingsford Motor Industries Pty. Ltd., Anzac Pde., Kingsford.	50337	1978	Road Match	876m
MOTOR GARAGES &/OR ENGINEERS.	Kingsford Motor industries Pty. Ltd., Anzac Pde., Kingsford.	59113	1975	Road Match	876m
MOTOR GARAGES &/OR ENGINEERS.	Kingsford Motor Industries, Anzac Pde., Kingsford.	59112	1975	Road Match	876m
MOTOR GARAGES & SERVICE STATIONS.	Mobil Kingsford Service Station, Anzac Pde., Kingsford.	65107	1986	Road Match	876m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Mobil KingsfordService Station, Anzac Pde., Kingsford. 2032.	57221	1982	Road Match	876m
DRY CLEANERS & PRESSERS.	Doncaster Co-op Laundry, Doncaster Shopping Centre, 260 Anzac Pde., Kensington.	25282	1986	Road Match	879m
Motor Garages & Service Stations	Kensington Auto Port, Anzac Pde, Kensington. 2033	53764	1991	Road Match	879m
MOTOR GARAGES & SERVICE STATIONS.	Vasilas, J. & S. & H. Pty. Ltd. Esso Self Serve, Anzac Pde., Kensington.	65666	1986	Road Match	879m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Grand Prix Garage, Day Ave., Kensington.	50188	1978	Road Match	935m
MOTOR GARAGES & ENGINEERS(M6S6)	Grand Prix Garage,Day Ave.KENSINGTON	337925	1970	Road Match	935m
MOTOR GARAGES &/OR ENGINEERS.	Grand Prix Garage. Day Ave., Kensington.	58985	1975	Road Match	935m
DRY CLEANERS, PRESSERS & DYERS	Tasman Dry Cleaners. 49 Barrowdale Rd., Kingsford	35768	1950	Road Match	951m
MOTOR GARAGES & SERVICE STATIONS.	Total Coogee Service Station, Carrington Rd., Coogee.	65597	1986	Road Match	983m

Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Coogee Service Station, Carrington Rd., Coogee.	50960	1978	Road Match	983m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Total Coogee Service Station, Carrington Rd., Coogee. 2034.	57714	1982	Road Match	983m
MOTOR GARAGES & ENGINEERS(M6S6)	Total Coogee Service Station,Carrington Rd.COOGEE	338740	1970	Road Match	983m
MOTOR GARAGES &/OR ENGINEERS.	Total Coogee Service Station. Carrington Rd., Coogee.	59655	1975	Road Match	983m
MOTOR GARAGES & ENGINEERS(M6S6)	Total Service Station Clovelly West,Carrington Rd.RANDWICK	338748	1970	Road Match	983m
Motor Garages & Engineers - Kingsford	Central Service Station, 7 Bunnerong Rd.	122828	1965	Road Match	986m
Motor Service Stations - Petrol, Oil, Etc. - Kingsford	Central Service Station, 7 Bunnerong Rd.	125803	1965	Road Match	986m
MOTOR GARAGES &/OR ENGINEERS.	Central Service Station, 7 Bunnerong Rd., Kingsford.	58649	1975	Road Match	986m
MOTOR SERVICE STATIONS - PETROL, OIL	Central Service Station, 7 Bunnerong Rd., Kingsford.	61637	1975	Road Match	986m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



Legend

Site Boundary

Buffer 150m

Scale:

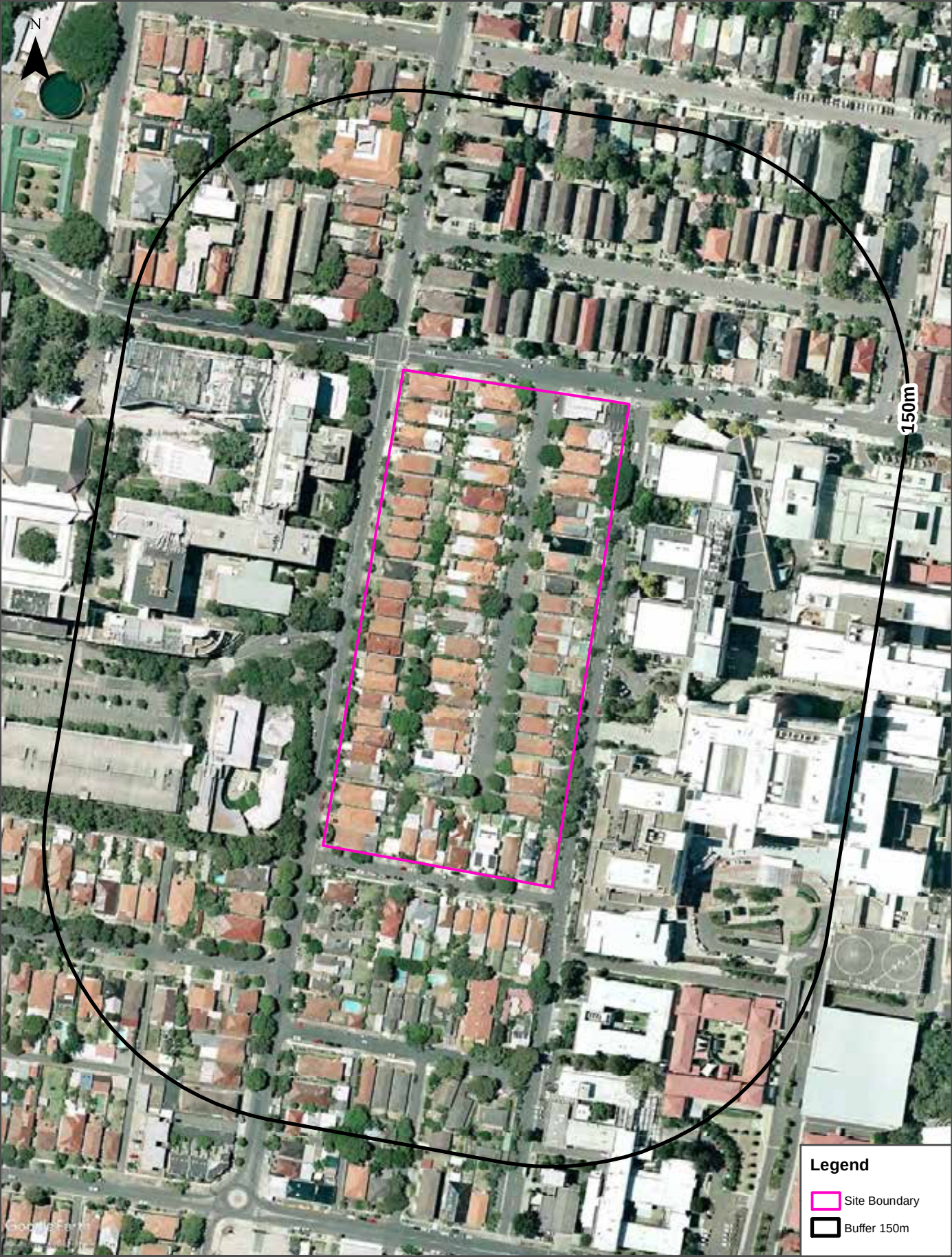
0 25 50 100 150

Meters

Data Sources: Historical Aerials: © Department Finance, Services & Innovation

Coordinate System:
GDA 1994 MGA Zone 56

Date: 11 September 2017



Scale: 0 25 50 100 Meters	Data Sources: Aerial Imagery © 2017 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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Scale: 0 25 50 100 Meters	Data Sources: Aerial Imagery © 2017 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Legend  Site Boundary  Buffer 150m Date: 06 September 2017
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Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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Legend

Site Boundary

Buffer 150m

Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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- Legend**
- Site Boundary
 - Buffer 150m

Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 September 2017
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Legend

- Site Boundary
- Buffer 150m

Scale:

0 25 50 100
Meters

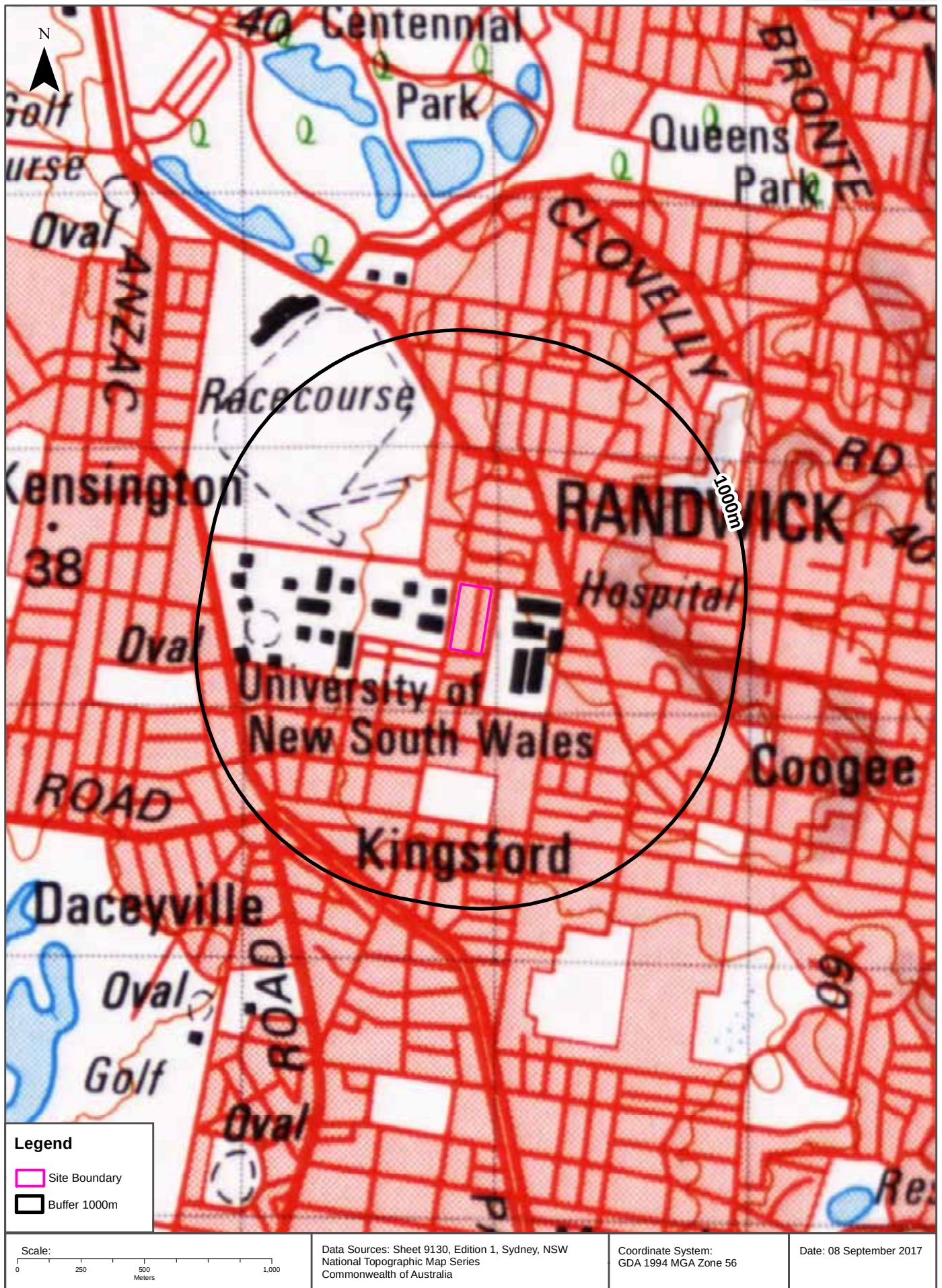
Data Sources: Aerial Imagery © Department Finance,
Services & Innovation

