



Douglas Partners
Geotechnics | Environment | Groundwater

Report on
Detailed Site (Contamination) Investigation

Student Housing Development
90-102 Regent Street, Redfern

Prepared for
The Trust Company (Australia) Limited ATF WH
Regent Trust

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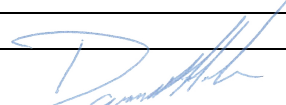
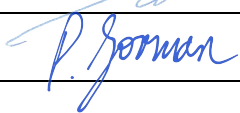
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Executive Summary

This report presents the results of a Detailed Site (Contamination) Investigation undertaken for the proposed student housing development at 90 to 102 Regent Street, Redfern. Douglas Partners Pty Ltd (DP) understands the proposed development on the site will include an 18-storey student housing building with an extension of the existing split-level basement the north to give a basement floor level at RL 22.8 m. The basement will be utilised to house utilities such as stormwater detention tanks, fire relay pump, storage room and bike store along with lifts. It is also understood that the ground level may be used for the building reception, retail and general common area.

The objective of the DSI was to assess the contamination status of the site with respect to State Environmental Planning Policy 55 - Remediation of Land (SEPP 55) by assessing the suitability of the site for the proposed development (i.e., a Phase / Stage 1 and 2 assessments).

The investigation comprised a review of site history information, a site walkover, intrusive sampling (including soil and groundwater), laboratory analysis for contaminants of concern and interpretation of results with reference to current NSW EPA Guidelines.

Based on the review of the site history information, it is evident that the site and surrounds have been largely used for commercial / mixed land use since the early 1900s. The historical aerial photograph review indicated that parts of the site have undergone construction / demolition works over the years. Considering the age of the former structures, it is considered likely that hazardous building materials, including asbestos containing material (ACM), were used in the buildings. The demolition of the structures could therefore impact the area, especially if the demolition practices were poorly controlled. Furthermore, during the site walkover, a fragment of ACM was found in the garden bed, which is likely from the deterioration of existing structures.

In summary, the contamination and geotechnical investigations undertaken by DP encountered the following general sub-surface conditions across the site:

- **CONCRETE / SPHALTIC CONCRETE / PAVERS:** Encountered at the site surface;
- **FILL:** Typically comprising clay or sand fill with varying amount of silt, clay and gravel. Silty gravel was encountered in BH5 underlying the concrete slab. Relatively shallow fill to depths of up to 0.3 m was encountered in boreholes BH1 and BH5, and deeper fill to depths of up to 2 m (typically 1.4 m) was encountered in BH2 to BH4, BH6 and BH7;

Anthropogenic inclusions were encountered in the fill at the majority of borehole locations including concrete gravel, brick, glass, terracotta, tile and timber fragments, ash and charcoal;
- **SILTY CLAY / SANDY CLAY:** Typically, brown-red, grey-brown and grey-red silty clay or sandy clay encountered in all bores, beneath the fill, and overlying silty clay; and
- **LAMINITE / SILTSTONE (Ashfield Shale):** Laminite and siltstone bedrock below depths of between 5.3 m and 9.7 m.

Groundwater was recorded generally at depths of around 16 m AHD.

The soil laboratory results indicated concentrations of total recoverable hydrocarbon (TRH) and polycyclic aromatic hydrocarbon (PAH) which exceeded the site assessment criteria (SAC) at location BH3/0.5-0.6, which was considered to be a contamination hotspot. The laboratory results at location BH3 and BH6 also indicated high total and leachable lead concentrations which exceeded the SAC.

Two rounds of groundwater sampling and analysis were undertaken. The second round was considered to be more reflective of the groundwater conditions at the site and recorded a detection of TRH in sample MW1, and VOC in sample MW3, however, the results were lower than in the first round of groundwater sampling and analysis. Based on the total petroleum hydrocarbon (TPH) results from MW1, it appears that the source may be petroleum based, however, it is unclear what the point source of contamination is. It is considered that it may be due to an off-site source given the local topography and anticipated regional groundwater direction to the south. The groundwater results in both rounds had elevated concentrations of the metals (chromium, copper and zinc) above the SAC. However, these results are considered typical of groundwater conditions in an urban setting.

The groundwater results indicate that the soil contamination does not appear to have migrated into groundwater. This is likely due to the clay profile present between the base of the fill and the water table.

DP considers the site can be made suitable for the proposed development subject to the following recommendations:

- **Soil** - Further testing of soils surrounding BH3 and BH6 to delineate the extent of contamination identified, followed by remediation which is likely to involve either (a) excavation of impacted soil and off-site disposal, or (b) on-site capping along with a long-term environmental management plan. Given the proposed development is to be covered in concrete hardstand, DP anticipates that a combination of these approaches may be the preferred remediation strategy;
- **Groundwater** - Another round of groundwater sampling is recommended to confirm the TRH and VOC concentrations. DP notes that this sampling is due to be completed in October 2020;
- **Remediation Action Plan** - A remediation action plan (RAP) is to be prepared following the additional investigations recommended above. The RAP will outline the procedures required to render the site suitable for the proposed development. DP notes that the RAP is currently being prepared and is due to be completed in October 2020;
- **Existing structures** - A hazardous building material survey by an appropriately qualified and licensed occupational hygienist should be conducted prior to demolition of existing structures;
- **Waste Classification** - A detailed waste classification assessment should be undertaken during construction works to classify fill material and natural soils for off-site disposal or potential re-use, should these materials be required for removal as part of remediation, or surplus to the development needs. Further delineation of soils surrounding BH3 and BH6 is required to delineate the extent of RSW and hazardous waste, respectively. Further delineation should also be undertaken at BH7 to delineate the extent of scheduled chemical waste; and
- **Unexpected Finds** - DP recommends the incorporation of an unexpected finds protocol (UFP) to establish a strategy / management procedure to be followed during construction works, should unexpected finds of contamination be uncovered. It is envisaged that the UFP could be documented in the RAP.

Table of Contents

	Page
1. Introduction.....	1
2. Scope of Works.....	1
3. Site Description	3
3.1 Site Identification.....	3
3.2 Site Description.....	3
4. Soil Landscapes, Geology, Topography, Hydrology and Hydrogeology	4
4.1 Soil Landscapes.....	4
4.2 Geology.....	4
4.3 Topography, Hydrology and Hydrogeology	5
4.4 Acid Sulfate Soil Maps	5
5. Site History	5
5.1 Historical Aerial Photographs	5
5.2 Historic Maps	7
5.3 Historical Business Listings	7
5.4 Heritage Listed Items	8
5.5 NSW EPA Public Register	8
5.6 Section 10.7	9
5.7 Historical Title Deeds	9
5.8 SafeWork NSW.....	10
5.9 GIPA Search	10
5.10 Trove Archives	11
6. Conceptual Site Model.....	11
6.1 Potential Receptors.....	12
6.2 Potential Pathways	13
6.3 Summary of CSM.....	13
7. Field Work	15
7.1 Fieldwork Methods and Rationale	15
7.2 Soil Sampling Procedure	15
7.3 Well Construction.....	16
7.4 Groundwater Development and Sampling Procedure	16
7.5 Analytical Rationale	17
7.6 Analytical Laboratory	17

8.	Site Assessment Criteria.....	18
8.1	Soil	18
8.1.1	Health Investigation and Screening Levels.....	18
8.1.2	Ecological Investigation and Screening Levels.....	20
8.1.3	Management Limits.....	20
8.1.4	Asbestos in Soil.....	21
8.2	Groundwater	22
9.	Field Observations	23
9.1	Soil	23
9.2	Groundwater Levels and Field Observations	24
10.	Laboratory Analytical Results.....	25
10.1	Soil	25
10.1.1	Leachability	26
10.2	Groundwater	26
10.3	Preliminary Waste Classification	27
11.	Discussion	29
12.	Conclusions and Recommendations	30
13.	Limitations	31

Appendix A:	Notes About this Report
	Drawings
Appendix B:	Site Photographs
Appendix C:	Site History Information
Appendix D:	Laboratory Summary Tables
Appendix E:	Borehole Logs
Appendix F:	Data Quality Objectives
Appendix G:	Laboratory Certificates of Analysis and Chain-of-Custody Documentation

Report on Detailed Site (Contamination) Investigation

Student Housing Development

90-102 Regent Street, Redfern

1. Introduction

Douglas Partners Pty Ltd (DP) was commissioned by The Trust Company (Australia) Limited ATF WH Regent Trust to undertake a Detailed Site (Contamination) Investigation (DSI) for the proposed student housing development at 90 to 102 Regent Street, Redfern (the site as shown on Drawing 1, Appendix A). The investigation was carried out with reference to DP's proposal SYD190418.P.001.Rev2 dated 29 August 2019.

It is understood that the proposed development on the site will include an 18-storey student housing building with an extension of the existing split-level basement to the north to give a basement floor level at RL 22.8 m. The basement will be utilised to house utilities such as stormwater detention tanks, fire relay pump, storage room and bike store along with lifts. It is also understood that the ground level may be used for the building reception, retail and general common area.

The objective of the DSI was to assess the contamination status of the site with respect to State Environmental Planning Policy 55 - Remediation of Land (SEPP 55) by assessing the suitability of the site for the proposed development (i.e., a Phase / Stage 1 and 2 assessments).

No known contamination investigations have been previously undertaken at the site. The current investigation comprised a review of site history information, a site walkover, intrusive sampling (including soil and groundwater), laboratory analysis for contaminants of concern and interpretation of results with reference to current NSW EPA Guidelines.

The DSI was conducted concurrently with a geotechnical investigation as reported in DP Report on *Geotechnical Investigation, Student Housing Development, 90-102 Regent Street, Redfern*, Project 86852.00 dated September 2020 (DP, 2020).

DP understands this report will form part of a submission for State Significant Development (application number SSD 10382) and to address the Secretary's Environmental Assessment Requirements (Number 18) dated 30 November 2019.

2. Scope of Works

DP carried out the following scope of works:

- Review of published soil landscapes, geological, topographic and acid sulphate soil maps;

- Obtain and review Land Insight & Resources, *Enviro-Screen* report (dated 16 July 2019) for the site including:
 - o Department of Primary Industry groundwater bore records for registered groundwater bores in the vicinity of the site;
 - o Available historical and current aerial photographs to assess likely past uses of the site;
 - o Historical maps to assess likely past uses of the site;
 - o Historical business listings to identify potential sources of contamination at or near the site;
 - o Heritage-listed items in the vicinity of the site; and
 - o NSW EPA public registers for notices and licences issued under the Contaminated Land Management Act 1997 (CLM Act) and the Protection of the Environment Operations Act 1997 (POEO Act).
- Review of other pertinent site history information comprising:
 - o Council's Section 10.7 Planning Certificate;
 - o Current and historical land titles;
 - o Search of the SafeWork NSW register to identify hazardous chemicals on premises;
 - o Council records obtained through an informal government information public access (GIPA) application; and
 - o Historical records obtained through various websites.
- A site walkover to observe current and recent land use and assess the potential for contaminating activities;
- Drilling of four boreholes (BH101 to BH105) using a drill rig to depths of up to 20 m, in conjunction with the geotechnical investigation;
- Drilling of an additional two boreholes (BH6 and BH7) using a hand auger in areas inaccessible for the drill rig;
- Collection of soil samples from the boreholes at regular depth intervals, typically at the surface (0-0.2 m) and changes in the soil strata, where observed;
- Conversion of three boreholes into groundwater monitoring wells;
- Well development, followed by groundwater sampling using low-flow sampling techniques;
- Laboratory analysis of selected soil, groundwater and material samples by a National Association of Testing Authorities (NATA) accredited laboratory for contaminants of potential concern (COPC) and parameters including:
 - o Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc);
 - o Total recoverable hydrocarbons (TRH) and total petroleum hydrocarbons (TPH);
 - o Benzene, toluene, ethylbenzene and xylenes (BTEX);
 - o Polycyclic aromatic hydrocarbons (PAH);
 - o Organochlorine pesticides (OCP);
 - o Organophosphorus pesticides (OPP);
 - o Polychlorinated biphenyls (PCB);
 - o Total phenols;
 - o Asbestos;

- o Volatile organic compounds (VOC);
 - o Toxicity characteristic leaching procedure (TCLP) and Australian standard leaching procedure (ASLP); and
 - o Hardness.
- Provision of this DSI report detailing the findings of the investigation as well as recommendations for further works. A preliminary waste classification has also been included to provide an indication of offsite disposal options. It should be noted that a hazardous material survey was beyond the scope of the current investigation.

3. Site Description

3.1 Site Identification

The site is almost rectangular in shape and has a surveyed area of 1,287 m². The site is located within the local government area of City of Sydney and is identified as follows:

- Lot 1, Section 2, Deposited Plan 3954 (90 Regent Street, Redfern);
- Lot 2, Section 2, Deposited Plan 3954 (92 Regent Street);
- Lot 3, Section 2, Deposited Plan 3954 (94 Regent Street);
- Lot 1, Deposited Plan 184335 (96 / 96A Regent Street); and
- SP57425 (98 - 102 Regent Street).

Based on the Enviro-Screen report (Appendix C), the site is zoned as E Business Zone - Commercial Core.

3.2 Site Description

A site inspection was undertaken by a DP environmental scientist on 19 September 2019. The photographs taken during the site walkover are provided in Appendix B.

The site has dimensions of about 32 m x 42 m and slopes gently down towards the south-west. The site is bordered by Marian Street to the north, Regent Street to the east, a service (petrol) station to the south, and William Lane to the west. On the northern side of Marian Street there was a vacant site for a new development. A former Council Depot was located on the western side of William Lane which is being redeveloped for affordable rental housing. The site is underlain by two rail tunnels, which are part of the Sydney Metro rail line that was under construction at the time of this investigation.

At the time of the inspection, the site was occupied by a number of two-storey buildings with car ports off the rear William Lane, and a four-storey building (i.e., the southern-most building) over a split-level basement car park. Access into the existing basement car park was from William Lane and the basement covered approximately one-third of the total site footprint. Various construction materials (including paint tins) and tools were being stored in the basement area (Photograph 1).

The rear of No. 90 Regent Street consisted of a car parking area with asphaltic concrete / hard stand (Photograph 2) as well as paved and landscaped areas. An inspection of the building was not undertaken, given that the property was occupied. It is understood the building is currently in use as a Salvation Army centre, providing services to disadvantaged youth.

The remaining properties were un-occupied at the time of the investigation. There was a carport at the rear of No. 92 Regent Street (Photograph 3) with the ground surface covered in concrete hardstand. The exterior wall and some of the interior brick walls were observed to have paint flaking off (Photograph 4). The interior of the building was mostly empty with a bathroom, sink facilities and some cabinets (Photograph 5).

The rear of Property No. 94 Regent Street had a brick paved area with a garden bed along the perimeter (Photograph 6). A fragment of potential asbestos containing material (PACM) was observed on the ground surface, in the garden bed (refer to Drawing 1, Appendix A for approximate location). The exterior brick work was observed to have paint flaking off (Photograph 6). The interior was observed to consist of tiled surfaces and polished wooden floors (Photograph 7) and the building was vacant.

Based on the street frontage along Regent Street, the shop signage indicated that Property No. 92 was formerly a medical centre (Photograph 8). Based on street view on Google Maps, it appears that Property No. 94 was formerly a printing shop.

4. Soil Landscapes, Geology, Topography, Hydrology and Hydrogeology

4.1 Soil Landscapes

Reference to the Sydney 1: 100 000 Soil Landscape Sheet indicates the site is underlain by the Tuggerah soils landscape group (mapping unit tg) characterised by gently undulating to rolling coastal dunefields, with local relief to 20 m, slope gradients generally 1 - 10% but occasionally up to 35%. The soils vary from deep podzols on dunes and humus podzol integrades on swales. These soils typically have extreme wind erosion hazard, are non-cohesive, highly permeable soil, very low soil fertility and have permanently high water tables.

4.2 Geology

Reference to the Sydney 1:100 000 Geological Series Sheet 9130 indicates that the site is located within Quaternary-aged transgressive dunes typically comprising medium to fine-grained sand. The boundary with Triassic-aged Ashfield Shale occurs about 140 m to the west of the site. Ashfield Shale typically comprises black to dark grey shale and laminite and weathers to residual clay.

4.3 Topography, Hydrology and Hydrogeology

The site has an overall topographic difference of approximately 4 m from the highest part (approximately 27 m, relative to the Australian height datum (AHD) within the north eastern portion of the site), to the lowest part (approximately 23 m AHD, taking into account the basement plan) within the south western portion of the site as shown on 2 m elevation contours obtained through published topographic maps. The regional topography slopes from the north towards Alexandra Canal, located approximately 1 km south of the site.

Surface water is anticipated to drain to the local stormwater system and follow the general regional topography, ultimately draining into Alexandra Canal. Likewise, groundwater is also anticipated to flow in the direction of Alexandra Canal.

A search of the groundwater bore database maintained by the Department of Primary Industry was included in the Enviro-Screen report provided in Appendix C. Review of the records indicates that there was one registered groundwater bore (GW071907) located to the south east, within approximately 500 m of the site. The authorised purpose of the bore was reported to be for recreational purposes. The standing water level in the bore was measured at 11.6 m. It should be noted that this bore is not located hydraulically down-gradient of the site.

4.4 Acid Sulfate Soil Maps

Reference to the Atlas of Australian Acid Sulfate Soils included in the Enviro-Screen report indicates that the site lies in a “Class C” area, where there is an extremely low probability of occurrence of acid sulfate soils (ASS). Furthermore, given that the site lies at an elevation of approximately 26 m AHD, the probability of ASS being present on site is considered extremely unlikely.

Reference to the ASS planning maps, included in the Enviro-Screen report maps the site as “Class 5” and notes that “Works within 500 metres of adjacent Class 1, 2, 3, or 4 land which are likely to lower the water table below 1 m AHD on adjacent Class 1, 2, 3, or 4 land, present an environmental risk.”

Based on the desktop search, further assessment of ASS at the site is not considered to be warranted.

5. Site History

5.1 Historical Aerial Photographs

Historical aerial photographs from 1930 to 2019 were included in the Enviro-Screen report (Appendix C). These were reviewed to identify past land uses and hence the potential for contaminating activities to have impacted the site. It should be noted that for the period 2009 to 2019, Nearmap aerals were reviewed as they provided higher resolution imagery. A summary of the aerial photograph review is given below.

1930 - The resolution of the aerial photograph is of poor quality and it is unclear as to whether any structures are present on the site. Marian Street, Regent Street and William Lane can be seen to the

north, east and west of the site, respectively. The surrounding land use appears to be commercial / industrial. Redfern railway station can be seen to the north-west of the site.

1943 - The aerial photograph is of a higher resolution (compared to the 1930 photograph). It appears that the site is occupied by buildings / possible warehouses. The surrounding land use appears to be commercial / industrial.

1951 - The aerial photograph is of poor resolution. The site and immediate surrounds appear much the same as in 1943, although the detail is difficult to ascertain. It appears that further west / south-west of the site (adjacent Gibbons Street) some of the buildings present in the 1943 aerial have been demolished.

1965 - The majority of the structures south / south west of the site, in the adjacent block of land have been demolished. It appears that new buildings have been constructed on the property west of the site, and the buildings observed in the 1951 aerial have been demolished.

1970 - New buildings have been constructed within the area south / south-west of the site (i.e., the area that had undergone demolition in the 1965 aerial) and parts of this area have been utilised for car parking. It appears that the structure located just beyond the southern site boundary which was observed in the 1965 aerial has been demolished, and a new structure has been constructed.

1982 - 1986 - There appears to be a structure within the north western corner of the site. The southern portion of the site appears to be used as a car parking area. It appears that the structure to the north east of the site has been demolished and a new building constructed, or a rooftop car park has been constructed over the existing building.

1991 - 1994 - The structure within the north western corner of the site observed in the 1986 aerial appears to be demolished and the area now appears to be used as a car park. In the 1994 aerial, there appears to be a tree / cluster of trees within the mid-western portion of the site. The immediate surrounds appear much the same as in 1986.

1998 - A new structure / building has been constructed within the southern portion of the site, which appeared to previously be used as a car parking area. It appears that south / south-west of the site, some construction activities are underway.

2004 - The tree(s) identified in the 1994 aerial has matured and is more easily identified. Construction activities south of the site appear to have been completed, and a new service station canopy can be seen.

2007 - The site and immediate surrounds appear much the same as in 2004.

2009 - 2010 - The tree within the mid-western portion of the site has been cleared. The site and immediate surrounds appears much the same over this period.

October 2011 - Property Number 90 appears to have new roofing.

April 2012 - The southern half of the site appears to be much the same as in 2009. Some fill activity appears to be undertaken within the north western portion of the site. North-west of the site, beyond Marian Street, the block of land has been subject to earthworks activities.

May 2012 - A new asphaltic concrete / concrete hardstand surface has been laid within the north western portion of the site, in the area that was being filled in April 2012.

2013 - 2019 - The site appears much the same since 2012 over this period. In the March 2013 aerial, construction is underway in the block of land north-west of the site, and in the January 2019 aerial, the buildings located north of Marian Street have been demolished.

5.2 Historic Maps

Reference to the historic zoning map from 1951 included in the Enviro-Screen report indicates the site and immediate surrounds were zoned as "Industrial". The City of Sydney (1958) Planning Scheme map identifies the site is zoned as "business / shopping centres".

5.3 Historical Business Listings

A review of historical business records from 1932 to 1990 provided in the Enviro-Screen report (Appendix C) was undertaken to identify potentially contaminating business activities that could impact the site. "High risk" business activities (as identified in Table 1 below) within 150 m from the site and typically upgradient to the site were identified as potential sources of contamination. Business activities in close proximity to the site have also been listed, regardless of location (i.e., upgradient / downgradient).

A summary of the high risk potentially contaminating business activities is provided in Table 1 below. It should be noted that only business with an 'address match' are listed.

Table 1: Summary of Historic High Risk Potentially Contaminating Business Activities from 1932 to 1990

Year	Business Activity	Approximate Distance from Site	Potential Contamination
1932,1940, 1950, 1965, 1970, 1974, 1980, 1990	Printing services / photo copiers / photography services	Adjacent site (116 Regent St); <150 m north / north-east; <50 m south-east	Acids, alkalis, solvents, chromium
1950, 1965, 1970, 1974,1980, 1990	Dry cleaners / dyers / clothes pressing services / laundries	<150 m north / north-east	VOC
1932, 1940, 1950, 1965, 1970, 1974, 1980, 1990	Motor Cars, Lorries and Garages / motor service stations / motor mechanics	Onsite (102 Regent St); Adjacent site (south); <50 m east; <50 m south	Metals, TPH, BTEX, PAH
1932, 1940, 1970, 1974	Painters / Oil and Colourmen	20 m south-east	Heavy metals, solvents

The following “high risk” businesses are reported to be currently operational in the vicinity of the site (within 150 m):

- Percy Jack Motorcycle (131-133 Regent Street) - located approximately 30 m east;
- AG Transmission & Mechanical Repairs (131 Regent Street) - located approximately 30 m east; and
- Mechanical repairs (154-156 Regent Street) - located approximately 150 m south-west.

5.4 Heritage Listed Items

The following items appearing on the local environment plan (LEP), were listed as being of local heritage significance, within approximately 150 m from the site (included in the Enviro-Screen report):

- Redfern Estate - 29 m north-east;
- St Luke’s Presbyterian Church - 53 m south;
- Former Redfern Municipal Electric Light Station - 96 m north-east;
- Terrace House - 97 m south east; and
- Electricity Substation No. 112 - 139 m north-east.

The Redfern Station Booking Office (161 m north west) was the only property on the LEP listed as being of state heritage significance within approximately 150 m of the site.

It is noted that Eveleigh Railway Workshops, located approximately 150 m west of the site is listed on the Register of the National Estate (RNE) and the State Heritage Register (SHR). The Redfern Railway Station group, located approximately 57 m west of the site is also listed on the SHR. There were no Commonwealth heritage listed or World Heritage Areas within 150 m of the site.

5.5 NSW EPA Public Register

Based on the Enviro-Screen report, the following is indicated:

- No notices or orders made under the CLM Act have been issued for the site or adjacent properties. It is noted that the former Gas N Go Alexandria, located 147 m south of the site has been issued three notices;
- The site has not been included in the list of NSW contaminated sites notified to EPA. It is noted that the following sites, located within 150 m of the site have been notified as being contaminated to the NSW EPA, however regulation under the CLM Act is not required:
 - o BP service station - located adjacent the southern site boundary. It is noted that at least five underground storage tanks are understood to be located within the premises; and
 - o Former Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016) - located approximately 150 m south of the site.
- No licences under Schedule 1 of the POEO Act have been issued for the site or adjacent properties; and

- No records were found relating to James Hardie Asbestos Waste Contamination legacy sites, former gasworks site, defence sites, waste management facilities or sites that are part of the PFAS investigation program, within 150 m of the site

5.6 Section 10.7

The Section 10.7 Planning Certificate for 92, 94, 96 and 98 - 102 Regent Street, dated 12 December 2018 was obtained from City of Sydney Council. The Section 10.7 Planning Certificate for 90 Regent Street was obtained on 3 September 2019. A review of the Certificates indicated the following:

- The site is not declared to be significantly contaminated within the meaning of the CLM Act;
- The site is not subject to a management order or an on-going maintenance order within the meaning of the CLM Act;
- The site is not the subject of an approved voluntary management proposal within the meaning of the CLM Act; and
- The site is not the subject of a site audit statement within the meaning of the CLM Act.

Copies of the certificates are provided in Appendix C.

5.7 Historical Title Deeds

A historical Title Deeds search was conducted on the site by Infotrack Pty Ltd (24 July 2019) to obtain information regarding previous land ownership and occupancy details. This information provides an indication of previous land uses and also gives an insight into potential sources of contamination at the site. Notwithstanding, Title Deeds alone are not conclusive of land use and need to be used in conjunction with other site history information (e.g., aerial photographs) to gain a better understanding of the likely land use.

Title deeds dating back to 1904, 1909 and 1924 were obtained for Lot 1 to Lot 3, Section 2, Deposited Plan 3954; Lot 1, Deposited Plan 184335; and SP57425, respectively. Review of the title deeds indicates that SP57425 was previously divided into three parts as shown on Figure 1 below.

Based on review of the title deeds, and together with the historical aerial photographs, the following is inferred:

- Lot 1 Section 2, Deposited Plan 3954 appears to have been commercial / mixed land use since 1904; and
- Lots 2 and 3, Section 2, Deposited Plan 3964; Lot 1, Deposited Plan 184335; and SP57425 appear to have been commercial / mixed land use since at least the 1930s.

It is noted that the City of Sydney are the current owners of Lot 1, Section 2, Deposited Plan 3954, and The Trust Company (Australia) Limited are the current owners of Lot 2 and Lot 3, Section 2, Deposited Plan 3954 and Lot 1 Deposited Plan 184335. A full copy of the title deeds, along with a summarised version is provided in Appendix C.



Figure 1: Cadastral Map Extracted from Title Deeds Search

5.8 SafeWork NSW

The results of the SafeWork NSW Site Search for Schedule 11 Hazardous Chemicals on Premises undertaken in August 2019 did not identify any records pertaining to the site. The SafeWork records are included in Appendix C.

