Submission No 67

Item F, Tab 1 (1/2)

INQUIRY INTO ENROLMENT CAPACITY IN INNER CITY PUBLIC PRIMARY SCHOOLS

Name: NSW Department of Education

Date received: 27 September 2016

ENVIRONMENTAL INVESTIGATION SERVICES

REPORT

TO

TANNER KIBBLE DENTON ARCHITECTS PTY LTD

ON

STAGE 1 AND PRELIMINARY STAGE 2 ENVIRONMENTAL SITE ASSESSMENT

FOR

PROPOSED TEMPORARY SCHOOL

AT

WENTWORTH PARK SOUTH, OFF WENTWORTH PARK ROAD, ULTIMO, NSW

2 JUNE 2016 **REF: E29319Krpt**

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Document Distribution Record		
Report Reference	**Distribution**	**Report Date**
E29319Krpt	1 * e-copy	2 June 2016

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EXECUTIVE SUMMARY

Tanner Kibble Denton Architects ('the client') commissioned Environmental Investigation Services (EIS) to undertake a Stage 1 and Preliminary Stage 2 Environmental Site Assessment (ESA) for the proposed temporary school at Wentworth Park South, off Wentworth Park Road, Ultimo, NSW.

The site location is shown on Figure 1 and the assessment was confined to the proposed development area as shown on Figure 2. The proposed development area is referred to as 'the site' in this report. The site address is also known as 1 and 5 Wentworth Park Road, Glebe.

EIS understands that a temporary school will be constructed of single storey demountable buildings. This includes an administration building, library, hall, canteen and amenities. EIS are aware that various existing buildings on the site are to be demolished.

The scope of work included the following:

- Review of site information including background and site history information;
- A site inspection to identify Areas of Environmental Concern (AEC);
- Preparation of a Preliminary Conceptual Site Model (PCSM);
- Design and implementation of a sampling, analysis and quality plan (SAQP);
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC);
- Data Quality Assessment;
- Undertake a Tier 1 Risk Assessment and review of CSM; and
- Preparation of a report presenting the results of the assessment.

A review of the site history information indicated the following:

- The site was a swamp prior to 1880. The swamp was backfilled in 1882 and used as a park;
- The aerial photographs indicate that commercial/industrial type buildings were located over parts of the site from prior to 1943 until sometime before 1955.
- The aerial photographs indicate the demolition of numerous buildings/structures at the site; and
- Aerial photographs and internet search indicate that parts of the site may have been used an army camp and wool store. The UBD directories indicate that a Wool store was listed for the site in 1950.

The Conceptual Site Model (CSM) identified the following Areas of Environmental Concern (AEC):

- Fill Material (Entire Site) - The site appears to have been historically filled to achieve existing levels. The fill may have been imported from various sources and can contain elevated concentrations of contaminants. The geological map indicates that the site is underlain by man-made fill (including dredged estuarine sand and mud, demolition rubble, industrial and household waste). Hazardous Ground Gases (HGG) are usually associated with decomposing industrial and household wastes used to fill areas;
- Commercial Use –Parts of the site have been used for commercial uses. Leakage and spillage of petroleum hydrocarbons could have resulted in site contamination;
- Off-Site Commercial Use – The internet searches indicated that adjoining activities such as abattoirs, boiling down works and a tannery were located next to the site prior to be backfilled. Leakage and spillage of petroleum hydrocarbons could have resulted in site contamination;
- Hazardous Building Material - The buildings on the site have been constructed prior to 1990's. Hazardous building materials were used for construction purposes during this period. The material can pose a potential contamination source during demolition/development. The aerial photographs indicate that former buildings at the site were demolished. The use of hazardous building material in the former buildings could have resulted in potential contamination.

Samples for this investigation were obtained from 15 sampling points as shown on the attached Figure 2. This density meets the minimum sampling density recommended by the EPA. HGG monitoring wells were installed in 4 selected boreholes (BH6, BH8, BH11 and BH15) spread across the site as shown on Figure 2. Waterloo Membrane Samplers (WMS) were installed in 4 selected boreholes (BH5, BH7, BH10 and BH13) as shown on Figure 2 to assess potential soil vapour issues associated with vapours originating from soil and/or groundwater. Selected samples were obtained during the investigation were analysed for a range of

Contaminants of Primary Concern (CoPC) as outlined in the report. The laboratory results were assessed against the SAC.

The investigation encountered elevated concentrations of lead and B(a)P TEQ in the fill soils above the health based SAC. Elevated concentrations of heavy metals and B(a)P were encountered in fill soils above the ecological based SAC. HGG were not detected within the monitoring wells. Soil vapour results were below the health based SAC.

The CoPC encountered above the SAC adopted for this investigation pose a risk to site receptors. EIS are of the opinion that the risk posed to human receptors is moderate and will require remediation and/or management. The principal exposure pathway for these contaminants is direct contact. Therefore any measures that interrupt this pathway will result in a significant reduction in risk. EIS are of the opinion that the risk posed to on-site environmental receptors is moderate. However, the principal reason for the investigation was to assess whether the site was suitable for a temporary school. Based on site observations the current site configuration the environmental receptors (vegetation) did not appear to be adversely affected by the elevated concentrations.

The assessment has identified the following data gaps:

- Areas beneath the existing buildings have not been included in the assessment; and
- The groundwater conditions at the site have not been assessed. Due to the depth of groundwater at the site, the soil vapour results and the minimal (if any) excavation required for the proposed development EIS are of the opinion that the potential for groundwater contamination posing a risk to site receptors as being relatively low.

EIS consider that the site can be made suitable for the proposed development provided that the following recommendations are implemented to better manage/characterise the risks:

1. Undertake a Quantitative Health Risk Assessment in accordance with enHealth and Appendix VII of the Guidelines for the NSW Site Auditor Scheme (2006) for the CoPC;

2. Following the completion of the Quantitative Health Risk Assessment the data would be incorporated into preparing a Remediation Action Plan (RAP) to outline remedial measures for the site. Should the preferred option be to manage the contamination an Environmental Management Plan (EMP) for the ongoing management of contamination remaining on site. The EMP will require establishment of appropriate public notification under Section 149(2) of the E&PAA 1979 or a covenant registered on the title to land under Section 88B of the Conveyancing Act 1919; and

3. Prepare a Validation Assessment (VA) report on completion of remediation.

In the event unexpected conditions are encountered during development work or between sampling locations that may pose a contamination risk, all works should stop and an environmental consultant should be engaged to inspect the site and address the issue.

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

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ABBREVIATIONS

Ambient Background Concentrations	**ABC**
Added Contaminant Limits	**ACL**
Asbestos Containing Material	**ACM**
Australian Drinking Water Guidelines	**ADWG**
Area of Environmental Concern	**AEC**
Australian Height Datum	**AHD**
Asbestos Health Screening Levels	**ASL**
Acid Sulfate Soil	**ASS**
Above Ground Storage Tank	**AST**
Below Ground Level	**BGL**
Bureau of Meteorology	**BOM**
Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene	**BTEXN**
Cation Exchange Capacity	**CEC**
Contaminated Land Management	**CLM**
Construction Management Plan	**CMP**
Chain of Custody	**COC**
Contaminant of Primary Concern	**CoPC**
Conceptual Site Model	**CSM**
Data Quality Indicator	**DQI**
Data Quality Objective	**DQO**
Detailed Site Investigation	**DSI**
Ecological Assessment Criteria	**EAC**
Ecological Investigation Levels	**EILs**
Ecological Screening Level	**ESL**
Environmental Management Plan	**EMP**
Excavated Natural Material	**ENM**
Environmental Protection Agency	**EPA**
Environmental Site Assessment	**ESA**
Ecological Screening Level	**ESL**
Fibre Cement Fragments	**FCF**
General Approvals of Immobilisation	**GAI**
General Solid Waste	**GSW**
Health Investigation Level	**HILs**
Hardness Modified Trigger Values	**HMTV**
Health Screening Level	**HSLs**
International Organisation of Standardisation	**ISO**
Lab Control Spike	**LCS**
Light Non-Aqueous Phase Liquid	**LNAPL**
Local Government Authority	**LGA**
Map Grid of Australia	**MGA**
National Association of Testing Authorities	**NATA**
National Environmental Protection Measure	**NEPM**
Organochlorine Pesticides	**OCP**
Organophosphate Pesticides	**OPP**
Polycyclic Aromatic Hydrocarbons	**PAH**

ABBREVIATIONS

Potential Contaminants of Concern	**PCC**
Photo-ionisation Detector	**PID**
Practical Quantitation Limit	**PQL**
Preliminary Site Investigation	**PSI**
Quality Assurance	**QA**
Quality Control	**QC**
Remediation Action Plan	**RAP**
Relative Percentage Difference	**RPD**
Restricted Solid Waste	**RSW**
Site Assessment Criteria	**SAC**
Sampling, Analysis and Quality Plan	**SAQP**
Site Audit Statement	**SAS**
Site Audit Report	**SAR**
Specific Contamination Concentration	**SCC**
Standard Penetration Test	**SPT**
Semi-Volatile Organic Compounds	**sVOC**
Standard Sampling Procedure	**SSP**
Standard Water Level	**SWL**
Standard Sampling Procedure	**SSP**
Trip Blank	**TB**
Toxicity Characteristic Leaching Procedure	**TCLP**
Total Recoverable Hydrocarbons	**TRH**
Trip Spike	**TS**
Upper Confidence Limit	**UCL**
United States Environmental Protection Agency	**USEPA**
Underground Storage Tank	**UST**
Virgin Excavated Natural Material	**VENM**
Volatile Organic Compounds	**VOC**
Volatile Organic Chlorinated Compound	**VOCC**
Workplace, Health and Safety	**WHS**

1 INTRODUCTION

Tanner Kibble Denton Architects ('the client') commissioned Environmental Investigation Services (EIS)[1] to undertake a Stage 1 and Preliminary Stage 2 Environmental Site Assessment (ESA) for the proposed temporary school at Wentworth Park South, off Wentworth Park Road, Ultimo, NSW.

The site location is shown on Figure 1 and the assessment was confined to the proposed development area as shown on Figure 2. The proposed development area is referred to as 'the site' in this report. The site address is also known as 1 and 5 Wentworth Park Road, Glebe.

A geotechnical investigation was undertaken in conjunction with this assessment by JK Geotechnics[2]. The results of the investigation are presented in a separate report (Ref. 29319ZHrpt, dated 16 May 2016[3]). This report should be read in conjunction with the JK report.

1.1 Proposed Development Details

EIS understands that a temporary school will be constructed of single storey demountable buildings. This includes an administration building, library, hall, canteen and amenities. EIS are aware that various existing buildings on the site are to be demolished.

1.2 Objectives

The assessment objectives are to:

- Assess the potential for site contamination;
- Assess the potential risk the contamination may pose to the site receptors;
- Provide a preliminary waste classification for the off-site disposal of soil; and
- Comment on the suitability of the site for the proposed development/landuse.

1.3 Scope of Work

The assessment was undertaken generally in accordance with an EIS proposal (Ref: EP9786K) of 4 March 2016 and written acceptance from the client of 1 April 2016.

The scope of work included the following:

- Review of site information including background and site history information;
- A site inspection to identify Areas of Environmental Concern (AEC);
- Preparation of a Preliminary Conceptual Site Model (PCSM);
- Design and implementation of a sampling, analysis and quality plan (SAQP);
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC);
- Data Quality Assessment;

[1] Environmental consulting division of Jeffery & Katauskas Pty Ltd (J&K)
[2] Geotechnical consulting division of J&K
[3] Referred to as JK 2016 Report

- Undertake a Tier 1 Risk Assessment and review of CSM; and
- Preparation of a report presenting the results of the assessment.

The report was prepared with reference to regulations/guidelines outlined in the table below. Individual guidelines are also referenced within the text of the report.

Table 1-1: Guidelines

Guidelines/Regulations
Contaminated Land Management Act 1997[4]
State Environmental Planning Policy No.55 – Remediation of Land 1998[5]
Guidelines for Consultants Reporting on Contaminated Sites 2011[6]
Guidelines for the NSW Site Auditor Scheme, 2nd Edition 2006[7]
National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended 2013[8]

[4] NSW Government Legislation, (1997), *Contaminated Land Management Act 1997.* (referred to as CLM Act 1997)

[5] NSW Government, (1998), *State Environmental Planning Policy No. 55 – Remediation of Land.* (referred to as SEPP55)

[6] NSW Office of Environment and Heritage (OEH), (2011), *Guidelines for Consultants Reporting on Contaminated Sites.* (referred to as Reporting Guidelines 2011)

[7] NSW DEC, (2006), *Guidelines for the NSW Site Auditor Scheme, 2nd ed.* (referred to as Site Auditor Guidelines 2006)

[8] National Environment Protection Council (NEPC), (2013), *National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013).* (referred to as NEPM 2013)

2 SITE INFORMATION

2.1 Site Identification

Table 2-1: Site Identification

Current Site Owner:	The State of New South Wales & Wentworth Park Sporting Complex Trust
Site Address:	1 and 5 Wentworth Park Road, Glebe, NSW
Lot & Deposited Plan:	Lot 678 DP729635 Lot 679 DP729635 Lot 680 DP729635
Current Land Use:	Public open space and commercial
Proposed Land Use:	Educational
Local Government Authority (LGA):	City of Sydney
Current Zoning:	Sydney Regional Environmental Plan 26 City West
Area of Proposed Development (m^2):	4,692
RL (AHD in m) (approx.):	4
Geographical Location (MGA) (approx.):	N: 6249924.123 E: 333005.567
Site Location Plan:	Figure 1
Sample Location Plan:	Figure 2

2.2 Site Location and Regional Setting

The site is located in a mixed use area of Glebe. The site is bounded by Wattle Street to the east. The site is located approximately 500m to the south-east of Blackwattle Bay.

2.3 Topography

The site is located within undulating regional topography with the site located within the base of the Blackwattle Creek 'gully'. The site itself was relatively flat.

2.4 Site Inspection

A walkover inspection of the site was undertaken by EIS on 20 April 2016. The inspection was limited to accessible areas of the site and immediate surrounds. An internal inspection of buildings was not undertaken. Selected site photographs obtained during the inspection are attached in the appendices.

At the time of the inspection, the proposed temporary school site was relatively flat and mostly covered with grass and scattered trees. The northern portion of the proposed school footprint extended into the neighbouring 'Greyhounds' precinct, which contained several one and two storey brick buildings and sheds. The areas surrounding the buildings were covered with shrubs and asphaltic concrete (AC).

2.5 Surrounding Land Use

The immediate surrounds included the following landuses:

- North – commercial land use associated with the greyhound precinct.
- South –public open space (parts of Wentworth park)
- East – mixed use
- West – public open space

2.6 Underground Services

The 'Dial Before You Dig' (DBYD) plans were reviewed for the assessment. Copies of the relevant plans are attached in the appendices. A brief summary of the relevant information is present below:

Table 2-2: Summary of Relevant Services

Service	Location	Potential Migratory Pathway
Stormwater	The Sydney Water plan indicates stormwater channels running through the site towards Blackwattle bay to the north. The approximate location of the stormwater channels are shown on Figure 2.	The backfill around the stormwater channels could act as a potential migratory pathway.
Electrical	The plans indicate that an electricity easement passes through the site.	The backfill around the electrical cables could act as a migratory pathway.

2.7 Regional Geology

A review of the regional geological map of Sydney (1983[9]) indicates that the site is underlain by man-made fill (dredged estuarine sand and mud, demolition rubble, industrial and household waste) overlying Quaternary aged deposits of silty to peaty quartz sand, silt and clay with ferruginous & humic cementation in places and common shell layers.

2.8 Soil Landscape and Dryland Salinity

The 1:100,000 Sydney soil landscape map indicates that the site is located in the Disturbed Terrain landscape area and the Gymea landscape area. The Gymea soils are generally derived from erosional processes.

The site is not located in an area impacted by dryland salinity.

2.9 Acid Sulfate Soil (ASS) Risk

A review of the ASS risk maps prepared by Department of Land and Water Conservation (1997[10]) indicates that the site is located in an area classed as 'disturbed terrain'.

The 'disturbed terrain' classification is adopted in large scale filled areas which often occur during reclamation of low lying swamps for urban development, in areas which may have been mined or dredged or have undergone heavy ground disturbance through general urban development or the construction of dams and levees. The majority of landforms within these areas are not expected to encounter PASS. However, localised occurrences may be found at depth. Disturbance of these materials will result in a risk that will vary with elevation and depth of disturbance. Soil investigation is required to assess these areas for PASS.

[9] Department of Mineral Resources, (1983), *1:100,000 Geological Map of Sydney (Series 9130).*
[10] Department of Land and Water Conservation, (1997), *1:25,000 Acid Sulfate Soil Risk Map (Series 9130S3, Ed 2).*

2.10 Hydrogeology

A review of groundwater bore records available on the NSW Office of Water[11] (NOW) online database was undertaken as part of this assessment. The search was limited to registered bores located within a radius of approximately 1km of the site.

The search indicated approximately twenty one (21) bores within the search area registered for monitoring purposes. Copies of the records are included in the Lotsearch report attached in the appendices.

A review of the regional geology and groundwater bore information indicates that the subsurface condition at the site is expected to consist of residual soils overlying relatively shallow bedrock. The occurrence of groundwater that could be utilised as a resource for beneficial use is considered to be relatively low under such conditions. A perched aquifer in the subsurface may be present.

2.11 Receiving Water Bodies

The closest surface water body is Blackwattle Bay located approximately 500m to the north of the site. The site location and regional topography indicates that excess surface water flows have the potential to enter Blackwattle Bay. This water body can be a potential receptor.

[11] http://www.waterinfo.nsw.gov.au/gw/

3 SITE HISTORY INFORMATION

3.1 Review of Historical Aerial Photographs

Historical aerial photographs available at the NSW Department of Lands were reviewed for the assessment. Copies are included in the Lotsearch report attached in the appendices. A summary of the relevant information is presented in the following table:

Table 3-1: Summary of Historical Aerial Photos

Year	Details
1943	The site appeared to form part of three separate sites. A large commercial/industrial type building was visible over the south eastern section of the site. A grassed area with a few trees was visible in the south western corner of the site. Numerous small structures were observed towards the centre and northern parts of the site. The greyhound track appeared visible to the north of the site with rows of tents visible towards the centre of the greyhound track. The immediate surrounds of the site appeared to be commercial/industrial.
1951	The site and its immediate surrounds generally appeared similar to the 1943 photograph. The rows of tents towards the centre of the greyhound track were not visible in this photograph.
1955	The site had undergone slight change. The commercial/industrial type building visible in the earlier photographs towards the south eastern corner of the site appeared to have been demolished. This section of the site appeared to be covered by grass. The immediate surrounds of the site generally appeared similar to the 1951 photograph.
1961	The site had undergone slight change. The site appeared to form part of two separate sites. The grassed area visible in the earlier photographs towards the south western part of the site appeared to have extended across to the south eastern section of the site. The numerous small structures visible towards the central and northern parts of the site were still visible along with a larger structure towards the northern boundary of the site. This larger building extended beyond the northern site boundary. The immediate surrounds of the site generally appeared similar to the 1955 photograph.
1970	The site and its immediate surrounds generally appeared similar to the 1961 photograph.
1982	The site had undergone slight change. A small structure was visible towards the south eastern part of the site. Smaller structures were visible between the numerous buildings observed towards the central and northern parts of the site in the earlier photographs.
1991	The site had undergone slight change. The small structure visible over the south eastern part of the site appeared to have been demolished with a hardstand area visible in the same

Year	Details
	location. A small structure was visible directly adjacent to the west of this area. Some of the buildings and structures observed towards the centre and northern parts of the site appeared to have been demolished. The immediate surrounds of the site generally appeared similar to the 1982 photograph.
2000	The site had undergone slight change. The hardstand area and small structure visible towards the south eastern corner of the site in the 1991 photograph appeared to have been removed. Grass was visible on the ground surface in this area. The immediate surrounds of the site generally appeared similar to the 1991 photograph.
2007	The site and its immediate surrounds appeared generally similar to the 2000 photograph.
2016	The site had undergone slight change. The majority of the structures and buildings visible towards the centre and northern parts of the site appeared to have been demolished. An asphaltic concrete car park area was visible in this area surrounding the remaining buildings. The immediate surrounds of the site appeared similar to the 2007 photograph.

3.2 Review of Land Title Records

Land title records were reviewed for the assessment. The record search was undertaken by Advance Legal Searchers Pty Ltd. Copies of the title records are attached in the appendices.

The land title records did not identify any particular landuses which could have resulted in significant contamination. The professions of the individuals listed on the title records are not considered to be associated with site related activities.