Coordinate System:
GDA 1994 MGA Zone 56

Date: 11 September 2017

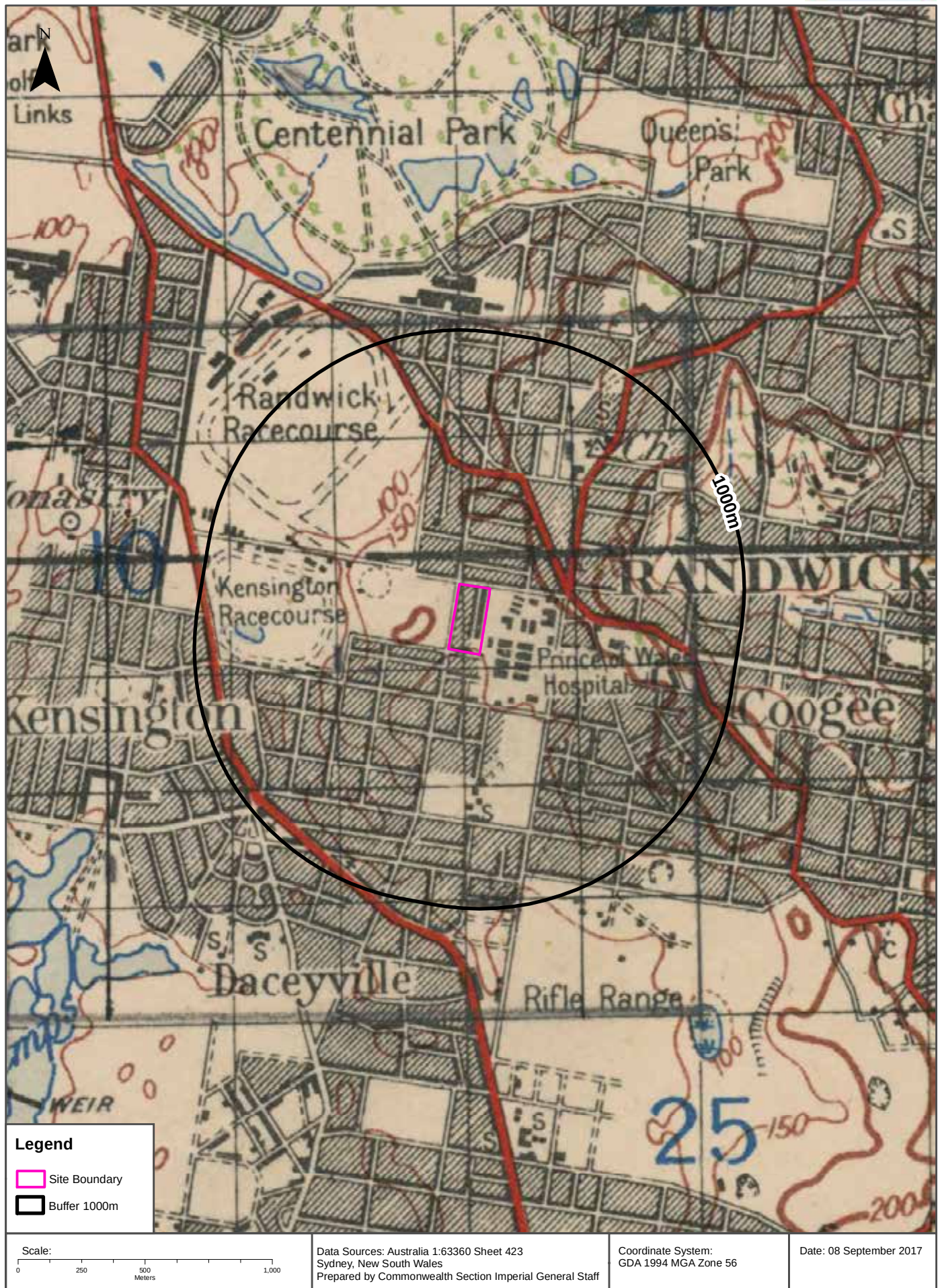
Historical Map 1975

High Street, Randwick, NSW 2031



Historical Map ca.1949

High Street, Randwick, NSW 2031

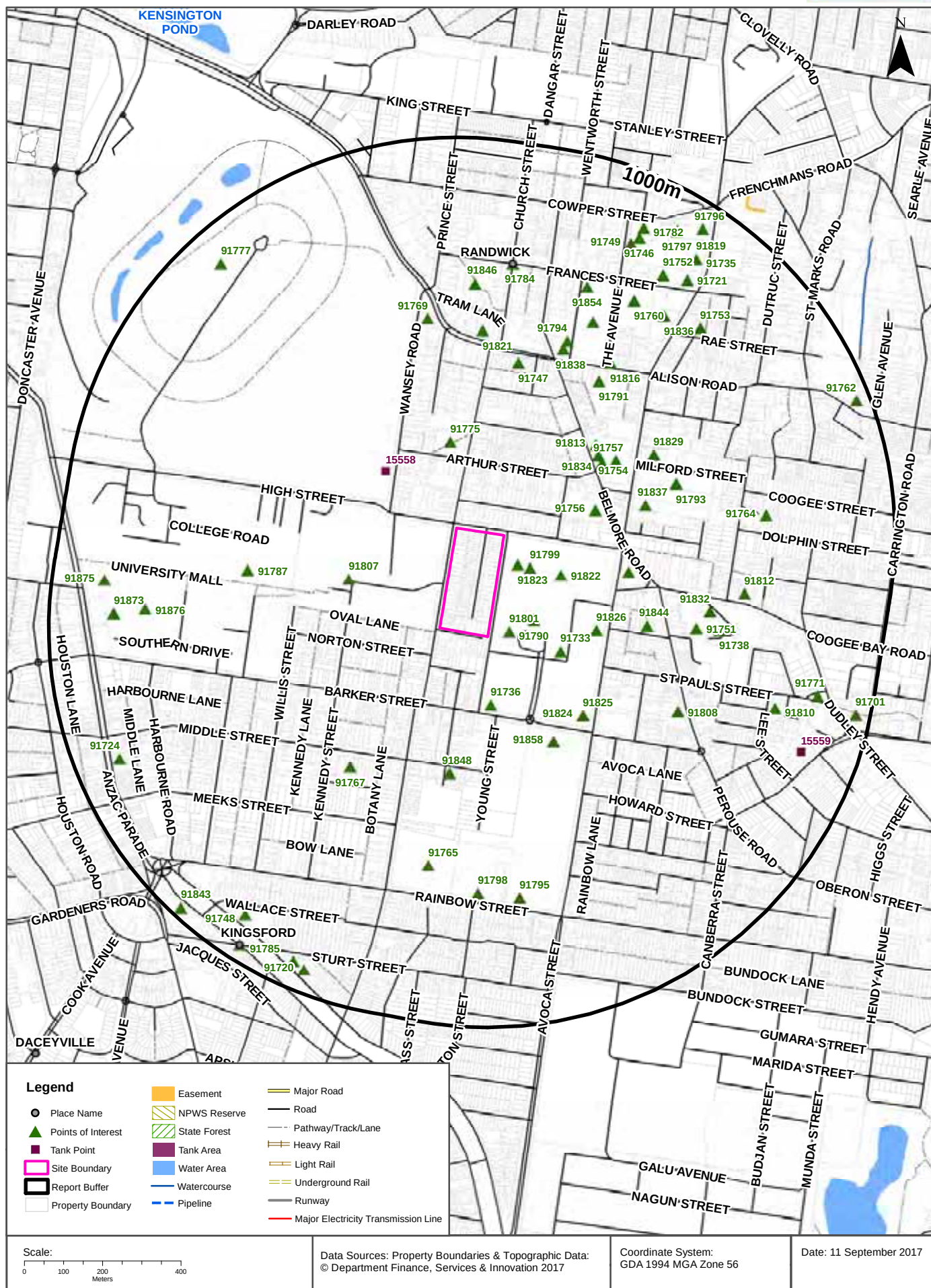


Historical Map ca.1917

High Street, Randwick, NSW 2031



High Street, Randwick, NSW 2031



Topographic Features

High Street, Randwick, NSW 2031

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
91823	Childrens Hospital	SYDNEY CHILDREN'S HOSPITAL	46m	East
91801	General Hospital	ROYAL HOSPITAL FOR WOMEN	53m	South East
91799	Special School	SYDNEY CHILDRENS HOSPITAL SCHOOL	79m	East
91790	General Hospital	PRINCE OF WALES PRIVATE HOSPITAL	110m	South East
91822	General Hospital	PRINCE OF WALES HOSPITAL	159m	East
91736	Ambulance Station	RANDWICK AMBULANCE STATION	177m	South
91733	Helipad	Helipad	190m	South East
91775	Park	WRITTLE PARK	220m	North
91756	Shopping Centre	RANDWICK PLAZA	242m	North East
91807	Post Office	UNIVERSITY OF NSW POST OFFICE	250m	West
91826	Community Home	PRINCE OF WALES COMMUNITY HEALTH SERVICE	272m	East
91834	Medical Centre	RANDWICK EARLY CHILDHOOD CENTRE	311m	North East