5.9 GIPA Search

A summary of the key property applications for the site dating back to the 1980s, obtained through the informal GIPA search, are listed below:

90 Regent Street

- DA 083-06-11 (August 2011) - Alterations to premise and change of use to a youth hostel including internal and external façade works.

92 Regent Street

- U91/00571 (DA - August 1991) - Use premises as retail and wholesale fashion shop;
- U93/0057 (DA - January 1993) - Use as beauticians; and
- U94/00594 (DA - July 1994) - Change of use from fashion shop to doctors surgery.

94 Regent Street

- Y01/01737 (DA - September 1985) - Use as a hair dressing salon involving alterations M Burton & L Doyle. Based on the description of the proposed works, general laundry facilities were proposed on the ground floor.

98 to 102 Regent Street

- U95/00685 (DA - August 1995) - Erect a four-storey residential commercial building;
- Q95/00962 (Building application - November 1995) - Erect a four-storey residential commercial building; and
- U01/00214 (DA - March 2001) - Shop 2 change of use from retail to real estate office.

5.10 Trove Archives

A photograph of 90 Regent Street dated 30 January 2000 was obtained from Trove, City of Sydney Archives (Mark Stevens Collection 48579) which identifies the property as Bunnerong Hotel (public house). The description provided states that the hotel is no longer in use and the building has been converted to the Immex Occupational Medical Centre.

Another photograph, with the street address 90 Regent Street dated 1977 – 1980 (citation CRS 1140: BM 226) is identified as being Personality's Dry Cleaning Service. DP notes, however, that the photograph may have the incorrect street address and is likely to be 74 Regent Street (based on the shop frontage), located approximately 50 m north of the site. An internet search also identifies Personality's Dry Cleaning to be located at 74 Regent Street.

6. 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).

Based on the review of site history information and the site walkover, the following potential sources of contamination and associated contaminants of potential concern (COPC) have been identified and are summarised in Table 2 below.

Table 2: Potential Contamination Sources and Associated Contaminants of Potential Concern

Potential Source	Description of Potential Contaminating Activity	Contaminants of Potential Concern
Fill and surficial soil (S1).	It is likely that fill was placed at the site to achieve existing design levels. As the source of fill is unknown, there is potential for contaminants to be present in the fill. Furthermore, the deterioration of the former and existing structures (likely to contain hazardous building materials) may over time have impacted the fill / soil.	Heavy metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenols and asbestos.
Hazardous building materials in existing structures (S2).	Given the age of the existing structures, it is considered likely that hazardous building materials were used in the construction materials.	Asbestos, lead and PCB.
Former site uses (S3).	Review of the historical business listings indicated there was a motor dealer formerly located on site (102 Regent Street) and possibly laundry facilities. Based on review of Google Maps, it appears a printing shop was also located onsite.	Heavy metals, TRH, BTEX, PAH, VOC.
Previous and current offsite activities in the surrounding area (S4).	The site is located in a commercial area. The review of the historical business listings indicated various 'high risk' business activity previously / currently located in the vicinity of the site.	Heavy metals, TRH, BTEX, PAH, VOC.

Notes:

TRH -	total recoverable hydrocarbons
BTEX -	benzene, toluene, ethylbenzene, xylene
PAH -	polycyclic aromatic hydrocarbons
PCB -	polychlorinated biphenyls
OCP -	organochlorine pesticides
OPP -	organophosphorus pesticides
VOC -	volatile organic compounds

6.1 Potential Receptors

The following potential receptors (R) have been identified:

Human Health Receptors:

R1 - Construction workers (during site redevelopment);

R2 - Future site users (students, visitors, commercial tenants); and

R3 - Land users in adjacent areas.

Environmental Receptors:

R4 - Local groundwater

DP notes that based on the current design plans, the proposed development footprint is to be covered in hardstand / by the building footprint (i.e., without landscaped areas / accessible soils) therefore, terrestrial ecosystems have not been included as potential environmental receptors. Surface water runoff and infiltration are also not considered to be relevant, and therefore have not been considered further. Should the design plans be updated to include landscaped areas, the CSM may need to be revised.

6.2 Potential Pathways

The following potential exposure pathways are primarily relevant to human receptors:

- P1 - Ingestion and dermal contact; and
- P2 - Inhalation of fibres/dust and / or vapours.

The following potential exposure pathways are primarily relevant to environmental receptors:

- P3 - Leaching of contaminants and vertical migration into groundwater; and
- P4 - Lateral migration of groundwater.

6.3 Summary of CSM

A 'source - pathway - receptor' approach has been used to assess the potential risks of harm being caused to the identified receptors from contamination sources on or in the vicinity of the site, via exposure pathways (complete pathways). The possible pathways between the above sources (S1 to S4) and receptors are provided in Table 3 below.

Table 3: Conceptual Site Model

Source	Transport Pathway	Receptor	Risk Management Action Recommended
Fill and surficial soil (S1).	P1 - Ingestion and dermal contact.	R1 - Construction workers.	An intrusive investigation of site soils and groundwater is recommended to assess possible contamination issues including chemical testing of soils and groundwater.
	P2 - Inhalation of fibres / dust and / or vapours.	R2 - Future site users.	
	P2 - Inhalation of fibres/ dust and / or vapours.	R3 - Land users in adjacent areas.	
Former Site Uses (S3). Previous and current offsite activities in the surrounding area (S4).	P3 - Leaching of contaminants and vertical migration into groundwater.	R4 - Local groundwater.	
	P4 - Lateral migration of groundwater.		
Hazardous building materials in existing structures (S2).	P3 - Leaching of contaminants and vertical migration into groundwater.	R1 - Construction workers.	A hazardous buildings material survey should be conducted prior to demolition with a clearance certificate provided for the ground surface post demolition.
	P2 - Inhalation of fibres / dust and / or vapours.	R2 - Future site users.	
	P2 - Inhalation of fibres/ dust and / or vapours.	R3 - Land users in adjacent areas.	

7. Field Work

7.1 Fieldwork Methods and Rationale

Field investigations for drilling works were undertaken from 17 to 23 September 2019 by a DP engineering geologist and environmental scientist. The field investigation was designed in accordance with the seven step data quality objectives (DQO) process provided in Appendix B, Schedule B2 of the *National Environment Protection (Assessment of Site Contamination) Measure 1999 as amended 2013* (NEPC, 2013). The DQO adopted for this investigation are provided in Appendix F.

The field work comprised the drilling of seven boreholes, which is consistent with the sampling frequency recommended in the NSW EPA *Sampling Design Guidelines* (1995) for a 2,000 m² site. The borehole locations were positioned on the basis of the geotechnical requirements (DP, 2020), but are considered to be appropriately positioned for general site coverage. The borehole locations are shown on Drawing 1, Appendix A.

Boreholes BH1, BH2 and BH5 were first concrete cored prior to drilling. Boreholes BH1, BH2 and BH3 were drilled using a combination of solid flight auger (SFA) and NMLC coring to depths of up to 20 m; boreholes BH4 and BH5 were drilled using SFA; and boreholes BH6 and BH7 were drilled using a hand auger. Groundwater monitoring wells were installed in boreholes BH1, BH2 and BH3, hereafter referred to as MW1, MW2 and MW3 respectively. The wells were positioned to provide site coverage and triangulation to assess groundwater flow direction.

Soil samples were collected from all boreholes at regular depth intervals, targeting fill layers and any change in the soil profile. Borehole logs were completed for all boreholes indicating the geological profile observed (refer to Appendix E). Logs included, where relevant, sample identification, coordinates, date of collection, a description of the substrate conditions encountered, visual or olfactory evidence of contamination, the depth of samples and QA / QC samples collected, the sampler and equipment used.

7.2 Soil Sampling Procedure

Sampling data was recorded to comply with routine chain-of-custody requirements and DP's standard operating procedures outlined in the DP Field Procedures Manual. The general sampling, handling, transport and tracking procedures are detailed below:

- Soils were sampled from the tip of the auger. Disposable nitrile gloves were worn when collecting all samples. Gloves were replaced prior to the collection of each sample in order to prevent cross-contamination;
- Samples collected for laboratory analysis were transferred into a new laboratory prepared glass jar, with minimal headspace, and sealed with a Teflon lined lid. Each jar was individually sealed to reduce the potential for cross contamination during transportation to the laboratory;
- Sample containers were labelled with individual and unique identification including project number, sample ID, depth and date of sampling;
- Placement of sample containers and bags into a cooled, insulated and sealed container for transport to the laboratory; and

- Use of chain-of-custody documentation so that sample tracking and custody could be cross-checked at any point in the transfer of samples from the field to the laboratory. Copies of completed chain of custody forms are included in Appendix G.

7.3 Well Construction

The groundwater monitoring wells were 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 groundwater wells were capped and a Gatic cover placed flush with the ground surface.

The specific construction details for the monitoring wells are presented in Table 4 below.

Table 4: Well Construction Details*

Construction Details	MW1	MW2	MW3
Well installation depth (m bgl)	10.9	12.3	13
Screen (m bgl)	3 - 10.9	5 - 12.3	7 - 13
Gravel pack (m bgl)	2 - 12.9	4 - 13.69	6 - 20
Bentonite (m bgl)	0.2 - 2	0.15 - 4	0.2 - 6
Gatic cover	Flush with ground level	Flush with ground level	Flush with ground level

*Due to drilling within the Sydney Metro easement, the base of the monitoring well was above the final drilled depth.

7.4 Groundwater Development and Sampling Procedure

Following installation of groundwater wells MW1 to MW3, the wells were developed on 24 September 2019 and sampled on 27 September 2019. A second round of groundwater development and sampling was undertaken on 19 and 26 November 2019, respectively.

Well development involved purging a minimum of three well volumes, or until the well went dry. The purpose of well development was to remove, as far as practicable, fluid and sediment introduced via drilling and to facilitate connection of the well to the local groundwater regime.

Prior to groundwater sampling, an interface probe was first used to measure the standing water level (SWL) of the bores and also to detect light non-aqueous phase liquids (LNAPL), if present. This was also supplemented with the retrieval of a bailer to further assist with LNAPL assessment. Sampling was undertaken using low-flow sampling techniques utilising a peristaltic pump (with the exception of MW3 which was bailed due to groundwater depth and limited water recharge). The pump was set to the lowest possible flow rate that could produce laminar flow. Prior to sampling, field parameters (pH, temperature, dissolved oxygen (DO), conductivity, turbidity (NTU) and redox), which were measured using a calibrated water quality meter, were first allowed to stabilise.

During the second sampling round, in addition to collection of samples from the mid-column, samples from near the base of each well were also collected to assess for the presence of dense non-aqueous phase liquid (DNAPL).

Samples were transferred directly into appropriately preserved bottles, with minimum aeration. For analysis of metals, the relevant sample fraction was filtered (in the field or on occasion by the laboratory) using an in-line disposable 0.45 µm filter. Sample tubing and filters were changed between each well / sample to minimise the risk of cross-contamination.

The sample handling and management comprised the following:

- Sample bottles were labelled with individual and unique identification including project number, Well ID and date of sampling;
- The sample was placed in an insulated cooler and maintained at a cool temperature using ice until transported to the analytical laboratory; and
- Use of chain-of-custody documentation so that sample tracking and custody could be cross-checked at any point in the transfer of samples from the field to the laboratory. Copies of completed chain of custody forms are included in Appendix G.

7.5 Analytical Rationale

Based on site observations (e.g., odour, staining, etc.) and the location of soil samples within the subsoil strata, selected samples were analysed for the primary contaminants of concern as identified in Section 6. The analytical scheme was designed to obtain an indication of the potential presence and possible distribution of identified COPC, as outlined below:

- Fill samples from varying depths (up to depths of 2.0 m); and
- Six samples from natural soil were analysed for a reduced contaminant suite.

For groundwater, all mid-column samples were analysed for COPC with samples from depth (collected during the second groundwater monitoring round) initially placed on hold, pending analysis of the mid-column sample.

7.6 Analytical Laboratory

All primary soil and groundwater samples collected were submitted to Envirolab Services Pty Ltd (Envirolab). An inter-laboratory duplicate for soil was sent to ALS Environmental Pty Ltd (ALS) for project QA / QC purposes. Both Envirolab and ALS are NATA accredited and are required to conduct in-house QA / QC procedures. These are incorporated into every analytical run and include assessment of reagent blanks, spike recovery, surrogate recovery and laboratory duplicates. The analytical methods and the in-house QA / QC procedures used are summarised in the laboratory certificates of analysis, included in Appendix G.

8. Site Assessment Criteria

8.1 Soil

The Site Assessment Criteria (SAC) applied in the current investigation are informed by the CSM, which identified human and environmental receptors to potential contamination on the site (refer to Section 6), as well as consideration of the proposed development.

The laboratory analytical results have been assessed against the investigation and screening levels in Schedule B1 of NEPC (2013). These guidelines are endorsed by the NSW EPA under the CLM Act 1997.

Schedule B1, NEPC (2013) provides investigation and screening levels for commonly encountered contaminants which are applicable to generic land uses, and where relevant, also include consideration of soil type and the depth of contamination. It should be highlighted that the investigation and screening levels are not intended to be used as clean up levels, and any contaminants which have concentrations that exceed the investigation/screening levels should be further assessed using a Tier 2 risk assessment.

8.1.1 Health Investigation and Screening Levels

The HIL 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 intentionally conservative, based on a reasonable worst-case scenario for four generic land use settings.

HIL are applicable to assessing health risk arising via all relevant pathways of exposure for a range of soil contaminants. 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 HIL apply for other land uses.

Health Screening Levels (HSL) are applicable to selected petroleum compounds and fractions (BTEX, naphthalene, F1 and F2) to assess the risk to human health via inhalation and direct contact pathways. HSL apply to the same land use settings as the HIL, however, also take into consideration soil types and depths to contamination.

Given the proposed development is a student housing accommodation with building footprint covering the whole site, the most relevant land use criteria has been applied as follows:

- HIL B (Residential with minimal opportunities for soil access, includes fully and permanently paved yard spaces such as high-rise buildings and apartments);
- HSL A & B (Low to high density residential); and
- HSL B (Low - high density residential - for direct contact).

It is noted that HSL for intrusive maintenance workers (direct contact) are listed in CRC CARE (2011) *Technical report 10, Health screening levels for petroleum hydrocarbons in soil and groundwater, Part 1: Technical development document* (CRC CARE, 2011), however, these have not been used as SAC for the current investigation as the screening levels are higher than HSL-B and therefore, are considered unlikely to be risk drivers for further assessment.

The selected HSL inputs are summarised in Table 5, and the adopted HIL / HSL are given in Table 6.

Table 5: Inputs into the Derivation of HSL

Variable	Input	Rationale
Potential exposure pathway	Inhalation of vapours / direct contact.	Potential exposure pathways identified in the CSM.
Soil type.	Sand.	Based on dominant soil type encountered in the upper fill/soil profile (see logs). Values for sand are also more conservative for HSL application.
Depth to contamination.	0 m to <1 m.	Potential contamination sources likely to impact surface soils. This depth range is also the most conservative.

Table 6: Adopted HIL and HSL values

Contaminants		HIL – B / HSL B (Direct Contact)	HSL A&B Sand 0 m to <1 m
Metals	Arsenic	500	-
	Cadmium	150	-
	Chromium (VI)	500	-
	Copper	30 000	-
	Lead	1200	-
	Mercury (inorganic)	120	-
	Nickel	1200	-
	Zinc	60 000	-
PAH	Benzo(a)pyrene TEQ ¹	4	-
	Total PAH	400	-
	Naphthalene	*2200	3
Phenols	Phenol (Pentachlorophenol as initial screen)	130	-
TRH	C6-C10	*5600	-
	>C10-C16	*4200	-
	>C16-C34	*5800	-
	>C34-C40	*8100	-
	C6 – C10 (less BTEX) [F1]	-	45
	>C10-C16 (less Naphthalene) [F2]	-	110
BTEX	Benzene	*140	0.5
	Toluene	*21 000	160

Contaminants	HIL – B / HSL B (Direct Contact)	HSL A&B Sand
		0 m to <1 m
Ethylbenzene	*5900	55
Xylenes	*17000	40
OCP	DDT+DDE+DDD	600
	Aldrin and dieldrin	10
	Chlordane	90
	Endosulfan	400
	Endrin	20
	Heptachlor	10
	HCB	15
	Methoxychlor	500
	Chlorpyrifos	340
OPP		
PCB	PCBs	2

Notes to Table 6:

- 1 Sum of carcinogenic PAH.
- 2 Non dioxin-like PCB only.
- 3 The soil saturation concentration (C_{sat}) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds C_{sat}, a soil vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'.

* Direct contact HSL.

8.1.2 Ecological Investigation and Screening Levels

Given that the development footprint is to comprise concrete hardstand / pavements and cover the whole site (i.e., without areas of accessible soil / landscaped areas), ecological investigation and screening levels were not considered to be relevant, and therefore, were not included in the SAC. This is consistent with the CSM, which did not identify terrestrial ecosystems as a potential receptor to contamination. Should the proposed design be changed to include landscaped / garden areas, the SAC will need to be updated.

8.1.3 Management Limits

In addition to the application of HSL and ESL, a further screening measure is applicable to petroleum hydrocarbons, which takes into account policy considerations and reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquid (LNAPL);
- Fire and explosive hazards; and

- Effects on buried infrastructure e.g., penetration of, or damage to, in-ground services.

'Management limits' have been adopted in NEPC (2013) as interim Tier 1 guidance to avoid or minimise these potential effects. The criteria have been developed for petroleum fractions F1 to F4. The inputs to the derivation of the 'management limits' are presented in Table 7, and the values adopted, extracted from Table 1B (7), Schedule B1 of NEPC (2013) are shown in Table 8.

Table 7: Inputs into the Derivation of Management Limits

Variable	Input	Rationale
Depth of Management Limit application.	Any depth within the soil profile	'Management limits' apply to any depth within the soil profile.
Soil Texture.	Coarse.	Based on dominant soil type in the upper fill / soil profile (see Logs) which identified predominately sandy soils.
Land use.	Residential, parkland and public open space.	Based on proposed development.

Table 8: Management Limits

Analyte		Management Limit (coarse)
TRH	C ₆ – C ₁₀ (F1)	700
	>C ₁₀ -C ₁₆ (F2)	1000
	>C ₁₆ -C ₃₄ (F3)	3500
	>C ₃₄ -C ₄₀ (F4)	10 000

8.1.4 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.

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 fibrous asbestos (FA) and asbestos fines (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.

A detailed asbestos assessment was not undertaken as part of these works therefore the presence or absence of asbestos at a limit of reporting of 0.1 g/kg has been adopted for this assessment as an initial screen.

8.2 Groundwater

The groundwater investigation levels (GIL) adopted in NEPC (2013) are based on:

- Australian Water Quality Guidelines 2000 (AWQG);
- Australian Drinking Water Guidelines 2011 (ADWG); and
- Australian and New Zealand Governments (ANZG), Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2018 (ANZG, 2018).

The GIL used for interpretation of the groundwater data are based on the risks posed by contaminated groundwater, at or down-gradient of the site, as well as the potential uses of groundwater, as follows:

- Risk to aquatic ecosystems - the ovals / open grassed areas located between the site and Alexandra Canal is anticipated to act as a flood management / surface infiltration area, and therefore a shallow freshwater ecosystem is expected to be present. The 'freshwater' guidelines have therefore been applied for the protection of aquatic ecosystems;
- Risk to human health - exposure to VOC (including TRH and BTEXN) via the vapour intrusion pathway is considered a risk to human health, therefore, the groundwater HSLs for vapour intrusion have been applied for protection of human health; and
- Potential groundwater use - Based on review of the groundwater bore database (see Section 4.3), there was one bore used for recreational purposes within 500 m of the site. However, given that this bore is not located hydraulically down-gradient of the site, the recreational guidelines were not considered to be relevant.

A summary of the groundwater criteria applied in the investigation is given in Table 9 below. The actual criteria applied for each analyte is shown on Table D4, Appendix D.

Table 9: Summary of Groundwater Criteria

Risk Assessment	Criteria	Source	Comments / Rationale
Aquatic Ecosystems.	Default Guideline Values (DGV - freshwater). 95% level of species protection (or 99% for certain analytes - see comments column).	ANZG, 2018.	The DGV for freshwater has been applied. The 95% level of species protection has been applied, consistent with a slightly-moderately disturbed system. ANZG, 2018 note that for certain contaminants (i.e., mercury, chlordane, DDT, endosulfan, endrin, heptachlor, arochlor, B(a)P), a 99% level of species protection should be applied.
Human Health.	HSL A & B (applying silt and	NEPC (2013) and CRC	A depth range of 4 m to < 8 m has been applied, given that groundwater was

Risk Assessment	Criteria	Source	Comments / Rationale
	depth range of 4 m to <8 m).	CARE (2011).	observed at depths of around 16 m AHD, which is approximately 6 m below the basement level of 22.8 m AHD. Silty clay was encountered in two boreholes, underlying fill, and sandy clay was encountered in three boreholes, overlying silty clay (see logs in Appendix E and Section 9 below). Although clay is the predominant soil type, a soil type of "silt" was applied as a conservative approach

9. Field Observations

9.1 Soil

Details of the subsurface conditions encountered are given in the borehole logs in Appendix E, together with notes defining classification methods and descriptive terms. A summary of the ground profile encountered is provided below:

CONCRETE / ASPHALTIC CONCRETE / PAVERS: Concrete slab was encountered in BH1, BH2, BH5 and BH6 to depths of up to 0.2 m. Asphaltic concrete was encountered in BH3 to depths of 0.05 m and brick pavers were encountered in BH4 to depths of 0.1 m;

FILL: Typically comprising clay or sand fill with varying amount of silt, clay and gravel. Silty gravel was encountered in BH5 underlying the concrete slab. Relatively shallow fill to depths of up to 0.3 m was encountered in boreholes BH1 and BH5, and deeper fill to depths of up to 2 m (typically 1.4 m) was encountered in BH2 to BH4, BH6 and BH7. Borehole BH6 terminated in fill at a depth of 2.0 m due to maximum reach of hand tools, and BH7 terminated in fill at depths of 0.9 m on a possible concrete slab. It is noted that there was a 0.45 m void beneath the floor at location BH7, which was drilled within the existing building footprint.

Anthropogenic inclusions were encountered in the fill at the majority of borehole locations including trace concrete gravel (BH1), trace brick fragments (BH2), trace glass fragments (BH4), and trace tile and PVC fragments (BH6). Timber fragments, concrete gravels, terracotta, trace charcoal and brick fragments were observed in BH7, located below the floor void. Ash and / or charcoal were observed in BH3 at depths of 0.05 to 1.2 m (see Photograph 9, Appendix B).

SILTY CLAY / SANDY CLAY: Typically brown-red, grey-brown and grey-red silty clay (which appeared to be stiff to very stiff) was encountered in BH1 to BH5, with boreholes BH4 and BH5 terminating in silty clay. Sandy clay was encountered in BH2, BH3 and BH4 underlying fill, and overlaying silty clay; and

LAMINITE / SILTSTONE (Ashfield Shale): Laminite and siltstone bedrock below depths of between 5.3 m and 9.7 m and continuing to the bottom of the boreholes. The rock profile generally includes

very low and low strength, fractured laminite about 1 m to 3 m thick underlain by medium and high strength, fresh and slightly fractured laminite or siltstone.

9.2 Groundwater Levels and Field Observations

Groundwater wells were surveyed using a dGPS to obtain ground level in m AHD. The results of the groundwater level measurements recorded prior to well development and sampling are presented in Table 10.

Table 10: Summary of Groundwater Level Measurements

Well Development *						
Well ID	Location of Monitoring Well	Ground Level ** (m AHD)	SWL (m bgl)	SWL (m AHD)	SWL (m bGL)	SWL (m AHD)
			24 September 2019		19 November 2019	
MW1	Downgradient	22.9	6.7	16.2	6.6	16.3
MW 2	Downgradient	24.5	6.9	17.6	8.5	16.0
MW 3	Upgradient	26.0	8.1	17.9	9.6	16.4
Well Sampling***						
			27 September 2019		26 November 2019	
MW1	Downgradient	22.9	10.7	12.2	6.6	16.3
MW 2	Downgradient	24.5	8.2	16.3	8.3	16.2
MW 3	Upgradient	26.0	9.8	16.2	9.8	16.2

*surveyed using a dGPS

AHD – Australian Height Datum

SWL – standing water level

bgl – below ground level

No LNAPL was observed or detected by the interface meter or the bailer during well sampling. Whilst groundwater levels were recorded to be generally level, it is anticipated that regional groundwater flow would follow the local topography to the south towards Alexander Canal.

10. Laboratory Analytical Results

10.1 Soil

The analytical results for the soil samples are summarised in Tables D1 to D2, Appendix D together with the adopted SAC. Laboratory certificates of analysis are provided in Appendix G. A summary of the key results is as follows:

- The recorded concentrations of BTEX, phenol, OCP, OPP and PCB were below the laboratory limit of reporting (LOR) in all samples with the exception of sample BH7/0.5-0.6 which had a detect of aldrin, dieldrin, and chlorpyrifos, however, concentrations were below the SAC;
- The recorded concentrations of metals were below the SAC for all soil samples with the exception of concentrations of lead at location BH6 which exceeded the HIL of 1200 mg/kg. The following samples at BH6 exceeded the SAC:
 - o BH6/1-1.1(1600 mg/kg);
 - o BH6/1.4-1.5 (1800 mg/kg); and
 - o BH6/1.9-2.0 (2500 mg/kg). The retest of sample BH6/1.9-2.0 recorded concentrations of 2900 mg/kg (Repeat 1) and 2600 mg/kg (Repeat 2).

Given that the concentrations of lead were less than 2.5 times the SAC, the 95% Upper Confidence Limit (UCL) was considered applicable to the dataset. However, given the large variability in the data, the use of statistics was found not to be appropriate.

- The recorded concentrations of TRH and PAH were below the SAC for all soil samples with the exception of sample BH3/0.5-0.6 which had the following exceedances:
 - o Concentrations of TRH F2 (400 mg/kg) which exceeded the HSL of 110 mg/kg;
 - o Concentrations of TRH F3 (4300 mg/kg) which exceeded the management limit of 2500 mg/kg;
 - o Concentrations of naphthalene (8 mg/kg) which exceeded the HSL of 3 mg/kg;
 - o Concentrations of BaP TEQ (120 mg/kg) which exceeded the HIL of 4 mg/kg; and
 - o Concentrations of total PAH (1200 mg/kg) which exceeded the HIL of 400 mg/kg.

Given that the concentrations of TRH F2, naphthalene, BaP TEQ and total PAH were 2.5 times over the SAC, this location was considered a contamination hotspot. The high concentrations of PAH are likely attributable to the ash-containing material found in this sample;

It is noted that a detection of the TRH F3 and F4 fractions was observed in sample BH4/0.1-0.2, however, concentrations were below the SAC. Silica gel clean-up (TPH) analysis was requested on samples BH3/0.5-0.6 and BH4/0.1-0.2 to determine the possible TRH source. The TPH results for samples BH3/0.5-0.6 and BH4/0.1-0.2 indicate a possible petroleum-based source; and

- The fragment of fibre-cement material observed on the ground surface during the site walkover (PACM, refer to Drawing 1, Appendix A) was confirmed to contain chrysotile and crocidolite asbestos.