3.3 Review of City of Sydney Council Information

3.3.1 Publically Accessible Information

Council records available under the access to public information were reviewed for the assessment.

The council records did not identify any particular activities which could have resulted in significant contamination at the site.

3.3.2 Section 149 Planning Certificate

The s149 (2 and 5) planning certificates were reviewed for the assessment. Copies of the certificates are attached in the appendices.

A summary of the relevant information is outlined below:

a) The site is not deemed to be:
   - significantly contaminated;
   - subject to a management order;
   - subject of an approved voluntary management proposal; or
   - subject to an on-going management order under the provisions of the CLM Act 1997;

b) The site is not subject to a Site Audit Statement (SAS);

c) The site is located within a Class 1 or 2 ASS risk area; and

d) The site is not located in a heritage conservation area.

3.4 SafeWork NSW Records

SafeWork NSW (Formerly WorkCover NSW) records were reviewed for the assessment. Copies of relevant documents are attached in the appendices.

The search identified a license to store 1,500 litres of mineral spirit along with 1,500 litres of mineral oil. This licence was obtained in 1975. The search documents indicated that the licence had expired in 1996 and was not renewed.

Based on supplied documentation EIS are of the opinion that the licence is for an adjoining property on the corner of Wentworth Park Road and Cowper Street, Glebe, which is located 120m south west of the site.

3.5 NSW EPA Records

The NSW EPA records available online were reported within the Lotsearch report and reviewed for the assessment. Copies of relevant documents are attached in the Lotsearch report in appendices. A summary of the relevant information is provided in the following table:

Table 3-2: Summary of NSW EPA Online Records

Source	Details
CLM Act 1997[12]	There were no notices for the site under Section 58 of the Act.
NSW EPA List of Contaminated Sites[13]	The site is not listed on the NSW EPA register. It is noted that two sites within 400metres of the site are listed on the notified sites list and are currently under assessment.
POEO Register[14]	There were no notices for the site on the POEO register.

[12] http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx,
[13] http://www.epa.nsw.gov.au/clm/publiclist.htm,
[14] http://www.epa.nsw.gov.au/prpoeoapp/,

3.6 Historical Business Directories

A review of the 1950, 1970 and 1991 historical business directory records available with UBD Business Directory was undertaken in the Lotsearch report for the assessment. Copies of the records are attached in the appendices. The records indicated the following:

- 1950 Directory – The site was occupied by a Wool Store operated by NSW State Wool Committee. A skin and hide merchant was road matched to the site in the directory by the Lotsearch review. However the exact location of this could not be determined. The directory contained multiple listing of dry cleaners, service stations, smash repairs, motor mechanics and electroplaters that had been located within 500m of the site. A drycleaners was located 280m east of the site;
- 1970 Directory – There were no records for the site. A box and case merchant/manufacturer Ultimo Box Co was road matched to the site in the directory by the Lotsearch review. However the exact location of this could not be determined. As with the 1950 directory there were multiple listing of dry cleaners, service stations, smash repairs and motor mechanics that had been located within 500m of the site. A motor garage was located 400m south of the site; and
- 1991 Directory – There were no records for the site. Listings of motor garages and service stations were located within 300m of the site.

3.7 Anecdotal Site Information

Based on preliminary findings during a brief internet search of Wentworth Park the following has been summarised of historical activities:

- The site is located on a former swamp that was surrounded by abattoirs, boiling down works and a tannery in the 1830s.
- The swamp was backfilled in the 1880's to address concerns raised about the stench associated with the waste that was discharged into the swamp.
- Following completion of the backfilling operation the park was opened in 1882.
- During the Second World War the park was used as an American Army Camp and wool store.
- Wentworth Park was used as a speedway from 1928 to 1936.

3.8 Summary of Site History Information

A summary of the historical land uses is presented below. The land uses and time periods are based on a weight of evidence assessment of the site history documentation and observations made during the site inspection.

A review of the site history information indicated the following:

- The site was a swamp prior to 1880. The swamp was backfilled in 1882 and used as a park;
- The aerial photographs indicate that commercial/industrial type buildings were located over parts of the site from prior to 1943 until sometime before 1955.
- The aerial photographs indicate the demolition of numerous buildings/structures at the site; and

- Aerial photographs and internet search indicate that parts of the site may have been used an army camp and wool store. The UBD directories indicate that a Wool store was listed for the site in 1950.

3.9 Integrity of Site History Information

The majority of the site history information has been obtained from government organisations as outlined above. The veracity of the information from these sources is considered to be relatively high.

A certain degree of information loss can be expected given the age of the development; gap between aerial photographs; and lack of detailed information prior to the 1900's.

4 PRELIMINARY CONCEPTUAL SITE MODEL (PCSM)

The AEC identified below are based on a review of the site and site history information outlined previously in this report. The AEC can either be a point source or widespread areas impacted by current or historical activities.

Table 4-1: PCSM

AEC / Extent	CoPC	Potential Exposure Pathway and Media	Potential Receptors
Fill Material – Entire Site The site appears to have been historically filled to achieve existing levels. The fill may have been imported from various sources and can contain elevated concentrations of contaminants. The geological map indicates that the site is underlain by man-made fill (including dredged estuarine sand and mud, demolition rubble, industrial and household waste). Hazardous Ground Gases (HGG) are usually associated with decomposing industrial and household wastes used to fill areas.	Heavy metals, TRH, BTEXN, PAHs, OCPs, OPPs, PCB, VOCs and asbestos HGG which may pose a risk to receptors include: methane (CH_4); carbon dioxide (CO_2); hydrogen sulphide (H_2S) and traces of other gases.	Direct Contact – dermal contact; ingestion; and inhalation of dust, vapours and fibres. Media - soil, groundwater and vapour.	Human Receptors – Site occupants; visitors; development and maintenance workers; and off-site occupants. Environmental Receptors – Flora and fauna at the site and immediate surrounds; and receiving water bodies.
Commercial Use –Parts of the site have been used for commercial uses. Leakage and spillage of petroleum hydrocarbons could have resulted in site contamination.	Lead, TRH, BTEXN, PAHs and VOCs	Direct Contact – dermal contact; ingestion; and inhalation of dust and vapours. Media - soil, groundwater and vapour.	Human Receptors – As Above Environmental Receptors – As Above
Off-Site Commercial Use – The internet searches indicated that adjoining activities such as abattoirs, boiling down works and a tannery were located next to	Lead, TRH, BTEXN, PAHs and VOCs	Direct Contact – dermal contact; ingestion; and inhalation of dust and vapours.	Human Receptors – As Above Environmental Receptors – As Above

AEC / Extent	CoPC	Potential Exposure Pathway and Media	Potential Receptors
the site prior to be backfilled. Leakage and spillage of petroleum hydrocarbons could have resulted in site contamination.		Media- soil, groundwater and vapour.	
Hazardous Building Material – The buildings on the site have been constructed prior to 1990's. Hazardous building materials were used for construction purposes during this period. The material can pose a potential contamination source during demolition/development. The aerial photographs indicate that former buildings at the site were demolished. The use of hazardous building material in the former buildings could have resulted in potential contamination.	Asbestos, lead and PCBs	Direct Contact – dermal contact; ingestion; and inhalation of dust and fibres. Media – soil and air.	Human Receptors – As Above Environmental Receptors – As Above

5 SAMPLING, ANALYSIS AND QUALITY PLAN

5.1 Data Quality Objectives (DQO)

The NEPM 2013 defines the DQO process as a seven step iterative planning tool used to define the type, quantity and quality of data needed to inform decisions relating to the environmental condition of the site.

The DQO process is detailed in the US EPA document *Guidance on systematic planning using the data quality process (2006[15])* and the NSW DEC document *The Guidelines for the NSW Site Auditor Scheme, 2nd Edition (2006[16])*.

These seven steps are applicable to this assessment as summarised in the table below:

Table 5-1: DQOs – Seven Steps

Step	Input
State the Problem	The PCSM has identified AEC at the site which may pose a risk to the site receptors. An intrusive investigation is required to assess the risk and comment on the suitability of the site for the proposed temporary school. The EIS project team will include: project principal (PP) and/or project associate (PA); project engineer/scientist (PE); and field engineer/scientist (FE) as outlined in the quality recorded checklist maintained for the project in accordance with our ISO 9001 certification.
Identify the Decisions/ Goal of the Study	The data collection is project specific and has been designed based on the following information: • Review of site information including site history; • AEC, PCC, receptors, pathways and medium identified in the PCSM; • Development of Site Assessment Criteria (SAC) for each media; and • The use of decision statements outlined below: 1. Are any of the soil results above the adopted SAC? 2. Do the soil vapour results indicate a potential vapour issue associated with soil/groundwater? 3. Do the HGG results indicate a ground gas issue? 4. Is further investigation necessary? 5. Is the site suitable for the proposed use? The data will be assessed in the following manner: 1) Statistical analysis will be used to assess the laboratory data against the SAC. The following criteria will be adopted: ➢ The 95% Upper Confidence Limit (UCL) value of the arithmetic mean concentration of each contaminant should be less than the SAC;

[15] US EPA, (2006), *Guidance on Systematic Planning using the Data Quality Objectives Process.* (referred to as US EPA 2006)
[16] NSW DEC, (2006), *Guidelines for the NSW Site Auditor Scheme, 2nd ed.* (referred to as Site Auditor Guidelines 2006)

Step	Input
	➢ The standard deviation (SD) of the results must be less than 50% of the SAC; and ➢ No single value exceeds 250% of the relevant SAC. 2) Statistical calculations will not be undertaken if all results are below the SAC; and 3) Statistical calculations will not be undertaken on the following: ➢ Soil vapour results – elevated results can pose a vapour risk; and ➢ HGG readings– presence of HGG can pose a risk to receptors.
Identify Information Inputs	The following information will be collected: • Soil samples based on subsurface conditions; • HGG readings from monitoring wells; • Soil vapour samples; • The SAC will be designed based on the criteria outlined in NEPM 2013. Other criteria will be used as required and detailed in this report; • The samples will be analysed in accordance with the analytical methods outlined in NEPM 2013; • Field screening information (i.e. PID data, presence of hydrocarbons etc.) will be taken into consideration in selecting the analytical schedule; and • Any additional information that may arise during the field work will also be used as data inputs.
Define the Study Boundary	The sampling will be confined to the proposed temporary school area of the site as shown in Figure 2. Fill has been identified as an AEC. The source of fill has not been established. Fill is considered to be heterogeneous material with PCC occurring in random pockets or layers. The presence of PCC in between sampling points cannot be measured.
Develop the analytical approach (or decision rule)	The following acceptable limits will be adopted for the data quality assessment: • The following acceptance criteria will be used to assess the RPD results: ➢ results > 10 times the practical quantitation limit (PQL), RPDs < 50% are acceptable; ➢ results between 5 and 10 times PQL, RPDs < 75% are acceptable; ➢ results < 5 times PQL, RPDs < 100% are acceptable; and ➢ An explanation is provided if RPD results are outside the acceptance criteria. • Acceptable concentrations in Trip Blanks (TB) samples. Non-compliance to be documented in the report; • The following acceptance criteria will be used to assess the primary laboratory QA/QC results. Non-compliance to be documented: ➢ <u>RPDs</u>: - Results that are < 5 times the PQL, any RPD is acceptable; and - Results > 5 times the PQL, RPDs between 0-50% are acceptable; ➢ <u>LCS recovery and matrix spikes</u>:

Step	Input
	- 70-130% recovery acceptable for metals and inorganics; - 60-140% recovery acceptable for organics; and - 10-140% recovery acceptable for VOCs; ➢ Surrogate spike recovery: - 60-140% recovery acceptable for general organics; and - 10-140% recovery acceptable for VOCs; ➢ Blanks: All less than PQL.
Specify the performance or acceptance criteria	NEPM 2013 defines decision errors as '*incorrect decisions caused by using data which is not representative of site conditions*'. This can arise from errors during sampling or analytical testing. A combination of these errors is referred to as '*total study error*'. The study error can be managed through the correct choice of sample design and measurement. Decision errors can be controlled through the use of hypothesis testing. The test can be used to show either that the baseline condition is false or that there is insufficient evidence to indicate that the baseline condition is false. The null hypothesis is an assumption that is assumed to be true in the absence of contrary evidence. In this case, for example, the PCC identified in the PCSM is considered to pose a risk to receptors unless proven not to. The null hypothesis has been adopted for this assessment.
Optimise the design for obtaining data	The most resource-effective design will be used in an optimum manner to achieve the assessment objectives.

5.2 Soil Sampling Plan and Methodology

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

Table 5-2: Soil Sampling Plan and Methodology

Aspect	Input
Sampling Density	The NSW EPA Contaminated Sites Sampling Design Guidelines (1995[17]) recommend a sampling density for an environmental assessment based on the size of the investigation area. The guideline provides a minimum number of sampling points required for the investigation on a systematic sampling pattern. The guidelines recommend sampling from a minimum of 15 evenly spaced sampling points for this site with an area of approximately 5,700m^2.

[17] NSW EPA, (1995), *Contaminated Sites Sampling Design Guidelines.* (referred to as EPA Sampling Design Guidelines 1995)

Aspect	Input
	Samples for this investigation were obtained from 15 sampling points as shown on the attached Figure 2. This density meets the minimum sampling density recommended by the EPA.
Sampling Plan	The sampling locations were placed on a systematic plan with a grid spacing of approximately 20m between sampling location. A systematic plan was considered suitable to address potential contaminants associated with the fill material.
Exclusion Areas (Data Gaps)	Sampling was not undertaken in inaccessible areas of the site such as beneath existing buildings. These areas have been excluded from the investigation.
Sampling Equipment	Soil samples were obtained on 20 April 2016 in accordance with the standard sampling procedure (SSP) attached in the appendices. Sampling locations were set out using a tape measure. In-situ sampling locations were cleared for underground services by an external contractor prior to sampling as outlined in the SSP. The sample locations were drilled/excavated using the following equipment as shown on the borehole logs attached in the appendices: • Hydraulically operated drill rig equipped with spiral flight augers. Soil samples were obtained from a Standard Penetration Test (SPT) sampler or directly from the auger when conditions did not allow use of the SPT sampler; and • A four-wheel-drive (4wd) mounted hydraulically push tube rig. Soil samples were obtained from disposable polyethylene push tube samplers.
Sampling Collection and Field QA/QC	Soil samples were collected from the fill and natural profiles based on field observations. The sampling depths are shown on the logs attached in the appendices. Additional samples were obtained when relatively deep fill (>0.5m) was encountered. Samples were also obtained when there was a distinct change in lithology or based on the observations made during the investigation. During sampling, soil at selected depths was split into primary and duplicate samples for field QA/QC analysis. Samples were placed in glass jars with plastic caps and teflon seals with minimal headspace. Samples for asbestos analysis were placed in zip-lock plastic bags. Sampling personnel used disposable nitrile gloves during sampling activities. The samples were labelled with the job number, sampling location, sampling depth and date in accordance with the SSP.
Field PID Screening for	A portable Photoionisation Detector (PID) was used to screen the samples for the presence of VOCs and to assist with selection of samples for hydrocarbon analysis.

Aspect	Input
VOCs	The sensitivity of the PID is dependent on the organic compound and varies for different mixtures of hydrocarbons. Some compounds give relatively high readings and some can be undetectable even though present in identical concentrations. The portable PID is best used semi-quantitatively to compare samples contaminated by the same hydrocarbon source. The PID is calibrated before use by measurement of an isobutylene standard gas. All the PID measurements are quoted as parts per million (ppm) isobutylene equivalents. PID calibration records are attached in the appendices. PID screening for VOCs was undertaken on soil samples using the soil sample headspace method. VOC data was obtained from partly filled zip-lock plastic bags following equilibration of the headspace gases.
Decontami-nation and Sample Preservation	The decontamination procedure adopted during sampling is outlined in the SSP. Where applicable, the sampling equipment was decontaminated using a scrubbing brush and potable water and Decon 90 solution (phosphate free detergent) followed by rinsing with potable water. Soil samples were preserved by immediate storage in an insulated sample container with ice in accordance with the SSP. On completion of the fieldwork, the samples were delivered in the insulated sample container to a NATA registered laboratory for analysis under standard COC procedures.

5.3 HGG Sampling Plan and Methodology

The HGG sampling plan and methodology is outlined in the table below:

Table 5-3: HGG Sampling Plan and Methodology

Aspect	Input
Sampling Plan	HGG monitoring wells were installed in 4 selected boreholes (BH6, BH8, BH11 and BH15) spread across the site as shown on Figure 2. The monitoring well locations were chosen based on subsurface conditions encountered during the investigation and to target potential contamination sources where applicable.
Exclusion Areas (Data Gaps)	Sampling was not undertaken in inaccessible areas of the site such as beneath existing buildings. These areas have been excluded from the investigation.
Monitoring	The monitoring well construction details are documented on the appropriate borehole logs

Aspect	Input
Well Installation Procedure	attached in the appendices. The monitoring wells were installed to depths of approximately 1.1m below ground level. The wells were constructed as follows: • A 50mm diameter Class 18 PVC casing and machine slotted screen; • A 2mm sand filter pack was used around the screen section in the response zone to monitor the gas; • A bentonite seal/plug was used on top of the slotted section to seal the wells; • A concrete plug was installed at the surface to prevent gas leakage from the wells; • An air tight 'landfill cap with a valve' was installed at the top for gas monitoring; and • A gatic cover was installed at the surface with a concrete plug. Screening for HGG was undertaken during drilling using a hand held landfill gas analyser GFM436. The instrument is calibrated to measure the following: methane (%v/v and LEL), carbon dioxide (%v/v), oxygen (%v/v), carbon monoxide (ppm), hydrogen sulphide (ppm), differential pressure (DP) (Pa) and flow (L/hr). The HGG concentrations were recorded directly after the extraction of the drill string at the completion of drilling by placing the gas probe at the opening of the borehole. HGG field data recorded during the investigation are attached in the appendices.
HGG Monitoring	HGG measurements were obtained from the wells on 5 May 2016. Readings were taken by connecting the GFM436 directly to the landfill gas valve. Measurements of the following parameters were taken using the handheld unit for at least five (5) minutes: • Methane (%v/v and % LEL); • Carbon dioxide (%v/v); • Oxygen (%v/v); • Carbon monoxide (ppm); • Hydrogen sulfide (ppm); • Flow rate (L/hr); • Differential pressure (hPa); and • Atmospheric pressure (hPa) measured prior to and on completion of sampling at each well location. The field monitoring records and calibration data are attached in the appendices.

5.4 Soil Vapour Sampling Plan and Methodology

The soil vapour sampling plan and methodology is outlined in the table below:

Table 5-4: Soil Vapour Sampling Plan and Methodology

Aspect	Input

Aspect	Input
Sampling Plan	Waterloo Membrane Samplers (WMS) were installed in 4 selected boreholes (BH5, BH7, BH10 and BH13) as shown on Figure 2 to assess potential soil vapour issues associated with vapours originating from soil and/or groundwater. The WMS were installed on 21 April 2016
Exclusion Areas (Data Gaps)	Sampling was not undertaken in inaccessible areas of the site such as beneath existing buildings. These areas have been excluded from the investigation.
Vapour Well Installation Procedure	The vapour sampling locations were set out using a tape measure and cleared for underground services by an external contractor. The sample locations were drilled using a hand held battery operated hammer drill or hand auger for the installation of the vapour wells. The vapour wells were installed to depths of approximately 1.0m below ground level. The vapour wells were constructed as follows: • The borehole was drilled to a depth of approximately 1.0m; • The WMS was attached to a wire/string and suspended at the base of the borehole; • A foam plug was placed inside a plastic sleeve into the borehole slightly above the WMS; and A grass and soil seal was installed at the surface.
Soil Vapour Sampling	The WMS were allowed to absorb vapours for approximately 14 days after installation. WMS were retrieved on 5 May 2016.
Sample Preservation	The WMS were placed back into the glass vial, sealed with Teflon tape and placed into the polycoated aluminium pouch. The pouch was placed in an insulated container with ice bricks. On completion of the fieldwork, the samples were delivered to a NATA registered laboratory for analysis under standard COC procedures.