91754	Post Office	RANDWICK POST OFFICE	315m	North East
91824	Medical Centre	RANDWICK DEVELOPMENTAL CLINIC TUMBATIN BUILDING	317m	South East
91825	Medical Centre	SYDNEY CHILDREN'S COMMUNITY HEALTH CENTRE	317m	South East
91858	High School	RANDWICK GIRLS HIGH SCHOOL	317m	South East
91813	Library	MARGARET MARTIN LIBRARY	328m	North East
91770	Park	HIGH CROSS PARK	329m	East
91757	Shopping Centre	ROYAL RANDWICK SHOPPING CENTRE	343m	North East
91848	Park	SIMEON PEARCE PARK	363m	South
91837	Place Of Worship	OUR LADY OF THE SACRED HEART	369m	North East
91844	Place Of Worship	GRACEPOINT CHRISTIAN CHURCH	398m	East
91767	Park	SHAW RESERVE	424m	South West
91829	Community Home	MILFORD HOUSE NURSING HOME	434m	North East
91747	Club	RANDWICK LABOR CLUB	441m	North
91793	Primary School	OUR LADY OF THE SACRED HEART SCHOOL	459m	North East
91791	High School	MARCELLIN COLLEGE	462m	North East
91838	Place Of Worship	RANDWICK PRESBYTERIAN CHURCH	498m	North
91821	Special School	THE JOSEPH VARGA SCHOOL	509m	North
91787	University	UNIVERSITY OF NEW SOUTH WALES KENSINGTON CAMPUS	509m	West
91816	Police Station	RANDWICK POLICE STATION	518m	North East
91794	Primary School	COOGEE BOYS PREPARATORY SCHOOL	521m	North