10.1.1 Leachability

TCLP was requested on select samples as part of the preliminary waste classification assessment (see Section 10.3 below) to assess mobility of the contaminants through the sub-surface. Based on review of the TCLP results, additional ASLP testing was also requested on select samples to assess leachability under typical site conditions. The leachability results have been tabulated in Appendix D, Table D3. A summary of the key results is as follows:

- Samples BH6/1 - 1.1, BH6/1.4-1.5, and BH6/1.9-2.0 recorded lead TCLP results ranging from 11 mg/L to 62 mg/L, and lead ASLP results ranging from 330 to 2100 µg/L indicating some leachability under typical site conditions;
- Sample BH3/0.5-0.6 had a BaP TCLP and lead TCLP of <0.001 mg/L and 0.39 mg/L, respectively, and a total positive PAH of 0.0059 mg/L. The BaP and lead ASLP results were 0.002 mg/L and 570 µg/L, respectively, which indicates some leachability of lead under typical site conditions;
- Sample BH3/1-1.1 had a lead TCLP of 20 mg/kg and a lead ASLP result of 580 µg/L, indicating some leachability under typical site conditions; and
- Overall, the ASLP results indicated some leachability of the metals lead, copper, chromium and zinc under typical site conditions at locations BH2, BH3, BH4, BH6 and BH7.

10.2 Groundwater

The groundwater results have been tabulated in Table D4, Appendix D. A summary of the results for the two rounds of sampling is provided below. It is noted that the SAC for the metals was adjusted based on the laboratory supplied “hardness” factor. The lowest hardness result was applied to the SAC as a conservative approach.

Round 1

- Concentrations of metals were below the SAC with the exception of the following contaminants in MW2:
 - o Concentrations of chromium (3 µg/L) were above the SAC (1 µg/L);
 - o Concentrations of copper (3 µg/L) were above the SAC (1.4 µg/L); and
 - o Concentrations of zinc (20 µg/L) were above the SAC (13.6 µg/L).
- Concentrations of TRH were below the SAC in all samples. It is noted that sample MW1 and MW3 had a TRH concentration of 1900 µg/L and 710 µg/L, respectively;
- Concentrations of BTEX, PAH, phenols, OCP, OPP and PCB were below the LOR and SAC in all samples; and
- Concentrations of VOC were below the SAC in all samples. It is noted that sample MW3 recorded a low concentration for trichloroethene of 4 µg/L.

Round 2

- Concentrations of metals were below the SAC with the exception of the following contaminants:
 - o Concentrations of copper in MW2 (3 µg/L) and MW3 (15 µg/L) were above the SAC (1.4 µg/L); and

- o Concentrations of zinc in MW2 (14 µg/L) and MW3 (31 µg/L) were above the SAC (13.6 µg/L).
- Concentrations of TRH were below the SAC in all samples. Samples MW1 and the corresponding duplicate had a TRH detection of 730 µg/L and 490 µg/L, respectively. TPH analysis was therefore, requested on this sample, as well as the deeper sample (MW1D). Based on the TPH results, it appears that the source may be petroleum based;
- Concentrations of BTEX, PAH, phenols and OCP were below the LOR and SAC in all samples; and
- Concentrations of VOC were below the SAC in all samples. It is noted that sample MW3 had a detection of chloroform at a low concentration of 1 µg/L.

10.3 Preliminary Waste Classification

EPA (2014) contains a six-step procedure for determining the type of waste and the waste classification. Part of the procedure, for materials not classified as special waste or pre-classified waste, is a comparison of analytical data initially against contaminant threshold (CT) values specific to a waste category. Alternatively, the data can be assessed against specific contaminant concentration (SCC) thresholds when used in conjunction with toxicity characteristic leaching procedure (TCLP) thresholds.

The following Table 11 presents the results of the six-step procedure outlined in EPA (2014) for determining the type of waste and the waste classification. This process applies to the fill (including surface soils) at the site, which do not meet the definition of virgin excavated natural material (VENM).

Table 11: Waste Classification

Step	Comments	Rationale
1. Is the waste special waste?	Potentially (see rationale)	No asbestos was detected in the soil samples analysed for asbestos. However, a fragment of ACM was observed on the ground surface within the garden bed during the site walkover. Furthermore, there is a potential for surface impacts from previous demolitions, which have not been detected through the limited sampling regime.
2. Is the waste liquid waste?	No	The filling comprised a soil matrix.
3. Is the waste "pre-classified"?	No	The filling material is not pre-classified with reference to EPA (2014).
4. Does the waste possess hazardous waste characteristics?	No	The waste was not observed to contain or considered at risk to contain explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances, corrosive substances, coal tar, batteries, lead paint or dangerous goods containers.

Step	Comments	Rationale
5. Determining a wastes classification using chemical assessment	Conducted	Refer to Table D5, Appendix D.
6. Is the waste putrescible or non-putrescible?	Non-Putrescible	The filling does not contain materials considered to be putrescible ^a .

Note: a wastes that are generally not classified as putrescible include soils, timber, garden trimmings, agricultural, forest and crop materials, and natural fibrous organic and vegetative materials (EPA, 2014).

The results of the preliminary waste classification have been tabulated against the relevant waste classification criteria from NSW EPA (2014) *Waste Classification Guidelines* in Table D5, Appendix D. A summary of the waste classification results exceeding the general solid waste (GSW) criteria without TCLP (CT1) thresholds is outlined below:

- Lead in two samples (including a retest of sample BH6/1.4-1.5) exceeded the CT1 criterion (100 mg/kg), and twelve samples (including the duplicate and two retests of the BH6/1.9-2.0 sample) exceeded the CT1 (100 mg/kg) and CT2 criterion (400 mg/kg) with concentrations ranging from 280 mg/kg to 2900 mg/kg;
- Benzo(a)pyrene in samples BH2/0.15 - 0.25 (1.2 mg/kg) and BH4/0.1-0.2 (1.8 mg/kg) exceeded the CT1 criterion (0.8 mg/kg) but was below the CT2 criterion (3.2 mg/kg). Sample BH3/0.5-0.6 (88 mg/kg) exceeded the CT1 and CT2 criterion; and
- Total PAH in sample BH3/0.5-0.6 (1200 mg/kg) exceeded the CT1 criterion (200 mg/kg) and CT2 criterion (800 mg/kg).

TCLP testing was undertaken on select samples and the results are discussed below.

Sample BH3/0.5-0.6 exceeded the SCC2 criterion for B(a)P (23 mg/kg) and total PAH (800 mg/kg), however, the TCLP result for B(a)P was below the TCLP1 thresholds (0.04 mg/L). It is noted that ash containing material was observed in this sample. Given the presence of ash in sample BH3/0.5-0.6, the NSW EPA *General Approval of the Immobilisation of Contaminants in Waste 1999/05* may be applied to fill material at this location, which states that material can be classified according to their TCLP values alone. Therefore, the fill at location BH3/0.5-0.6 could be classified as GSW (non-putrescible) with respect to the detected PAHs by applying the immobilisation. Notwithstanding, given that sample BH3/1-1.1 had a lead TCLP result (20 mg/L) exceeding the TCLP1 threshold (5 mg/L), and equivalent to the TCLP2 thresholds (20 mg/L), and taking into account that samples BH3/0.5-0.6 and BH3/1-1.1 were collected from the same fill layer, fill at location BH3 is preliminarily classified as restricted solid waste (RSW).

The lead TCLP results for samples BH6/1.4-1.5 (34 mg/L) and BH6/1.9-2.0 (62 mg/L) exceeded the lead TCLP2 thresholds (20 mg/L). Therefore, fill in the vicinity of location BH6 has a preliminary classification of hazardous waste.

Fill sampled at the remaining borehole locations (BH1, BH2, BH4, BH5 and BH7) has a preliminary classification of general solid waste (non-putrescible). In light of the above, it is considered that pockets of RSW or hazardous waste may exist in other parts of the site.

It should be noted that a fragment of ACM was observed on the ground surface, and given the observations of building rubble in the fill, it is considered that ACM may be present in the fill. Fill containing ACM would be classified as Special Waste (asbestos) - General Solid Waste (non-putrescible), Special Waste (asbestos) - Restricted Solid Waste or Special Waste (asbestos) - hazardous waste as appropriate.

The sum of concentrations of aldrin and dieldrin in sample BH7/0.5-0.6 was 2.3 mg/kg. The Scheduled Chemical Wastes Chemical Control Order 2004 defines scheduled chemical waste as “*any liquid or solid waste that contains one or more of the chemicals listed in Schedule A where the total concentration of those chemicals is more than two milligrams per kilogram*”. Soils surrounding BH7 (the extent of which would need to be further delineated) would need to be managed according to The Scheduled Chemical Wastes Chemical Control Order 2004. It is noted that given the age of the buildings, it is not uncommon for these types of scheduled chemical waste to be present under building footprints and hence may be present under building footprints in other areas of the site.

The information provided in this section does not constitute a formal waste classification for off-site disposal purposes. Should there be soils requiring off-site disposal a formal waste classification assessment, utilising the information in this report, must be undertaken and reported.

11. Discussion

Based on the review of the site history information, it is evident that the site and surrounds have been used largely for commercial / mixed land use since the early 1900s. Several “high risk” business activities including dry cleaners, motor garages and printing services were historically located either on-site or upgradient and within 150 m of the site, therefore, were identified as potential sources of contamination to the site.

The historical aerial photograph review indicated that parts of the site have undergone construction / demolition works over the years. Considering the age of the former structures, it is considered likely that hazardous building materials, including ACM were used in the buildings. The demolition of the structures could therefore impact the area, especially if the demolition practices were poorly controlled. Furthermore, during the site walkover, a fragment of ACM was found in the garden bed, which is likely from the deterioration of existing structures.

The current investigation involved the drilling of seven boreholes across the site. Relatively shallow fill to depths of up to 0.3 m was encountered in boreholes BH1 and BH5, and deeper fill to depths of up to 2 m (typically 1.4 m) was encountered in BH2 to BH4, BH6 and BH7, with BH6 and BH7 terminating in fill due to maximum reach of hand tools, and refusal, respectively. Anthropogenic inclusions were encountered in the fill including trace concrete gravel (BH1), trace brick fragments (BH2), trace glass fragments (BH4), and trace tile and PVC fragments (BH6). Timber fragments, concrete gravels, terracotta, trace charcoal and brick fragments were observed in BH7, located below the floor void. Ash and / or charcoal were observed in BH3 at depths of 0.05 m to 1.2 m.

The soil laboratory results indicated concentrations of TRH and PAH which exceeded the SAC at location BH3/0.5-0.6, which was considered to be a contamination hotspot. Further TPH analysis was conducted on sample BH3/0.5-0.6, and based on the result, it appears the source may be petroleum-based. The laboratory results at location BH3 also indicated high lead leachability at depths of 1-

1.1 m. Concentrations of lead in sample BH6 also exceeded the SAC. The ASLP results for select samples indicated some leachability of metals, namely lead, chromium, copper and zinc under typical site conditions. Based on the soil results, DP considers that further investigation and/or remediation is warranted, in particular at locations BH3 and BH6.

The groundwater laboratory results for the first round of sampling indicated detections of TRH in sample MW1 and MW3 and a VOC detection in MW3 (albeit at low concentrations and below the SAC). Given the wells had not sufficiently recharged, as indicated by the difference in water levels between developing and sampling, a second round of development and sampling was undertaken to assess the representativeness of the groundwater results from the first monitoring round. The laboratory results from the second round also indicated a detection of TRH in sample MW1, and VOC in sample MW3, however, the results were lower than in the first round. The second round of results are considered to be more reflective of the groundwater conditions at the site given (1) the stabilisation of groundwater conditions; (2) the wells having been developed twice; and (3) recharge of the groundwater encountered, compared to the first round.

Further TPH analysis was requested on sample MW1, as well as the deeper sample (MW1D) in the second sampling round. Based on the TPH results, it appears that the source may be petroleum based, however, it is unclear what the point source of contamination is. It is considered that it may be due to an off-site source given the local topography and anticipated regional groundwater direction to the south. The groundwater results in both rounds had elevated concentrations of the metals chromium, copper and zinc above the SAC. However, these results are considered typical of groundwater conditions in an urban setting.

Whilst the recorded ASLP heavy metal concentrations (i.e., chromium, copper, lead, mercury, zinc) are above the respective GIL, which may indicate a potential to impact groundwater, the groundwater results nonetheless indicate that the soil contamination does not appear to have migrated into groundwater. This is likely due to the clay profile present between the base of the fill and the water table. Moreover, given the proposed development is to comprise hardstand across the full extent of the site, the potential for surface water infiltration and disturbance of the impacted soils is considered to be low.

DP considers further soil investigation is warranted, in particular at location BH3 and BH6 and with respect to groundwater, although the results did not exceed the SAC (except for metals, attributed to typical urban groundwater conditions), a further round of sampling is recommended to confirm the lower concentrations for TRH and VOC recorded in the second round of groundwater sampling.

12. Conclusions and Recommendations

DP considers the site can be made suitable for the proposed development subject to the following recommendations:

- **Soil** - Further testing of soils surrounding BH3 and BH6 to delineate the extent of contamination identified, followed by remediation which is likely to involve either (a) excavation of impacted soil and off-site disposal, or (b) on-site capping along with a long-term environmental management plan. Given the proposed development is to be covered in concrete hardstand, DP anticipates that a combination of the of these approaches may be the preferred remediation strategy;

- **Groundwater** - Another round of groundwater sampling is recommended to confirm the TRH and VOC concentrations. DP notes that this sampling is due to be completed in October 2020;
- **Remediation Action Plan** - A remediation action plan (RAP) is to be prepared following the additional investigations recommended above. The RAP will outline the procedures required to render the site suitable for the proposed development. DP notes that the RAP is currently being prepared and is due to be completed in October 2020 ;
- **Existing structures** - A hazardous building material survey by an appropriately qualified and licensed occupational hygienist should be conducted prior to demolition of existing structures;
- **Waste Classification** - A detailed waste classification assessment should be undertaken during construction works to classify fill material and natural soils for off-site disposal or potential re-use, should these materials be required for removal as part of remediation, or surplus to the development needs. Further delineation of soils surrounding BH3 and BH6 is required to delineate the extent of RSW and hazardous waste, respectively. Further delineation should also be undertaken at BH7 to delineate the extent of scheduled chemical waste; and
- **Unexpected Finds** - DP recommends the incorporation of an unexpected finds protocol (UFP) to establish a strategy / management procedure to be followed during construction works, should unexpected finds of contamination be uncovered. It is envisaged that the UFP could be documented in the RAP.

13. Limitations

Douglas Partners (DP) has prepared this report for this project at 90-102 Regent Street, Redfern in accordance with DP's proposal SYD190418.P.001.Rev2 dated 29 August 2019 and acceptance received from Allen Jack + Cottier Architects Pty Ltd dated 2 July 2019 on behalf of the client, The Trust Company (Australia) Limited ATF WH Regent Trust. The work was carried out under DP's Conditions of Engagement (with added Trustee Limitation of Liability Clause). This report is provided for the exclusive use of The Trust Company (Australia) Limited ATF WH Regent Trust 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.

Asbestos was detected on the ground surface and building rubble was observed at certain borehole locations. 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, or to parts of the site being inaccessible and not available for inspection/sampling. 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

This report must be read in conjunction with all of the attached notes 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.

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 environmental 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

Notes 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

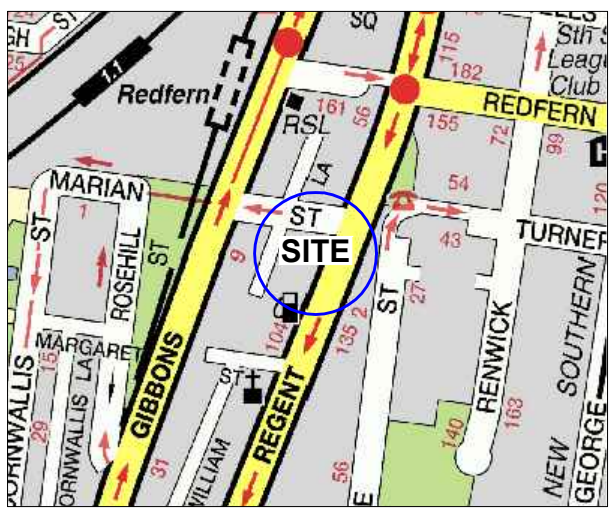
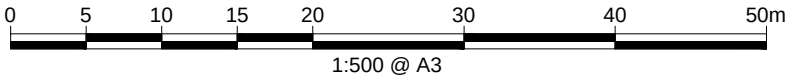
Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate 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.



NOTE:
1: Base image from Nearmap.com (Dated 04.03.2019)

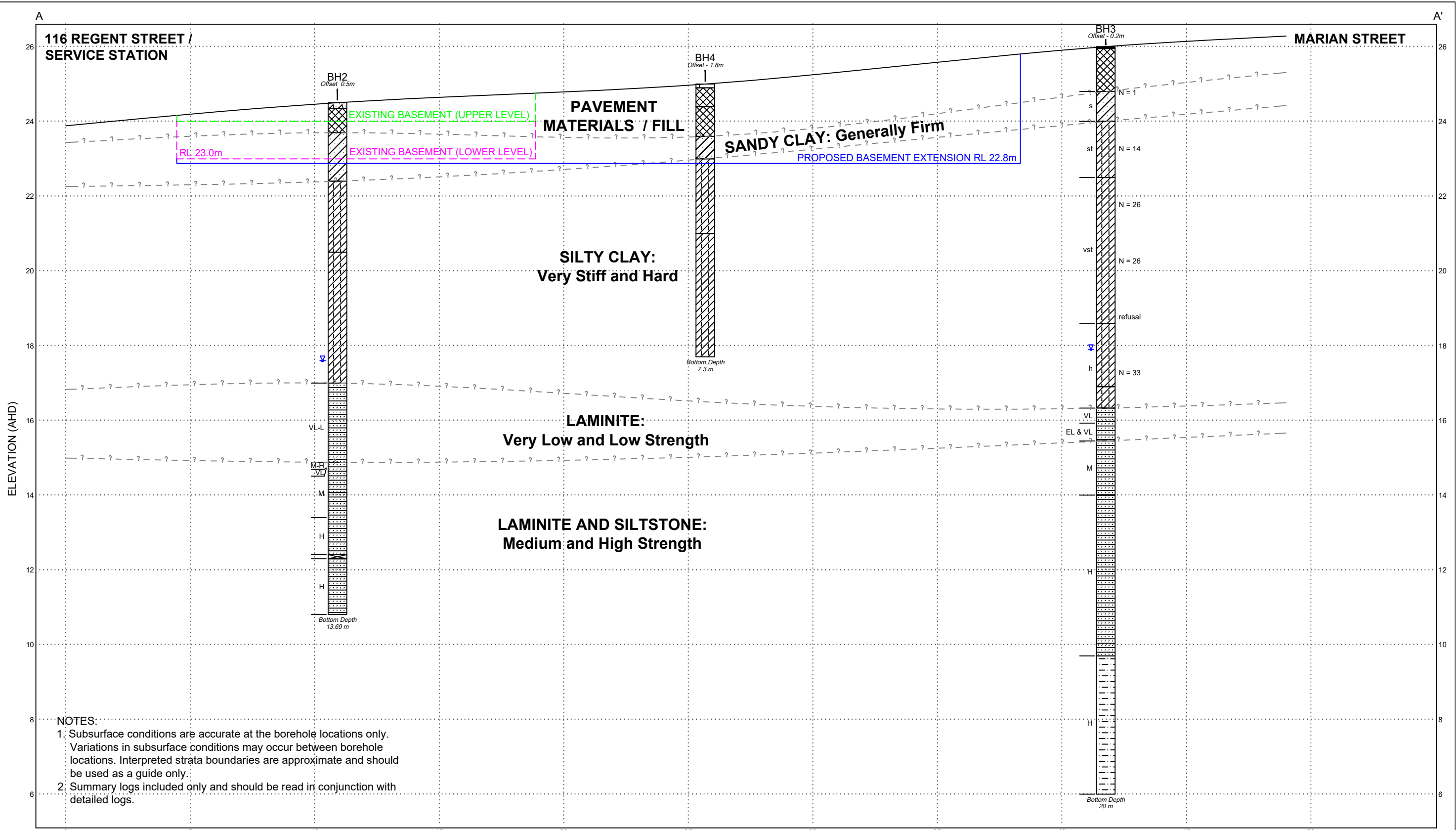


Locality Plan

LEGEND

- Auger borehole to rock
- Rock cored borehole/ Groundwater well
- Shallow hand auger borehole
- PACM - Material Surface Sample
- Site Boundary
- Geotechnical Cross-Section A-A'





LEGEND

	Core Loss		Fill		Silty Clay
	Asphaltic Concrete		Laminite		
	Bricks		Sandy Clay		
	Concrete		Siltstone		

ROCK STRENGTH

VL - Very low
L - Low
M - Medium
H - High

SOIL STRENGTH

vl - Very loose
l - Loose
md - Medium dense
d - Dense
vd - Very dense

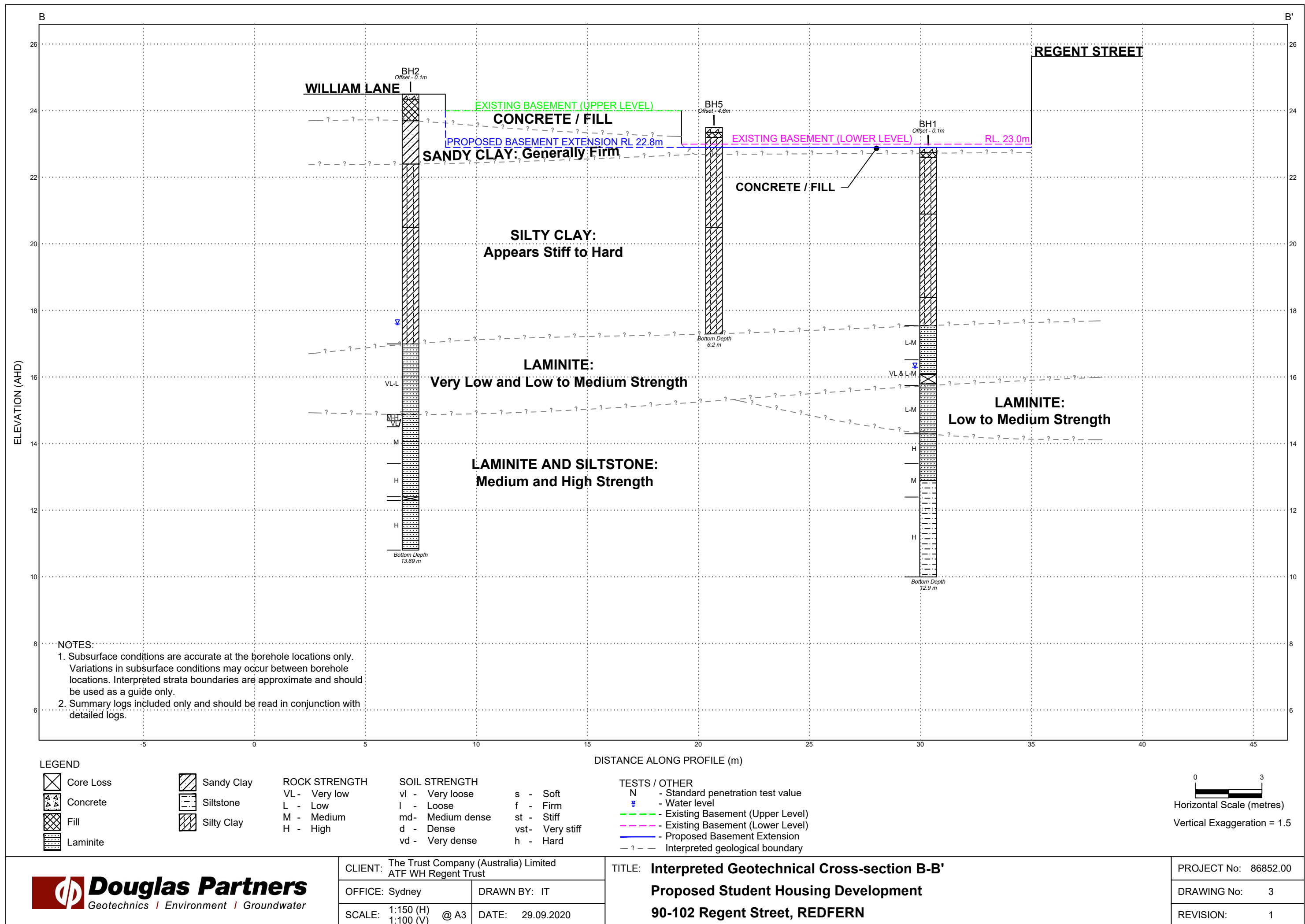
TESTS / OTHER

N - Standard penetration test value
W - Water level
- - - Existing Basement (Upper Level)
- - - Existing Basement (Lower Level)
- - - Proposed Basement Extension
- ? - Interpreted geological boundary

Horizontal Scale (metres)

0 3

Vertical Exaggeration = 1.5



Appendix B

Site Photographs



Photograph 1: Basement carpark used as a storage area



Photograph 2: Rear of No. 90 Regent Street



Site Photographs

**Proposed Student Housing
Development**

90 – 102 Regent Street Redfern

CLIENT: The Trust Company
(Australia) Limited

PROJECT: 86852.01

PLATE No: 1

REV: A

DATE: 19/9/2019



Photograph 3: Rear of No. 92 Regent Street



Photograph 4: No. 92 Regent Street - Flaking Paint



Photograph 5: Interior of No. 92 Regent Street



Photograph 6: Rear of No. 94 Regent Street



Site Photographs

**Proposed Student Housing
Development**

90 – 102 Regent Street Redfern

CLIENT: The Trust Company
(Australia) Limited

PROJECT: 86852.01

PLATE No: 3

REV: A

DATE: 19/09/2019



Photograph 7: Interior of No. 94 Regent Street



Photograph 8: Regent Street, Street View



Site Photographs

**Proposed Student Housing
Development**

90 – 102 Regent Street Redfern

CLIENT: The Trust Company
(Australia) Limited

PROJECT: 86852.01

PLATE No: 4

REV: A

DATE: 19/9/2019



Photograph 9: Ash-containing material in BH3

 Douglas Partners Geotechnics Environment Groundwater	Site Photographs Proposed Student Housing Development 90 – 102 Regent Street Redfern	PROJECT: 86852.01
		PLATE No: 5
		REV: A
	CLIENT: The Trust Company (Australia) Limited	DATE: 19/9/2019

Appendix C

Site History Information



ENVIRO-SCREEN

Property Details

Lot 1, 2 & 3 DP3954, Lot 1 DP184335 & SP7425

90 - 102 Regent Street, Redfern NSW

Search Date: 16 July 2019

Understanding your Report

Your Report has been produced by Land Insight and Resources (LI Resources).

Your Report is based on information available from public databases and sources at the date of reporting. The information gathered relates to land that is within a **200 to 2000 m radius** (buffer zone) from the boundaries of the Property. A smaller or larger radius may be applied for certain records (as listed under records and as shown in report maps).