5.5 Analytical Schedule

The analytical schedule is outlined in the following table:

Table 5-5: Analytical Schedule

CoPC	Fill Samples	Natural Soil Samples	Soil Vapour Samples
Heavy Metals	18	Na	Na
TRH/BTEXN	18	Na	4
VOCs	Na	Na	4
PAHs	18	Na	Na

CoPC	Fill Samples	Natural Soil Samples	Soil Vapour Samples
OCPs/OPPs	18	Na	Na
PCBs	18	Na	Na
Asbestos	18	Na	Na
TCLP Metals	11	Na	Na
TCLP PAHs	13	Na	Na
Asbestos in Fibre Cement Fragments (FCF)	18	Na	Na

5.5.1 Laboratory Analysis

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

Table 5-6: Laboratory Details

Samples	Laboratory	Report Reference
All primary samples and field QA/QC samples including (intra-laboratory duplicates and trip blanks)	Envirolab Services Pty Ltd NSW, NATA Accreditation Number – 2901 (ISO/IEC 17025 compliance)	145327, 145327-A, 145327-B & 145327-C
Inter-laboratory duplicates	Envirolab Services Pty Ltd Perth, NATA Accreditation Number – 2901 (ISO/IEC 17025 compliance)	179923
All HGG and vapour samples and field QA/QC samples	SGS Leeder Consulting , Melbourne NATA Accreditation Number – 14429 (ISO/IEC 17025 compliance)	M160871

6 SITE ASSESSMENT CRITERIA (SAC)

The SAC adopted for the assessment is outlined in the table below. The SAC has been derived from the NEPM 2013 and other guidelines as applicable. The guideline values for individual contaminants are presented in the attached report tables.

Table 6-1: SAC Adopted for this Investigation

Guideline	Applicability
Health Investigation Levels (HILs) (NEPM 2013)	The HIL-A criteria for 'residential with accessible soil' have been adopted for this assessment.
Soil Vapour	The HIL-A vapour criteria have been adopted for the soil vapour assessment. The HSL-A vapour criteria have been adopted for the soil vapour assessment.
Health Screening Levels (HSLs) (NEPM 2013)	The HSL-A criteria for 'residential with accessible soil' have been adopted for this assessment.
Ecological Assessment Criteria (EAC) (NEPM 2013)	The EAC criteria for 'urban residential and public open space (URPOS)' exposure setting have been adopted. Soil parameters: pH; cation exchange capacity (CEC); and clay content have not been analysed for the assessment. On this basis, the EIL and ESL calculations have taken the 'worst case' scenario in order to generate the EAC. The EILs for selected metals have been derived from the ABC values for high traffic (25th percentiles) areas for old suburbs of NSW published in Olszowy et. al. (1995[18]) has been adopted for this assessment; and
Management Limits for TRH	These guidelines have only been used after considering the relevant HSLs and ESLs for adverse effects of TRH contamination where necessary.
Asbestos in Soil	The 'presence/absence' of asbestos in soil has been adopted as the assessment criterion for the Preliminary Site Investigation (PSI).
Waste Classification (WC) Criteria	The criteria outlined in the NSW EPA Waste Classification Guidelines - Part 1: Classifying Waste (2014[19]) has been adopted to classify the material for off-site disposal.

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

[19] NSW EPA, (2014), *Waste Classification Guidelines, Part 1: Classifying Waste.* (referred to as Waste Classification Guidelines 2014)

Guideline	Applicability
	Waste classified as 'hazardous' in accordance with the Waste Classification Guidelines 2014 due to high levels of contaminants is generally not suitable for disposal to a landfill in NSW without treatment. However, if the contaminants are 'immobilised' so that they will not be released into the landfill leachate at levels of concern, then the EPA may grant an immobilisation approval to enable the waste to be landfilled. The immobilisation approvals are issued by the EPA under the Protection of the Environment Operations (Waste) Regulation 2014. The following approvals will be adopted if necessary: • Approval 1999/05 - Ash, Ash-contaminated natural excavated materials or coal-contaminated natural excavated material; and • Approval 2009/07 - Metallurgical furnace slag or metallurgical furnace slag contaminated natural excavated materials.
Hazardous Ground Gases (HGG)	The ESA included a preliminary screening of the following bulk HGG: CH_4, CO_2, CO and H_2S. The presence/absence of HGG approach has been adopted for the ESA. The presence of HGG will be considered a trigger to further assess the risk to human health and the environment.

7 INVESTIGATION RESULTS

7.1 Subsurface Conditions

A summary of the subsurface conditions encountered during the investigation is presented in the table below. Reference should be made to the borehole logs attached in the appendices for further details.

Table 7-1: Summary of Subsurface Conditions

Profile	Description (m in bgl)
Pavement	Asphaltic Concrete (AC) pavement was encountered at the ground surface in BH3, BH4, BH10 to BH12.
Fill	Fill material was encountered at the surface or beneath the pavement in all boreholes and extended to the termination depths of approximately 1.5m. BH1 to BH4 were extended deeper with the depth of fill extending to 3.0m to 4.8m. The fill typically comprised of: silty clay; silty sandy clay; silty sand; sandy silty clay; gravelly sand; gravelly sandy clay; clayey silty sand and gravelly silty sand. The fill contained inclusions of: sandstone; ironstone and igneous gravel; ash, slag; glass; timber and plastic.
Natural Soil	Estuarine soils comprising sandy clay, silty clay, silty sandy clay, silty sand and sand were encountered below the fill profile in BH1 to BH4 and extended down to the borehole termination depths.
Groundwater	Groundwater seepage was encountered in BH1 to BH4 only at depths between 2.3m and 4.0m during drilling. Groundwater was measured on completion of drilling at depths ranging from 1.9m in BH1 to 3.2m in BH4. All remaining boreholes were dry on completion of drilling.

7.2 Field Screening

A summary of the field screening results are presented in the table below.

Table 7-2: Summary of Field Screening

Aspect	Details (m in bgl)
PID Screening of Soil Samples for VOCs	PID soil sample headspace readings are presented in attached report tables and the COC documents attached in the appendices. All results were 0 ppm equivalent isobutylene which indicates a lack of PID detectable VOCs.
HGG Screening	Field measurements recorded during sampling on 5 May 2016 are as follows: - Methane (CH_4) were 0%v/v;

Aspect	Details (m in bgl)
	- Carbon dioxide (CO_2) ranged from 8.1%v/v to 14.4%v/v; - Oxygen (O_2) ranged 1.7%v/v to 13.1%v/v; - Hydrogen sulphide (H_2S)were 0ppm; - Carbon monoxide (CO) were 0ppm; - Differential pressure (Pa) were 0Pa; - Flow rate (L/hr) were 0L/hr; and - Atmospheric pressure (hPa) ranged from 1020hPa to 1023hPa.

7.3 Soil Laboratory Results

The soil laboratory results are compared to the relevant SAC in the attached report tables. A summary of the results assessed against the SAC is presented below.

Table 7-3: Summary of Soil Laboratory Results

Analyte	Results Compared to SAC
Heavy Metals	**HILs:** The fill sample BH9 (0.0-0.2m) encountered an elevated concentration of lead of 310mg/kg above the HIL-A criterion of 300mg/kg. A laboratory replicate of fill sample BH10 (0.25-0.5m) encountered an elevated concentration of lead of 1,600mg/kg above the HIL-A criterion of 300mg/kg. This lead elevation in the laboratory replicate of fill sample BH10 (0.25-0.5m) is above 250% of the HIL-A criterion. All remaining heavy metal results were below the HIL-A criteria. **EILs:** Elevated concentrations of individual metals were encountered above the EIL-URPOS as outlined below:

Analyte	Description	EIL	Sample/Depth and Concentration
Copper	Fill	88	BH5 (0.7-1.0m) – 120mg/kg BH8 (0.5-0.7m) – 220mg/kg BH9 (0.0-0.2m) – 100mg/kg BH10 (0.25-0.5m) – 270mg/kg BH15 (0.5-0.8m) – 110mg/kg
Lead	Fill	1,100	BH10(0.25-0.5m) – 1,600mg/kg
Zinc	Fill	192	BH5 (0.7-1.0m) – 210mg/kg BH8 (0.5-0.7m) – 460mg/kg BH9 (0.0-0.2m) – 580mg/kg BH10 (0.25-0.5m) – 350mg/kg

The remaining results were all below the EIL criteria.

WC:

Analyte	Results Compared to SAC
	Ten fill samples encountered elevated lead concentrations above the CT1 criteria of 100mg/kg. Laboratory replicate for fill sample BH10 (0.25-0.5m) encountered a lead concentration above the SCC1 criteria of 1,500mg/kg. The remaining heavy metal results were less than the CT1 criteria. TCLP leachates were prepared from the 11 elevated samples and analysed for lead. The results were less than the TCLP1 criteria.
TRH	**HSLs:** All TRH results were below the HSL-A criteria. **ESLs:** All TRH results were below the ESL-URPOS criteria. **WC:** All TRH results were less than the relevant CT1 criteria.
BTEXN	**HSLs:** All BTEXN results were below the HSL-A criteria. **ESLs:** All BTEXN results were below the ESL-URPOS criteria. **WC:** All BTEX results were less than the relevant CT1 criteria.
PAHs	**HILs:** Eight fill samples encountered elevated concentrations of B(a)P TEQ above the HIL-A criterion of 3mg/kg. The B(a)P TEQ results in the fill samples BH8 (0.5-0.7m), BH10 (0.25-0.5m) and BH12 (0.25-0.5m) were above 250% the HIL-A criterion. The remaining PAH results were below the HIL-A criteria. **HSLs:** All naphthalene results were below the HSL-A criteria. **ESLs:** Thirteen fill samples encountered elevated concentrations of benzo(a)pyrene above the ESL-URPOS criteria of 0.7mg/kg. **EILs:** All naphthalene results were below the EIL-URPOS criteria. **WC:** Twelve fill samples encountered elevated concentrations of B(a)P above the CT1 criteria of 0.8mg/kg. The fill sample BH12 (0.25-0.5m) encountered a B(a)P concentration above the SCC1 criteria of 10mg/kg. The remaining PAH results were less than the relevant CT1 criteria. TCLP leachates were prepared from the thirteen elevated samples and analysed for PAHs.

Analyte	Results Compared to SAC
	The results were less than the TCLP1 criteria.
OCPs & OPPs	**HILs:** All OCP and OPP results were below the HIL-A criteria. **EILs:** All DDT results were below the EIL-URPOS criteria. **WC:** All OCP and OPP results were less than the relevant CT1 criteria.
PCBs	**HILs:** All PCB results were below the HIL-A criterion. **WC:** All PCB results were less than the CT1 criteria.
Asbestos	Asbestos was not detected in the samples analysed for the investigation.

7.4 Soil Vapour Laboratory Results

The soil vapour laboratory results are presented in the attached report tables. A summary of the results assessed against the SAC is presented below.

Table 7-4: Summary of Groundwater Laboratory Results

Analyte	Results Compared to SAC
VOCs	**HIL-A:** All of the VOCC results were below the HIL-A criteria.
TRH/BTEXN	**HSL-A:** All of the TRH/BTEXN results were below the HSL-A criteria.

8 DATA QUALITY ASSESSMENT

As part of the data quality assessment the following data quality indicators (DQIs) were assessed: precision, accuracy, representativeness, completeness and comparability as outlined in the table below. Reference should be made to the appendices for an explanation of the individual DQI.

Table 8-1: Assessment of DQIs

Completeness

Field Considerations:

- The investigation was designed as a preliminary screening and sampling was confined to accessible areas of the site (see Figure 2);
- A systematic sampling plan in the accessible areas of the site was adopted based on the AEC as outlined in the report;
- Samples were obtained from various depths based on the subsurface conditions encountered at the sampling locations. All samples were recorded on the borehole logs. All sampling points are shown on the attached Figure 2;
- The investigation was undertaken by trained staff in accordance with the SSP; and
- Documentation maintained during the field work is attached in the appendices where applicable.

Laboratory Considerations:

- Selected samples were analysed for a range of CoPC.
- All samples were analysed by NATA registered laboratories in accordance with the analytical methods outlined in NEPM 2013;
- Appropriate analytical methods and PQLs were used by the laboratories. The PQLs for PCB in soil in the laboratory report 145327 was raised due to interference from other analytes;
- Appropriate sample preservation, handling, holding time and COC procedures were adopted for the investigation.
- Samples analysed for TCLP PAHs were outside the 14 days holding time for the following samples BH8 (0.0-0.2m) and BH15 (0.0-0.2m). This is not considered to had an impact on the data set due to the following:
  - The main contaminant of concern from a health based point of view was benzo[a]pyrene. This PAH has a high molecular weight and low vapour pressure and is relatively stable;
  - The sample has been stored in a refrigerator at the lab; and
  - The sample was analysed within 28 days of sampling;

Comparability

Field Considerations:

- The investigation was undertaken by trained staff in accordance with the SSP;
- The climate conditions encountered during the field work were noted on the site description record maintained in the job file; and
- Consistency was maintained during sampling in accordance with the SSP.

Laboratory Considerations:

- All samples were analysed in accordance with the analytical methods outlined in NEPM 2013;

- Appropriate PQLs were used by the laboratories for all analysis (other than those outlined above);
- All primary, intra-laboratory duplicates and other QA/QC samples were analysed by the same laboratory; and
- The same units were used by the laboratories for all of the analysis.

Representativeness

Field Considerations:

- The investigation was designed to obtain appropriate media encountered during the field work as outlined in the SAQP; and
- All media based on the subsurface conditions encountered during the field work was sampled.

Laboratory Considerations:

- All samples were analysed in accordance with the SAQP.

Precision

Field Considerations:

- The investigation was undertaken in accordance with the SSP.

Laboratory Considerations:

- Analysis of field QA/QC samples including inter and intra-laboratory duplicates, trip blanks (TB) as outlined below;
- The field QA/QC frequency adopted for the investigation is outlined below;
- Calculation of the Relative Percentage Difference (RPD) from the primary and duplicate results (the RPD calculation equation is outlined in the attached appendices);
- Assessment of RPD results against the acceptance criteria outlined in **Section 5.1.**

Intra-laboratory RPD Results:

Soil Samples at a frequency of 5% of the primary samples:

- Dup GFS3 is a soil duplicate of primary sample BH14 (0-0.2m)

Soil Vapour samples at a frequency of 25% of the primary samples:

- PSV5 Field Dup is a soil vapour duplicate of primary sample PSV5

The intra-laboratory soil results are presented in the attached report tables. The results indicated that field precision was acceptable.

The RPD values for a range of individual PAHs and heavy metals were outside the acceptance criteria. Values outside the acceptable limits have been attributed to sample heterogeneity and the difficulties associated with obtaining homogenous duplicate samples of heterogenous matrices.

Where applicable, the higher duplicate value has been adopted as a conservative measure (see attached report tables).

Inter-laboratory RPD Results:

Soil Samples at a frequency of 5% of the primary samples:

- Dup GFS2 is a soil duplicate of primary sample BH9 (0-0.2m)

The inter-laboratory results are presented in the attached report tables. The results indicated that field precision was acceptable.

The RPD values for a range of individual PAHs and heavy metals were outside the acceptance criteria. Values outside the acceptable limits have been attributed to sample heterogeneity and the difficulties associated with obtaining homogenous duplicate samples of heterogenous matrices.

Where applicable, the higher duplicate value has been adopted as a conservative measure (see attached report tables).

Trip Blank (TB):
One soil TB were analysed for BTEX at a frequency of one blank per batch of volatiles. The results are presented in the attached report tables.

The results were all less than the PQLs.

Accuracy

Field Considerations:

- The investigation was undertaken in accordance with the SSP.

Laboratory Considerations:

- The analytical quality assessment adopted by the laboratories was in accordance with the NATA and NEPM 2013 requirements as outlined in the analytical reports;
- A review of the reports indicates the following comments noted by the laboratories:

Envirolab Report 145327 – The laboratory RPD acceptance criteria was exceeded in one sample for copper and lead. A triplicate result was issued to account for this. Percentage recovery was not possible in some samples due to matrix interference. However, an acceptable recovery was achieved for the LCS. Excessive sample volume was provided in some samples for asbestos analysis and subsequently sub-sampled.

Envirolab Report 145327-A – Excessive sample volume was provided in some samples for asbestos analysis and subsequently sub-sampled.

Envirolab Report 145327-C – TCLP analysis outside of holding time.

Envirolab Report 179923 –Percentage recovery was not possible in some samples due to matrix interference.

9 WASTE CLASSIFICATION OF SOIL FOR OFF-SITE DISPOSAL

The waste classification of soil for off-site disposal is summarised in the following table:

Table 9-1: Waste Classification

Site Extent / Material Type	Classification	Disposal Option
Fill material containing ash and slag	Fill material containing ash and slag with contaminant concentrations above the SCC criteria[1] has been classified as General Solid Waste (non-putrescible) (GSW) based on the TCLP concentrations alone as outlined in the GAI 1999/05 and GAI 2009/07	The fill material classified under the GAI can only be disposed of to a NSW EPA licensed landfill licensed to receive GAI classified waste. The landfill should be contacted to obtain the required approvals prior to commencement of excavation. Fill material containing ash contaminated material can only be disposed of to a NSW EPA licensed landfill with a leachate monitoring system. Treatment of this waste stream is not considered to be an economical option.

10 TIER 1 RISK ASSESSMENT AND REVIEW OF PCSM

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

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

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

The assessment has identified the following contamination issues at the site:

Table 10-1: Tier 1 Risk Assessment and Review of PCSM

Contaminant of Primary Concern (CoPC)	Receptor and Exposure Pathway	Discussion and Risk Rating
Lead and B(a)P TEQ	Human Receptors: Dermal Contact, ingestion and inhalation via dust Environmental Receptors: Direct exposure to plants and animals	The CoPC were above the SAC adopted for this investigation and pose a risk to site receptors. EIS are of the opinion that the risk posed to human receptors is moderate and will require remediation and/or management. The principal exposure pathway for these contaminants is direct contact. Therefore any measures that interrupt this pathway will result in a significant reduction in risk. Environmental receptors on-site include grassed and landscaped areas. Off-site receptors include surface water runoff into Blackwattle Bay. The groundwater at the site has not been analysed. The lead and PAHs in the fill is most likely associated with ash and slag inclusions. These contaminants are likely to be insoluble as they are bound within a siliceous matrix. Consequently the risk of these materials dissolving in the surface or groundwater is considered to be low. EIS are of the opinion that the risk posed to on-site environmental receptors is moderate (see below for discussion).
Copper, lead, Zinc and B(a)P	Environmental Receptors:	The CoPC were above the EAC adopted for this investigation and pose a risk to environmental receptors.

Contaminant of Primary Concern (CoPC)	Receptor and Exposure Pathway	Discussion and Risk Rating
	Direct exposure to plants and animals	However, the principal reason for the investigation was to assess whether the site was suitable for a temporary school. Based on site observations the current site configuration the environmental receptors (vegetation) did not appear to be adversely affected by the elevated concentrations.

10.1 Source and Extent of Contamination

10.1.1 Sources

A review of the site information indicates that the site is located in an area which has been historically filled to achieve existing levels. Fill material on site may have been imported from various sources.

The source of the PAHs and heavy metals including lead in the fill samples is considered to be associated with the ash, coal and slag inclusions encountered in the fill matrix. This material was commonly used for backfilling across Sydney in the nineteenth and early twentieth century. The most likely source was the waste material from domestic and industrial coal burning together with waste streams from metal processing industries.

10.1.2 Known Extent

Based on a review of the field logs and the laboratory data, EIS are of the opinion that the soil contamination is confined to the fill material at the site. The fill ranges in depth from approximately 1.5m to 4.8m bgl as shown on the attached Figure 2.

Due to the heterogeneous nature of the fill material and extent of contamination, no distinct hotspots can be identified at the site. All fill material in the proposed development area is considered to be impacted and should be treated accordingly.

10.1.3 Unknown Extent

Sampling was not undertaken in the south section beneath the existing buildings. The extent of contamination beneath the buildings is currently unknown.

10.1.4 Hazardous Building Materials in Existing Buildings

There is a possibility of the presence of hazardous building materials in the existing buildings at the site. This is considered to pose a relatively low risk to the receptors provided that the demolition works are undertaken in accordance with the relevant codes and standards and all hazardous material is removed from the site.

10.1.5 Groundwater

The groundwater at the site has not been assessed. In the event that groundwater seepage management or dewatering is required as part of the construction, dewatering and/or groundwater disposal approvals should be sought from the relevant authorities.

The potential site use is for a temporary school constructed on-grade. The risk of site users coming into contact with groundwater is considered negligible. The principal potential risk associated with groundwater was considered to be vapour. The vapour assessment did not detect elevated concentrations of contaminants in the vapour samples.