Map Id	Feature Type	Label	Distance	Direction
91808	Post Office	ST PAULS POST OFFICE	523m	South East
91751	High School	BRIGIDINE COLLEGE RANDWICK	523m	East
91769	Park	GEORGE DAN RESERVE	540m	North
91832	Retirement Village	STRATHALLEN VILLAGE	551m	East
91738	Nursing Home	CATHOLIC HEALTHCARE BRIGIDINE HOUSE	582m	East
91774	Park	ALISON PARK	589m	North East
91765	Park	PAINE RESERVE	605m	South
91846	Park	KYNASTON AVENUE RESERVE	626m	North
91812	Primary School	CLAREMONT COLLEGE	631m	East
91798	Primary School	RAINBOW STREET PUBLIC SCHOOL	660m	South
91854	Child Care Centre	RANDWICK COOGEE PRE-SCHOOL	669m	North
91764	Park	Park	672m	East
91795	High School	RANDWICK BOYS HIGH SCHOOL	676m	South
91760	Cemetery	Cemetery	685m	North East
91784	Suburb	RANDWICK	689m	North
91836	Place Of Worship	ST JUDE'S ANGLICAN CHURCH	694m	North East
91753	Place Of Worship	UNITING CHURCH	729m	North East
91876	Sports Field	THE VILLAGE GREEN	755m	West
91810	Retirement Village	KOINONIA RETIREMENT VILLAGE	757m	South East
91752	Local Government Chambers	RANDWICK CITY COUNCIL	779m	North East
91721	Community Facility	RANDWICK TOWN HALL	803m	North East
91749	Fire Station	RANDWICK FIRE STATION	811m	North East
91746	Club	RANDWICK BOWLING CLUB	834m	North East
91873	Sports Court	TENNIS COURTS	834m	West
91771	Park	Park	857m	East
91735	High School	SATURDAY SCHOOL OF COMMUNITY LANGUAGES RANDWICK CE	859m	North East
91819	High School	OPEN HIGH SCHOOL	859m	North East
91782	Sports Field	BOWLING GREENS	862m	North East
91875	Sports Court	TENNIS COURTS	865m	West
91724	Community Facility	CASTELLORIZIAN CLUB	885m	South West
91748	Club	SOUTH SYDNEY JUNIOR RUGBY LEAGUE CLUB	887m	South West
91797	Primary School	RANDWICK PUBLIC SCHOOL	895m	North East
91777	Racecourse	ROYAL RANDWICK RACECOURSE	905m	North West
91796	Special School	CENTENNIAL PARK SCHOOL	932m	North East
91842	Place Of Worship	HOLY TRINITY ANGLICAN CHURCH	932m	South West
91720	Community Facility	HOLY TRINITY ANGLICAN CHURCH HALL	943m	South West
91785	Suburb	KINGSFORD	959m	South West
91701	Park	Park	962m	East
91762	Park	FRED HOLLOWS RESERVE	963m	North East
91843	Place Of Worship	KINGSFORD CHURCH OF CHRIST	976m	South West

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

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Topographic Features

High Street, Randwick, NSW 2031

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
	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?

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

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
15558	Water	Operational		05/10/2000	232m	North West
15559	Water	Operational		05/10/2000	854m	South East

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
N/A	No records in buffer				

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

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Topographic Features

High Street, Randwick, NSW 2031

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: © Land and Property Information (2015)

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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: © Land and Property Information (2015)

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