While every effort is made to ensure the details in your Report are correct, LI Resources cannot guarantee the accuracy or completeness of the information or data provided.

The report provided by LI Resources includes data listed on page 3 (table of contents). All sources of data and definitions are provided on the report maps and as listed in the Product Guide (Attached). For a full list of references, metadata, publications or additional information not provided in this report, please contact LI Resources at info@liresources.com.au.

The report does not include title searches; dangerous good searches or; property certificates (unless requested); or information derived from a physical inspection, such as hazardous building materials, areas of infilling or dumping/spilling of potentially contaminated materials. It is important to note that these documents and an inspection can contain information relevant to contamination that may not be identified by this Report.

This Report, and your use of it, is regulated by LI Resources Terms and Conditions (See LIR Product Guide).

Land Insight and Resources

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INDEX

Section 1 - Property Setting	4
1.1 SITE LOCATION MAP AND SENSITIVE RECEPTORS Map 1 (500m Buffer)	4
1.2 PLANNING CONTROLS Map 2 (onsite)	4
Environmental Planning Instruments	4
1.3 SOIL LANDSCAPE Map 3a (onsite)	5
1.4 ACID SULFATE SOIL Map 3a (onsite)	5
1.5 ATLAS OF AUSTRALIAN ACID SULFATE SOIL AND SALINITY Map 3b (onsite)	5
1.6 GEOLOGY AND TOPOGRAPHY Map 4 (onsite)	7
Geology	7
Topography	7
1.7 HYDROGEOLOGY AND GROUNDWATER BORES Map 5a (500m - 2000m Buffer)	7
1.8 HYDROGEOLOGY AND OTHER BOREHOLES Map 5b (2000m Buffer)	11
Groundwater Dependent Ecosystems	11
Section 2 Environmental Records Summary – Contamination and Potentially Contaminating Activities	13
2.1 PFAS INVESTIGATION PROGRAM Map 5b (2000m Buffer)	13
2.2 CONTAMINATED LAND RECORD OF NOTICES ISSUED UNDER THE CLM ACT 1997 Map 6 (1000m Buffer)	13
2.3 SITES NOTIFIED AS CONTAMINATED TO THE NSW EPA Map 6 (1000m Buffer)	13
2.4 OTHER CONTAMINATION ISSUES	14
Defence Sites (current and former)	14
James Hardie Asbestos Waste Contamination Legacy	15
Former Uranium Processing Site at Hunters Hill (NSW)	15
Former Gasworks Sites	15
2.5 POTENTIALLY CONTAMINATING ACTIVITIES Map 7a (500m Buffer)	15
Aviation Fuel Depots/Terminals	15
Aviation Rescue Fire Fighting Facilities (ARFF)	15
Derelict Mines and Quarries	15
Dry Cleaners	15
Landfills (Legacy)	16
Liquid Fuel Depots/Terminals	16
Power Stations	16
Service Stations	16
Substation / Switching Stations	16
Telephone Exchanges	16
Waste Management Facilities	16
Wastewater Treatment Facilities	17
Unexploded Ordnance (UXO) Sites - Department of Defence (DoD)	17
2.6 OTHER CURRENT POTENTIALLY CONTAMINATING ACTIVITIES Map 7b (200m Buffer)	17
Current Commercial and Trade Data	17
Underground Storage Tank (UST)	17
Parramatta River Catchment Land Use Areas – Zoning Changes	18
Parramatta River Catchment Land Use Areas – Reclamation Areas	18
2.7 NPI INDUSTRIAL FACILITIES Map 8 (500m Buffer)	18
2.8 LICENSING UNDER THE POEO ACT 1997 Map 8 (500m Buffer)	18
Licences	18
Delicensed Premises still Regulated by EPA, Licences Surrendered, Clean Up and Penalty Notices	18
2.9 PUBLIC REGISTER OF PROPERTIES AFFECTED BY LOOSE-FILL ASBESTOS INSULATION Map 8 (onsite)	19
HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA	20
1932 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)	20
1940 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)	20
1950 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)	23
1965 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)	26
1970 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)	30

<i>1974 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)</i>	35
<i>1980 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)</i>	38
<i>1990 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA (200m Buffer)</i>	41
Section 3 - Other Environmental Constraints	45
<i>3.1 FEDERAL, STATE AND LOCAL HERITAGE Map 9 (200m Buffer)</i>	45
Local Environment Plan (LEP) Heritage	45
National Heritage List (NHL)	45
Register of the National Estate (RNE)	45
Non-Aboriginal heritage item (Local)	45
Non-Aboriginal heritage item (SHR)*	45
Commonwealth Heritage List (CHL)	46
World Heritage Area (WHA)	46
<i>3.2 NATURAL HAZARDS & COASTAL MANAGEMENT Map 10 (500m Buffer)</i>	46
<i>Bush Fire Prone Land (BPL)</i>	46
<i>Fire History (Wildfires and Prescribed Burns)</i>	46
<i>Flood Hazard Area</i>	46
<i>3.3 STATE ENVIRONMENTAL PLANNING POLICY (COASTAL MANAGEMENT) Map 10 (500m Buffer)</i>	46
ATTACHMENTS	
Attachment A - Report Maps	
Attachment B - Historical Imagery	
LIR Product Guide and Terms and Conditions	

Section 1 - Property Setting

1.1 SITE LOCATION MAP AND SENSITIVE RECEPTORS

Map 1 (500m Buffer)

Sensitive receptor	Category	Distance (m)*	Direction
Jack Floyd Reserve	Park	50.2	north-east
Uniting Church	Place Of Worship	53.6	south-west
Club Redfern	Club	77.6	north-west
Park	Park	78.4	north-west
Redfern Neighbourhood Service Centre	Community Facility	190.1	north-east
The Salvation Army Community Centre	Community Facility	197.4	south-east
Daniel Dawson Reserve	Park	212.3	south-west
Seda College	Special School	214.3	south-east
Key College	High School	218.3	north-west
Redfern Fire Station	Fire Station	227.1	north-east
Redfern Jarjum College	Primary School	270.5	north-east
Catholic Church	Place Of Worship	282.1	north-east
Redfern Community Centre	Community Facility	295.2	north-west
Yellowmundi Park	Park	314.4	north-west
Redfern Community Health Centre	Medical Centre	340.4	north-east
Redfern Early Childhood Centre	Child Care Centre	372.9	north-east
Aboriginal Children's Service	Child Care Centre	398.9	north-east
Sydney Ambulance Control Centre	Ambulance Station	404.1	south-west
SDN Redfern Children's Education and Care Centre	Child Care Centre	410.2	south-east
Redfern Town Hall	Community Facility	433.9	north-east
Reconciliation Park	Park	448.9	north-east
Vice Chancellors Oval	Sports Field	462.4	south-west
Aboriginal Children's Service	Child Care Centre	489.4	north-east
Charles Keenan Reserve	Park	521.2	north-west

*Distance from the sensitive receptor point feature to the site boundary centroid.

1.2 PLANNING CONTROLS

Map 2 (onsite)

Zoning	E	Business Zone - Commercial Core
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Environmental Planning Instruments

Type	Local Environmental Plan	Classification
Not identified	-	-

1.3 SOIL LANDSCAPE

Map 3a (onsite)

Soil Landscape	AEtg	TUGGERAH	Soil Group	AEOLIAN
Description	Landscape- gently undulating to rolling coastal dunefields. Local relief to 20 m, slope gradients generally 1-10%, but occasionally up to 35%. North— south oriented dunes with convex narrow crests, moderately inclined slopes and broad gently inclined concave swales. Extensively cleared open-forest and eucalypt/apple woodland. Soils- deep (>200 cm) Podzols (Uc2.31, Uc2.32, Uc2.34) on dunes and Podzols/Humus Podzol intergrades (Uc2.23, Uc2.21, Uc2.3, Uc4.33) on swales. Limitations -extreme wind erosion hazard, non-cohesive, highly permeable soil, very low soil fertility, localised flooding and permanently high watertables.			

1.4 ACID SULFATE SOIL

Map 3a (onsite)

	On the Property?	Within Record Search Buffer?
Acid Sulfate Soil Risk Maps (ASS) (Table 1.5.1)	Class 5	Class 5

1.5 ATLAS OF AUSTRALIAN ACID SULFATE SOIL AND SALINITY

Map 3b (onsite)

ASRIS Atlas of Australian Sulfate Soils (Table 1.5.2)	Cq(p4)	ASS in inland lakes, waterways, wetlands and riparian zones	Probability of Occurrence	Extremely low probability of occurrence
Hydrologic Soil Group (Table 1.5.3)	A - high			
Salinity Hazard	Not identified			

Table 1.5.1. Classification scheme in the ASS Planning Maps

Class of Land as shown on ASS Planning Maps	
1	Any works
2	Works below natural ground surface Works by which the watertable is likely to be lowered
3	Works beyond 1m below natural ground surface Works by which the watertable is likely to be lowered beyond 1m below natural ground surface
4	Works beyond 2m below natural ground surface Works by which the watertable is likely to be lowered beyond 2m below natural ground surface
5	Works within 500m of adjacent Class 1, 2, 3, or 4 land which are likely to lower the watertable below 1m AHD on adjacent Class 1, 2, 3 or 4 land.

For each class of land, the maps identify the type of works likely to present an environmental risk if undertaken in the particular class of land. If these types of works are proposed, further investigation is required to determine if ASS are actually present and whether they are present in such concentrations as to pose a risk to the environment.

Table 1.5.2. Australian Atlas of Acid Sulfate Soils¹ (ASS) map (CSIRO/NatCASS)

Code	Distinguishing soil/sediment properties, vegetation, landforms, or other characteristics
Probability of Occurrence of ASS ¹	
A	High Probability of occurrence - (>70% chance of occurrence in mapping unit)
B	Low Probability of occurrence - (6-70% chance of occurrence in mapping unit)
C	Extremely low probability of occurrence - (1-5% chance of occurrence in mapping unit)
D	No probability of occurrence - (<1% chance of occurrence in mapping unit)

Code	Distinguishing soil/sediment properties, vegetation, landforms, or other characteristics
Probability of Occurrence of ASS¹	
x	Disturbed ASS¹ terrain - (ASS ¹ material present below urban development).
u	Unclassified - (Insufficient information to classify map unit)
Zones	
a	Potential acid sulfate soil material and/or Monosulfidic Black Ooze (MBO).
b, c	Potential acid sulfate soil generally within upper 1 m.
c, d, e	ASS ¹ generally within upper 1 m.
f	ASS ¹ generally below 1 m from the surface
g	ASS ¹ , generally below 3 m from the surface.
h	ASS ¹ generally within 1 m of the surface.
i, j	ASS ¹ generally below 1 m of the surface.
k	ASS ¹ material and/or Monosulfidic Black Ooze (MBO).
l, m, n, o, p, q	ASS ¹ generally within upper 1 m in wet / riparian areas.
Subscripts to codes	
(a)	Actual acid sulfate soil (AASS) = sulfuric material.
(p)	Potential acid sulfate soil (PASS) = sulfidic material.
(q)	Monosulfidic Black Ooze (MBO) is organic ooze enriched by iron monosulfides.
Confidence levels	
(1)	All necessary analytical and morphological data are available
(2)	Analytical data are incomplete but are sufficient to classify the soil with a reasonable degree of confidence
(3)	No necessary analytical data are available, but confidence is fair, based on a knowledge of similar soils in similar environments
(4)	No necessary analytical data are available, and classifier has little knowledge or experience with ASS, hence classification is provisional

¹Acid Sulfate Soils (ASS) are all those soils in which sulfuric acid may be produced, is being produced, or has been produced in amounts that have a lasting effect on main soil characteristics (Pons 1973). Acid sulfate soil (ASS) may include PASS or AASS + PASS. Potential acid sulfate soil (PASS) = sulfidic material. Actual acid sulfate soil (AASS) = sulfuric material.

Table 1.5.3. Hydrologic Soil Group

Code	Soil Group Characteristics
A	Soils having high infiltration rates, even when thoroughly wetted and consisting chiefly of deep, well to excessively-drained sands or gravels. These soils have a high rate of water transmission.
B	Soils having moderate infiltration rates when thoroughly wetted and consisting chiefly of moderately deep to deep, moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.
C	Soils having slow infiltration rates when thoroughly wetted and consisting chiefly of soils with a layer that impedes downward movement of water, or soils with moderately fine to fine texture. These soils have a slow rate of water transmission.
D	Soils having very slow infiltration rates when thoroughly wetted and consisting chiefly of clay soils with a high swelling potential, soils with a permanent high water table, soils with a claypan or clay layer at or near the surface, and shallow soils over nearly impervious material. These soils have a very slow rate of water transmission.

1.6 GEOLOGY AND TOPOGRAPHY

Map 4 (onsite)

Geology

Map Sheet	Symbol	Formation	Group	Era	Period	Description
Sydney 1:100,000 Geological Map	Qhd	undifferentiated	Wianamatta Group	Cainozoic	Quaternary	Medium to fine-grained marine sand with podsols

Topography

Topography	26mAHD
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1.7 HYDROGEOLOGY AND GROUNDWATER BORES

Map 5a (500m - 2000m Buffer)

	On the Property?	Within Record Search Buffer?
Aquifer Type	Porous, extensive highly productive aquifers	Porous, extensive highly productive aquifers
Drinking Water Catchments	Not identified	Not identified
Protected Riparian Corridor	Not identified	Not identified
UPSS Environmentally sensitive zone	Southern NSW area UPSS	Southern NSW area UPSS
Wetlands	Not identified	Not identified
Groundwater Bores	Not identified	Yes, see 1.7.1 and 1.7.2

Table 1.7.1. Groundwater Bore Details

Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL ¹ (m)	Salinity ¹	Yield ¹ (L/s)	Distance (m)	Direction
GW071907	Recreational	15-May-08	180	180	11.6	345 mg/L	0.1	533.1	south-east
GW106192	Household	10-Dec-04	6	6	4	Good	0.5	595.5	south
GW114895	Monitoring	08-Feb-13	6	6	4.2	-	-	699.9	south
GW113885	Monitoring	20-Aug-04	7	7	-	-	-	745.1	north
GW113882	Monitoring	20-Aug-04	6.1	6.1	-	-	-	747.2	north
GW113890	Monitoring	09-Oct-05	6	6	-	-	-	748.0	north
GW113891	Monitoring	09-Oct-05	6.8	6.8	-	-	-	748.0	north
GW113881	Monitoring	20-Aug-04	6.1	6.1	-	-	-	748.3	north

Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL ¹ (m)	Salinity ¹	Yield ¹ (L/s)	Distance (m)	Direction
GW113883	Monitoring	20-Aug-04	6.1	6.1	-	-	-	748.5	north
GW113892	Monitoring	09-Oct-05	7	7	-	-	-	748.6	north
GW113893	Monitoring	11-Oct-05	8.5	8.5	-	-	-	749.3	north
GW113886	Monitoring	01-Oct-04	5.8	5.8	-	-	-	753.3	north
GW113859	Monitoring	15-Sep-03	6.1	6.1	-	-	-	755.7	north
GW113862	Monitoring	28-Jul-03	3.8	3.8	-	-	-	756.3	north
GW113856	Monitoring	23-Jul-03	6.2	6.2	-	-	-	758.5	north
GW113855	Monitoring	22-Jul-03	5	5	-	-	-	758.9	north
GW113863	Monitoring	16-Sep-03	4.6	4.6	-	-	-	760.3	north
GW113875	Monitoring	30-Jul-03	7.5	7.5	-	-	-	760.5	north
GW113884	Monitoring	20-Aug-04	6.8	6.8	-	-	-	760.5	north
GW109500	Monitoring	01-Mar-07	4.8	4.8	2.3	-	-	760.5	north
GW113889	Monitoring	05-Oct-04	6.7	6.7	-	-	-	763.0	north
GW113874	Monitoring	19-Sep-03	7	7	-	-	-	763.6	north
GW113864	Monitoring	22-Jul-03	4.5	4.5	-	-	-	764.3	north
GW113860	Monitoring	16-Sep-03	6.5	6.5	-	-	-	765.2	north
GW113873	Monitoring	26-Jul-03	6	6	-	-	-	765.4	north
GW113857	Monitoring	23-Jul-03	6	6	-	-	-	767.0	north
GW113865	Monitoring	21-Jul-03	6.5	6.5	-	-	-	767.3	north
GW113887	Monitoring	05-Oct-04	5.7	5.7	-	-	-	767.6	north
GW113858	Monitoring	19-Sep-03	6.3	6.3	-	-	-	768.5	north
GW113866	Monitoring	18-Feb-03	3	3	-	-	-	770.3	north
GW113888	Monitoring	05-Oct-04	5.5	5.5	-	-	-	771.2	north

Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL ¹ (m)	Salinity ¹	Yield ¹ (L/s)	Distance (m)	Direction
GW113867	Monitoring	22-Jul-03	3.5	3.5	-	-	-	773.3	north
GW113868	Monitoring	18-Feb-14	3.7	3.7	-	-	-	777.3	north
GW113869	Monitoring	29-Jul-03	6	6	-	-	-	780.3	north
GW113880	Monitoring	20-Aug-04	5	5	-	-	-	782.6	north
GW113870	Monitoring	07-Nov-03	4.8	4.8	-	-	-	785.3	north
GW113871	Monitoring	08-Nov-03	6	6	-	-	-	788.3	north
GW113879	Monitoring	25-Jul-03	5.3	5.3	-	-	-	788.6	north
GW113878	Monitoring	07-Nov-03	7	7	-	-	-	788.8	north
GW113872	Monitoring	16-Sep-03	8	8	-	-	-	789.9	north
GW113877	Monitoring	28-Jul-03	5.5	5.5	-	-	-	790.0	north
GW113876	Monitoring	25-Jul-03	7.8	7.8	-	-	-	790.3	north
GW113861	Monitoring	30-Jul-03	6.5	6.5	-	-	-	811.5	north
GW109503	Monitoring	01-Mar-07	5.2	5.2	2.24	-	-	815.6	north
GW111958	Monitoring	27-Apr-12	6	6	3.49	-	-	850.6	south
GW109502	Monitoring	01-Mar-07	6.4	6.4	2.18	-	-	862.2	north
GW109501	Monitoring	01-Mar-07	6	6	2.3	-	-	927.8	north
GW105938	Unknown	20-May-05	0	0	-	-	-	951.2	south-west
GW113039	Monitoring	17-Oct-13	5	5	-	-	-	953.2	south
GW113037	Monitoring	17-Nov-08	5	5	-	-	-	953.9	south
GW113038	Monitoring	17-Feb-09	5	5	-	-	-	959.6	south
GW113036	Monitoring	17-Nov-08	4	4	-	-	-	978.3	south
GW113035	Monitoring	17-Nov-08	5	5	-	-	-	993.1	south
GW071907	Recreational	15-May-08	180	180	11.6	345 mg/L	0.1	533.1	south-east

Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL ¹ (m)	Salinity ¹	Yield ¹ (L/s)	Distance (m)	Direction
GW106192	Household	10-Dec-04	6	6	4	Good	0.5	595.5	south
GW114895	Monitoring	08-Feb-13	6	6	4.2	-	-	699.9	south
GW113885	Monitoring	20-Aug-04	7	7	-	-	-	745.1	north
GW113882	Monitoring	20-Aug-04	6.1	6.1	-	-	-	747.2	north
GW113890	Monitoring	09-Oct-05	6	6	-	-	-	748.0	north
GW113891	Monitoring	09-Oct-05	6.8	6.8	-	-	-	748.0	north

¹The most recent data available from NSW Department of Industry – Lands & Water Division.

Table 1.7.2. Groundwater Bore Driller Lithology Details

Groundwater Bore ID	From Depth (m)	To Depth (m)	Lithology	Description	Distance (m)	Direction
GW071907	0	3	<Null>	Sandy Clay	533.09	south-east
	3	8.5	<Null>	Clay	533.09	south-east
	8.5	24	<Null>	Shale	533.09	south-east
	24	24.5	<Null>	Sandstone Grey	533.09	south-east
	24.5	24.7	<Null>	Sandstone Grey Fractured	533.09	south-east
	24.7	44	<Null>	Sandstone Grey	533.09	south-east
	44	55	<Null>	Sandstone Quartz	533.09	south-east
	55	55.5	<Null>	Sandstone Grey Fractured	533.09	south-east
	55.5	82	<Null>	Sandstone Grey	533.09	south-east
	82	85	<Null>	Sandstone Quartz	533.09	south-east
	85	128	<Null>	Sandstone Grey	533.09	south-east
	128	130	<Null>	Sandstone Quartz	533.09	south-east
	130	138	<Null>	Sandstone Grey	533.09	south-east
	138	154	<Null>	Sandstone Quartz	533.09	south-east
	154	180	<Null>	Sandstone Grey	533.09	south-east
GW106192	0	0.3	TPSL	Topsoil	595.49	south
	0.3	2.2	SAND	Sand, Yellow	595.49	south
	2.2	2.3	ROCK	Rock, Coffee	595.49	south
	2.3	4.5	SAND	Sand, Brown	595.49	south
	4.5	6	SAND	Sand, Grey	595.49	south
GW114895	0	0.15	Fill	Concrete	699.91	south
	0.15	1.2	Fill	FILL; Sandy Clay/Clay Sand With Gravels, Brown/Black, Medium Grained Sand, Gravel (5-50mm, 10-20%), Medium Dense To Dens	699.91	south
	1.2	1.8	Sand	Sand, Yellow/White, Medium Grained, Loose	699.91	south
	1.8	2.4	Sand	Sand, Yellow, Medium Grained, Medium Dense	699.91	south
	2.4	2.9	Sand	Sand; Light Brown, Medium Grained, Medium Dense	699.91	south

	2.9	6	Sand	Sand; Grey White, Becoming Saturated At 4.5m, Medium Dense - Dense	699.91	south
GW111958	0	0.32	Fill	Concrete	850.60	south
	0.32	1.4	Fill	Fill, Loose, Dark Grey/Black Clayey Sand And Sandstone	850.60	south
	1.4	6	Sand	Sand, Loose White Fine Grained	850.60	south

1.8 HYDROGEOLOGY AND OTHER BOREHOLES

Map 5b (2000m Buffer)

	On the Property?	Within Record Search Buffer?
Groundwater Vulnerability	Not identified	Not identified
Groundwater Exclusion Zones (Botany GMZ ¹)	Botany Groundwater Management Zone 2	Botany Groundwater Management Zone 2
Hydrogeologic Unit	Late Permian/Triassic sediments (porous media - consolidated)	Late Permian/Triassic sediments (porous media - consolidated) Surficial Sediment Aquifer (porous media - unconsolidated)
Other known borehole investigations (500m buffer)	Not identified	Yes, see 1.8.1

1 - Botany Groundwater Management Zones (BGMZ): Zone 1 – the use of groundwater remains banned; Zones 2 to 4 – domestic groundwater use is banned, especially for drinking water, watering gardens, washing windows and cars, bathing, or to fill swimming pools

Groundwater Dependent Ecosystems

Name	On the Property?	Within Record Search Buffer?
Ecosystems that rely on the Surface expression of Groundwater	Not identified	Not identified
Ecosystems that rely on Subsurface presence of Groundwater	Not identified	Not identified

Table 1.8.1. Other known borehole investigations (Coal Seam Gas (CSG), Petroleum Wells and Other Boreholes) (500m buffer)

Borehole ID	Purpose	Project	Client/License	Date Drilled	Depth (m)	Distance (m)	Direction
ENSR_BH102 / MW102	borehole	BP Connect Redfern	BP Australia	10-Dec-08	8	14	south
ENSR_BH101 / MW 101	borehole	BP Connect Redfern	BP Australia	11-Dec-08	5.5	28.3	south
ENSR_BH104 / MW104	borehole	BP Connect Redfern	BP Australia	10-Dec-08	6	33.9	south
ENSR_BH103 / MW103	borehole	BP Connect Redfern	BP Australia	10-Dec-08	6.1	39.6	south
NWRL_R221	borehole	NWRL_R221 Proposed Commercial Development RSL Redfern	DeiCorp Pty Ltd	01-Mar-09	0	76.4	north
C100_5-113	borehole	North Eveleigh Affordable Housing Project		05-Jun-08	2.4	135.3	south-east
C100_5-114	borehole			05-Jun-08	2.4	138.8	south-east
BHC7	borehole	NWRL_R337 Redfern Station Wet Weather Overflow Reduction	Agility	13-Oct-07	9.92	294.7	north
BHC8	borehole		Agility	13-Oct-07	9.63	300.6	north
BHC9	borehole		Agility	13-Oct-07	9.18	311	north
R412_BH3	borehole	NWRL_R412		26-May-07	0.9	334.4	north-east

Borehole ID	Purpose	Project	Client/License	Date Drilled	Depth (m)	Distance (m)	Direction
R412_BH1	borehole	ProposedCommunityHealthCentre	Atkinson Capital Insight	26-May-07	5	336.4	north-east
NWRL_R412	borehole			01-Jul-07	0	336.4	north-east
R412_BH2	borehole			26-May-07	0.9	340.7	north-east
BH04	borehole	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	03-Aug-15	7.95	355	north
ST01	borehole			18-Sep-15	0	355	north
NWRL_R222	borehole	NWRL_R222_Commerical and Student Accomodation	Hudson Square Pty Ltd	10-Mar-10	0	416.4	north
ENSR_BH102 / MW102	borehole	BP Connect Redfern	BP Australia	10-Dec-08	8	14	south

Section 2 Environmental Records Summary – Contamination and Potentially Contaminating Activities

2.1 PFAS INVESTIGATION PROGRAM

Map 5b (2000m Buffer)

Site	Address	Distance (m)	Direction
Not identified	-	-	-

2.2 CONTAMINATED LAND RECORD OF NOTICES ISSUED UNDER THE CLM ACT 1997

Map 6 (1000m Buffer)

Site Name ²	Site ID	Address ¹	Notices	Distance (m)	Direction
Formerly Gas N Go Alexandria	3401	10-20 Botany ROAD ALEXANDRIA NSW	3 current	147	south

1. Some addresses do not contain specific street numbers. Records identified as being in the surrounding area have been added for information.

2. Former NSW EPA sites. These sites have been removed from the Record of Notices and/or the Sites Notified lists and are kept here for information purposes only.

2.3 SITES NOTIFIED AS CONTAMINATED TO THE NSW EPA

Map 6 (1000m Buffer)

Site Name ²	Address ¹	Activity that caused Contamination	EPA Site Management Class ³	Distance (m)	Direction
BP Service Station	116 Regent STREET, REDFERN	Service Station	Regulation under CLM Act not required	0	south
Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	10-20 Botany ROAD, ALEXANDRIA	Service Station	Regulation under CLM Act not required	147	south
Australian Technology Park	Henderson ROAD, EVELEIGH	Other Industry	Regulation under CLM Act not required	274	south-west
Alexandria Gardens	146-156 Wyndham Street & 146-156 Botany ROAD, ALEXANDRIA	Unclassified	Regulation under CLM Act not required	640	south-east
Proposed Construction Site	2 John STREET, WATERLOO	Other Industry	Regulation under CLM Act not required	704	south-east
Frasers Development	Wellington STREET, CHIPPENDALE	Chemical Industry	Under assessment	751	north
Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET, ALEXANDRIA	Service Station	Regulation under CLM Act not required	945	south-east

1. Some addresses do not contain specific street numbers. Records identified as being in the surrounding area have been added for information.