10.2 Fate and Transport of Contaminants

The potential fate and transport of CoPC identified at the site is summarised in the following table:

Table 10-2: Fate and Transport of CoPC

PCC/CoPC	Fate and Transport
Non-volatile contaminants including: metals and heavy fraction PAHs.	Based on the current data the non-volatile contaminants are confined to the soil medium only. The mobility of these contaminants varies depending on: the nature and type of contaminant present (e.g. leachability, viscosity etc.); soil type/porosity; surface water infiltration; groundwater levels; and the rate of groundwater movement. Non-volatile contaminants associated with ash and slag waste (some heavy metals and heavy fraction PAHs) are bound within a relatively insoluble matrix. Slag and ash is usually formed as a by-product of combustion at high temperatures which 'locks in' the contaminants within the matrix. TCLP analysis has indicated that the heavy metals and B(a)P in the fill material has a very low solubility.

10.3 Data Gaps

The assessment has identified the following data gaps:

- Areas beneath the existing buildings have not been included in the assessment; and
- The groundwater conditions at the site have not been assessed. Due to the depth of groundwater at the site, the soil vapour results and the minimal (if any) excavation required

for the proposed development EIS are of the opinion that the potential for groundwater contamination posing a risk to site receptors as being relatively low.

11 CONCLUSION

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

Based on the scope of works undertaken, EIS are of the opinion that the CoPC identified at the site pose a risk to the receptors.

The decision statements specified in Table 4.1 are addressed below:

1. Are any of the soil results above the adopted SAC? Yes. Elevated concentrations of B(a)P TEQ and lead were detected in the soil.
2. Do the soil vapour results indicate a potential vapour issue associated with soil/groundwater? No.
3. Do the HGG results indicate a ground gas issue? No.
4. Is further investigation necessary? No.
5. Is the site suitable for the proposed use? Yes subject to the recommendations below.

EIS consider that the site can be made suitable for the proposed development provided that the following recommendations are implemented to better manage/characterise the risks:

4. Undertake a Quantitative Health Risk Assessment in accordance with enHealth and Appendix VII of the Guidelines for the NSW Site Auditor Scheme (2006) for the CoPC;

5. Following the completion of the Quantitative Health Risk Assessment the data would be incorporated into preparing a Remediation Action Plan (RAP) to outline remedial measures for the site. Should the preferred option be to manage the contamination an Environmental Management Plan (EMP) for the ongoing management of contamination remaining on site. The EMP will require establishment of appropriate public notification under Section 149(2) of the E&PAA 1979 or a covenant registered on the title to land under Section 88B of the Conveyancing Act 1919; and

6. Prepare a Validation Assessment (VA) report on completion of remediation.

In the event unexpected conditions are encountered during development work or between sampling locations that may pose a contamination risk, all works should stop and an environmental consultant should be engaged to inspect the site and address the issue.

11.1 Regulatory Requirement

The regulatory requirements applicable for the site are outlined in the following table:

Table 11-1: Regulatory Requirement

Guideline	Applicability
Duty to Report Contamination 2015[20]	Under the guidelines on the Duty to Report contamination there is a requirement to notify the NSW EPA of the situation. After successful implementation of the RAP, the site contamination is unlikely to meet the Notification Triggers.
POEO Act 1997	Section 143 of the POEO Act 1997 states that if waste is transported to a place that cannot lawfully be used as a waste facility for that waste, then the transporter and owner of the waste are each guilty of an offence. The transporter and owner of the waste have a duty to ensure that the waste is disposed of in an appropriate manner.
Dewatering Consent	In the event groundwater is intercepted during excavation works, dewatering may be required. Council, NSW Office of Water (NOW) and other relevant approvals (from discharge authorities like Sydney Water etc.) should be obtained prior to the commencement of dewatering.

[20] NSW Department of Environment and Climate Change, (2015), *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997.* (referred to as Duty to Report Contamination 2015)

12 LIMITATIONS

The report limitations are outlined below:

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

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IMPORTANT INFORMATION ABOUT THIS REPORT

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

The Report is based on a Unique Set of Project Specific Factors
This report has been prepared in response to specific project requirements as stated in the EIS proposal document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

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

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

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

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

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

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

Misinterpretation of Site Assessments by Design Professionals

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

Logs Should not be Separated from the Assessment Report

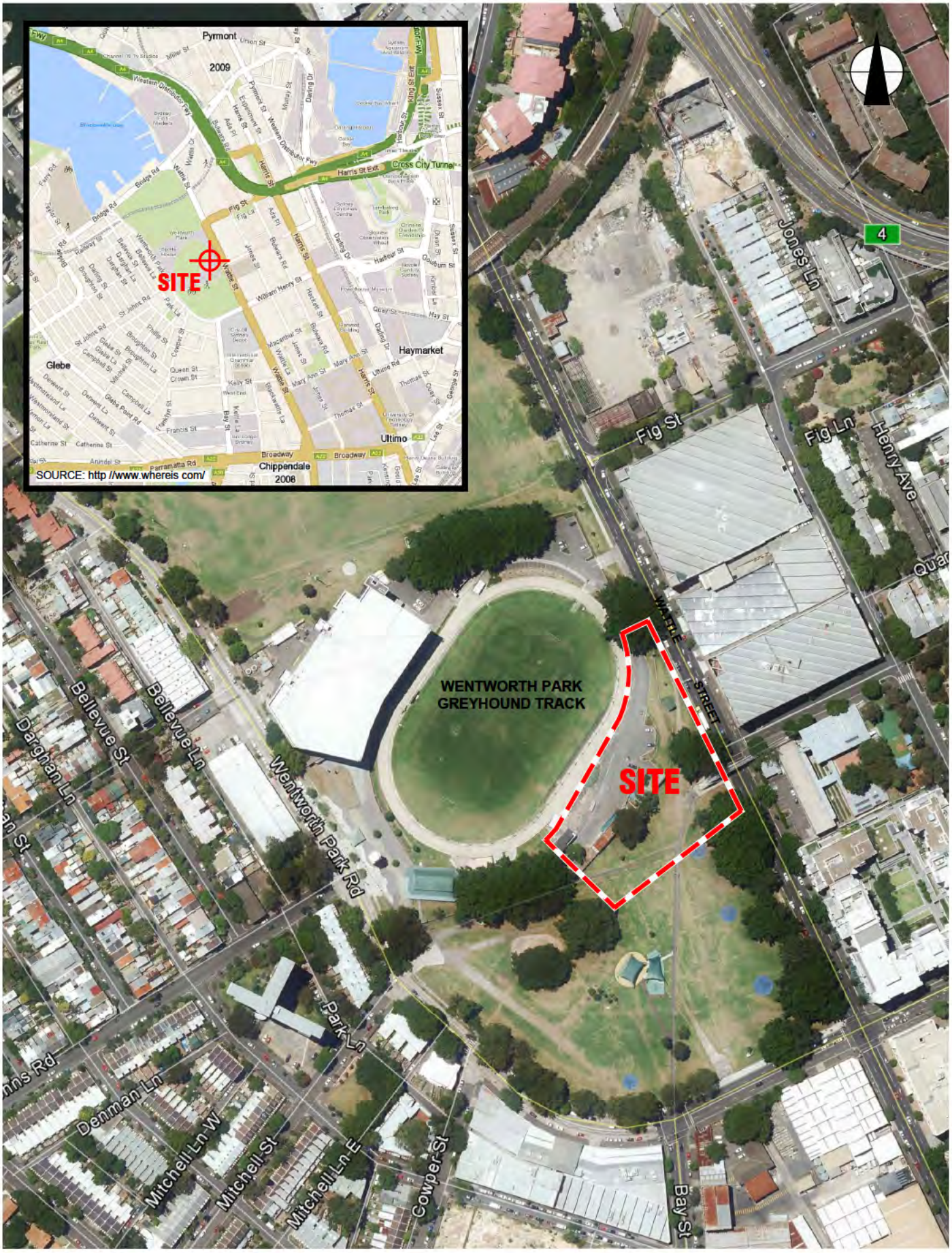
Borehole and test pit logs are prepared by environmental scientists, engineers or geologists based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these should not be re-drawn for inclusion in site remediation or other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

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

Read Responsibility Clauses Closely

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

REPORT FIGURES



AERIAL IMAGE SOURCE: GOOGLE EARTH PRO 7.1.5.1557
AERIAL IMAGE ©: 2015 GOOGLE NC.

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

Title: **SITE LOCATION PLAN**

Location: WENTWORTH PARK SOUTH,
OFF WENTWORTH PARK ROAD, ULTIMO, NSW

Report No: E29319K

Figure No: 1

ENVIRONMENTAL INVESTIGATION SERVICES

EIS

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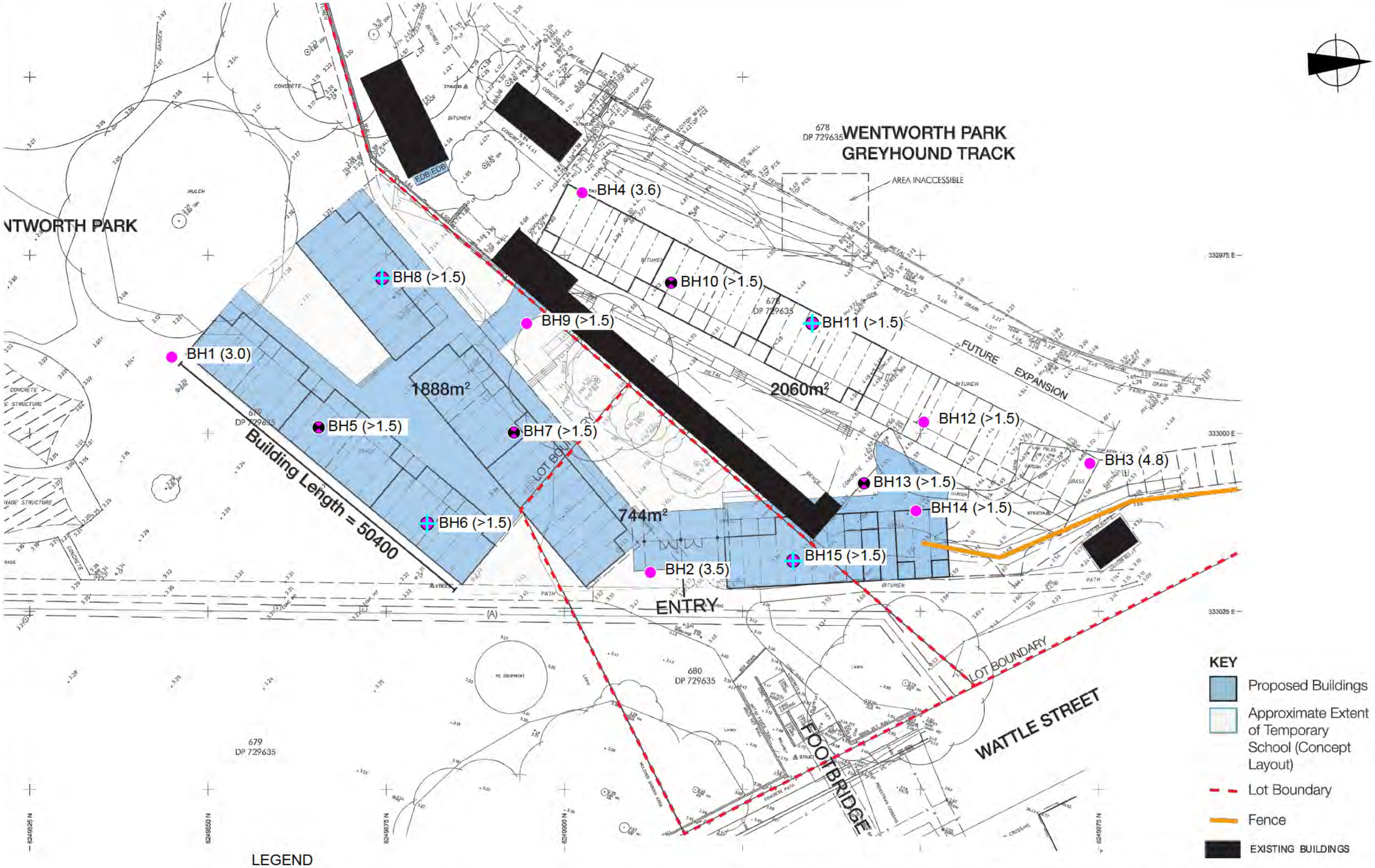

KEY

- Proposed Buildings
- Approximate Extent of Temporary School (Concept Layout)
- Lot Boundary
- Fence
- EXISTING BUILDINGS

LEGEND

BH (Fill Depth)	BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (m)
BH (Fill Depth)	HAZARDOUS GROUND GAS MONITORING WELL LOCATION
BH (Fill Depth)	SOIL VAPOUR SAMPLE LOCATION

0 5 10 15 20 25
SCALE 1:500 @A3 METRES

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

Title: **SAMPLE LOCATION PLAN**

Location: WENTWORTH PARK SOUTH, OFF WENTWORTH PARK ROAD, ULTIMO, NSW

Report No: E29319K

Figure No: 2

ENVIRONMENTAL INVESTIGATION SERVICES

EIS

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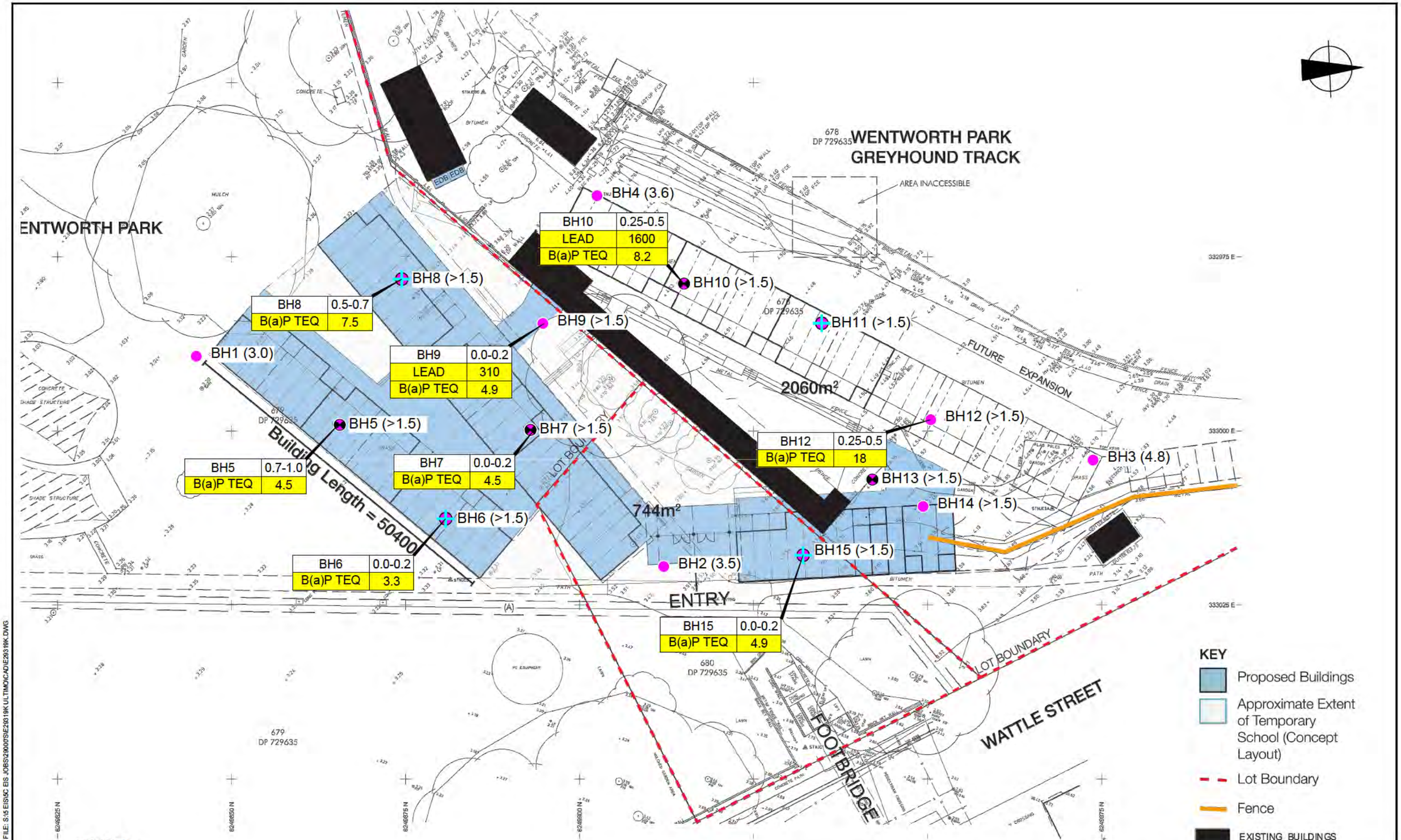

BH10	0.25-0.5
LEAD	1600
B(a)P TEQ	8.2

BH8	0.5-0.7
B(a)P TEQ	7.5

BH9	0.0-0.2
LEAD	310
B(a)P TEQ	4.9

BH12	0.25-0.5
B(a)P TEQ	18

BH5	0.7-1.0
B(a)P TEQ	4.5

BH7	0.0-0.2
B(a)P TEQ	4.5

BH6	0.0-0.2
B(a)P TEQ	3.3

BH15	0.0-0.2
B(a)P TEQ	4.9

KEY

- Proposed Buildings
- Approximate Extent of Temporary School (Concept Layout)
- Lot Boundary
- Fence
- EXISTING BUILDINGS

LEGEND

- BH (Fill Depth) — BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (m)
- BH (Fill Depth) — HAZARDOUS GROUND GAS MONITORING WELL LOCATION
- BH (Fill Depth) — SOIL VAPOUR SAMPLE LOCATION

SOIL CONTAMINATION ABOVE SAC FOR HUMAN HEALTH RISK

SAMPLE ID	DEPTH (metres)
CHEMICAL	CONCENTRATION (mg/kg)

SCALE 0 5 10 15 20 25 METRES 1:500 @A3

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

Title: **SITE CONTAMINATION PLAN - HUMAN HEALTH RISK**

Location: WENTWORTH PARK SOUTH, OFF WENTWORTH PARK ROAD, ULTIMO, NSW

Report No: E29319K

Figure No: 3

ENVIRONMENTAL INVESTIGATION SERVICES

EIS

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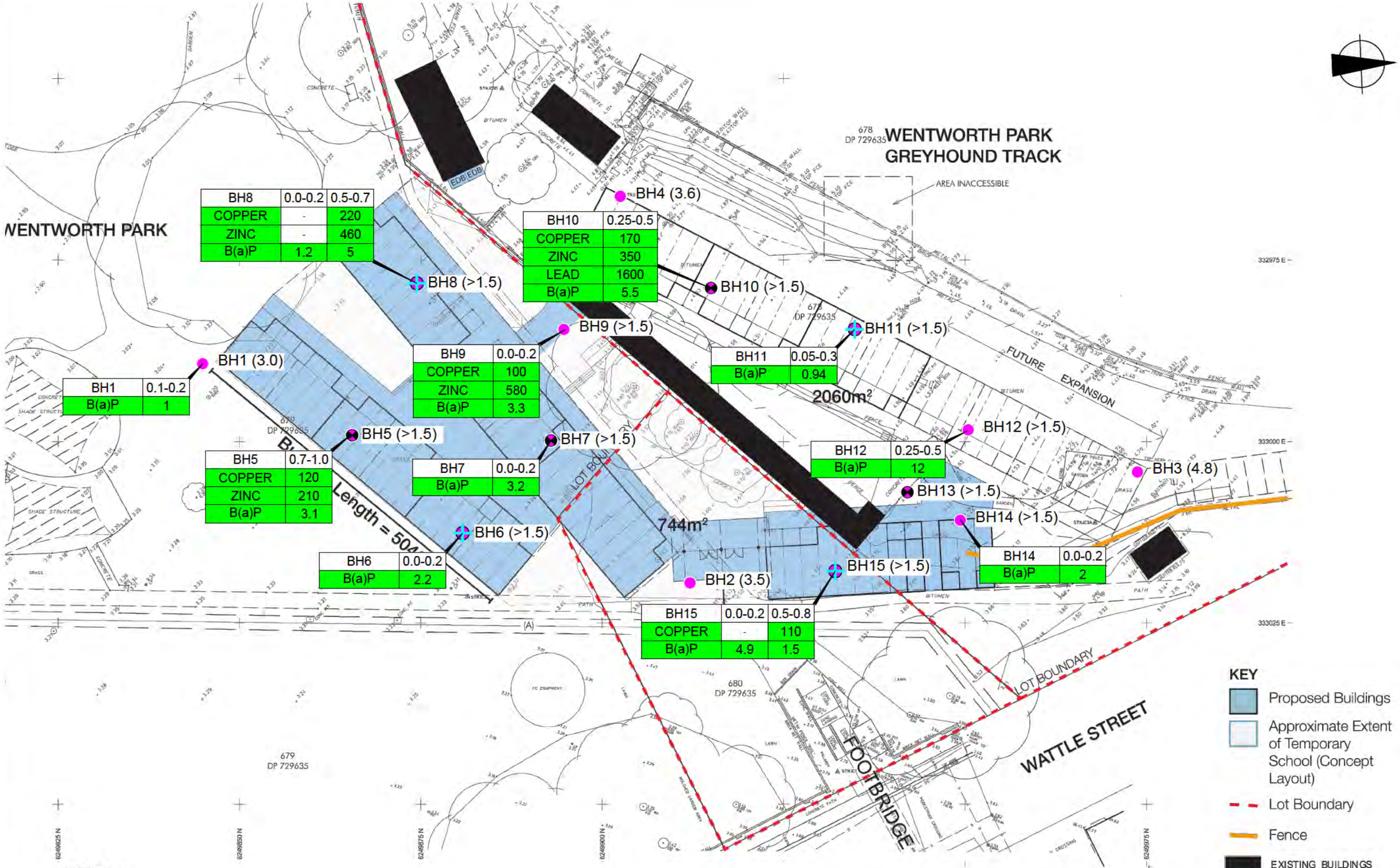

LEGEND

- BH (Fill Depth) — BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (m)
- BH (Fill Depth) — HAZARDOUS GROUND GAS MONITORING WELL LOCATION
- BH (Fill Depth) — SOIL VAPOUR SAMPLE LOCATION

SOIL CONTAMINATION ABOVE SAC FOR ENVIRONMENTAL RISK

SAMPLE ID	DEPTH (metres)
CHEMICAL	CONCENTRATION (mg/kg)

0 5 10 15 20 25
SCALE 1:500 @A3 METRES

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

Title:	SITE CONTAMINATION PLAN ENVIRONMENTAL RISK
Location:	WENTWORTH PARK SOUTH, OFF WENTWORTH PARK ROAD, ULTIMO, NSW
Report No:	E29319K
Figure No:	4

ENVIRONMENTAL INVESTIGATION SERVICES

EIS

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LABORATORY SUMMARY TABLES

TABLE A
SOIL LABORATORY RESULTS COMPARED TO HILs
All data in mg/kg unless stated otherwise

			HEAVY METALS								PAHs		ORGANOCHLORINE PESTICIDES (OCPs)							OP PESTICIDES (OPPs)	TOTAL PCBs	ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium VI [2]	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P TEQ [3]	HCB	Endosulfan	Methoxychlor	Aldrin & Dieldrin	Chlordane	DDT, DDD & DDE	Heptachlor	Chlorpyrifos		
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Site Assessment Criteria (SAC) [1]			100	20	100	6000	300	40	400	7400	300	3	10	270	300	6	50	240	6	160	1	Detected/Not Detected
Sample Reference	**Sample Depth**	**Sample Description**																				
BH1	0.1-0.2	Fill: silty sandy clay	5	LPQL	10	29	100	0.2	3	140	8.6	1.3	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH2	0.1-0.2	Fill: sand	LPQL	LPQL	7	44	31	LPQL	8	41	1.3	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH3	0.1-0.2	Fill: sand	LPQL	9	10	48	100	0.1	12	150	3.3	0.5	LPQL	LPQL	LPQL	0.2	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH4	0.2-0.3	Fill: gravelly sand	LPQL	LPQL	6	22	10	LPQL	13	16	0.9	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.8	LPQL	LPQL	LPQL	Not Detected
BH5	0.0-0.2	Fill: sandy silty clay	LPQL	LPQL	9	28	57	0.1	10	66	1.4	0.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH5	0.7-1.0	Fill: silty sandy clay	6	LPQL	11	120	230	0.8	7	210	30	**4.5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH6	0.0-0.2	Fill: sandy silty clay	6	LPQL	10	54	140	0.5	6	130	22	**3.3**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH7	0.0-0.2	Fill: sandy clay	5	LPQL	10	41	160	0.4	6	140	39	**4.5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH8	0.0-0.2	Fill: sandy clay	5	0.5	11	50	190	0.4	8	160	12	1.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH8	0.5-0.7	Fill: gravelly sandy clay	6	1	11	220	180	0.8	17	460	46	**7.5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH9	0.0-0.2	Fill: sandy clay	11	0.4	10	100	**310**	0.7	9	580	32	**4.9**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH10	0.25-0.5	Fill: sandy clay	6	LPQL	14	97	260	0.6	12	350	57	**8.2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH10-Replicate	0.25-0.5	Fill: sandy clay	5	LPQL	14	170	**1600**	0.7	10	310	45	**6.1**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH11	0.05-0.3	Fill: sandy gravel	LPQL	LPQL	8	46	110	0.2	17	79	10	1.4	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH12	0.25-0.5	Fill: silty clay	10	LPQL	17	31	200	0.7	4	110	130	**18**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH13	0.0-0.2	Fill: gravelly sandy clay	LPQL	LPQL	9	23	18	LPQL	7	45	4.4	0.7	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH14	0.0-0.2	Fill: clayey silty sand	LPQL	LPQL	7	24	110	0.2	4	120	24	2.9	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH15	0.0-0.2	Fill: gravelly silty sand	4	LPQL	10	48	100	0.3	19	160	57	**4.9**	LPQL	LPQL	LPQL	0.7	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH15	0.5-0.8	Fill: sandy clay	7	0.4	12	110	230	0.8	10	150	16	2.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
Total Number of Samples			19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18
Maximum Value			11	9	17	220	1600	0.8	19	580	130	18	LPQL	LPQL	LPQL	0.7	LPQL	1.8	LPQL	LPQL	LPQL	NC

Explanation:

1 - Site Assessment Criteria (SAC): NEPM 2013, HIL-A: 'Residential with garden/accessible soils; children's day care centers; preschools; and primary schools'

2 - The results are for Total Chromium which includes Chromium III and VI. For initial screening purposes, we have assumed that the samples contain only Chromium VI unless demonstrated otherwise by additional analysis.

3 - B(a)P TEQ - Benzo(a)pyrene Toxicity Equivalence Quotient has been calculated based on 8 carcinogenic PAHs and their Toxic Equivalence Factors (TEFs) outlined in NEPM 2013

Replicate - Laboratory replicate results have been adopted for anolytes with results above the SAC. Please see Envirolab Report 145327 for explannation

Concentration above the SAC **VALUE**

Abbreviations:

PAHs: Polycyclic Aromatic Hydrocarbons
B(a)P: Benzo(a)pyrene
PQL: Practical Quantitation Limit
LPQL: Less than PQL
OPP: Organophosphorus Pesticides
OCP: Organochlorine Pesticides
PCBs: Polychlorinated Biphenyls
UCL: Upper Level Confidence Limit on Mean Value
HILs: Health Investigation Levels
NA: Not Analysed
NC: Not Calculated
NSL: No Set Limit
SAC: Site Assessment Criteria
NEPM: National Environmental Protection Measure

TABLE B
SOIL LABORATORY RESULTS COMPARED TO HSLs
All data in mg/kg unless stated otherwise

					C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	PID [2]
PQL - Envirolab Services					25	50	0.2	0.5	1	3	1	
HSL Land Use Category [1]					RESIDENTIAL WITH ACCESSIBLE SOIL							
Sample Reference	**Sample Depth**	**Sample Description**	**Depth Category**	**Soil Category**								
BH1	0.1-0.2	Fill: silty sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH2	0.1-0.2	Fill: sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH3	0.1-0.2	Fill: sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH4	0.2-0.3	Fill: gravelly sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	0.0-0.2	Fill: sandy silty clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH5	0.7-1.0	Fill: silty sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH6	0.0-0.2	Fill: sandy silty clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH7	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH8	0.5-0.7	Fill: gravelly sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH9	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH10	0.25-0.5	Fill: sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH11	0.05-0.3	Fill: sandy gravel	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH12	0.25-0.5	Fill: silty clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH13	0.0-0.2	Fill: gravelly sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH14	0.0-0.2	Fill: clayey silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH15	0.0-0.2	Fill: gravelly silty sand	0m to < 1m	Sand	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
BH15	0.5-0.8	Fill: sandy clay	0m to < 1m	Clay	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0
Total Number of Samples					18	18	18	18	18	18	18	18
Maximum Value					LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0

Explanation:

1 - Site Assessment Criteria (SAC): NEPM 2013

2 - Field PID values obtained during the investigation

Concentration above the SAC **VALUE**

The guideline corresponding to the elevated value is highlighted in grey in the Site Assessment Criteria Table below

Abbreviations:

UCL: Upper Level Confidence Limit on Mean Value	NC: Not Calculated	PQL: Practical Quantitation Limit
HSLs: Health Screening Levels	NL: Not Limiting	LPQL: Less than PQL
NA: Not Analysed	SAC: Site Assessment Criteria	NEPM: National Environmental Protection Measure

SITE ASSESSMENT CRITERIA

					C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
PQL - Envirolab Services					25	50	0.2	0.5	1	3	1
HSL Land Use Category [1]					RESIDENTIAL WITH ACCESSIBLE SOIL						
Sample Reference	**Sample Depth**	**Sample Description**	**Depth Category**	**Soil Category**							
BH1	0.1-0.2	Fill: silty sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH2	0.1-0.2	Fill: sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH3	0.1-0.2	Fill: sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH4	0.2-0.3	Fill: gravelly sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH5	0.0-0.2	Fill: sandy silty clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH5	0.7-1.0	Fill: silty sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH6	0.0-0.2	Fill: sandy silty clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH7	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH8	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH8	0.5-0.7	Fill: gravelly sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH9	0.0-0.2	Fill: sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH10	0.25-0.5	Fill: sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH11	0.05-0.3	Fill: sandy gravel	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH12	0.25-0.5	Fill: silty clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH13	0.0-0.2	Fill: gravelly sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5
BH14	0.0-0.2	Fill: clayey silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH15	0.0-0.2	Fill: gravelly silty sand	0m to < 1m	Sand	45	110	0.5	160	55	40	3
BH15	0.5-0.8	Fill: sandy clay	0m to < 1m	Clay	50	280	0.7	480	NL	110	5

TABLE C
SOIL LABORATORY RESULTS COMPARED TO WASTE CLASSIFICATION GUIDELINES (2014)
All data in mg/kg unless stated otherwise

			HEAVY METALS								PAHs		OC/OP PESTICIDES				Total PCBs	TRH					BTEX COMPOUNDS				ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P	Total Endosulfans	Chloropyrifos	Total Moderately Harmful [2]	Total Scheduled [3]		C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	Total C_{10}-C_{36}	Benzene	Toluene	Ethyl benzene	Total Xylenes	
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0 05	0.1	0.1	0.1	0.1	0.1	25	50	100	100	250	0.2	0.5	1	3	100
General Solid Waste CT1 [1]			100	20	100	NSL	100	4	40	NSL	200	0.8	60	4	250	<50	<50	650		NSL		10,000	10	288	600	1,000	-
General Solid Waste SCC1 [1]			500	100	1900	NSL	1500	50	1050	NSL	200	10	108	7.5	250	<50	<50	650		NSL		10,000	18	518	1,080	1,800	-
Restricted Solid Waste CT2 [1]			400	80	400	NSL	400	16	160	NSL	800	3.2	240	16	1000	<50	<50	2600		NSL		40,000	40	1,152	2,400	4,000	-
Restricted Solid Waste SCC2 [1]			2000	400	7600	NSL	6000	200	4200	NSL	800	23	432	30	1000	<50	<50	2600		NSL		40,000	72	2,073	4,320	7,200	-
Sample Reference	**Sample Depth**	**Sample Description**																									
BH1	0.1-0 2	Fill: silty sandy clay	5	LPQL	10	31	100	0.2	3	140	10	**1**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH2	0.1-0 2	Fill: sand	LPQL	LPQL	7	44	31	LPQL	8	41	1.3	0.1	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	280	280	LPQL	LPQL	LPQL	LPQL	Not Detected
BH3	0.1-0 2	Fill: sand	LPQL	9	10	48	100	0.1	12	150	3.3	0.3	LPQL	LPQL	LPQL	0 2	LPQL	LPQL	LPQL	LPQL	320	320	LPQL	LPQL	LPQL	LPQL	Not Detected
BH4	0.2-0 3	Fill: gravelly sand	LPQL	LPQL	6	22	10	LPQL	13	16	0.9	0 05	LPQL	LPQL	LPQL	1 8	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH5	0.0-0 2	Fill: sandy silty clay	LPQL	LPQL	9	28	57	0.1	10	66	1.4	0.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH5	0.7-1 0	Fill: silty sandy clay	6	LPQL	11	120	**230**	0.8	7	210	30	**3.1**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH6	0.0-0 2	Fill: sandy silty clay	6	LPQL	10	54	**140**	0.5	6	130	22	**2.2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	100	100	LPQL	LPQL	LPQL	LPQL	Not Detected
BH7	0.0-0 2	Fill: sandy clay	5	LPQL	10	41	**160**	0.4	6	140	39	**3.2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH8	0.0-0 2	Fill: sandy clay	5	0.5	11	50	**190**	0.4	8	160	12	**1.2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	100	100	LPQL	LPQL	LPQL	LPQL	Not Detected
BH8	0.5-0.7	Fill: gravelly sandy clay	6	1	11	220	**180**	0.8	17	460	46	**5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	450	720	1170	LPQL	LPQL	LPQL	LPQL	Not Detected
BH9	0.0-0 2	Fill: sandy clay	11	0.4	10	100	**310**	0.7	9	580	32	**3.3**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	100	230	330	LPQL	LPQL	LPQL	LPQL	Not Detected
BH10	0.25-0.5	Fill: sandy clay	6	LPQL	14	97	**260**	0.6	12	350	57	**5.5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	150	160	310	LPQL	LPQL	LPQL	LPQL	Not Detected
BH10-Replicate	0.25-0.5	Fill: sandy clay	5	LPQL	14	170	**1600**	0.7	10	310	45	**4.2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	120	120	240	LPQL	LPQL	LPQL	LPQL	NA
BH11	0.05-0.3	Fill: sandy gravel	LPQL	LPQL	8	46	**110**	0.2	17	79	10	**0.94**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	130	120	250	LPQL	LPQL	LPQL	LPQL	Not Detected
BH12	0.25-0.5	Fill: silty clay	10	LPQL	17	31	**200**	0.7	4	110	130	**12**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	220	160	380	LPQL	LPQL	LPQL	LPQL	Not Detected
BH13	0.0-0 2	Fill: gravelly sandy clay	LPQL	LPQL	9	23	18	LPQL	7	45	4.4	0.4	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
BH14	0.0-0 2	Fill: clayey silty sand	LPQL	LPQL	7	24	**110**	0.2	4	120	24	**2**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	130	130	LPQL	LPQL	LPQL	LPQL	Not Detected
BH15	0.0-0 2	Fill: gravelly silty sand	4	LPQL	10	48	100	0.3	19	160	57	**4.9**	LPQL	LPQL	LPQL	0.7	LPQL	LPQL	LPQL	140	150	290	LPQL	LPQL	LPQL	LPQL	Not Detected
BH15	0.5-0 8	Fill: sandy clay	7	0.4	12	110	**230**	0.8	10	150	16	**1.5**	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	Not Detected
Total Number of samples			19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18
Maximum Value			11	9	17	220	1600	0.8	19	580	130	12	LPQL	LPQL	LPQL	1 8	LPQL	LPQL	LPQL	450	720	1170	LPQL	LPQL	LPQL	LPQL	NC

Explanation:

[1] - NSW EPA Waste Classification Guidelines (2014)

[2] - Assessment of Total Moderately Harmful pesticides includes: Dichlorovos, Dimethoate, Fenitrothion, Ethion, Malathion and Parathion

[3] - Assessment of Total Scheduled pesticides include: HBC, alpha-BHC, gamma-BHC, beta-BHC, Heptachlor, Aldrin, Heptachlor Epoxide, gamma-Chlordane, alpha-chlordane, pp-DDE, Dieldrin, Endrin, pp-DDD, pp-DDT, Endrin Aldehyde

Replicate - Laboratory replicate results have been adopted for anolytes with results above the SAC. Please see Envirolab Report 145327 for explannation

Concentration above the CT1 **VALUE**
Concentration above SCC1 **VALUE**
Concentration above the SCC2 **VALUE**

Abbreviations:

PAHs: Polycyclic Aromatic Hydrocarbons
B(a)P: Benzo(a)pyrene
PQL: Practical Quantitation Limit
LPQL: Less than PQL
PID: Photoionisation Detector
PCBs: Polychlorinated Biphenyls
UCL: Upper Level Confidence Limit on Mean Value
NA: Not Analysed
NC: Not Calculated
NSL: No Set Limit
SAC: Site Assessment Criteria
TRH: Total Recoverable Hydrocarbons
CT: Contaminant Threshold
SCC: Specific Contaminant Concentration
HILs: Health Investigation Levels
NEPM: National Environmental Protection Measure
BTEX: Monocyclic Aromatic Hydrocarbons

TABLE D
SOIL LABORATORY TCLP RESULTS
All data in mg/L unless stated otherwise

			Arsenic	Cadmium	Chromium	Lead	Mercury	Nickel	B(a)P
PQL - Envirolab Services			0.05	0.01	0.01	0.03	0.0005	0.02	0.001
TCLP1 - General Solid Waste [1]			5	1	5	5	0.2	2	0.04
TCLP2 - Restricted Solid Waste [1]			20	4	20	20	0.8	8	0.16
TCLP3 - Hazardous Waste [1]			>20	>4	>20	>20	>0.8	>8	>0.16
Sample Reference	**Sample Depth**	**Sample Description**							
BH1	0.1-0.2	Fill: silty sandy clay	NA	NA	NA	NA	NA	NA	LPQL
BH5	0.7-1.0	Fill: silty sandy clay	NA	NA	NA	0.1	NA	NA	LPQL
BH6	0.0-0.2	Fill: sandy silty clay	NA	NA	NA	LPQL	NA	NA	LPQL
BH7	0.0-0.2	Fill: sandy clay	NA	NA	NA	0.08	NA	NA	LPQL
BH8	0.0-0.2	Fill: sandy clay	NA	NA	NA	0.04	NA	NA	LPQL
BH8	0.5-0.7	Fill: gravelly sandy clay	NA	NA	NA	0.06	NA	NA	LPQL
BH9	0.0-0.2	Fill: sandy clay	NA	NA	NA	0.1	NA	NA	LPQL
BH10	0.25-0.5	Fill: sandy clay	NA	NA	NA	0.09	NA	NA	LPQL
BH11	0.05-0.3	Fill: sandy gravel	NA	NA	NA	LPQL	NA	NA	LPQL
BH12	0.25-0.5	Fill: silty clay	NA	NA	NA	0.1	NA	NA	LPQL
BH14	0.0-0.2	Fill: clayey silty sand	NA	NA	NA	0.07	NA	NA	LPQL
BH15	0.0-0.2	Fill: gravelly silty sand	NA	NA	NA	NA	NA	NA	LPQL
BH15	0.5-0.8	Fill: sandy clay	NA	NA	NA	0.2	NA	NA	LPQL
Total Number of samples			0	0	0	11	0	0	13
Maximum Value			NC	NC	NC	0.2	NC	NC	LPQL

Explanation:

1 - NSW EPA Waste Classification Guidelines (2014)

General Solid Waste	**VALUE**
Restricted Solid Waste	**VALUE**
Hazardous Waste	**VALUE**

Abbreviations:

PQL: Practical Quantitation Limit
LPQL: Less than PQL
B(a)P: Benzo(a)pyrene
NC: Not Calculated
NA: Not Analysed
TCLP: Toxicity Characteristics Leaching Procedure

TABLE E
SOIL VAPOUR LABORATORY RESULTS COMPARED TO HILs FOR VOCC
All data in mg/m^3 unless stated otherwise

			TCE	1,1,1-TCA	PCE	cis 1,2 dichloro-ethene	Vinyl chloride
PQL - SGS Leeder			0.0028	0.0072	0.0022	0.0047	0.018
Site Assessment Criteria (SAC) [1]			0.02	60	2	0.08	0.03
Land Use			RESIDENTIAL WITH ACCESSIBLE SOIL				
Sample Reference	**Sample Depth**	**Sample Description**					
PSV5	1	Clay	LPQL	LPQL	LPQL	LPQL	LPQL
PSV7	1	Clay	LPQL	LPQL	LPQL	LPQL	LPQL
PSV10	1	Clay	LPQL	LPQL	LPQL	LPQL	LPQL
PSV13	1	Clay	LPQL	LPQL	LPQL	LPQL	LPQL
PSV5 DUP	1	Clay	LPQL	LPQL	LPQL	LPQL	LPQL
Total Number of Samples			5	5	5	5	5
Maximum Value			LPQL	LPQL	LPQL	LPQL	LPQL