2. Former NSW EPA sites. These sites have been removed from the Record of Notices and/or the Sites Notified lists and are kept here for information purposes only.

3. The EPA maintains a record of sites that have been notified to the EPA by owners or occupiers as contaminated land. The sites notified to the EPA and recorded on the register are at various stages of the assessment and/or remediation process. Table 5 outlines the possible management status that can be attributed to a registered contaminated site.

Table 2.3.1. EPA Site Management Class Explanation

EPA Site Management Class	
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.
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.
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.
Contamination currently regulated under the 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.
Contamination currently regulated under the 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 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 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 by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A 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.

2.4 OTHER CONTAMINATION ISSUES

Map 6 (1000m Buffer)

Defence Sites (current and former)

Site name	Defence code	Description	RCIP*	Distance (m)	Direction
DSTO Eveleigh	ATP 3222	101/13 Garden Street, Eveleigh Science and technology facilities	-	267	South-west
Darlington Depot	DLN 0372	City Road, Darlington Expenditure Lease	-	815	North-west

*RCIP (Regional Contamination Investigation Program)

James Hardie Asbestos Waste Contamination Legacy

Site	Location	Type	Distance (m)	Direction
Not identified	-	-	-	-

Former Uranium Processing Site at Hunters Hill (NSW)

Site	Location	Distance (m)	Direction
Not identified	-	-	-

Former Gasworks Sites

Site	Location	Distance (m)	Direction
Not identified	-	-	-

2.5 POTENTIALLY CONTAMINATING ACTIVITIES

Map 7a (500m Buffer)

Aviation Fuel Depots/Terminals

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

Aviation Rescue Fire Fighting Facilities (ARFF)

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

Derelict Mines and Quarries

Deposit Name	Method	Description	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Dry Cleaners

Site name	Location	Status	Distance (m)	Direction
Anderson Bros Dry Cleaners	101 Regent St, Redfern NSW 2016	Operational	202	North-east
Darlington Laundromat and Drycleaners	270 Abercrombie St, Darlington NSW 2008	Operational	416	North-west
London Dry Cleaning & Pressing Services	48 Henderson Rd, Alexandria NSW 2015	Operational	499	South-west

Landfills (Legacy)

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

Note: This is not an exhaustive list of all legacy landfills.

Liquid Fuel Depots/Terminals

Site name	Owner	Location	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Power Stations

Site name	Owner	Primary Fuel Type	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Service Stations

Site name	Owner	Location	Status	Distance (m)	Direction
BP Connect Regent Street	BP	104-116 Regent Street Redfern	Operational	22	South-west
Metro Petroleum Alexandria	Metro	36 Henderson Road Alexandria	Operational	492	South-west

Substation / Switching Stations

Site name	Owner	Location	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Telephone Exchanges

Site name	Location	Status	Distance (m)	Direction
REDF	101 George Street Redfern	Operational	224	North-east

Waste Management Facilities

Site name	Owner	Class	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Wastewater Treatment Facilities

Site name	Operator	Class	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Unexploded Ordnance (UXO) Sites - Department of Defence (DoD)

Site name	Site ID	Category	Description	Distance (m)	Direction
Not identified	-		-	-	-

2.6 OTHER CURRENT POTENTIALLY CONTAMINATING ACTIVITIES

Map 7b (200m Buffer)

Current Commercial and Trade Data

Site name	Category	Location	Status*	Distance (m)	Direction
AG Transmion & Mechanical Repairs	Repair Facility	131 Regent St, Redfern NSW 2016	Current	28	east
Percy Jack Motorcycle	Repair Facility	131-133 Regent St, Redfern NSW 2016	Current	28	east
Boomerang Batteries	Repair Facility	Redfern St, Redfern NSW 2016	Former	129	North-east
Mechanical repairs	Mechanic	154-156 Regent St, Redfern NSW 2017	Current	152	South-west
B&b Mechanical Repairs	Repair Facility	Regent St Alexandria, New South Wales	Former	174	south

*Data is current as when this report was created. However due to the turnover of business locations, some addresses may be former.

Underground Storage Tank (UST)

ID	Premises	Tank type	Status*	Distance (m)	Direction
Tank 1	BP Connect Regent Street	UST 25 000 PULP	Unknown	38	south
Tank 2	BP Connect Regent Street	UST 40 000 ULT	Unknown	38	south
Tank 3	BP Connect Regent Street	UST 25 000 ADF	Unknown	38	south
Tank 4	BP Connect Regent Street	UST 70 000 ULP	Unknown	38	south
Tank 5	BP Connect Regent Street	UST 30 000 LPG	Unknown	18	south

Note: This is not an exhaustive list of all UST's.

Parramatta River Catchment Land Use Areas – Zoning Changes

Land Use 1943	Land Use 2005	Distance (m)	Direction
Not identified	-	-	-

Parramatta River Catchment Land Use Areas – Reclamation Areas

	On the Property?	Within Record Search Buffer?
Reclamation Area	Not identified	Not identified

*Many areas of Parramatta river have been reclaimed, often being used as rubbish dumps.

2.7 NPI INDUSTRIAL FACILITIES

Map 8 (500m Buffer)

Facility name	Address	Primary ANZSIC Class	Latest report	Distance (m)	Direction
State Rail Xplorer Endeavour Service Centre	Railway Parade Erskenville	Railway Rolling Stock Manufacturing and Repair Services	2001/2002	238	South-west

2.8 LICENSING UNDER THE POEO ACT 1997

Map 8 (500m Buffer)

Licences

Licence holder	EPL Number	Location Name	Premise Address ¹	Fee Based Activity	Distance (m)	Direction
Not identified		-	-	-	-	-

1. Some sites do not contain specific addresses. Records identified as being in the surrounding area have been added for information.

Delicensed Premises still Regulated by EPA, Licences Surrendered, Clean Up and Penalty Notices

Licence holder	Nº	Name	Premise Address ¹	Fee Based Activity	Status	Distance (m)	Direction
SYDNEY SOUTH WEST AREA HEALTH SERVICE	6568	RACHEL FORSTER HOSPITAL	150 PITT ST	Hazardous, Industrial or Group A Waste Generation or Storage	Surrendered	269	South-east
JOHNSON & JOHNSON RESEARCH PTY LTD	10046	AUSTRALIAN TECHNOLOGY PARK, LEVEL 4	1 CENTRAL AVENUE	Hazardous, Industrial or Group A Waste Generation or Storage	Surrendered	248	South-west
RAIL CORPORATION NEW SOUTH WALES	12389	Xplorer Service Centre	Henderson Road (off), EVELEIGH	Hazardous, Industrial or Group A Waste Generation or Storage	Delicensed	238	South-west

1. Some sites do not contain specific addresses. Records identified as being in the surrounding area have been added for information.

2.9 PUBLIC REGISTER OF PROPERTIES AFFECTED BY LOOSE-FILL ASBESTOS INSULATION

Map 8 (onsite)

Address	Match Found
Not identified	-

HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

1932 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Printers	Stansell Les	116 Regent Street, Redfern	Address	0m	South
Oil and Colourmen	Mason & Fletcher	137 Regent Street, Redfern	Address	20m	South East
Printers	Campbell J	144 Regent Street, Redfern	Address	117m	South
Motor Cars, Lorries & Garages	High Grade Auto Garage	150-152 Regent Street, Redfern	Address	117m	South
Motor Service Stations	Redfern Motor Service	George Street, Redfern	Street		
Sheet Metal Workers	Harper EA & Sons	George Street, Redfern	Street		
Tinsmiths and Tinplate Workers	Harper EA & Sons	George Street, Redfern	Street		
Iron & Brass Founders	Juleff J & Sons Ltd	Lawson Square, Redfern	Street		
Motor Cars, Lorries & Garages	Redfern Motor Garage	Lawson Square, Redfern	Street		
Motor Service Stations	Crotty P	Regent Street, Redfern	Street		
Motor Engineers and Repairers	Booth A	Renwick Street, Redfern	Street		
Sheet Metal Workers	Gordon Bros.	65 Gibbons Street, Redfern	Street		
Sheet Metal Workers	Stirrat & Smith	65 Gibbons Street, Redfern	Street		
Brassfounders	West HT	49 Rosehill Street, Redfern	Street		

* If no distance is provided, address no longer exists.

1940 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Engineers - Manufacturing	PNEUMATIC TOOL & ENGINEERING CO PTY LTD	114-116 Regent Street, Redfern	Address	0m	South
Gear Mfrs	Pneumatic Tool&Engineering Co Pty Ltd	116 Regent Street, Redfern	Address	0m	South
Motor Service Stations	Phillips L S&Abraham G A	131 Regent Street, Redfern	Address	20m	East
Painters Decorators & Glaziers	Mason&Fletcher	137 Regent Street, Redfern	Address	20m	South East

Electrical Contractors	Aldous D J	141 Regent Street, Redfern	Address	20m	South East
Confectionery Mfrs	Cushway H	60 Regent Street, Redfern	Address	39m	North
Tobacco - Mfrs &/or Wholesalers	Cahill J H	64 Regent Street, Redfern	Address	39m	North
Mop Mfrs	Ward A	72 Regent Street, Redfern	Address	39m	North
Boots & Shoes - Mfrs &/or Wholesalers	HANSMAN PTY LTD	Marian & Gibbons Streets, Redfern	Address	46m	West
Ice Mfrs	N.S.W. Ice&Cold Storage Co	Gibbons & Marian Streets, Redfern	Address	46m	West
Grocers - Retail	Quirk W	58 Regent Street, Redfern	Address	90m	North
Lampshade Mfrs	Bergman H	151a Redfern Street, Redfern	Address	91m	North East
Boxes & Cases - Wood	REGENT CASE FACTORY	78 Renwick Street, Redfern	Address	96m	North East
Wood-Wool Mfrs	Regent Case Factory	78 Renwick Street, Redfern	Address	96m	North East
Die & Press Tool Makers	Higginson Pty Ltd	32 Rosehill Street, Redfern	Address	98m	South West
Press Knives	HIGGINSON PTY LTD	32 Rosehill Street, Redfern	Address	98m	South West
Bicycles & Accessories	Centennial Cycles	138 Regent Street, Redfern	Address	106m	South
Grocers - Retail	Collins T	143 Redfern Street, Redfern	Address	110m	North East
Engineers - General	Whitford R O (1939) Pty Ltd	44 Rosehill Street, Redfern	Address	112m	South West
Grocers - Retail	Ryan K E	80a Renwick Street, Redfern	Address	113m	North East
Printers - Letterpress	South Sydney Priming Service	144 Regent Street, Redfern	Address	117m	South
Motor Mechanics	Dalton Motor Garage	150 Regent Street, Redfern	Address	117m	South
Spring Mfrs	FLETCHER SPRINGS PTY LT	Renwick & Turner Streets, Redfern	Address	123m	North East
Ice Cream Cones & Wafers	Peters American Delicacy Ce Ltd	140 George Street, Redfern	Address	126m	East
Ice Cream Mfrs	Peters American Delicacy Co Ltd	140 George Street, Redfern	Address	126m	East
Tobacco - Mfrs &/or Wholesalers	Haddrick R H	137 Redfern Street, Redfern	Address	132m	North East
Radio Mfrs	Calwyn Radio Co	199 Regent Street, Redfern	Address	139m	South
Fruiterers & Greengrocers	Wah H J	174 Redfern Street, Redfern	Address	142m	North East
Plumbers & Gasfitters	Parker E	135 Redfern Street, Redfern	Address	145m	North East

Undertakers	MEDCALF JOSEPH	172 Redfern Street, Redfern	Address	146m	North East
Welding - Oxy-Acetylene	Australian Arc-Welding Co	154 Regent Street, Redfern	Address	146m	South
Printers - Letterpress	BUTTERFIELD & LEWIS PTY LTD	Marian & Cornwallis Streets, Redfern	Address	158m	West
Produce Merchants - Retail	Mitchell D	158 Regent Street, Redfern	Address	162m	South
Biscuit Mfrs	Christensen E A	103a Regent Street, Redfern	Address	166m	North East
Boot & Shoe Requisites	Morgan E A	70 Lawson Square, Redfern	Address	169m	North
Clothing - Shirt, Collar & Pyjama Mfrs.	Basha A J	72a Lawson Square, Redfern	Address	169m	North
Leather Merchants	Pike E&Co	72a Lawson Square, Redfern	Address	169m	North
Leather Merchants	Stephens G	72 Lawson Square, Redfern	Address	169m	North
Manufacturers	Brook H L	72a Lawson Square, Redfern	Address	169m	North
Grocers - Retail	Young H	123 Redfern Street, Redfern	Address	170m	North East
Engineers - General	Kelly Engineering Co Pty Ltd	158 Redfern Street, Redfern	Address	175m	North East
Manufacturers	Ramsden&Chaplin Pty Ltd	154 Redfern Street, Redfern	Address	186m	North East
Schools & Colleges - Technical & Trade	WELDING ENGINEERS	154 Redfern Street, Redfern	Address	186m	North East
Grocers - Retail	Martin E E Mrs	88 Rosehill Street, Redfern	Address	199m	South West
Carriers - Light	Gordon E W	Boundary Street, Redfern	Street		
Boots & Shoes - Mfrs &/or Wholesalers	Lyon Shoe Pty Ltd	Gibbons Street, Redfern	Street		
Boots & Shoes - Mfrs &/or Wholesalers	McMurtries (NSW) Pty Ltd	Marian Street, Redfern	Street		
Boxes & Cases - Cardboard & Cartons	Butterfield&Lewis Pty Ltd	Marian Street, Redfern	Street		
Milk Vendors	DAIRY FARMERS CO-OP MILK CO LTD THE	Marian Street, Redfern	Street		
Boots & Shoes - Mfrs &/or Wholesalers	McCamley E&Sons Pty Ltd	Redfern Street, Redfern	Street		
Printers - Letterpress	Hallett H	Redfern Street, Redfern	Street		
Leather Merchants	Pizzey Pty Ltd	Rosehill Street, Redfern	Street		
Produce Merchants - Retail	Carroll&Keane	39 Boundary Street, Redfern	Street		
Coach & Carriage Builders & Dealers	Chandler Albert	6 Gibbons Street, Redfern	Street		

Cash Carriers	Australian Cash Railway Co	18 Gibbons Street, Redfern	Street		
Pattern Makers - Miscellaneous	Methven P W	20 Gibbons Street, Redfern	Street		
Cabinet Makers	Success Cabinet Works	22 Gibbons, Redfern	Street		
Waste Merchants	Hansen Julius V	30 Gibbons Street, Redfern	Street		
Trolleys & Trucks - Hand	Vee-Bar Steel Products Pty Ltd	63 Gibbons Street, Redfern	Street		
Radio Mfrs	Aerostat Co of Australia	78 Lawson Square, Redfern	Street		
Tobacco - Mfrs &/or Wholesalers	Howarth A	3 Lawson Square, Redfern	Street		
Manufacturers	Vickery Harold	5a Lawson Square, Redfern	Street		
Foundries - Brass	West H&T	49 Rosehill Street, Redfern	Street		
Bottles	King A	57 Rosehill, Redfern	Street		

* If no distance is provided, address no longer exists.

1950 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Engineers - Manufacturing	Pneumatic Tool & Engineering Co Pty Ltd	114-116 Regent Street, Redfern	Address	0m	South
Gauges - Pressure	Pneumatic Tool&Engineering Co Pty Ltd	116 Regent, Redfern	Address	0m	South
Gear Mfrs	Pneumatic Tool&Engineering Co Pty Ltd	116 Regent Street, Redfern	Address	0m	South
Motor Service Stations	Redfern Service Station	131 Regent, Redfern	Address	20m	East
Hardware - Retail	Mason&Fletcher	137 Regent Street, Redfern	Address	20m	South East
Engineers - Electrical	Wood E C&Mathers H T	143 Regent Street, Redfern	Address	23m	South East
Tobacco - Mfrs. &/or W'salers	Cahill J H	64 Regent Street, Redfern	Address	39m	North
Machinery - Sheep Shearing	Rolyat Trading Co	68 Regent Street, Redfern	Address	39m	North
Boots & Shoes - Mfrs. &/or W'salers	Mehieloff G	70 Regent Street, Redfern	Address	39m	North
Radio Repairs & Service	Regent Radio	70 Regent Street, Redfern	Address	39m	North
Photographers - Portrait	Relma S	76 Regent Street, Redfern	Address	39m	North
Ice Mfrs	N.S.W. Ice & Cold Storage Co	Gibbons&Marian Streets, Redfern	Address	46m	West

Ice Mfrs	N.S.W. Ice&Cold Storage Co.	Gibbons & Marian Streets, Redfern	Address	46m	West
Boots & Shoes - Mfrs. &/or W'salers	Lyon Shoe Pty Ltd	Gibbons & Margaret Sts., Redfern	Address	75m	South West
Carpet Repairers &/or Planners	Lane R & W	124 Regent Street, Redfern	Address	75m	South
Engineers - Printing	Parsons & Hayes	52 Turner Street, Redfern	Address	82m	North East
Machinery - General	Nash E H	54 Turner Street, Redfern	Address	82m	North East
Dry Cleaners and Dyers	Immaculate Dry Cleaners Pty Ltd	151 Redfern Street, Redfern	Address	91m	North East
Die & Press Tool Makers	Higginson Pty Ltd	32 Rosehill Street, Redfern	Address	98m	South West
Engineers - Manufacturing	Frohlich W F	183 Regent Street, Redfern	Address	102m	South
Printers - Letterpress	South Sydney Printing Service	144 Regent, Redfern	Address	117m	South
Plywoods	Felbert F S	146 Regent Street, Redfern	Address	117m	South
Veneers	Felbert F S	146 Regent Street, Redfern	Address	117m	South
Motor Mechanics	Dalton Motor Garage	150 Regent Street, Redfern	Address	117m	South
Ice Cream Mfrs	Peters Ice Cream Pty Ltd	140 George Street, Redfern	Address	126m	East
Drainers	Duthoit J G	156 George Street, Redfern	Address	126m	East
Radio Mfrs.	Calwyn Radio Co	199 Regent Street, Redfern	Address	139m	South
Radio Repairs & Service	Calwyn Radio Pty Ltd	199 Regent Street, Redfern	Address	139m	South
Boiler Makers	Australian Arc-Welding Co	154 Regent Street, Redfern	Address	146m	South
Welding - Oxy-Acetylene	Australian Arc-Welding Co	154 Regent Street, Redfern	Address	146m	South
Produce Merchants - Retail	Clarke E J	158 Regent, Redfern	Address	162m	South
Grocers - W'sale	Lewis Henry & Sons Pty Ltd	68 Lawson Square, Redfern	Address	169m	North
Boot & Shoe Requisites	Love D M	72 Lawson Square, Redfern	Address	169m	North
Leather & Grindery Supplies	Love D M	72 Lawson Square, Redfern	Address	169m	North
Motor Accessories Mfrs. &/or W'salers	Miller K G	72 Lawson Square, Redfern	Address	169m	North
Motor Replacement Parts	Miller K G	72 Lawson Square, Redfern	Address	169m	North
Clothing - Shirt, Collar & Pyjama Mfrs.	Skymaster Shirts Pty Ltd	72a Lawson Square, Redfern	Address	169m	North

Hosiery Mfrs.	Campbell C Mrs	72a Lawson Square, Redfern	Address	169m	North
Shirt, Collar & Pyjama Mfrs.	Skymaster Shirts Pty Ltd	72a Lawson Square, Redfern	Address	169m	North
Motor Hire Services	Austral Hire Service	154 Redfern , Redfern	Address	186m	North East
Carriers-Light	McMahon J & Co Pty Ltd	George Street, Redfern	Street		
Storage - Cold	N.S.W. Ice&Cold Storage Co	Gibbons Street, Redfern	Street		
Boots & Shoes - Mfrs. &/or W'salers	McMurtrie (N.S.W.) Pty Ltd	Marian Street, Redfern	Street		
Storage - Cold	N.S.W. Ice&Cold Storage Co	Marian Street, Redfern	Street		
Engineers - Printing	Ditchburn A B	Turner Street, Redfern	Street		
Boots & Shoes - Mfrs. &/or W'salers	McCamley E&Sons Pty Ltd	Redfern Street, Redfern	Street		
Printers - Letterpress	Anderson W J & Co	Redfern Street, Redfern	Street		
Printers - Letterpress	Hallett H	Redfern Street, Redfern	Street		
Disinfectants	Medical Soap MFG Co	10 Boundary Street, Redfern	Street		
Soap Mfrs.	Medical Soap Mfg Co	10 Boundary Street, Redfern	Street		
Boxes & Cases - Cardboard & Cartons	Hansen Julius V	12 Boundary Street, Redfern	Street		
Cotton & Wool Waste Merchants	Hansen Julius V	12 Boundary Street, Redfern	Street		
Waste Merchants	Hansen Julius V	12 Boundary Street, Redfern	Street		
Produce Merchants - Retail	Carroll & Keane	39 Boundary, Redfern	Street		
Boots & Shoes - Mfrs. &/or W'salers	Simon J & Sons	2 Gibbons Street, Redfern	Street		
Leather Goods - Mfrs &/or w'salers	Vickery Harold & Son	5A Lawson Square, Redfern	Street		
Motor Garages	Redfern Motor Service	76 Lawson Square, Redfern	Street		
Foundries - Brass	West H & T	49 Rosehill, Redfern	Street		
Bottles	Redfern Bottle Exchange	57 Rosehill Street, Redfern	Street		
Dry Cleaners and Dyers	Johnson's Dry Cleaners	144 Renwick, Redfern	Street		

* If no distance is provided, address no longer exists.

1965 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Slot Machines	REGAL AMUSEMENT CO PTY LTD	92 RegentSt, Redfern	Address	On Site	
Tools	Associated Engineering Sales Co	102 Regent, Redfern	Address	On Site	
Leather Goods—Mfrs. &/or W'salers	Lizard&Co	104 Regent, Redfern	Address	0m	South
Gear Mfrs	Pneumatic Tool&Engineering Co Pty Ltd	112 Regent, Redfern	Address	0m	South
Air Compressors &/or Equipment	PNEUMATIC TOOL & ENGINEERING CO PTY LTD	112-116 RegentSt, Redfern	Address	0m	South
Engineers—Manufacturing	PNEUMATIC TOOL & ENGINEERING CO PTY LTD	112-116 RegentSt, Redfern	Address	0m	South
Carriers—Light	Parcel Express Co Pty Ltd	131 Regent, Redfern	Address	20m	East
Motor Service Stations	Redfern Service Station	131 Regent, Redfern	Address	20m	East
Motor Service Stations	SHELL SERVICE STATIONS	131 Regent, Redfern	Address	20m	East
Hardware—Retail	MASON & FLETCHER PTY LTD	137 Regent, Redfern	Address	20m	South East
Tobacco Mfrs. &/or W'salers	CAHILL J H PTY LTD	62-68 Regent, Redfern	Address	39m	North
Radio Repairs & Service	Regent Radio	70 Regent, Redfern	Address	39m	North
Dry Cleaners & Dyers	Personality Dry Cleaners	74 Regent, Redfern	Address	39m	North
Ice Mfrs	HAMILTONS FROZEN PRODUCTS PTY LTD	Gibbons&MarianSts, Redfern	Address	46m	West
Storage—Cold	HAMILTONS FROZEN PRODUCTS PTY LTD	Gibbons&MarianSts, Redfern	Address	46m	West
Builders & Contractors	Rudd W B&F D	120 Regent, Redfern	Address	65m	South
Upholsterers	Young N C	124 Regent, Redfern	Address	75m	South
Engineers—Printing	PARSONS & HAYES PTY LTD	52 TurnerSt, Redfern	Address	82m	North East
Machinery —Printing	Parsons&Hayes Pty Ltd	52 Turner, Redfern	Address	82m	North East
Dry Cleaners & Dyers	Palms Dry Cleaners	130 Regent, Redfern	Address	89m	South
Motor Replacement Parts	SHALIMAR MOTOR SUPPLIES PTY LTD	132 Regent, Redfern	Address	94m	South
Stereotypers & Electrotypers	Service Stereos Pty Ltd	41 Turner, Redfern	Address	98m	North East

Leather & Grindery Supplies	Pizzey Pty Ltd	32 Rosehill, Redfern	Address	98m	South West
Thermostats	Jones&Joseph Pty Ltd	32 Rosehill, Redfern	Address	98m	South West
Fishing Tackle	GLOVER FRED PTY LTD	32-42 Rosehill, Redfern	Address	98m	South West
Machinery—Agricultural	MOBILE DISTRIBUTORS (NSW)	32-42 Rosehill, Redfern	Address	98m	South West
Saws	MOBILE DISTRIBUTORS (MSW)	32-42 Rosehill, Redfern	Address	98m	South West
Sporting Goods—Mfrs. &/or W'salers	CLOVER FRED PTY LTD	32-42 Rosehill, Redfern	Address	98m	South West
Air Compressors &/or Equipment	AIRSPED PRODUCTS	183 RegentSt, Redfern	Address	102m	South
Engineers—Manufacturing	Airspeed Products	183 Regent, Redfern	Address	102m	South
Plumbers & Gasfitters	Green F W	160 George, Redfern	Address	105m	South East
Bakers	Scotts Provisions (Manufacturing) Pty Ltd	168 George, Redfern	Address	105m	South East
Pastrycooks—W'sale	SCOTTS PROVISIONS (BAKERY) PTY LTD	172 George, Redfern	Address	105m	South East
Pie Manufacturers	SCOTTS PROVISIONS (BAKERY) PTY LTD	172 George, Redfern	Address	105m	South East
Knitted Goods	Klein J&M J	138 Regent, Redfern	Address	106m	South
Boots & Shoes—Mfrs. &/or W'salers	McMURTRIE (NSW) PTY LTD	Rosehill&MarianSts, Redfern	Address	107m	West
Bicycles & Accessories	Speedwell Cycles	44 Rosehill, Redfern	Address	112m	South West
Bakers' & Pastrycooks' Supplies	MACKIE ERN PTY LTD	150 RegentSt, Redfern	Address	117m	South
Butchers' Supplies	MACKIE ERN PTY LTD	150 RegentSt, Redfern	Address	117m	South
Hotel & Restaurant Cooking Equipment	MACKIE ERN PTY LTD	150 RegentSt, Redfern	Address	117m	South
Wire Workers & Weavers	Mackie Ern Pty Ltd	150 Regent, Redfern	Address	117m	South
Boot Repairers	Fourtounis D	189 Regent, Redfern	Address	123m	South
Dairy Produce—W'sale	Foremost Consolidated Pty Ltd	146 George, Redfern	Address	126m	East
Dairy Produce—W'sale	Peters Creameries Pty Ltd	146 George, Redfern	Address	126m	East
Dairy Produce—W'sale	Peters Creameries (Grafton) Pty Ltd	146 George, Redfern	Address	126m	East
Ice Cream Mfrs	PETERS ICE CREAM PTY LTD	146-148 George, Redfern	Address	126m	East
Milk Products	FOREMOST CONSOLIDATED PTY LTD	146-148 George, Redfern	Address	126m	East