Explanation:
1 - Site Assessment Criteria (SAC): NEPM 2013

Concentration above the SAC — VALUE

Abbreviations:
PQL: Practical Quantitation Limit
LPQL: Less than PQL
SAC: Site Assessment Criteria
NEPM: National Environmental Protection Measure
NA: Not Analysed
NC: Not Calculated
UCL: Upper Level Confidence Limit on Mean Value
HILs: Health Investigation Levels
TCE: Trichloroethylene
TCA: 111-Trichloroethane
PCE: Perchloroethylene

TABLE F
SOIL VAPOUR LABORATORY RESULTS COMPARED TO HSLs
All data in mg/m^3 unless stated otherwise

				C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
PQL - SGS Leeder				0.5	50	0.0037	0.5	0.002	0.0041	0.0025
Land Use Category [1]				**LOW DENSITY RESIDENTIAL**						
Sample Reference	**Sample Depth**	**Depth Category**	**Soil Category**							
PSV5	1	0m to <1m	Clay	LPQL	1.7	LPQL	0.0035	LPQL	LPQL	LPQL
PSV7	1	0m to <1m	Clay	1	18	LPQL	0.013	LPQL	0.0088	0.057
PSV10	1	0m to <1m	Clay	3	12	LPQL	0.011	0.0035	0.0224	LPQL
PSV13	1	0m to <1m	Clay	LPQL	8.9	LPQL	0.0038	LPQL	LPQL	LPQL
PSV5 DUP	1	0m to <1m	Clay	NA	NA	LPQL	0.0038	LPQL	LPQL	LPQL
Total Number of Samples				4	4	5	5	5	5	5
Maximum Value				2.8	18	LPQL	0.013	0.0035	0.0224	0.057

Explanation:
1 -NEPM 2013

Concentration above the SAC **VALUE**

Abbreviations:

NEPM: National Environmental Protection Measure
HSLs: Health Screening Levels
na: Not Analysed
nc: Not Calculated
NL: Not Limiting
PQL: Practical Quantitation Limit
LPQL: Less than PQL
SAC: Site Assessment Criteria

HSL SOIL VAPOUR ASSESSMENT CRITERIA

				C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
PQL - SGS Leeder				0.5	50	0.0037	0.5	0.002	0.0041	0.0025
Land Use Category [1]				**LOW DENSITY RESIDENTIAL**						
Sample Reference	**Sample Depth**	**Depth Category**	**Soil Category**							
PSV5	1	0m to <1m	Clay	230	180	1	1600	420	280	1
PSV7	1	0m to <1m	Clay	230	180	1	1600	420	280	1
PSV10	1	0m to <1m	Clay	230	180	1	1600	420	280	1
PSV13	1	0m to <1m	Clay	230	180	1	1600	420	280	1
PSV5 DUP	1	0m to <1m	Clay	230	180	1	1600	420	280	1

TABLE G
SOIL LABORATORY RESULTS COMPARED TO EILs AND ESLs
All data in mg/kg unless stated otherwise

Land Use Category [1]				URBAN RESIDENTIAL AND PUBLIC OPEN SPACE																		
							AGED HEAVY METALS-EILs						EILs		ESLs							
				pH	CEC ($cmol_c/kg$)	Clay Content (% clay)	Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	>C_{16}-C_{34} (F3)	>C_{34}-C_{40} (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P
PQL - Envirolab Services				-	1	-	4	1	1	1	1	1	0.1	0.1	25	50	100	100	0.2	0.5	1	3	0.05
Ambient Background Concentration (ABC) [2]				-	-	-	NSL	13	28	NSL	5	122	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL
Sample Reference	**Sample Depth**	**Sample Description**	**Soil Texture**																			
BH1	0.1-0.2	Fill: silty sandy clay	Fine	NA	NA	NA	5	10	31	100	3	140	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1
BH2	0.1-0.2	Fill: sand	Coarse	NA	NA	NA	LPQL	7	44	31	8	41	LPQL	LPQL	LPQL	LPQL	210	410	LPQL	LPQL	LPQL	LPQL	0.1
BH3	0.1-0.2	Fill: sand	Coarse	NA	NA	NA	LPQL	10	48	100	12	150	LPQL	LPQL	LPQL	LPQL	270	410	LPQL	LPQL	LPQL	LPQL	0.3
BH4	0.2-0.3	Fill: gravelly sand	Coarse	NA	NA	NA	LPQL	6	22	10	13	16	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.05
BH5	0.0-0.2	Fill: sandy silty clay	Fine	NA	NA	NA	LPQL	9	28	57	10	66	LPQL	LPQL	LPQL	LPQL	LPQL	110	LPQL	LPQL	LPQL	LPQL	0.2
BH5	0.7-1.0	Fill: silty sandy clay	Fine	NA	NA	NA	6	11	120	230	7	210	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	3.1
BH6	0.0-0.2	Fill: sandy silty clay	Fine	NA	NA	NA	6	10	54	140	6	130	LPQL	LPQL	LPQL	LPQL	120	LPQL	LPQL	LPQL	LPQL	LPQL	2.2
BH7	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	5	10	41	160	6	140	LPQL	LPQL	LPQL	LPQL	110	LPQL	LPQL	LPQL	LPQL	LPQL	3.2
BH8	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	5	11	50	190	8	160	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.2
BH8	0.5-0.7	Fill: gravelly sandy clay	Fine	NA	NA	NA	6	11	220	180	17	460	LPQL	LPQL	LPQL	LPQL	1000	510	LPQL	LPQL	LPQL	LPQL	5
BH9	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	11	10	100	310	9	580	LPQL	LPQL	LPQL	LPQL	270	190	LPQL	LPQL	LPQL	LPQL	3.3
BH10	0.25-0.5	Fill: sandy clay	Fine	NA	NA	NA	6	14	97	260	12	350	0.5	LPQL	LPQL	LPQL	270	110	LPQL	LPQL	LPQL	LPQL	5.5
BH10-Replicate	0.25-0.5	Fill: sandy clay	Fine	NA	NA	NA	5	14	170	1600	10	310	0.1	LPQL	LPQL	LPQL	200	LPQL	LPQL	LPQL	LPQL	LPQL	4.2
BH11	0.05-0.3	Fill: sandy gravel	Coarse	NA	NA	NA	LPQL	8	46	110	17	79	LPQL	LPQL	LPQL	LPQL	220	LPQL	LPQL	LPQL	LPQL	LPQL	0.94
BH12	0.25-0.5	Fill: silty clay	Fine	NA	NA	NA	10	17	31	200	4	110	0.6	LPQL	LPQL	LPQL	340	LPQL	LPQL	LPQL	LPQL	LPQL	12
BH13	0.0-0.2	Fill: gravelly sandy clay	Fine	NA	NA	NA	LPQL	9	23	18	7	45	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	0.4
BH14	0.0-0.2	Fill: clayey silty sand	Coarse	NA	NA	NA	LPQL	7	24	110	4	120	0.1	LPQL	LPQL	LPQL	160	110	LPQL	LPQL	LPQL	LPQL	2
BH15	0.0-0.2	Fill: gravelly silty sand	Coarse	NA	NA	NA	4	10	48	100	19	160	LPQL	LPQL	LPQL	LPQL	250	LPQL	LPQL	LPQL	LPQL	LPQL	4.9
BH15	0.5-0.8	Fill: sandy clay	Fine	NA	NA	NA	7	12	110	230	10	150	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	1.5
Total Number of Samples				0	0	0	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Maximum Value				NC	NC	NC	11	17	220	1600	19	580	0.6	LPQL	LPQL	LPQL	1000	510	LPQL	LPQL	LPQL	LPQL	12

Explanation:
1 - Site Assessment Criteria (SAC): NEPM 2013
2 - ABC Values for selected metals has been adopted from the published background concentrations presented in Olszowy et. al., (1995), Trace Element Concentrations in Soils from Rural and Urban New South Wales (the 25th percentile values for old suburbs with high traffic have been quoted)
Replicate - Laboratory replicate results have been adopted for anolytes with results above the SAC. Please see Envirolab Report 145327 for explannation

Concentration above the SAC VALUE
The guideline corresponding to the elevated value is highlighted in grey in the EIL and ESL Assessment Criteria Table below

Abbreviations:
EILs: Ecological Investigation Levels
B(a)P: Benzo(a)pyrene
PQL: Practical Quantitation Limit
UCL: Upper Level Confidence Limit on Mean Value
ESLs: Ecological Screening Levels
NA: Not Analysed
LPQL: Less than PQL
SAC: Site Assessment Criteria
NEPM: National Environmental Protection Measure
NC: Not Calculated
NSL: No Set Limit
ABC: Ambient Background Concentration

EIL AND ESL ASSESSMENT CRITERIA

Land Use Category [1]				URBAN RESIDENTIAL AND PUBLIC OPEN SPACE																		
							AGED HEAVY METALS-EILs						EILs		ESLs							
				pH	CEC ($cmol_c/kg$)	Clay Content (% clay)	Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C_6-C_{10} (F1)	>C_{10}-C_{16} (F2)	>C_{16}-C_{34} (F3)	>C_{34}-C_{40} (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P
PQL - Envirolab Services				-	1	-	4	1	1	1	1	1	0.1	0.1	25	50	100	100	0.2	0.5	1	3	0.05
Ambient Background Concentration (ABC) [2]				-	-	-	NSL	13	28	NSL	5	122	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL
Sample Reference	**Sample Depth**	**Sample Description**	**Soil Texture**																			
BH1	0.1-0.2	Fill: silty sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH2	0.1-0.2	Fill: sand	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH3	0.1-0.2	Fill: sand	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH4	0.2-0.3	Fill: gravelly sand	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH5	0.0-0.2	Fill: sandy silty clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH5	0.7-1.0	Fill: silty sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH6	0.0-0.2	Fill: sandy silty clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH7	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH8	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH8	0.5-0.7	Fill: gravelly sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH9	0.0-0.2	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH10	0.25-0.5	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH10-Replicate	0.25-0.5	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH11	0.05-0.3	Fill: sandy gravel	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH12	0.25-0.5	Fill: silty clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH13	0.0-0.2	Fill: gravelly sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7
BH14	0.0-0.2	Fill: clayey silty sand	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH15	0.0-0.2	Fill: gravelly silty sand	Coarse	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	300	2800	50	85	70	105	0.7
BH15	0.5-0.8	Fill: sandy clay	Fine	NA	NA	NA	100	203	88	1100	35	192	710	180	180	120	1300	5600	60	105	125	45	0.7

TABLE H
SOIL INTRA-LABORATORY DUPLICATE RESULTS & RPD CALCULATIONS
All results in mg/kg unless stated otherwise

SAMPLE	ANALYSIS	Envirolab PQL	INITIAL	REPEAT	MEAN	RPD %
Sample Ref = BH14 (0-0.2m)	Arsenic	4	LPQL	LPQL	NC	NC
Dup Ref = Dup GFS3	Cadmium	0.4	LPQL	LPQL	NC	NC
	Chromium	1	7	10	8.5	35
Envirolab Report: 145327	Copper	1	24	26	25.0	8
	Lead	1	110	190	150.0	53
	Mercury	0.1	0.2	0.2	0.2	0
	Nickel	1	4	4	4.0	0
	Zinc	1	120	170	145.0	34
	Naphthalene	0.1	0.1	LPQL	0.1	67
	Acenaphthylene	0.1	0.3	0.1	0.2	100
	Acenaphthene	0.1	LPQL	LPQL	NC	NC
	Fluorene	0.1	0.1	LPQL	0.1	67
	Phenanthrene	0.1	2.4	0.6	1.5	120
	Anthracene	0.1	0.7	0.2	0.5	111
	Fluoranthene	0.1	4.1	1.6	2.9	88
	Pyrene	0.1	4.4	1.7	3.1	89
	Benzo(a)anthracene	0.1	2.4	1	1.7	82
	Chrysene	0.1	2	0.8	1.4	86
	Benzo(b,j+k)fluoranthene	0.2	3	1	2.0	100
	Benzo(a)pyrene	0.05	2	0 93	1.5	73
	Indeno(123-cd)pyrene	0.1	1.3	0.7	1.0	60
	Dibenzo(ah)anthracene	0.1	0.2	0.1	0.2	67
	Benzo(ghi)perylene	0.1	1	0.6	0.8	50
	Benzo(a)pyrene TEQ	0.5	2.9	1.4	2.2	70
	Total OCPs	0.1	LPQL	LPQL	NC	NC
	Total OPPs	0.1	LPQL	LPQL	NC	NC
	Total PCBs	0.1	LPQL	LPQL	NC	NC
	TRH C_6-C_{10} (F1)	25	LPQL	LPQL	NC	NC
	TRH >C_{10}-C_{16} (F2)	50	LPQL	LPQL	NC	NC
	TRH >C_{16}-C_{34} (F3)	100	160	LPQL	105.0	105
	TRH >C_{34}-C_{40} (F4)	100	110	LPQL	80.0	75
	Benzene	0.5	LPQL	LPQL	NC	NC
	Toluene	0.5	LPQL	LPQL	NC	NC
	Ethylbenzene	1	LPQL	LPQL	NC	NC
	m+p-xylene	2	LPQL	LPQL	NC	NC
	o-xylene	1	LPQL	LPQL	NC	NC

Explanation:

The RPD value is calculated as the absolute value of the difference between the initial and repeat results divided by the average value expressed as a percentage. The following acceptance criteria will be used to assess the RPD results:

Results > 10 times PQL = RPD value <= 50% are acceptable
Results between 5 & 10 times PQL = RPD value <= 75% are acceptable
Results < 5 times PQL = RPD value <= 100% are acceptable

If result is LPQL then 50% of the PQL is used for the calculation

RPD Results Above the Acceptance Criteria VALUE

Abbreviations:

PQL: Practical Quantitation Limit
LPQL: Less than PQL
NA: Not Analysed
NC: Not Calculated
OCP: Organochlorine Pesticides
OPP: Organophosphorus Pesticides
PCBs: Polychlorinated Biphenyls
TRH: Total Recoverable Hydrocarbons

TABLE I
SOIL INTER-LABORATORY DUPLICATE RESULTS & RPD CALCULATIONS
All results in mg/kg unless stated otherwise

SAMPLE	ANALYSIS	Envirolab PQL	Envirolab Perth PQL	INITIAL	REPEAT	MEAN	RPD %
Sample Ref = BH9 (0-0.2m)	Arsenic	4	4	11	5	8.0	75
Dup Ref = Dup GFS2	Cadmium	0.4	0.4	0.4	0 5	0.5	22
	Chromium	1	1	10	11	10 5	10
Envirolab Report: 145327	Copper	1	1	100	34	67 0	99
Envirolab Perth Report: 179923	Lead	1	1	310	150	230.0	70
	Mercury	0.1	0.1	0.7	0.4	0.6	55
	Nickel	1	1	9	7	8.0	25
	Zinc	1	1	580	900	740.0	43
	Naphthalene	0.1	0.1	LPQL	LPQL	NC	NC
	Acenaphthylene	0.1	0.1	0.2	0.1	0.2	67
	Acenaphthene	0.1	0.1	LPQL	LPQL	NC	NC
	Fluorene	0.1	0.1	LPQL	0.1	0.1	67
	Phenanthrene	0.1	0.1	1.9	1 5	1.7	24
	Anthracene	0.1	0.1	0.6	0.4	0.5	40
	Fluoranthene	0.1	0.1	5	4 2	4.6	17
	Pyrene	0.1	0.1	4.9	4	4.5	20
	Benzo(a)anthracene	0.1	0.1	3	2	2.5	40
	Chrysene	0.1	0.1	2.7	1 8	2.3	40
	Benzo(b,j+k)fluoranthene	0 2	0.2	5	3 9	4.5	25
	Benzo(a)pyrene	0.05	0 05	3.3	2.1	2.7	44
	Indeno(123-cd)pyrene	0.1	0.1	2.6	1 2	1.9	74
	Dibenzo(ah)anthracene	0.1	0.1	0.5	0 2	0.4	86
	Benzo(ghi)perylene	0.1	0.1	2	1.1	1.6	58
	Benzo(a)pyrene TEQ	0 5	0.5	4.9	3.1	4.0	45
	Total OCPs	0.1	0.1	LPQL	LPQL	NC	NC
	Total OPPs	0.1	0.1	LPQL	LPQL	NC	NC
	Total PCBs	0.1	0.1	LPQL	LPQL	NC	NC
	TRH C6-C10 (F1)	25	25	LPQL	LPQL	NC	NC
	TRH >C10-C16 (F2)	50	50	LPQL	LPQL	NC	NC
	TRH >C16-C34 (F3)	100	100	270	130	200.0	70
	TRH >C34-C40 (F4)	100	100	190	LPQL	120.0	117
	Benzene	0 5	0.5	LPQL	LPQL	NC	NC
	Toluene	0 5	0.5	LPQL	LPQL	NC	NC
	Ethylbenzene	1	1	LPQL	LPQL	NC	NC
	m+p-xylene	2	2	LPQL	LPQL	NC	NC
	o-xylene	1	1	LPQL	LPQL	NC	NC

Explanation:

The RPD value is calculated as the absolute value of the difference between the initial and repeat results divided by the average value expressed as a percentage. The following acceptance criteria will be used to assess the RPD results:

Results > 10 times PQL = RPD value <= 50% are acceptable
Results between 5 & 10 times PQL = RPD value <= 75% are acceptable
Results < 5 times PQL = RPD value <= 100% are acceptable
If result is LPQL then 50% of the PQL is used for the calculation

RPD Results Above the Acceptance Criteria VALUE

Abbreviations:

PQL: Practical Quantitation Limit
LPQL: Less than PQL
NA: Not Analysed
NC: Not Calculated
OCP: Organochlorine Pesticides
OPP: Organophosphorus Pesticides
PCBs: Polychlorinated Biphenyls
TRH: Total Recoverable Hydrocarbons

TABLE J
SUMMARY OF FIELD QA/QC RESULTS

ANALYSIS	Envirolab PQL		TBS 20/04/2016 145327 mg/kg
	mg/kg	µg/L	
TRH C6-C10 (F1)	10	10	LPQL
Benzene	1	1	LPQL
Toluene	1	1	LPQL
Ethylbenzene	1	1	LPQL
m+p-xylene	2	2	LPQL
o-xylene	1	1	LPQL

Explanation:

[w] Sample type (water)

[s] Sample type (sand)

BTEX concentrations in trip spikes are presented as % recovery

Values above PQLs/Acceptance criteria **VALUE**

Abbreviations:

PQL: Practical Quantitation Limit
LPQL: Less than PQL
NA: Not Analysed
NC: Not Calculated
TB: Trip Blank
TS: Trip Spike
RS: Rinsate Sample
TRH: Total Recoverable Hydrocarbons

Appendix A: Site Information including Site History

Selected Services Plans

GPO Box 1591 Sydney NSW 2001 • Town Hall House, 456 Kent Street Sydney NSW 2000
p (02) 9265 9333• f (02) 9265 9222 • e council@cityofsydney.nsw.gov.au • www.cityofsydney.nsw.gov.au

Dial Before You Dig (DBYD): Asset Location Response

Jeffery & Katauskas Pty Ltd -
PO Box 976
North Ryde Bc NSW 1670

City of Sydney has been advised that you have placed an enquiry through the Dial Before You Dig service. Our records indicate the enquiry with the following details are affecting City of Sydney asset(s) as per the attached plans.

Enquiry Details	
Sequence Number	52159820
Enquiry Date	13/04/2016 09:13
Response	**AFFECTED**
Address	Wentworth Park Road Glebe
Location in Road	Not Supplied
Activity	Vertical Boring

It is important to read and understand all the information and disclaimers provided below and the responsibilities outlined in the attachment prior to commencing work(s)

Due to the nature and the age of assets and records, the accuracy and/or completeness of the information in the attached plan(s) cannot be guaranteed. The City does not make any representation or give any guarantee, warranty or undertaking as to the accuracy, currency, completeness, effectiveness or reliability of the information.

Plan(s) are indicative only and all information needs to be verified through field survey including the use of appropriately qualified personnel and equipment.

This information has been generated by an automated system based on the information specified by the Enquirer. It is the Enquirer's responsibility to ensure that the work site has been properly identified and is accurately reflected in the information provided by the City. If the information does not match the work site, resubmit your enquiry for the correct site.