Milk Products	PETERS CREAMERIES PTY LTD	146-148 George, Redfern	Address	126m	East
Milk Products	PETERS CREAMERIES (GRAFTON) PTY LTD	146-148 George, Redfern	Address	126m	East
Refrigeration	NIZER REFRIGERATION PTY LTD	146-148 George, Redfern	Address	126m	East
Carriers—Light	ADEPT TRANSPORT	182 RedfernSt, Redfern	Address	128m	North East
Powder Puff Mfrs	Havas&Co Pty Ltd	182 Redfern, Redfern	Address	128m	North East
Taxi Truck Services	Adept Transport	182 Redfern, Redfern	Address	128m	North East
Spring Mfrs	Fletcher Springs Pty Ltd	46 Turner, Redfern	Address	129m	North East
Butchers	Cary G	115 Regent, Redfern	Address	128m	North East
Photographers—General	Hollywood Studio	193 Regent, Redfern	Address	132m	South
Grocers—Retail	Coles Food Markets Pty Ltd	197 Regent, Redfern	Address	139m	South
Flywire Screens	Alumkraft Pty Ltd	195 Regent, Redfern	Address	140m	South
Window Screen Mfrs	Acumkraft Pty Ltd	195 Regent, Redfern	Address	140m	South
Fruiterers & Greengrocers	Alati R	174 Redfern, Redfern	Address	142m	North East
Plumbers & Gasfitters	BINDER PARKER E & SONS	135 RedfernSt, Redfern	Address	145m	North East
Plumbers & Gasfitters	Parker E Binder&Sons	135 Redfern, Redfern	Address	145m	North East
Motor Service Stations	Mekler Bros Pty Ltd	156 Regent, Redfern	Address	146m	South
Produce Merchants - Retail	Farrow Produce	158 Regent, Redfern	Address	162m	South
Clothing—Leather	Centreproof Manufacturing Co	160 Redfern, Redfern	Address	168m	North East
Chemists—Pharmaceutical	Central Pharmacy	162 Redfern, Redfern	Address	168m	North East
Sheet Metal Workers	WEINER A&SON PTY LTD	64-66 LawsonSq, Redfern	Address	169m	North
Clothing—Mfrs. &/or Wsalers	Athnes Fashions	68 LawsonSq, Redfern	Address	169m	North
Engineers—Steam	Moran&Wilson	68 LawsonSq, Redfern	Address	169m	North
Boot & Shoe Requisites	Love D M	72 LawsonSq, Redfern	Address	169m	North
Motor Accessories—Mfrs. &/or W'salers	Miller K G Pty Ltd	72 LawsonSq, Redfern	Address	169m	North
Motor Replacement Parts	MILLER K G PTY LTD	72 LawsonSq, Redfern	Address	169m	North

Printers—Letterpress	Richards A E	72 LawsonSq, Redfern	Address	169m	North
Boots & Shoes—Mfrs. &/or W'salers	Suprema Shoe Co	72a LawsonSq, Redfern	Address	169m	North
Engravers & Die Sinkers	DIAMOND ENGRAVING CO	72a LawsonSq, Redfern	Address	169m	North
Gold Stampers	Crest Bookbinding&File Co	74 LawsonSq, Redfern	Address	169m	North
Motor Service Stations	Smith Chris	GeorgeSt, Redfern	Street		
Motor Service Stations	Wekler M	GeorgeSt, Redfern	Street		
Printers —Lithographic	Durant R C Pty Ltd	GeorgeSt, Redfern	Street		
Boots & Shoes—Mfrs. &/or W'salers	Kinsbro Shoes Pty Ltd	GibbonsSt, Redfern	Street		
Flock Mfrs	Plush Products Pty Ltd	GibbonsSt, Redfern	Street		
Knitted Goods	Fiesta Knitwear	GibbonsSt, Redfern	Street		
Storage—Cold	N.S.W. Ice&Cold Storage Pty Ltd	GibbonsSt, Redfern	Street		
Boot Repairers	Victor Boot Repairs	LawsonSq, Redfern	Street		
Boxes & Cases— Cardboard & Cartons	BUTTERFIELD & LEWIS PTY LTD	MarianSt, Redfern	Street		
Office & Business Systems	BUTTERFIELD & LEWIS PTY LTD	MarianSt, Redfern	Street		
Packaging	BUTTERFIELD A LEWIS PTY LTD	MarianSt, Redfern	Street		
Paper Bags	BUTTERFIELD & LEWIS PTY LTD	MarianSt, Redfern	Street		
Printers—Letterpress	BUTTERFIELD & LEWIS PTY LTD	MarianSt, Redfern	Street		
Printers —Lithographic	BUTTERFIELD & LEWIS PTY LTD	MarianSt, Redfern	Street		
Boots & Shoes—Mfrs. &/or W'salers	McCamley E&Sons Pty Ltd	RedfernSt, Redfern	Street		
Printers—Letterpress	Anderson W J&Co	RedfernSt, Redfern	Street		
Printers—Letterpress	Hallett H	RedfernSt, Redfern	Street		
Boiler Inspectors	Conne A	WilliamLa, Redfern	Street		
Engineers—Consulting	Connie P	WilliamLa, Redfern	Street		
Cotton & Wool Waste Merchants	Hansen Julius V Pty Ltd	12 Boundary, Redfern	Street		
Produce Merchants - Retail	Carroll&Keane	39 Boundary, Redfern	Street		

Motor Cars & Trucks— Used	Redfern Bridge Car Sales	10 Gibbons, Redfern	Street		
Television Receivers— Repairs & Service	KARAGEORGE T.V. REPAIRS	3 LawsonSq, Redfern	Street		
Boot Repairers	Biasetto A	5 LawsonSq, Redfern	Street		
Leather Goods—Mfrs. &/or W'salers	VICKERY HAROLD & SON PTY LTD	5a LawsonSq, Redfern	Street		
Builders & Contractors	Henderson Constructions Pty Ltd	78 Lawson, Redfern	Street		

* If no distance is provided, address no longer exists.

1970 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
AUTOMATIC SLOT MACHINE MFRS. &/OR DISTS	Regal Amusement Co. Pty. Ltd.,	92 Regent St., Redfern	Address	On Site	
BILLIARDS TABLES & EQUIPMENT MFRS. &/OR DISTS.	Regal Amusement Co. Pty. Ltd.,	92 Regent St., Redfern	Address	On Site	
COIN-COUNTING, TESTING & WRAPPING MACHINE MFRS.	Regal Amusement Co. Pty. Ltd.,	92 Regent St., Redfern	Address	On Site	
BOOT & SHOE REPAIRERS	Athenian Shoes,	96 Regent St., Redfern	Address	On Site	
FOUNDRY SUPPLIES— GENERAL, FACINGS, ETC.	Associated Engineering Sales Co.,	102 Regent St., Redfern	Address	On Site	
MOTOR ACCESSORIES/DEALER S	Shalimar Motor Supplies Pty. Ltd.,	102 Regent St., Redfern	Address	On Site	
MOTOR SPARE PARTS DEALERS— RETAIL	Shalimar Motor Supplies Pty. Ltd.,	102 Regent St., Redfern	Address	On Site	
MOTOR SPARE PARTS MFRS. &/OR WHOLESALEERS	Shalimar Motor Supplies Pty. Ltd.,	102 Regent St., Redfern	Address	On Site	
MOTOR TRIMMERS	Shalimar Motor Supplies Pty. Ltd.,	102 Regent St., Redfern	Address	On Site	
MIXED BUSINESSES	Mixed Business,	82 Regent St., Redfern	Address	12m	North
MOTOR GARAGES/ENGINEERS	Redfern Service Station,	133 Regent St., Redfern	Address	20m	East
PAINT, VARNISH, OILS/COLOUR MERCHANTS	Mason Fletcher Pty. Ltd.,	139 Regent St., Redfern	Address	20m	South East
ROOFING MATERIAL MFRS. &/OR DISTRIBUTORS	Mason & Fletcher Pty. Ltd.,	139 Regent St., Redfern	Address	20m	South East
TOOL DEALERS— RETAIL	Mason & Fletcher Pty. Ltd.,	139 Regent St., Redfern	Address	20m	South East

BUILDERS' SUPPLIERS	Mason&Fletcher Pty. Ltd.,	139 Regent St., Redfern	Address	20m	South East
LAWN MOWER SALES/SERVICE	Mason Fletcher Pty. Ltd.,	139 Regent St., Redfern	Address	20m	South East
MANUFACTURERS' AGENTS	Cahill, J. H. Pty. Ltd.,	64 Regent St., Redfern	Address	39m	North
TOBACCO MERCH.—W'SALE	Cahill, J. H. Pty. Ltd.,	64 Regent St., Redfern	Address	39m	North
RADIO &/OR TELEVISION SALES & SERVICEMEN	Regent Radio Sales&Service,	70 Regent St., Redfern	Address	39m	North
POTTERY W'SALERS/IMPORT.	Redland Poultry Supplies Pty. Ltd.,	72 Regent St., Redfern	Address	39m	North
DRY CLEANERS, PRESSERS/ DYERS	Personality Dry Cleaners,	74 Regent St., Redfern	Address	39m	North
COLD STORES	Hamilton Frozen Products Pty. Ltd.,	Cor. Gibbons&Marlan Sts., Redfern	Address	46m	West
COLD STORES	N.S.W. Ice & Cold Storage Pty. Ltd.,	Cnr. Gibbons & Marian Sts., Redfern	Address	46m	West
MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	BP Everleigh Service Station,	118 Regent St., Redfern	Address	53m	South
PRINTERS' ENGINEERS	Parsons & Hayes Pty. Ltd.,	52 Turner St., Redfern	Address	82m	North East
DRY CLEANERS, PRESSERS/ DYERS	Palms Dry Cleaners ,	130 Regent St., Redfern	Address	89m	South
CHEMISTS—PHARMACEUTICAL	Macquarie Pharmacies,	151 Redfern St., Redfern	Address	91m	North East
WHARF CONSTRUCTION SPEC.	Brooks, Arthur R.,	155 Redfern St., Redfern	Address	93m	North
MOTOR ACCESSORIES/DEALERS	Bore & Beck Motor Supplies Pty. Ltd.,	132 Regent St., Redfern	Address	94m	South
STEREOTYPERS—METAL, PLASTIC, RUBBER	Service Stereos Pty. Co.,	41-43 Turner St., Redfern	Address	98m	North East
BUILDERS' SUPPLIERS	Jones&Joseph Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West
FOOTWEAR MFRS., REPAIRERS &/OR SUPPLIERS	Pizzey Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West
HOBBY/HANDCRAFTS SUPPLIES	Jones A Joseph Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West
MANUFACTURERS' AGENTS	Jones & Joseph Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West
MOTOR TRIMMERS' SUPPLIES	Pizzey Pty. Ltd-	32 Rosehill St., Redfern	Address	98m	South West
PLUMBERS' SUPPLIES	Jones & Joseph Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West
SPORTS GOODS W'SALERS	Jones & Joseph Pty. Ltd.,	32 Rosehill St., Redfern	Address	98m	South West

TEXTILE IMPORTERS &/OR WHOLESALERS	Plzzy Pty. Ltd.	32 Rosehill St., Redfern	Address	98m	South West
TRAVEL GOODS WHOLESALERS	Pizze Pty. Ltd.,	32-42 Rosehill St., Redfern	Address	98m	South West
ENGINEERS—COMPRESSED AIR	Airspeed Products,	183 Regent St., Redfern	Address	102m	South
PNEUMATIC TOOL MFRS.	Airspeed Products,	183 Regent St., Redfern	Address	102m	South
CLOTHING MFRS. &/OR W'SALERS —KNITTED GOODS	Klein, J.,	138 Regent St., Redfern	Address	106m	South
DENTAL LABS. & TECHNICIANS	Redfern Dental Laboratories,	145 Redfern St., Redfern	Address	106m	North East
FOOTWEAR MFRS.—CHILDREN'S/ INFANTS'	McMurtrie (N.S.W.) Pty. Ltd.,	Rosehill & Marian St., Redfern	Address	107m	West
FOOTWEAR MFRS.—SANDALS	McMurtrie (N.S.W.) Pty. Ltd.,	Rosehill & Marian Sts., Redfern	Address	107m	West
FOOTWEAR MFRS.—SLIPPERS	McMurtrie (N.S.W.) Pty. Ltd.,	Rosehill & Marian Sts., Redfern	Address	107m	West
FOOTWEAR WHOLESALERS &/OR DISTRIBUTORS	McMurtie (N.S.W.) Pty. Ltd.,	Rosehill & Marian Sts., Redfern	Address	107m	West
PLEATING SPECIALISTS	Bartex Fabrics Pty. Ltd.,	44 Rosehill St., Redfern	Address	112m	South West
TEXTILE IMPORTERS &/OR WHOLESALERS	Bartex Fabrics Pty. Ltd.	44 Rosehill St., Redfern	Address	112m	South West
TEXTILE IMPORTERS &/OR WHOLESALERS	Foamtex Pty. Ltd.	44 Rosehill St., Redfern	Address	112m	South West
ABATTOIRS' MACHINERY SUPPLIES —MANUFACTURERS	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
BAKERS' & PASTRYCOOKS' MACHINERY MFRS., IMP. &/OR DIST.	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
BAKERS' & PASTRYCOOKS' SUPPLIES	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
CAFE EQUIPMENT & SUPPLIES	Mackie, Em Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
DAIRY UTENSILS—MANUFACTURERS &/OR DISTRIBUTORS	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
FOOD PROCESSING MACH. MFRS./ DEALERS	Mackie, Em Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
HOTEL/MOTEL EQUIPMENT/SUPPLIES	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
SHEET METAL WORKERS	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
STORE & PACKING ROOM EQUIPMENT MANUFACTURERS &/OR DISTRIBUTORS	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South

TINSMITHS	Mackle, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
TRUCKS & TROLLEYS—INDUSTRIAL —IMPORTS. &/OR MFRS.	Mackle, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
WELDERS—ELECTRIC &/OR OXY	Mackie, Ern Pty. Ltd.,	150 Regent St., Redfern	Address	117m	South
ICE CREAM MFRS./DIST.	Peters Ice Cream Pty. Ltd.,	138 George St., Redfern	Address	126m	East
CARRIERS & CARTAGE CONTRACTORS — MASTER	Adept Transport,	182 Redfern St., Redfern	Address	128m	North East
CARRIERS & CARTAGE CONTRACTORS	Adept Transport,	182 Redfern St., Redfern	Address	128m	North East
TAXI TRUCK OPERATORS	Adept Transport,	182 Redfern St., Redfern	Address	128m	North East
COSMETIC MFRS.' SUPPLIES	Havas&Co. Pty. Ltd.,	182 Redfern St., Redfern	Address	128m	North East
LAMBS WOOL PRODUCTS MFRS.	Havas & Co. Pty. Ltd.,	182 Redfern St., Redfern	Address	128m	North East
POWDER PUFF MFRS.	Havas & Co. Pty. Ltd.,	182 Redfern St., Redfern	Address	128m	North East
SPRING MFRS.—SPIRAL	Fletcher Springs Pty. Ltd.,	48 Turner St., Redfern	Address	129m	North East
LAUNDRIES &/OR LAUNDRETTE	Williams Blanc-Et Service,	46 Turner St., Redfern	Address	129m	North East
TEXTILE MANUFACTURERS	Wyanna Spinning Mills Pty. Ltd.,	46 Turner St., Redfern	Address	129m	North East
PHOTOGRAPHERS—PORTRAIT	Hollywood Portraits,	193 Regent St., Redfern	Address	132m	South
MOTOR PAINTERS	Eagle Body Works,	154 Regent St., Redfern	Address	146m	South
MOTOR PANEL BEATERS	Eagle Body Works,	154 Regent St., Redfern	Address	146m	South
ANIMAL & BIRD FOOD SUPPLIES	Clarke, E.&Sons,	158 Regent St., Redfern (Bird Seed)	Address	162m	South
FUEL MERCHANTS—COAL/COKE, WOOD	Clarke, E. & Sons,	158 Regent St., Redfern	Address	162m	South
PRODUCE MERCHANTS—GRAIN & SEED —RETAIL	Clarke, E. & Sons,	158 Regent St., Redfern	Address	162m	South
ELECTRONIC EQUIPMENT MFRS. &/OR DISTRIBUTORS	Metropolitan Meter Service,	103 Regent St., Redfern, 2016	Address	166m	North East
INSTRUMENT REPAIRERS	Metropolitan Meter Service,	103 Regent St., Redfern, 2016	Address	166m	North East
INSTRUMENTS—INDUSTRIAL—MFRS. &/OR DISTRIBUTORS	Metropolitan Meter Service,	103 Regent St., Redfern, 2016	Address	166m	North East
INSTRUMENTS—MEASURING—MFRS.	Metropolitan Meter Service,	103 Regent St., Redfern, 2016	Address	166m	North East

&/OR IMPORTS. &/OR DISTS.					
CHEMISTS— PHARMACEUTICAL	Central Redfern Pharmacy,	162 Redfern St., Redfern	Address	168m	North East
MOTOR ACCESSORIES—MFRS.	Miller, K. G. Pty. Ltd.,	72 Lawson Sq., Redfern	Address	169m	North
MOTOR AXLE MFRS.	Miller, K. G. Pty. Ltd.,	72 Lawson Sq., Redfern	Address	169m	North
MOTOR GEAR SPECIALISTS	Miller, K. G. Pty. Ltd.,	72 Lawson Sq., Redfern	Address	169m	North
MOTOR SPARE PARTS MFRS. &/OR WHOLESALEERS	Miller, K. G. Pty. Ltd.,	72 Lawson Sq., Redfern	Address	169m	North
PRINTERS— LETTERPRESS	Richards, A. E. Pty. Ltd.,	72 Lawson Sq., Redfern	Address	169m	North
SHEET METAL WORKERS	Weiner, A. & Son Pty. Ltd.,	64 Lawson Sq., Redfern	Address	169m	North
WELDERS—ELECTRIC &/OR OXY	Weiner, A. & Son Pty. Ltd.,	64 Lawson Sq., Redfern	Address	169m	North
WROUGHT IRON WORKERS	Weiner, A. & Son Pty. Ltd.,	64 Lawson Sq., Redfern	Address	169m	North
CARDBOARD BOX & CARTON MANUFACTURERS	Butterfield&Lewis Pty. Ltd.,	Marian St., Redfern	Street		
OFFICE FILING SYSTEM MFRS. &/OR DISTRIBUTORS	Butterfield&Lewis Pty. Ltd.,	Marian St., Redfern	Street		
PACKAGING/PACKING SPEC.	Butterfield&Lewis Pty. Ltd.,	Marian St., Redfern	Street		
PRINTERS— LETTERPRESS	Butterfield & Lewis Pty. Ltd.,	Marian St., Redfern	Street		
PRINTERS— LITHOGRAPHIC (OFFSET)	Butterfield & Lewis Pty. Ltd.,	Marian St., Redfern	Street		
STATIONERY—LOOSE LEAF SYSTEMS & EQUIPMENT MFRS. &/OR DISTRIBUTORS	Butterfield & Lewis Pty. Ltd.,	Marian St., Redfern	Street		
COTTON, TEXTILE & PIECEGOODS MFRS. &/OR W'SALERS	Pizzey Pty. Ltd.,	Rosehill St., Redfern	Street		
DYERS/BLEACHERS— TRADE	B.&B. Dyers&Bleachers Pty. Ltd.,	Rosehill St., Redfern	Street		
FOAM COATING SPECIALISTS	Foamtex Pty. Ltd.,	Rosehill St., Redfern	Street		
FOOTWEAR MFRS.— MACHINERY MANUFACTURERS	Pizzey Pty. Ltd.,	Rosehill St., Redfern	Street		
FOOTWEAR WHOLESALEERS &/OR DISTRIBUTORS	Osborne 4 Crowe Pty. Ltd.,	Rosehill St., Redfern	Street		
MANUFACTURERS' AGENTS	Qualitex Distributors Pty. Ltd.,	Rosehill St., Redfern	Street		

FOOTWEAR MFRS.— BOOTS/SHOES	Klnsbro Shoes Pty. Ltd.,	Gibbons St., Redfern	Street		
MOTOR CAR/TRUCK DEALERS— NEW/USED	Redfern Bridge Car Sales,	Gibbons St., Redfern	Street		
ENGINEERS— FABRICATING	F.D.T. Pty. Ltd.,	George St., Redfern	Street		
SCAFFOLDING— MFRS., HIRERS & ERECTORS	F.D.T. Pty. Ltd.,	George St., Redfern	Street		
MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Smith, C. Service Station,	George St., Redfern	Street		
PRODUCE MERCH.— W'SALE	Maloney, M. Produce Pty. Ltd.,	Boundary St., Redfern	Street		
RADIO &/OR T.V. COMPONENT PARTS DEALERS	Arcadian Manufacturing Co. Pty. Ltd.,	Renwick St., Redfern	Street		
AIR COMPRESSOR MFRS. &/OR DIST.	Pneumatic Tool & Engineering Co. Pty. Ltd.,	4-12 Margaret St., Redfern	Street		
ENGINEERS— GENERAL &/OR MFRG. &/OR MECHANICAL	Pneumatic Tool & Engineering Co. Pty. Ltd.,	4 Margaret St., Redfern	Street		
PNEUMATIC TOOL MFRS.	Pneumatic Tool & Engineering Co. Pty. Ltd.,	4 Margaret St., Redfern	Street		
PNEUMATIC TOOL SPARE PARTS	PNEUMATIC TOOL A ENGINEERING CO PTY LTD	4 Margaret St., Redfern	Street		
BELT MANUFACTURERS— LADIES' & GENT.'S	Vickery, Harold & Son Pty. Ltd.,	5a Lawson Sq., Redfern	Street		
BOOT & SHOE REPAIRERS	John's Shoe Repairs,	5 Lawson Sq., Redfern	Street		
LEATHER GOODS MFRS. &/OR WHOLESALE	HAROLD VICKERY & SON PTY LTD	5A Lawson Sq., Redfern	Street		
LEATHER GOODS MFRS. &/OR WHOLESALE	Vickery, Harold & Son Pty. Ltd.,	5A Lawson Sq., Redfern	Street		
COLD STORES	Murrells Wholesale Providoring Co. Pty. Ltd.,	16 Gibbons St., Redfern	Street		
FOODS—FROZEN— SPECIALISTS	Murrells Wholesale Providoring Co. Pty. Ltd.,	16 Gibbons St., Redfern	Street		
POTTERY W'SALERS/IMPORT.	Murrells Wholesale Providoring Co. Pty. Ltd.,	16 Gibbons St., Redfern	Street		
KNITTING MILLS	Bartex Fabrics Pty. Ltd.,	33 Rosehill St., Redfern	Street		
SCREEN PROCESS PRINTERS	Brown Display Co.,	30 Rosehill St., Redfern	Street		

* If no distance is provided, address no longer exists.

1974 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Motor Service Stations	Redfern Service Station	131 Regent Street, Redfern	Address	20m	East
Painters' Supplies	Mason & Fletcher Pty Ltd	139 Regent Road, Redfern	Address	20m	South East
Tobacco Mfrs. &/or Wholesalers	Cahill J H Pty Ltd	62 Regent Street, Redfern	Address	39m	North
Armoured Car Services	TNT Armoured Express Co	Corner Gibbons & Marian Streets, Redfern	Address	46m	West
Clothing-Button & Buckle Mfrs. &/or W'salers	S. L. Fashion Accessories	120 Regent Street, Redfern	Address	65m	South
Plastics-Toolmakers & Engineers	S.L. Plas-Tool & Co	120 Regent Street, Redfern	Address	65m	South
Footwear-Mfrs. &/or W'salers	Impala Shoes Pty Ltd	Corner Gibbons & Margaret Streets, Redfern	Address	75m	South West
Footwear-Mfrs. &/or W'salers	Kimibro Shoes Pty Ltd	Corner Gibbons & Margaret Streets, Redfern	Address	75m	South West
Machinery-Printing	Parsons & Hayes Pty Ltd	52 Turner Street, Redfern	Address	82m	North East
Printing Engineers	Parsons & Hayes Pty Ltd	52 Turner Street, Redfern	Address	82m	North East
Dry Cleaners and Dyers	Palms Dry Cleaners	130 Regent Street, Redfern	Address	89m	South
Fibreglass Mfrs &/or W'salers	Austral Polyplastic Studios	132 Regent Street, Redfern	Address	94m	South
Printers - Small Offset	Rotographic Productions	41 Turner Street, Redfern	Address	98m	North East
Printers - Lithographic	Rotographic Productions	41 Turner Street, Redfern	Address	98m	North East
Motor Panel Beaters	Eagle Body Works	136 Regent street, Redfern	Address	102m	South
Air Compressors &/or Equipment	Airspeed Products	183 Regent Street, Redfern	Address	102m	South
Engineers-Manufacturing	Airspeed Products	183 Regent Street, Redfern	Address	102m	South
Pastrycooks-W'sale	Scotts Prodvisions (Bakery) Pty Ltd	172 George Street, Redfern	Address	105m	South East
Pie Mfrs.	Scotts Provisions (Bakery) Pty Ltd	172 George Street, Redfern	Address	105m	South East
Clothing-Dress Mfrs. &/or W'salers	Taka-Taka	145 Redfern Street, Redfern	Address	106m	North East
Knitted Goods-Mfrs. &/or W'salers	Regent Knitwear	138 Regent Street, Redfern	Address	106m	South
Cleaning Cloth Supplies	Asustral Manufacturing Co	76 Renwick Street, Redfern	Address	106m	North East
Cleaning Cloth Supplies	Wyanna Mills Pty Ltd	76 Renwick Street, Redfern	Address	106m	North East

Footwear-Mfrs. &/or W'salers	Star Shoes Imports Company	Corner Rosehill & Marian Streets, Redfern	Address	107m	West
Knitted Goods-Mfrs. &/or W'salers	Regent Knitwear	140 Regent Street, Redfern	Address	111m	South
Clothing-Dress Mfrs. &/or W'salers	Anna-Maria Fashions	70 William Lane, Redfern	Address	111m	South
Refrigeration-Commercial & Industrial-Retail &/or Service	Peters Commercial Refrigeration	146 George Street, Redfern	Address	126m	East
Powder Puff Mfrs.	Havas & Co Pty Ltd	182 Redfern Street, Redfern	Address	128m	North East
Textile Merchants &/or Mills	Melmark Mills Pty Ltd	46 Turner Street, Redfern	Address	129m	North East
Cutlery-Mfrs. &/or Wholesalers	Luke K Q Australia	199 Regent Street, Redfern	Address	139m	South
Silverware Mfrs. &/or W'salers	Luke KG Australia	199 Regent Street, Redfern	Address	139m	South
Clothing-Dress Mfrs. &/or W'salers	Poly-Gina Fashions	135 Redfern Street, Redfern	Address	145m	North East
Ladies' Handbags-Mfrs. &/or Wholesalers	Ashenden Leather Goods	Corner Marian & Cornwallis Streets, Redfern	Address	158m	West
Leather Goods-Mfrs. &/or Wholesalers	Ashenden Leather Goods	Corner Marian & Cornwallis Streets, Redfern	Address	158m	West
Partitions	Cole & McDiarmid Pty Ltd	Corner Cornwallis & Marian Streets, Redfern	Address	158m	West
Furniture Mfrs. &/or W'salers	La-Z-Boy International Pty Ltd	72 Lawson Square, Redfern	Address	169m	North
Steam Engineers	Moran & Wilson	68 Lawson Square, Redfern	Address	169m	North
Alarm Systems-Machinery Protection	Metropolitan Signals	54 Renwick Street, Redfern	Address	192m	North East
Bells & Chimes	Undadome Bells - Metropolitan Manufacturing	54 Renwick Street, Redfern	Address	192m	North East
Motor Service Stations	Mobil Oil Australia Ltd	George Street, Redfern	Street		
Motor Service Stations	BP Eveleigh Service Station	Regent Street, Redfern	Street		
Footwear-Mfrs. &/or W'salers	St Louis Shoes Pty Ltd	Gibbons Street, Redfern	Street		
Furniture Mfrs. &/or W'salers	Spanish Decor Pty Ltd	Marian Street, Redfern	Street		
Leather Goods-Mfrs. &/or Wholesalers	Ashenden & Ashenden	Marian Street, Redfern	Street		
Footwear-Mfrs. &/or W'salers	McCamley E & Sons Pty Ltd	Redfern Street, Redfern	Street		
Air Compressors &/or Equipment	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret Street, Redfern	Street		
Engineers-General	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret Street, Redfern	Street		

Engineers- Manufacturing	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret Street, Redfern	Street		
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* If no distance is provided, address no longer exists.

1980 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Motor Replacement Parts	Panjay Trading Co	104 Regent St., Redfern	Address	0m	South
Motor Replacement Parts	Shallmar Motor Supplies Pty Ltd	104 Regent St., Redfern	Address	0m	South
Motor Service Stations & Garages	Redfern Service Station	131 Regent St., Redfern	Address	20m	East
Hardware - Retail	Mason & Fletcher Pty Ltd	139 Regent St., Redfern	Address	20m	South East
Footwear - Mfrs &/or W'salers	Twin Kangaroo Footwear Co	143 Regent St., Redfern	Address	23m	South East
Tobacco Mfrs &/or W'salers	Cahill J H Pty Ltd	62 Regent St., Redfern	Address	39m	North
Footwear - Mfrs &/or W'salers	Athenian Shoes	70 Regent St., Redfern	Address	39m	North
Electric Tools - Retail &/or Repairs	Allbrand Power Tool Services Pty Ltd	78 Regent St., Redfern	Address	39m	North
Motor Service Stations & Garages	B P Aust Ltd	Cnr. Margaret & Regent Sts., Redfern	Address	51m	South
Motor Service Stations & Garages	BP Eveleigh Service Station	Cnr. Regent & Margaret Sts., Redfern	Address	51m	South
Clothing - Button & Buckle Mfrs. &/or W'salers	S.L. Fashion Accessories Pty Ltd	120 Regent St., Redfern	Address	65m	South
Plastics - Moulders	S L Plas-Tool & Co	120 Regent St., Redfern	Address	65m	South
Plastics - Products - Mfrs &/or W'salers	S L Plas-Tool & Co	120 Regent St., Redfern	Address	65m	South
Footwear - Mfrs &/or W'salers	Impala Shoes Pty Ltd	Cnr. Gibbons & Margaret Sts., Redfern	Address	75m	South West
Knitwear Mfrs. &/or W'salers	Victoria Knitting Mill	Cnr. Margaret & Gibbon Sts., Redfern	Address	75m	South West
Lawn Mowers - Retail &/or Repairs	D & S Motor Cycle Engineering Pty Ltd	126 Regent St., Redfern	Address	80m	South
Motor Cycles &/or Accessories	D & S Motor Cycle Engineering Pty Ltd	126 Regent St., Redfern	Address	80m	South
Dry Cleaners & Dyers	Palms Dry Cleaners	130 Regent St., Redfern	Address	89m	South
Chemists - Pharmaceutical	Redfern Pharmacy	155 Redfern St., Redfern	Address	93m	North
Printers - General	Rotographic Printing Co Pty Ltd	41 Turner St., Redfern	Address	98m	North East

Air Cylinders	Airspeed Products	183 Regent St., Redfern	Address	102m	South
Pneumatic Equipment & Supplies	Airspeed Products	183 Regent St., Redfern	Address	102m	South
Knitted Goods---Mfrs. &/or W'salers	Regent Knitwear	138 Regent St., Redfern	Address	106m	South
Knitting--- Wool &/or Accessories--- Mfrs. &/or W'salers	Regent Knitwear	138 Regent St., Redfern	Address	106m	South
Clothing - Dress Mfrs. &/or W'salers	Taka-Taka	145 Redfern St., Redfern	Address	106m	North East
Cleaning Cloth Supplies	Austral Manufacturing Co	76 Renwick St., Redfern	Address	106m	North East
Cleaning Cloth Supplies	Wyanna Mills Pty Ltd	76 Renwick St., Redfern	Address	106m	North East
Hospital Equipment &/or Supplies	Wyanna Mills Pty Ltd	76 Renwick St., Redfern	Address	106m	North East
Hotel, Restaurant & Club Supplies	Steiner (Aust) Pty Ltd	76 Renwick St., Redfern	Address	106m	North East
Hotel, Restaurant & Club Supplies	Wyanna Mills Pty Ltd	76 Renwick St., Redfern	Address	106m	North East
Linen Mfrs &/or W'salers	Wyanna Mills Pty Ltd	76 Renwick St., Redfern	Address	106m	North East
Research Laboratories	Rastutis Vincas Research Laboratory	126 Renwick St., Redfern	Address	106m	South East
Electronic Equipment & Parts - Retail or Service	Tandy Electronics Stores	143 Redfern St., Redfern	Address	110m	North East
Knitted Goods---Mfrs. &/or W'salers	Regent Knitwear	140 Regent St., Redfern	Address	111m	South
Clothing - Dress Mfrs. &/or W'salers	Anna-Maria Fashions	70 William Lane, Redfern	Address	111m	South
Clothes Pressing Service	Willpress Pty Ltd	46 Turner St., Redfern	Address	129m	North East
Laundries	Willpress Pty Ltd	46 Turner St., Redfern	Address	129m	North East
Bakers & Pastrycooks Supplies	Kwik Lok Australia Pty Ltd	15 Cornwallis St., Redfern	Address	136m	South West
Bakery Machinery	Kwik Lok Australia Pty Ltd	15 Cornwallis St., Redfern	Address	136m	South West
Food Processing, Canning &/or Packing Machinery	Kwik Lok Australia Pty Ltd	15 Cornwallis St., Redfern	Address	136m	South West
packaging, Filling & Sealing Equipment	Kwik Lok Australia Pty Ltd	15 Cornwallis St., Redfern	Address	136m	South West
Clothing - Jeans - Mfrs. &/or W'salers	Bargain Jeans	178 Redfern St., Redfern	Address	136m	North East
Cremation	Joseph Medcalf Pty Ltd	172 Redfern St., Redfern	Address	146m	North East
Panel Beaters &/or Painters	J A N Smash Repairs	156 Regent St., Redfern	Address	146m	South

Footwear - Mfrs &/or W'salers	Ashenden Leather Goods Pty Ltd	Cnr. Marian & Cornwallis Sts., Redfern	Address	158m	West
Furniture Mfrs. &/or W'salers	Spanish Décor	Cnr. Marian & Cornwallis Sts., Redfern	Address	158m	West
Leather Goods - Mfrs &/or W'salers	Ashenden Leather Goods Pty Ltd	Cnr. Marian & Cornwallis Sts., Redfern	Address	158m	West
Partitions	Cole & McDiarmid Pty Ltd	Cnr. Marian & Cornwallis Sts., Redfern	Address	158m	West
Shop & Office Fittings	Cole & McDiarmid Pty Ltd	Cnr. Marian & Cornwallis Sts., Redfern	Address	158m	West
Produce Merchants - Retail	Farrow Produce	158 Regent St., Redfern	Address	162m	South
Calculators and Adding Machines	Datakey Aust Pty Ltd	Cnr. Regent St. & Lawson Square, Redfern	Address	162m	North
Calculators and Adding Machines	Hewlett-Packard (Datakey Aust Pty Ltd)	Cnr. Regent St. & Lawson Square, Redfern	Address	162m	North
Photo Copies &/or Copying Equipment	Datakey Aust Pty Ltd	Cnr. Regent St. & Lawson Square, Redfern	Address	162m	North
Photo Copies &/or Copying Equipment	Sharp Copiers (Datakey Aust Pty Ltd)	Cnr. Regent St. & Lawson Square, Redfern	Address	162m	North
Steam Engineers	Moran & Wilson	68 Lawson Square, Redfern	Address	169m	North
Clothing - Dress Mfrs. &/or W'salers	Myris Fashions	72a Lawson Square, Redfern	Address	169m	North
Alarm Systems - Machinery Protection	Metropolitan Signals	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	A A Alarm Co	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	Automatic Burglar Alarm Co	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	Chubb Alarms	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	Metropolitan Chubb Alarms	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	Metropolitan Manufacturing	54 Renwick St., Redfern	Address	192m	North East
Burglar Alarm Systems	Metropolitan Signals	54 Renwick St., Redfern	Address	192m	North East
Television Systems - Closed Circuit	Metropolitan Chubb Alarms	54 Renwick St., Redfern	Address	192m	North East
Television Systems - Closed Circuit	Metropolitan Signals	54 Renwick St., Redfern	Address	192m	North East
Transport Services	TNT Lawson Square Pty Ltd	Lawson Square, Redfern	Street		
Transport Services	TNT Management Pty Ltd	Lawson Square, Redfern	Street		
Bond & Free Stores	Rudders	TNT Plaza Bldg, Lawson Square (Head Office), Redfern	Street		
customs agents	Rudders	TNT Plaza Bldg, Lawson Square, Redfern	Street		

Transport & Forwarding Agents	Alltrans International	TNT Plaza, Lawson Square, Redfern	Street		
Footwear - Mfrs &/or W'salers	McCamley E & Sons Pty Ltd	Redfern St., Redfern	Street		
Diesel Engineers	Diesel Injection (Aust) Pty Ltd	10 Boundary St., Redfern	Street		
Engines - Diesel &/or Equipment & Parts	Diesel Injection (Aust) Pty Ltd	10 Boundary St., Redfern	Street		
Smallgoods Mfrs &/or W'salers	Gourmet Goodies	19 Gibbons St., Redfern	Street		
Air Conditioning - Commercial & Industrial	JMB Air Conditioning (Contracting) Pty Ltd	76 Lawson Square, Redfern	Street		
Air Conditioning - Engineers	J M B Air Conditioning (Contracting) Pty Ltd	76 Lawson Square, Redfern	Street		
Air Compressors &/or Service	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret St., Redfern	Street		
Air Tools & Accessories - Supply &/or Service	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret St., Redfern	Street		
Engineers - General	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret St., Redfern	Street		
Engineers - Manufacturing	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret St., Redfern	Street		
Grinding - Precision & General	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret St., Redfern	Street		
French Polishers	Peacock J	20 Rosehill St., Redfern	Street		
Furniture Mfrs. &/or W'salers	G3 Furniture	20 Rosehill St., Redfern	Street		

* If no distance is provided, address no longer exists.

1990 HISTORICAL COMMERCIAL & TRADE DIRECTORY DATA

(200m Buffer)

Activity	Name	Address	Positional accuracy	Distance (m) *	Direction
Motor Service Stations & Garages	BP Australia Ltd	116 Regent, Redfern	Address	0m	South
Motor Replacement Parts	Shallmar Motor Supplies Pty Ltd	104 Regent Street, Redfern	Address	0m	South
Motor Service Stations & Garages	Redfern Service Station	131 Regent, Redfern	Address	20m	East
Clothing-Dress Mfrs &/Or W'Salers	Peter K Fashions	135 Regent Street, Redfern	Address	20m	East
Photographic Processing Services	Quality Image The	143 Regent Street, Redfern	Address	23m	South East
Printers - General	Martyn H C & Sons Pty Ltd	78 Regent, Redfern	Address	39m	North
Footwear-Mfrs &/Or W'Salers	Athenian Shoes	70 Regent Street, Redfern	Address	39m	North

Newspapers - General	Unification Printers & Publishers Pty Ltd	155 Regent Street, Redfern	Address	42m	South East
Printers - General	Unification Printers & Publishers Pty Ltd	155 Regent, Redfern	Address	42m	South East
Motor Service Stations & Garages	BP Eveleigh Service Station	Corner of Regent Street & Margaret Street, Redfern	Address	51m	South
Building Supplies	Aye-Gees Building Supplies	35 Cope Street, Redfern	Address	58m	East
Building Supplies	Read's Building Supplies	35 Cope Street, Redfern	Address	58m	East
Transport & Forwarding Agents	A S P Container Express	17 Cope, Redfern	Address	61m	North East
Transport & Forwarding Agents	Crossocean Consolidation Services	13 Cope, Redfern	Address	61m	North East
Transport Services	TNT Management Pty Ltd	13 Cope, Redfern	Address	61m	North East
Clothing-Belts-Apparel-Mfrs &/Or W'Salers	J & K Belts	120 Regent Street, Redfern	Address	65m	South
Clothing-Button & Buckle Mfrs &/Or W'Salers	S.L. Fashio Accessories Pty Ltd	51 Cope Street, Redfern	Address	66m	South East
Clothing-Dress Mfrs &/Or W'Salers	Lilac Fashion Pty Ltd	122 Regent Street, Redfern	Address	70m	South
Clothing-Dress Mfrs &/Or W'Salers	Linker Fashions Pty Ltd	122 Regent Street, Redfern	Address	70m	South
PhotoGraphers - Advertising & Fashion	Adam's John Stusio Pty Ltd	11 Cope Street, Redfern	Address	74m	North East
Photographers - Commercial & Industrial	Adam's John Stusio Pty Ltd	11 Cope Street, Redfern	Address	74m	North East
Photographic Equipment &/Or Supplies - Mfrs &/Or W'salers	Lightform	11 Cope Street, Redfern	Address	74m	North East
Photographic Equipment &/Or Supplies - Mfrs &/Or W'salers	Lightware	11 Cope Street, Redfern	Address	74m	North East
Photographic Processing Services - Professional	Retouching & Photocomp Specialist Pty Ltd	11 Cope Street, Redfern	Address	74m	North East
Printers - General	Kay General Printers	124 Regent, Redfern	Address	75m	South
Knitwear Mfrs &/Or W'salers	Victoria Knitting Mill	Cnr Margaret & Gibbon Streets, Redfern	Address	75m	South West
Motor Cycles &/Or Accessories	Sabre Cycles	126 Regent Street, Redfern	Address	80m	South
Clothing-Sportswear-Women's-Mfrs &/Or W'Salers	Flirt Pty Ltd	5 Cope Street, Redfern	Address	86m	North East
Dry Cleaners	Palms Stroke Dry Cleaners	130 Regent Street, Redfern	Address	89m	South

Catering Equipment &/Or Supplies	Gourmet Goodies	13 Gibbons Street, Redfern	Address	92m	South
Chemists-Pharmaceutical	Redfern Pharmacy	155 Redfern Street, Redfern	Address	93m	North
PhotoGraphers - Advertising & Fashion	Geoff Shaw Photography	78 Renwick Street, Redfern	Address	96m	North East
Photographers - Commercial & Industrial	Rapport Photo Agency	78 Renwick Street, Redfern	Address	96m	North East
Photographers - Commercial & Industrial	Walls Rob	78 Renwick Street, Redfern	Address	96m	North East
Printers - General	Kwik Kopy Printing Centres	41 Turner, Redfern	Address	98m	North East
Photographers - Commercial & Industrial	Lowve Jon	1 Marian Street, Redfern	Address	98m	West
Photographers - General	Auscage International Pty Ltd	1 Marian Street, Redfern	Address	98m	West
Research - Industrial &/Or Scientific	Rastutis Vincas Research Laboratory	126 Renwick Street, Redfern	Address	106m	South East
Knitting - Wool &/Or Accessories - Mfrs &/Or W'salers	Regent Knitwear	138 Regent Street, Redfern	Address	106m	South
Clothing-Jeans-Mfrs &/Or W'Salers	Jackson Corp Warehouse	143 Redfern Street, Redfern	Address	110m	North East
Clothing-Dress Mfrs &/Or W'Salers	Anna Maria Clothing	70 William Lane, Redfern	Address	111m	South
Clothing-Dress Mfrs &/Or W'Salers	Zande Fashions	70 William Lane, Redfern	Address	111m	South
Motor Cycles &/Or Accessories	Forcycle Engineering Pty Ltd	56 Cope Street, Redfern	Address	121m	South
Hire - Builders' Contractors' & Handyman's Equipment	C-Y Hire	Cnr Renwick & Turner Streets, Redfern	Address	123m	North East
Importers &/Or Imported Products	Vicar Holdings Import & Export Pty Ltd	189 Regent Street, Redfern	Address	123m	South
Panel Beaters &/or Painters	Town Auto Repairs	60 Cope, Redfern	Address	129m	South
Printing - Clothing &/or Textiles	Think Positive Design Studio	60 Cope Street, Redfern	Address	129m	South
Air Cargo Services	Dieterle & Victory (Usa) Pty Ltd	137 Redfern Street, Redfern	Address	132m	North East
Transport & Forwarding Agents	PFACS Australia Pty Ltd	15 Cornwallis, Redfern	Address	136m	South West
Building Contractors	S.W.G. (Hurstville) Constructions Pty Ltd	176 Redfern Street, Redfern	Address	138m	North East
Printers - General	R & T Central Press	195 Regent, Redfern	Address	140m	South
Fruiterers & Greengrocers	Keramea S	174 Redfern Street, Redfern	Address	142m	North East
Car &/or Minibus Rental	All Purpose Hire Cars	172 Redfern, Redfern	Address	146m	North East

Motor Engineers & Repairers	Regent Auto Repairs	154 Regent Street, Redfern	Address	146m	South
Electronic Equipment & Parts - Retail Or Service	Sheridan Electronics Pty Ltd	164 Redfern Street, Redfern	Address	155m	North East
Food &/Or General Stores	Triffit V B	114 George Street, Redfern	Address	165m	North East
Clothing-Dress Mfrs &/Or W'Salers	Kangaroo Clothing Co	156 Redfern Street, Redfern	Address	180m	North East
Clothing-Dress Mfrs &/Or W'Salers	Carelli	156A Redfern Street, Redfern	Address	180m	North East
Burglar Alarm Systems	Chubb Electronic Security	54 Renwick Street, Redfern	Address	192m	North East
Paging Systems---Radio	Chubb Telecommunications	54 Renwick Street, Redfern	Address	192m	North East
Security Systems &/Or Consultants	Chubb Australia Ltd	54 Renwick Street, Redfern	Address	192m	North East
Food Products-MFrS &/Or Processors	Kim Enterprises Pty Ltd	88 Rosehill Street, Redfern	Address	199m	South West
Carriers - Heavy	TNT Shipping & Development Ltd	Lawson Square, Redfern	Street		
Transport Services	TNT Lawson Square Pty Ltd	Lawson Square, Redfern	Street		
Transport Services	TNT Lawson Square Pty Ltd	Lawson Square, Redfern	Street		
Engineers-General	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret Street, Redfern	Street		
Grinding-Precision & General	Pneumatic Tool & Engineering Co Pty Ltd	4 Margaret Street, Redfern	Street		

* If no distance is provided, address no longer exists.

Land Insight and Resources use a number of different address georeferencing methods and characterised them according to the following criteria: completeness (match rates) and positional accuracy. When address do not contain specific street numbers or a match is not found, records identified as being in the surrounding areas are included for reference.

Historical dataset positional accuracy and georeferencing results explanation

Positional accuracy	Georeferenced	Description
Address	Located to the address level	<i>When street address and names fully matched.</i>
Street	Located to the street centroid	<i>When street names match but no exact address was found. Location is approximate.</i>
Place	Located to the structure, building or complex	<i>When building, residential complex or structure name match but no exact address was found. Location is approximate.</i>
Suburb	Located to the suburb area	<i>When suburb name match but no exact address was found. Location is approximate.</i>
Not georeferenced	Not found	<i>When it was not georeferenced, and address could not be found.</i>

Section 3 - Other Environmental Constraints

3.1 FEDERAL, STATE AND LOCAL HERITAGE

Map 9 (200m Buffer)

Local Environment Plan (LEP) Heritage

Site Name	Site ID	Significance	Type	Distance (m)*	Direction
Redfern Estate	C56	Local	Conservation Area - General	29	North-east
St Luke's Presbyterian Church	I1352	Local	Item - General	53	south
Former Redfern Municipal Electric Light Station	I1354	Local	Item - General	96	North-east
Terrace house	I1353	Local	Item - General	97	South-east
Electricity Substation No. 112	I2254	Local	Item - General	139	North-east
Redfern Station Booking Office	11	State	Item - General	161	North-west
Wood Block paving beneath bitumen surface	I1361	Local	Item - General	179	North-east

National Heritage List (NHL)

Site Name	Site ID	Class	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

Register of the National Estate (RNE)

Site Name	Site ID	Class	Status	Distance (m)	Direction
Eveleigh Railway Workshops	15903	Historic	Registered	156	west

Non-Aboriginal heritage item (Local)

Site Name	Site ID	Class	Status	Distance (m)	Direction
Greater Eveleigh Railway Precinct	106189	Historic	Nominated place	57	North-west

Non-Aboriginal heritage item (SHR)*

Site Name	Site ID	Listing n°	Plan n°	Distance (m)	Direction
Redfern Railway Station group	5012154	01234	2340	57	west
Eveleigh Railway Workshops	5045103	01140	2347	156	west

*State Heritage Register

Commonwealth Heritage List (CHL)

Site Name	Site ID	Class	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

World Heritage Area (WHA)

Site Name	Site ID	IUCN	Status	Distance (m)	Direction
Not identified	-	-	-	-	-

3.2 NATURAL HAZARDS & COASTAL MANAGEMENT

Map 10 (500m Buffer)

Bush Fire Prone Land (BPL)

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

Fire History (Wildfires and Prescribed Burns)

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

Flood Hazard Area

Name	On the Property?	Within Record Search Buffer?
Not identified	-	-

3.3 STATE ENVIRONMENTAL PLANNING POLICY (COASTAL MANAGEMENT)

Map 10 (500m Buffer)

Type	On the Property?	Within Record Search Buffer?
Coastal Wetlands Proximity Area	Not identified	Not identified
Coastal Wetlands	Not identified	Not identified
Coastal Environment Area Map	Not identified	Not identified
Coastal Use Area Map	Not identified	Not identified