To the extent of any inconsistency, the information contained in this document will prevail over any other information provided to you by the City and Dial Before You Dig.

Duty of Care

When working in the vicinity of City Assets you have a "duty of care" that must be observed.

Works or proposed works should be planned to allow for minimal impact and appropriate protection of City Assets.

Locating Assets

It is the Enquirer's responsibility to:

- Request plans of City Assets for a particular location at a reasonable time before work begins. If you have any doubts as to the exact location of City Assets, we strongly recommend that you engage the service of a suitably qualified locator; and
- Visually locate City Assets. For buried assets this should be done by hand digging or using non-destructive methods such as water jetting (pot holing) where construction activities may damage or interfere with City Assets.

Damage of Assets

Damage to City Assets must be reported immediately to 02 9265 9333 or council@cityofsydney.nsw.gov.au anytime, any day.

Enquirers and other parties undertaking works will be held responsible for all damage that occurs or impacts City Assets as a result of the works. This includes interfering with City Assets, conducting unauthorised modification works and interfering with City Assets in a way that prevents the City or a third party from accessing or using City Assets in the future.

The City reserves all rights to recover compensation for any Loss (including consequential losses).

Relevant Approvals

Relevant approval must be obtained prior to commencement of works on or near City Assets. The Enquirer is responsible to ensure that all requisite approvals have been obtained prior to works and that all works are undertaken in accordance with the requirements of any approval.

There is a variety of legislation, regulation and City policies that govern requirements for approval to install or modify City Assets. These requirements will also vary depending on the type of asset. Additional guidance may be provided in subsequent sections of this document. This is intended for guidance purposes only and is not comprehensive. It should also be acknowledged that standards may vary from time to time and the information supplied regarding approvals or standards may be out of date or superseded.

User Risk

The Enquirer acknowledges that they use the information at their own risk. In consideration of the information provided by the City to the fullest extent permitted by law:

- All conditions and guarantees concerning the information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded. To the extent that those statutory guarantees cannot be excluded, the liability of the City to the Enquirer is limited to the supplying of the information again;
- In no event will the City be liable for, and the Enquirer releases the City from, any Loss arising from or in connection with the information, including the use of or inability to use the information and delay in the provision of the information;
- The Enquirer will indemnify the City against any Loss arising from or in connection with the information and the works; and
- The Enquirer assumes all risks associated with the use of the Dial Before You Dig and City websites, including risk to the Enquirer's computer, software or data being damaged by any virus, and release and discharge the City from all Loss which might arise in respect of your use of the websites.

Glossary

"City" *means The Council of the City of Sydney.*

"City Assets" *mean those items that are under the ownership, care or control of the City*

"Enquirer" *is the person(s) or organisation(s) requesting or using the information.*

"Loss" *includes any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages).*

If you have any further enquiries in regards to assets affected in this referral, please contact the following:

- For Survey infrastructure: Principal Surveyor via email or phone:
- For Stormwater: Principal Engineer Water Assets via email or phone
- For Electrical: , Principal Engineer Electrical & Furniture via email or phone

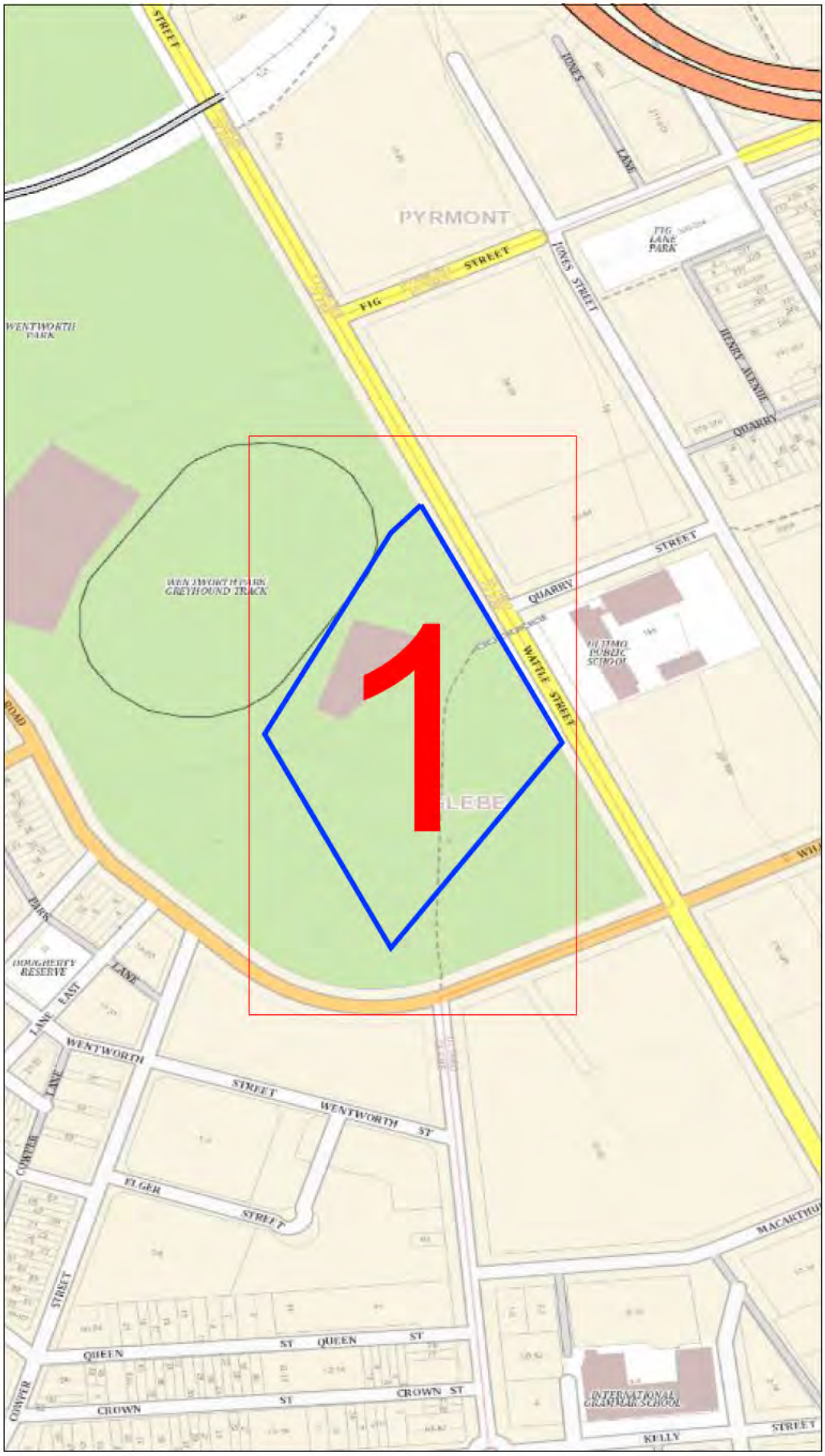
Yours sincerely,

Principal Surveyor

Overview Map

Sequence No: 52159820

Wentworth Park Road Glebe



LEGEND:

- Affected DBYD Work Area
- 1 Detail Map

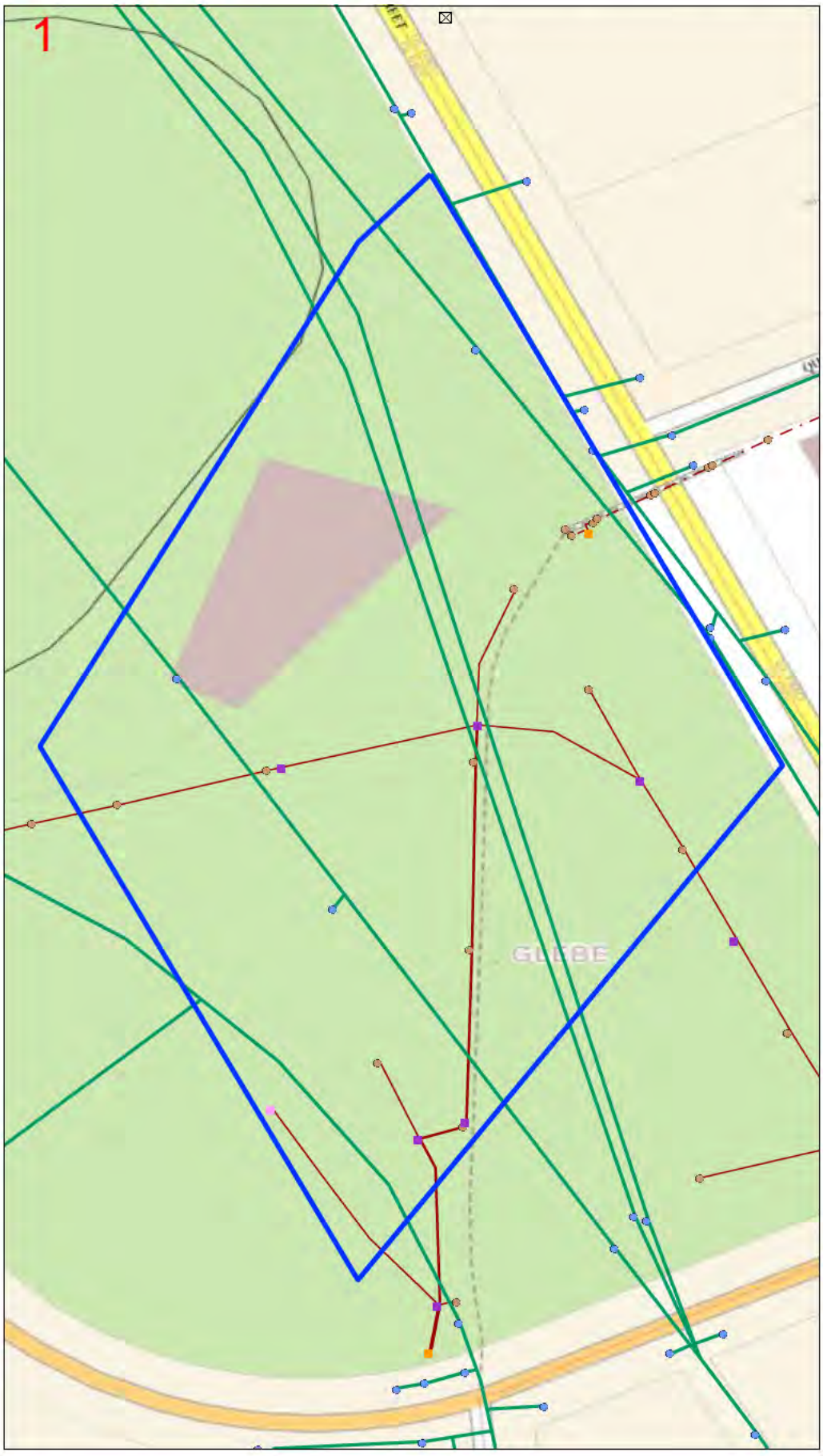
N

0 0.03km

Map 1

Sequence No: 52159820

Wentworth Park Road Glebe



LEGEND:

Affected DBYD Work Area

Survey Infrastructure

- Permanent Mark
- Trigonometrical Station
- State Survey Mark
- Miscellaneous Mark

Stormwater

- Stormwater Gross Pollutant Traps
- Stormwater Structures
- Stormwater Conduit
- Stormwater Raingardens

Electrical

- Lightning Points
- Smart Poles

Electrical Services

- Main Switch Board
- Distribution Board
- Special Small Service
- Electrical Pit
- Supply Feature
- Other

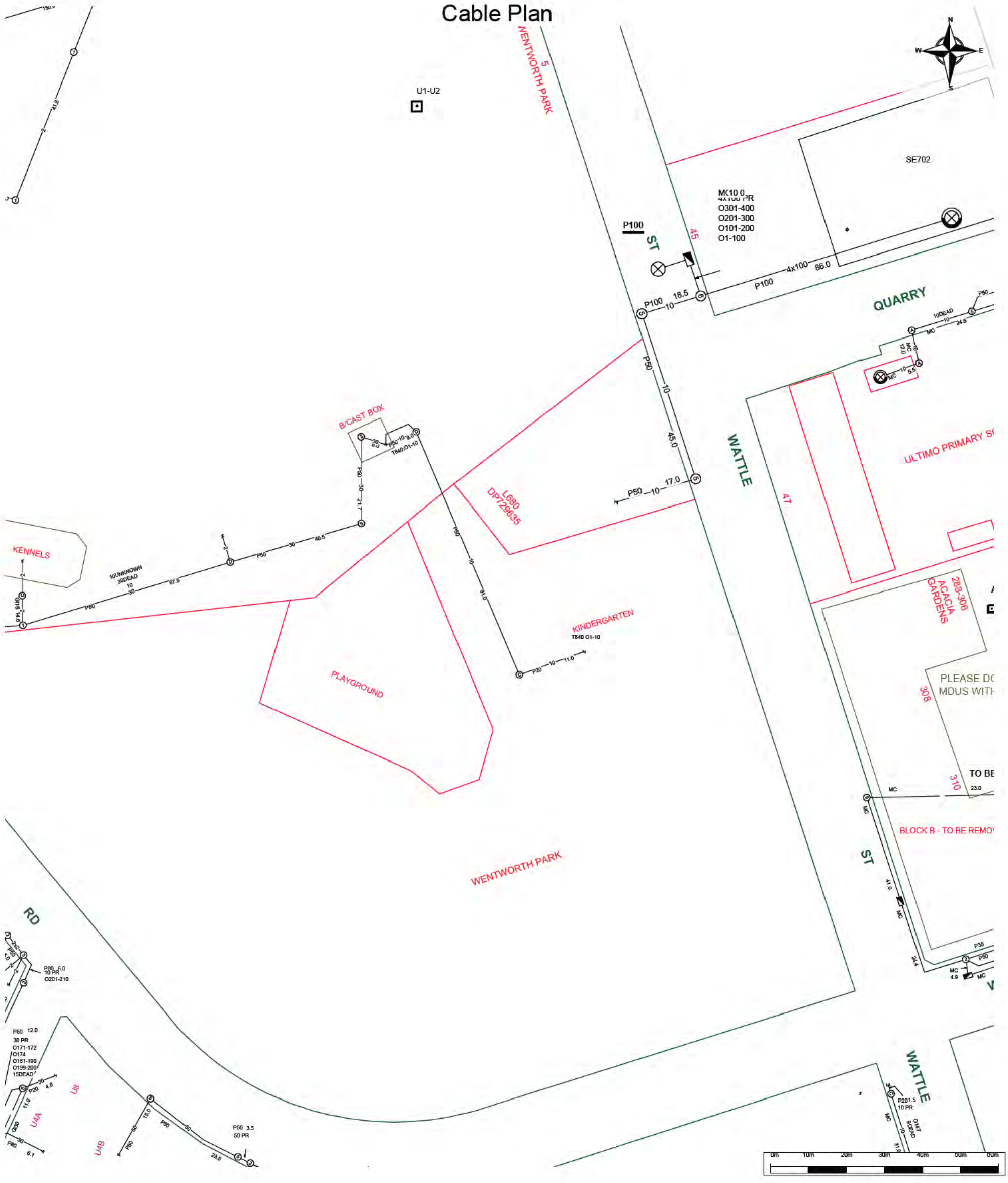
Electrical Conduits & Cables

- Underground
- Building
- Aerial

N

0 0.01km

Cable Plan



Telstra

For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 13/04/2016 09:17:34

Sequence Number: 52159826

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

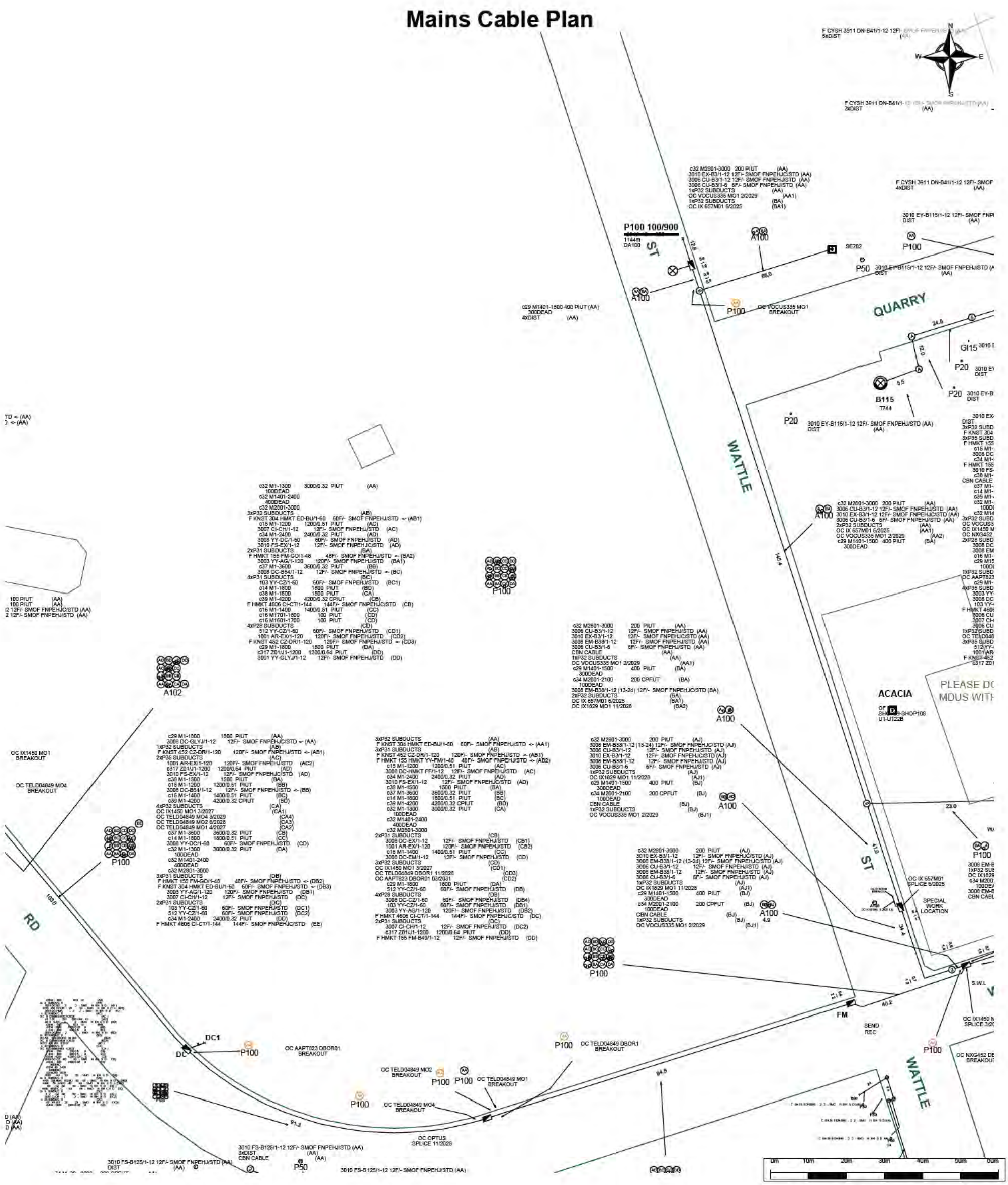
WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Mains Cable Plan