**LAND INSIGHT
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ATTACHMENT A

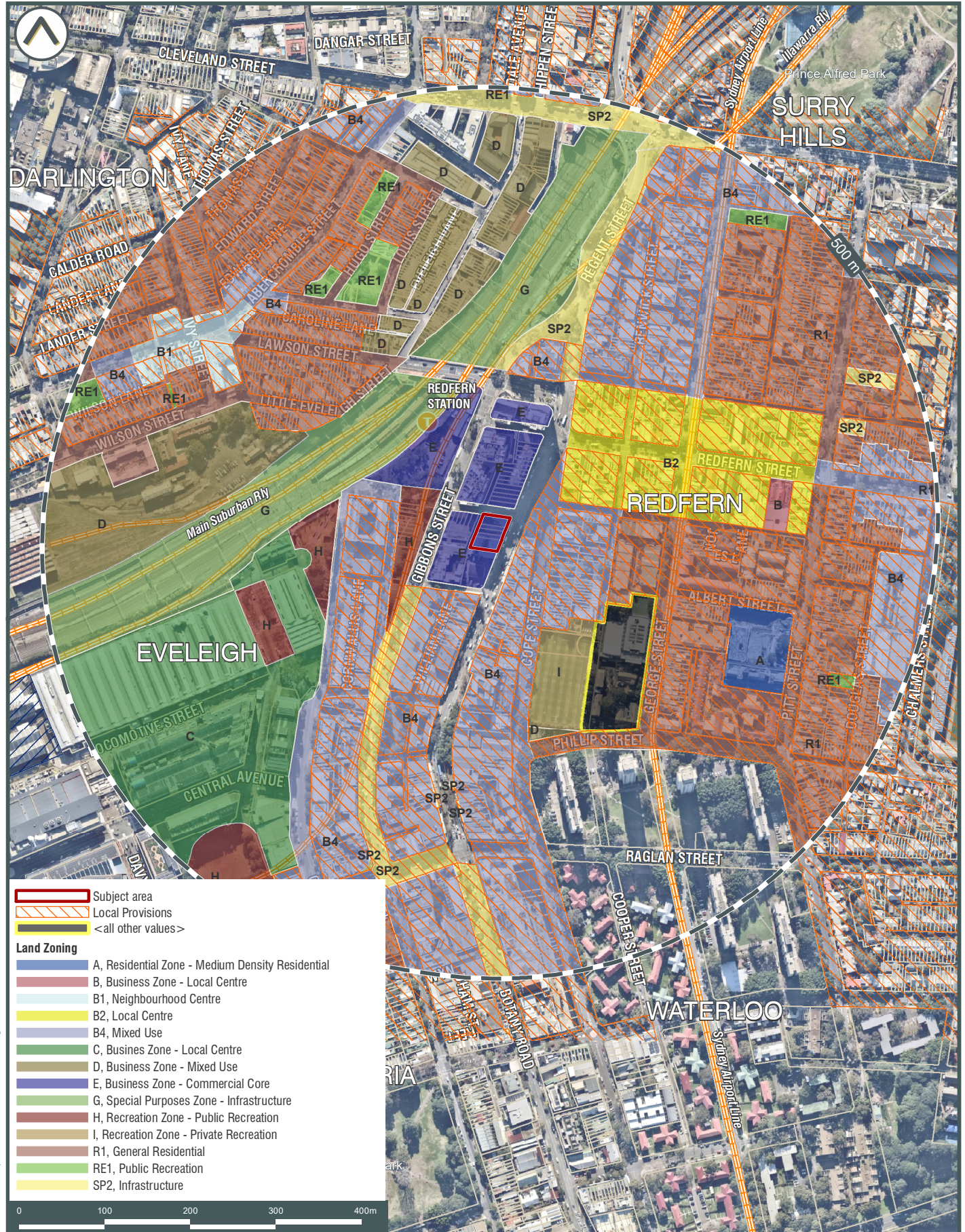
Report Maps



SUBJECT AREA AND SENSITIVE RECEPTORS

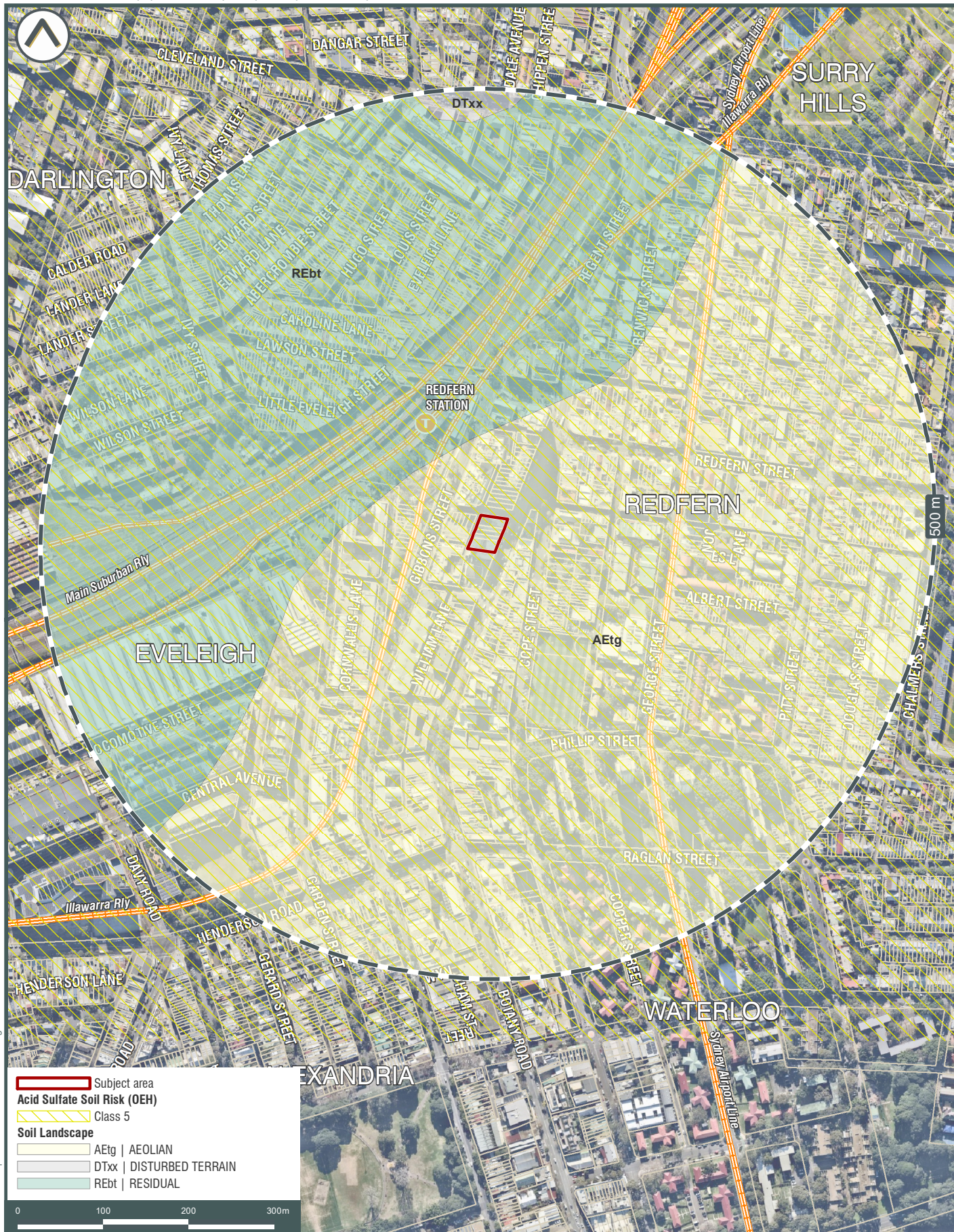
MAP 1





PLANNING CONTROLS





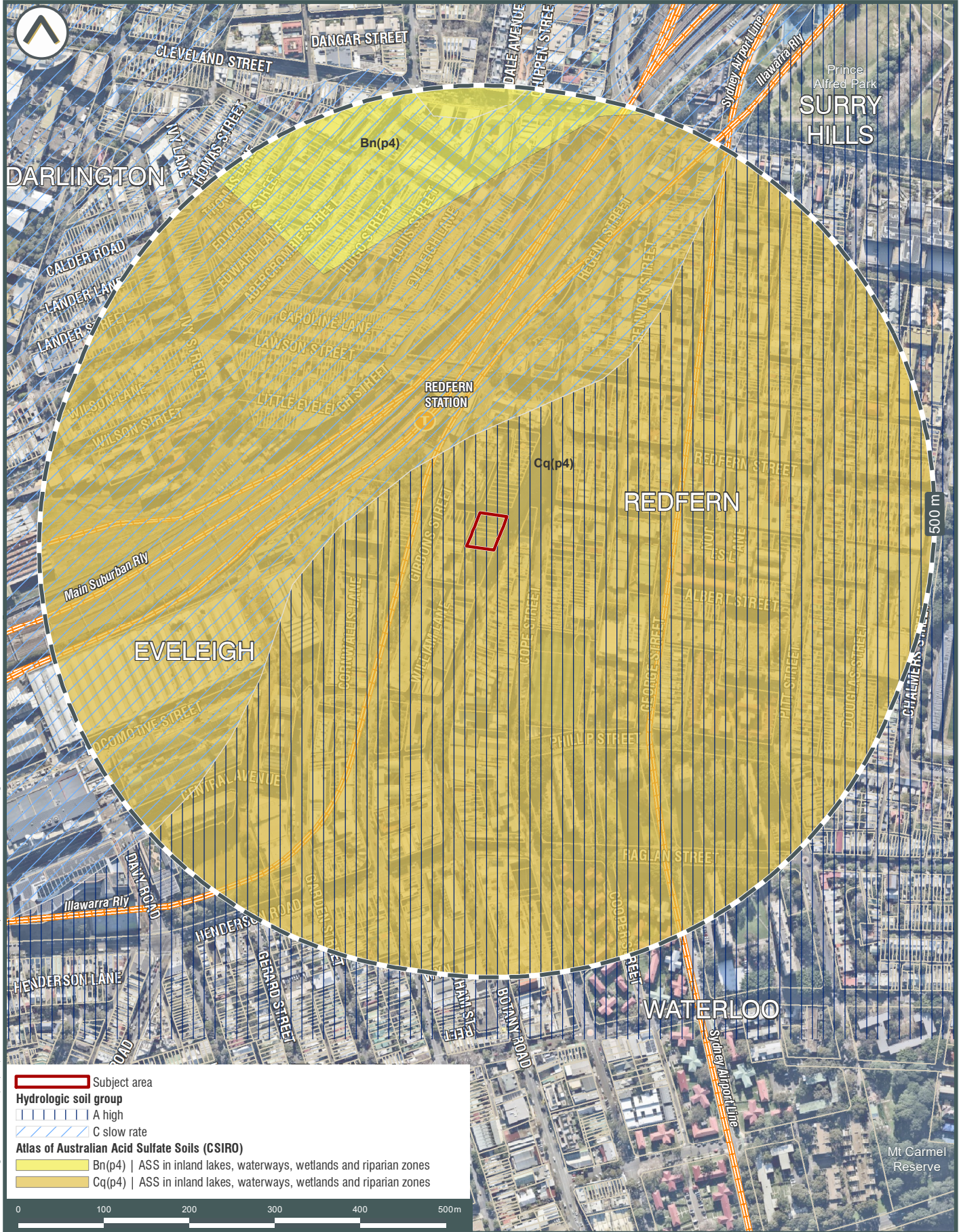
SOIL LANDSCAPES AND ACID SULFATE SOIL RISK



MAP 3a

Enviro-Screen



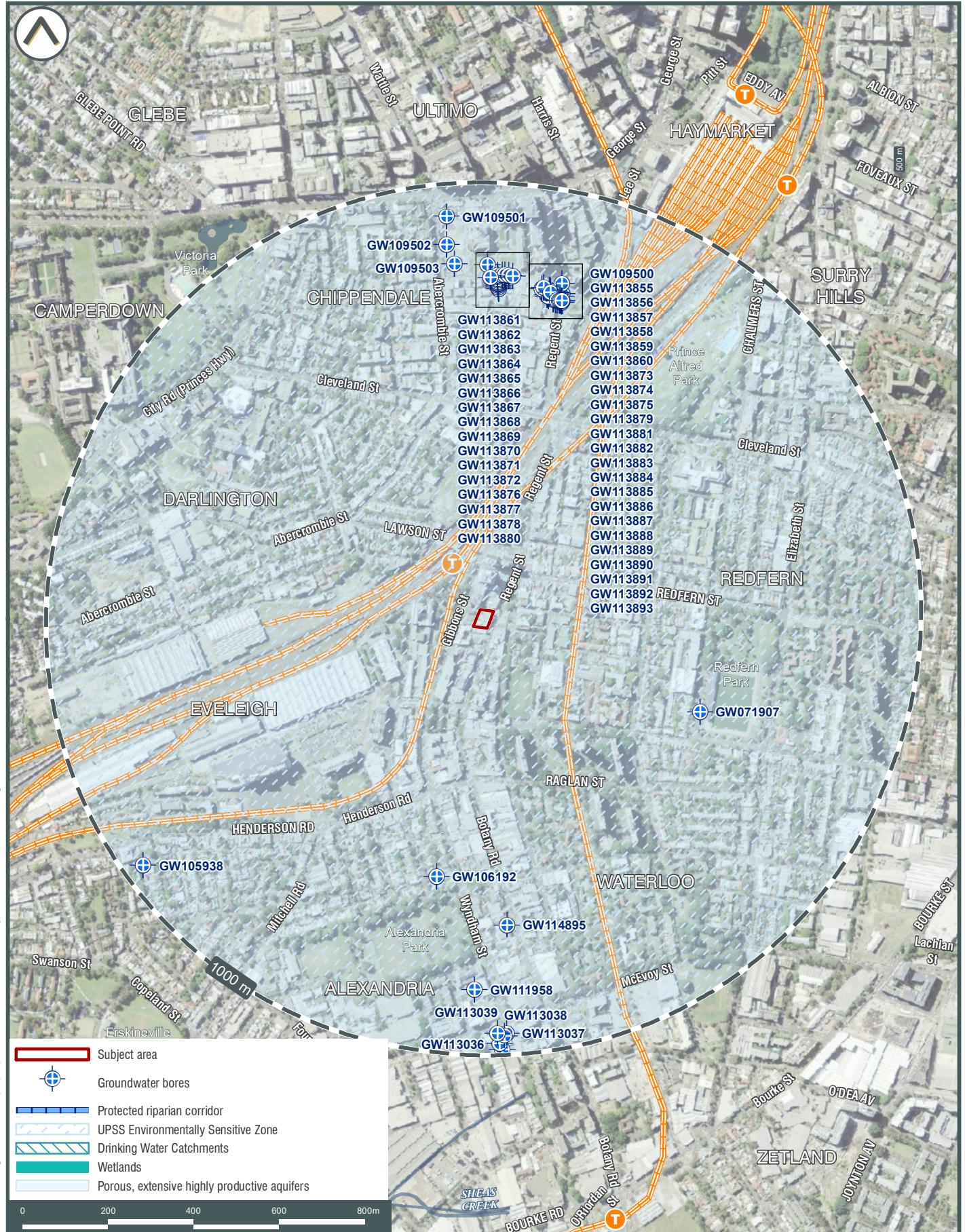


ATLAS OF AUSTRALIAN ACID SULFATE SOILS AND SALINITY



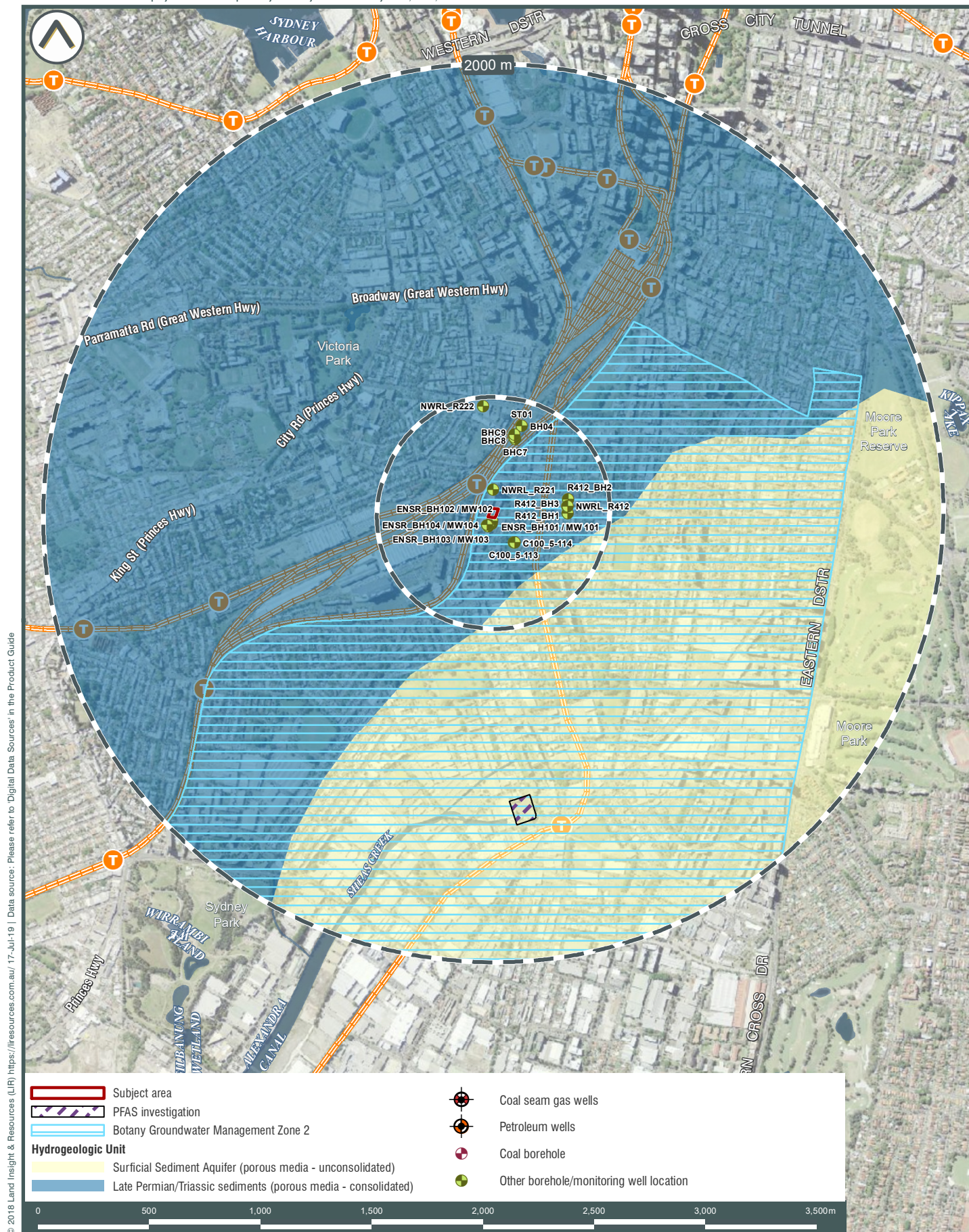
GEOLOGY AND TOPOGRAPHY





HYDROGEOLOGY AND GROUNDWATER BORES





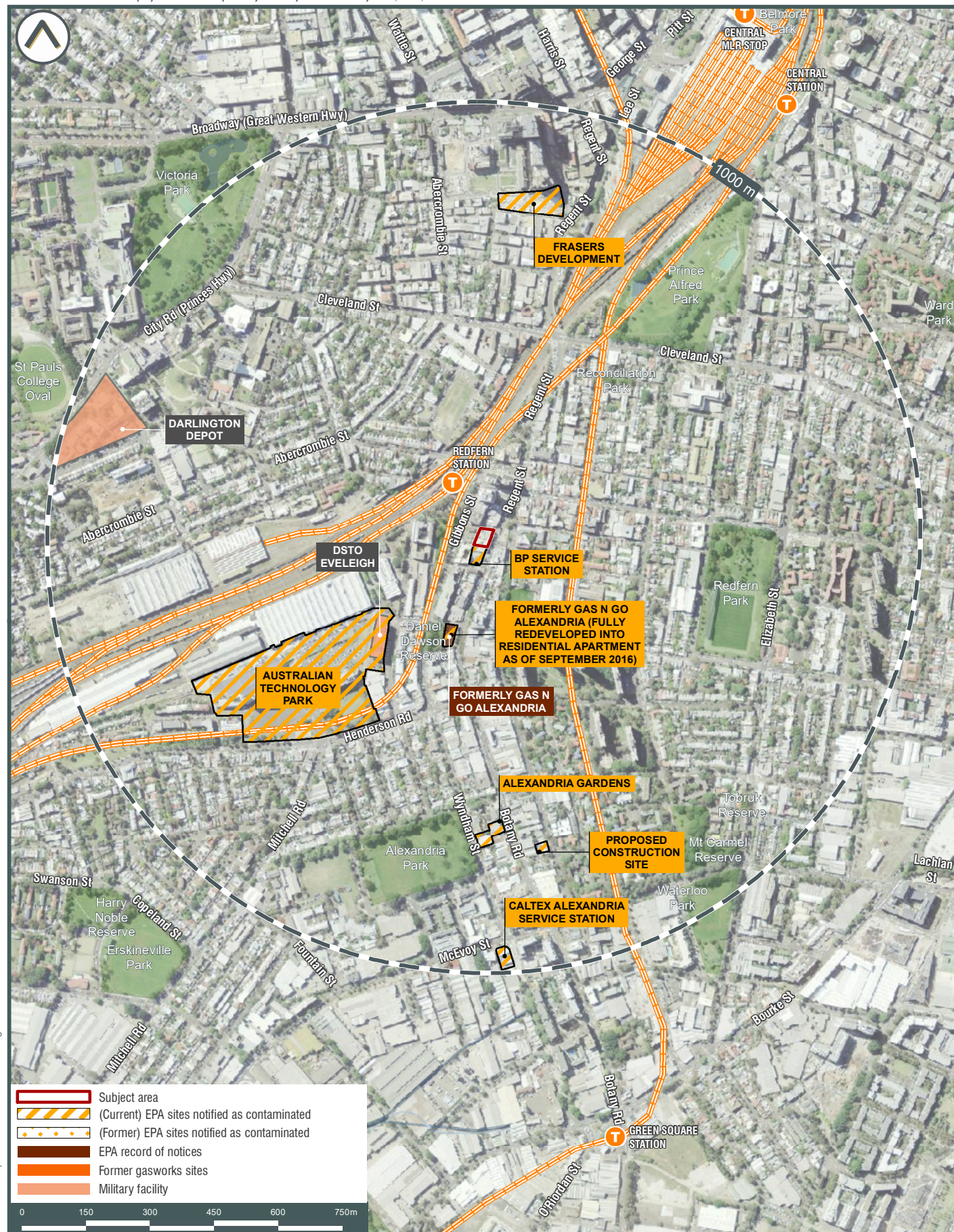
HYDROGEOLOGY AND OTHER BOREHOLES



MAP 5b

Enviro-Screen





EPA RECORDS AND OTHER REGULATORY CONTAMINATION ISSUES



POTENTIALLY CONTAMINATING ACTIVITIES





CURRENT COMMERCIAL AND TRADE DATA



MAP 7

Enviro-Screen







© LIR 17-Jul-19 | Data source: Please refer to Digital Data Sources in the Product Guide

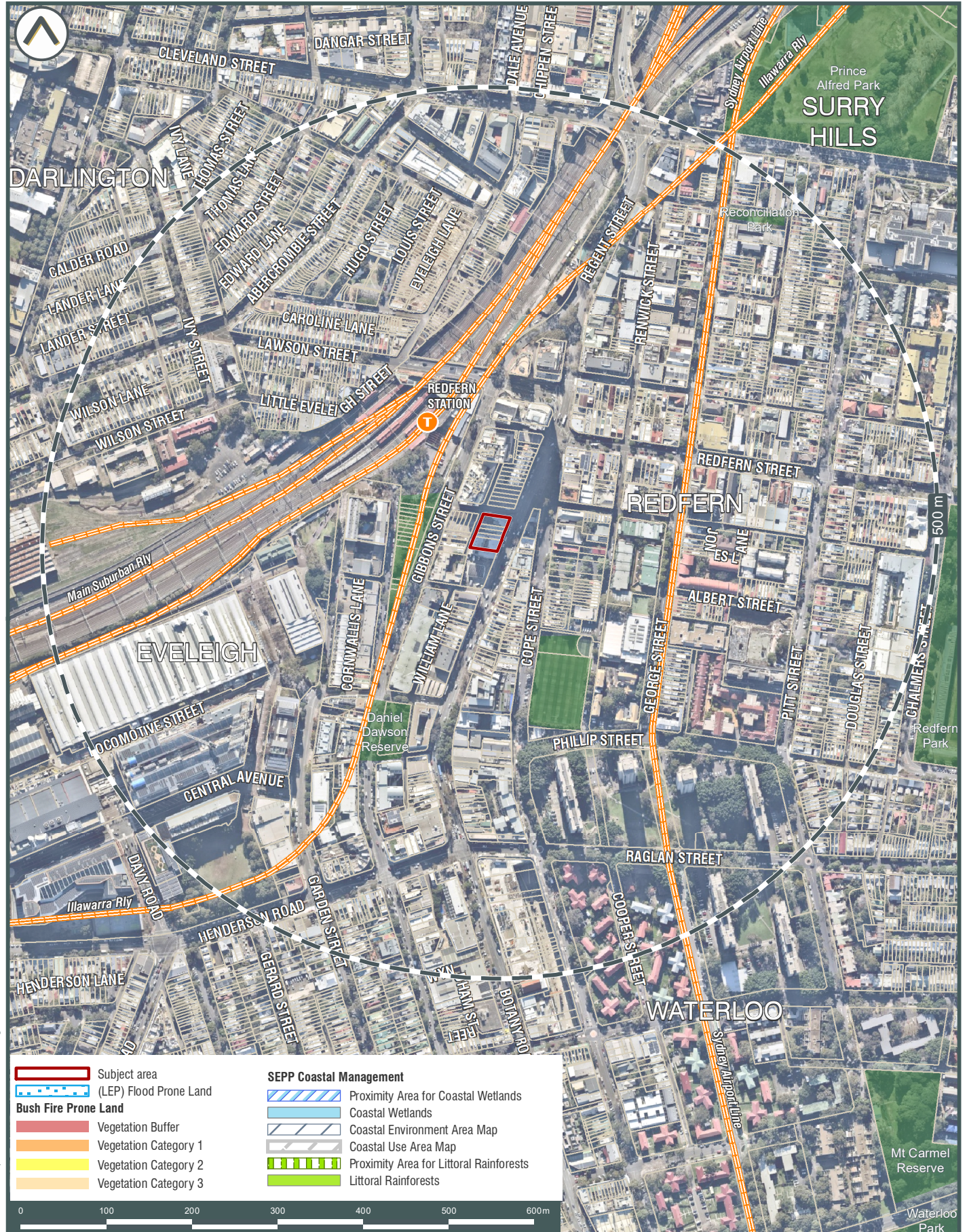
HERITAGE



MAP 9

Enviro-Screen





NATURAL HAZARD AND COASTAL MANAGEMENT





ATTACHMENT B

Historical Imagery



HISTORIC AERIAL PHOTOGRAPH - 1930



LUR-00744 Aerial Photograph, 1943, 16.07.2019. Data source: Please refer to 'Digital Data Sources' in the Product Guide

HISTORIC AERIAL PHOTOGRAPH - 1943



MAP 12





LUR-00744 Aerial Photograph 1951 16 07 2019. Data source: Please refer to 'Digital Data Sources' in the Product Guide

HISTORIC AERIAL PHOTOGRAPH - 1951



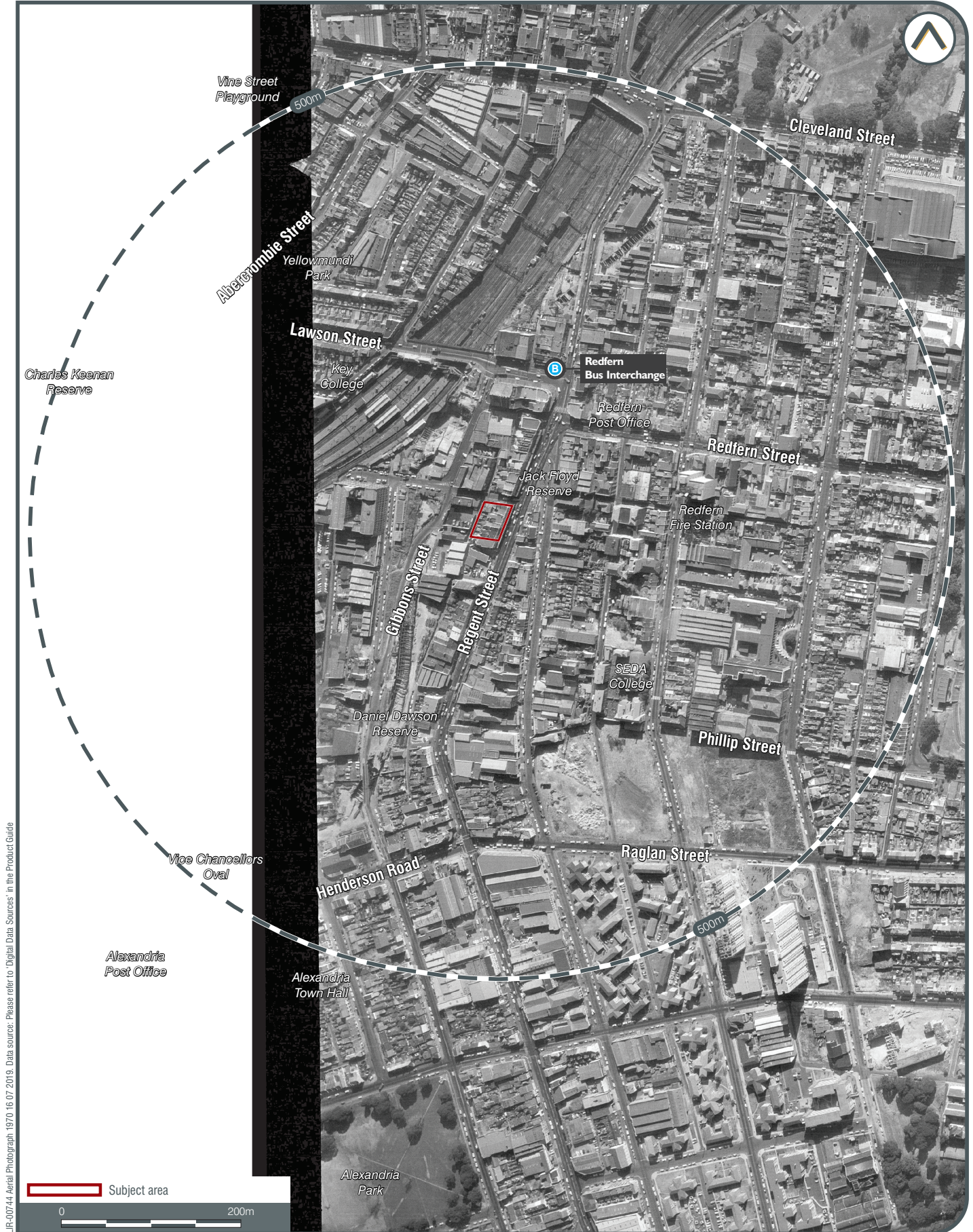
MAP 13





HISTORIC AERIAL PHOTOGRAPH - 1965





HISTORIC AERIAL PHOTOGRAPH - 1970



LUR-00744 Aerial Photograph: 1975 16 07 2019. Data source: Please refer to 'Digital Data Sources' in the Product Guide

HISTORIC AERIAL PHOTOGRAPH - 1975