For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 13/04/2016 09:17:48

Sequence Number: 52159826

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

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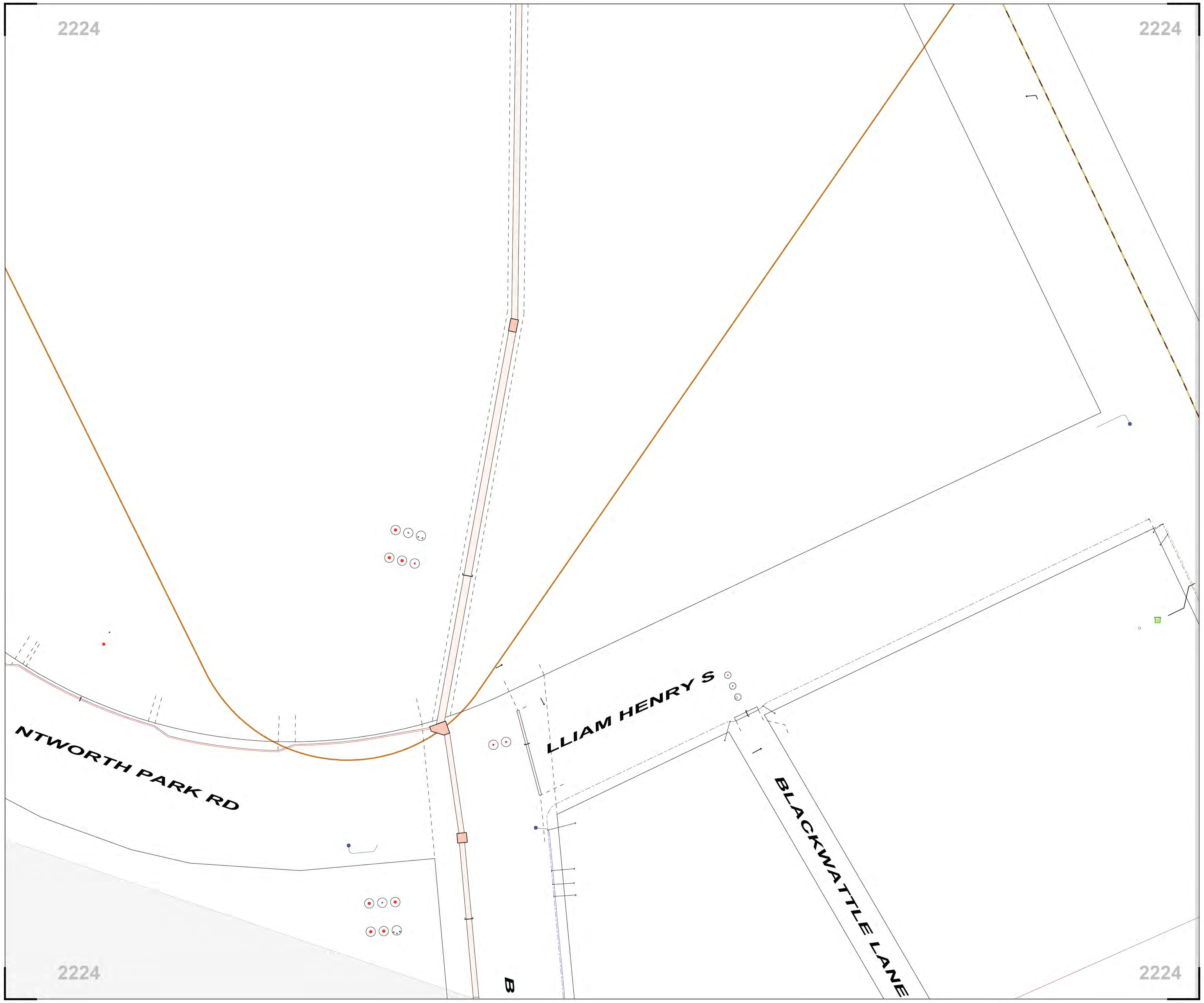

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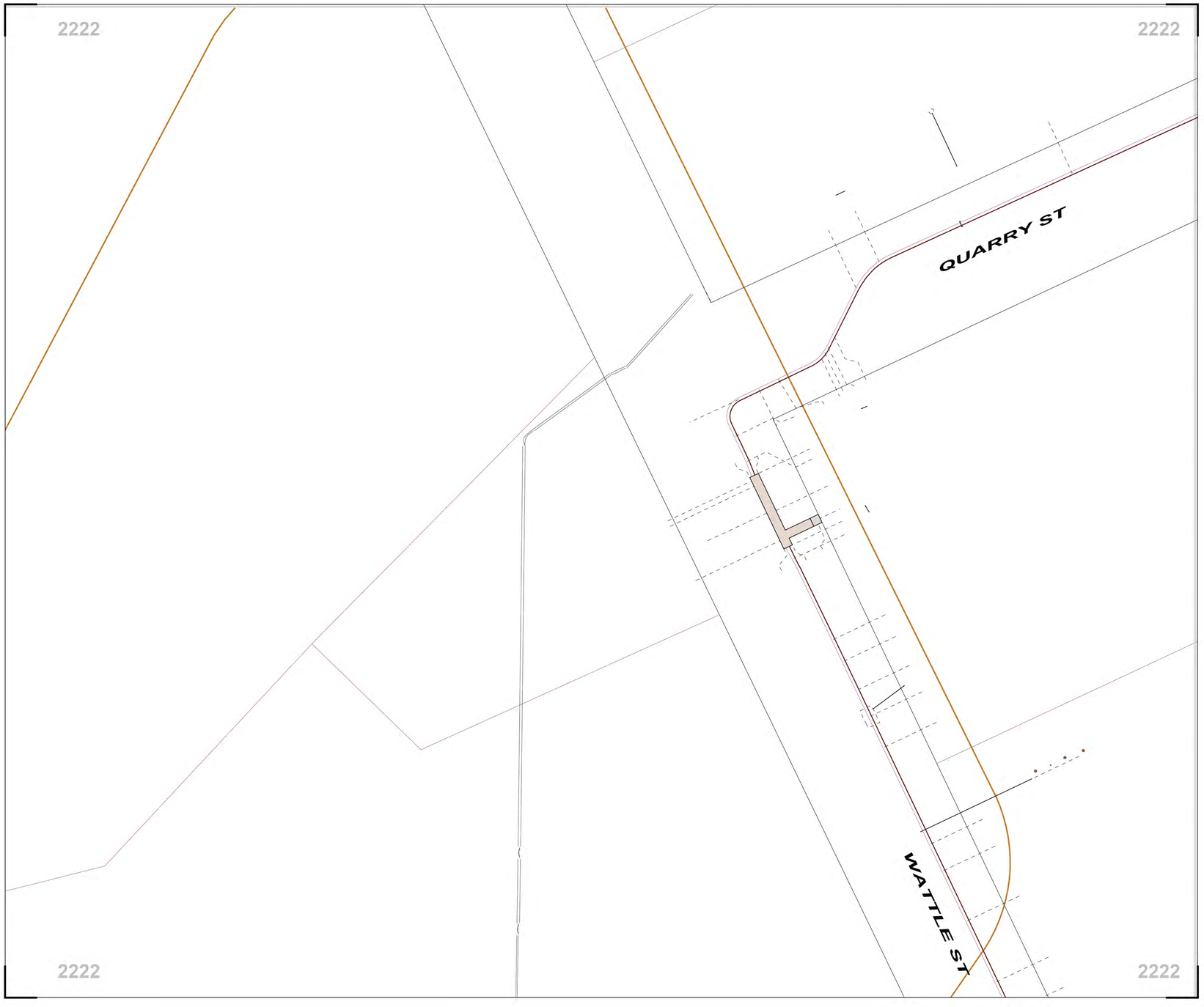

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BLACK WATTLE BAY SWC No. 17

DBYD Address:
n/a Wentworth Park Road
Glebe NSW 2037

DBYD Job No: 10550367

DBYD Sequence No: 52159829

No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

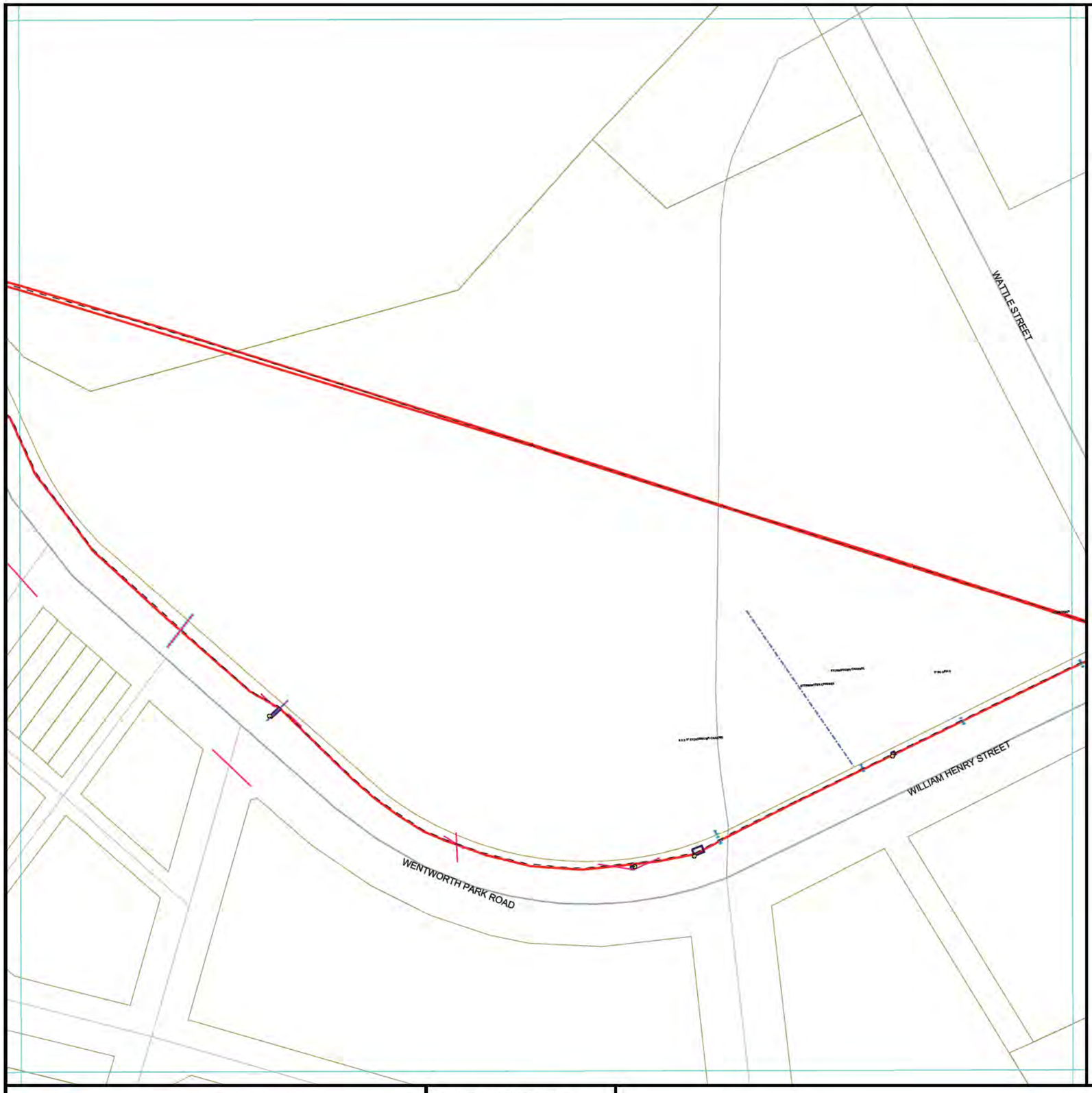
Scale: 1:1500

Date of Production: 13/04/2016

Plan 1 of 1

N

0m 7m 14m 21m 28m



THIS PLAN IS NOT VALID UNLESS PRINTED IN COLOUR
SYDNEY TRAINS Dial Before You Dig Service Search

PLOTTED DATE: 24/07/2015

This plan is to be read in conjunction with Sydney Trains' Dial Before you Dig Terms & Conditions.

- External Agency Service Crossing.Centreline - aerial
- External Agency Service Crossing.Centreline - underground
- HV Cable.11kV Location
- HV Cable.33kV Location
- HV Cable.abandoned location
- Track Segment.Centreline Active
- Drainage.Centreline
- Pipeline.Centreline
- Pit.Location
- Pit.Pit Outline
- Trench/Tunnel/Trough.Location
- UBD Map Grid.Coverage
- Road Segment.Arterial Road Centreline
- Road Segment.Centreline
- Road Segment.Distributor Road Centreline
- Road Segment.Local Road Centreline
- Road Segment.Urban Service Lane Centreline
- Lot.Coverage Standard
- Easement.Coverage Current

The precision of the location of the services on this plan varies depending on the source and method of capture.
This plan should be used as a guide only.
This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor.
Contact for further information:
Sydney Trains External Interface Manager Ph. 9847 8914
Airport Line Maintainance Manager Ph. 9669 8602

Exposure of or suspected damage to Sydney Trains' services must be reported immediately to Electrical Systems Operations
Ph. 9379 4911 or 1800 060 015

Transport Sydney Trains

Where is ... dial

PRODUCED BY SYDNEY TRAINS GIS FROM MAPPED DATA

UBD: Sydney 235 P14

SYDNEY TRAINS HIGH VOLTAGE ELECTRICAL SERVICES SEARCH

N

PLOTTED DATE: 24/07/2015

PLOTTED BY: dgrimshaw

Lotsearch Report

Environmental Risk and Planning Report

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Report Buffer: 1000m (Heritage & Topo 500m)

Report Date: 12 Apr 2016 16:23:21

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Location Confidences

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

LC Code	Location Confidence
1	Geocoded to the site location or part of site
2	Geocoded with the confidence of the general/wider area
3	Geocoded to the road or rail
4	Geocoded to the road intersection
5	Feature is a buffered point
6	Land adjacent to Geocoded Site
7	Geocoded to a network of features

Dataset Listing

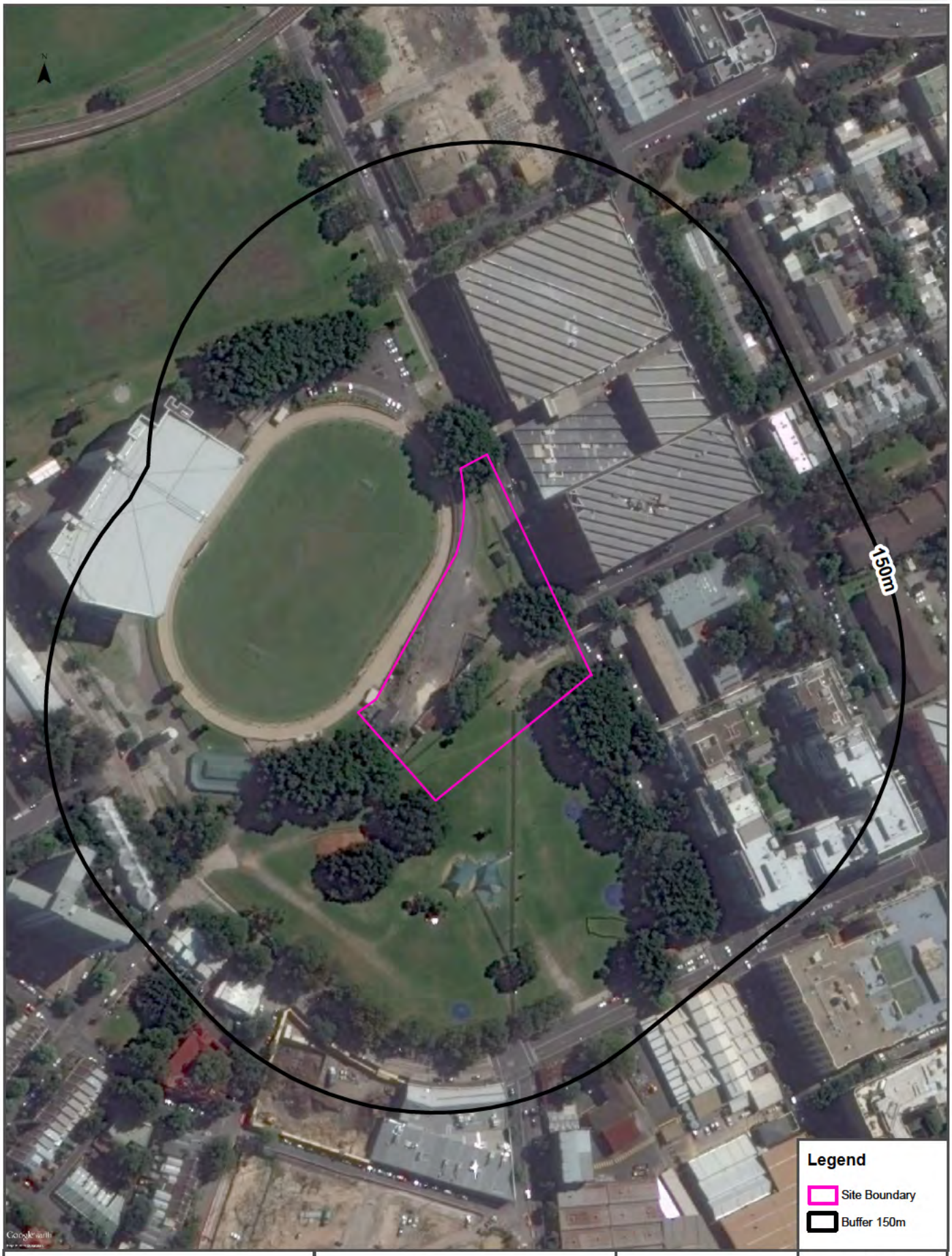
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	Land and Property Information	12/04/2016	12/04/2016	Daily	-	-	-
Topographic Data	Land and Property Information	10/04/2015	01/04/2015	As required	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	30/03/2016	01/03/2016	Monthly	0	0	2
Contaminated Land: Records of Notice	Environment Protection Authority	13/03/2016	15/02/2016	Monthly	0	0	1
Former Gasworks	Environment Protection Authority	13/03/2016	10/05/2013	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	11/04/2016	15/11/2012	Quarterly	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	12/04/2016	12/04/2016	Monthly	0	0	4
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority	12/04/2016	12/04/2016	Monthly	0	0	2
Former POEO Licenced Activities now revoked or surrendered	Environment Protection Authority	12/04/2016	12/04/2016	Monthly	0	0	4
UPSS Environmentally Sensitive Zones	Department of Environment, Climate Change and Water (NSW)	14/04/2015	12/01/2010	As required	1	1	1
UBD Business to Business Directory 1991	Universal Publishers Pty Ltd			Not required	0	5	14
UBD Business Directory 1991 Motor Garages/Service Stations	Universal Publishers Pty Ltd			Not required	0	0	2
UBD Business Directory 1970	Universal Publishers Pty Ltd			Not required	1	2	7
UBD Business Directory 1970 Drycleaners & Motor Garages/Service Stations	Universal Publishers Pty Ltd			Not required	0	0	48
UBD Business Directory 1950	Universal Publishers Pty Ltd			Not required	2	8	14
UBD Business Directory 1950 Drycleaners & Motor Garages/Service Stations	Universal Publishers Pty Ltd			Not required	0	0	61
Points of Interest	Land and Property Information	10/04/2015	01/04/2015	Annually	0	2	56
Tanks (Areas)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Tanks (Points)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Easements	Land and Property Information	08/10/2014	08/10/2014	As required	0	0	2
State Forest	Land and Property Information	11/04/2016	23/01/2015	As required	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment and Heritage	11/04/2016	31/12/2015	Annually	0	0	0
Hydrogeology Map of Australia	Commonweal h of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Boreholes	NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation; Commonwealth of Australia (Bureau of Meteorology) 2015	21/03/2016	01/12/2015	Quarterly	0	0	21
Geological Units 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	1	-	6
Geological Structures 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	0	-	6
Soil Landscapes	NSW Office of Environment and Heritage	12/08/2014		None planned	2	-	5
Acid Sulfate Soils	NSW Planning and Environment	04/01/2016	19/09/2008	As required	1	-	-
Dryland Salinity Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	0	0	0
Mining Subsidence Districts	Land and Property Information	12/04/2016	12/04/2016	As required	0	0	0
SEPP 14 - Coastal Wetlands	NSW Planning and Environment	17/12/2015	24/10/2008	Annually	0	0	0
SEPP 26 - Littoral Rainforest	NSW Planning and Environment	17/12/2015	05/02/1988	Annually	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
SEPP 71 - Coastal Protection	NSW Planning and Environment	17/12/2015	01/08/2003	Annually	0	0	0
SEPP Major Developments 2005	NSW Planning and Environment	09/03/2013	25/05/2005	Under Review	0	0	4
SEPP Strategic Land Use Areas	NSW Planning and Environment	04/05/2015	01/05/2015	Annually	0	0	0
Local Environmental Plan - Land Zoning	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	1	3	118
Local Environmental Plan - Minimum Subdivision Lot Size	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	0	-	-
Local Environmental Plan - Height of Building	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	0	-	-
Local Environmental Plan - Floor Space Ratio	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	0	-	-
Local Environmental Plan - Land Application	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	1	-	-
Local Environmental Plan - Land Reservation Acquisition	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	0	-	-
State Heritage Items	NSW Planning and Environment	30/01/2016	12/03/2015	Quarterly	0	0	4
Local Heritage Items	NSW Planning and Environment	30/01/2016	27/11/2015	Quarterly	0	2	77
Bushfire Prone Land	NSW Rural Fire Service	04/01/2016	11/12/2015	Quarterly	0	0	0
Native Vegeta ion of he Sydney Metropolitan Area	NSW Office of Environment and Heritage	08/10/2014	11/10/2013	As required	1	1	2
RAMSAR Wetlands	Commonweal h of Australia Department of the Environment	08/10/2014	24/06/2011	As required	0	0	0
ATLAS of NSW Wildlife	NSW Office of Environment and Heritage	12/04/2016	12/04/2016	Daily	-	-	-

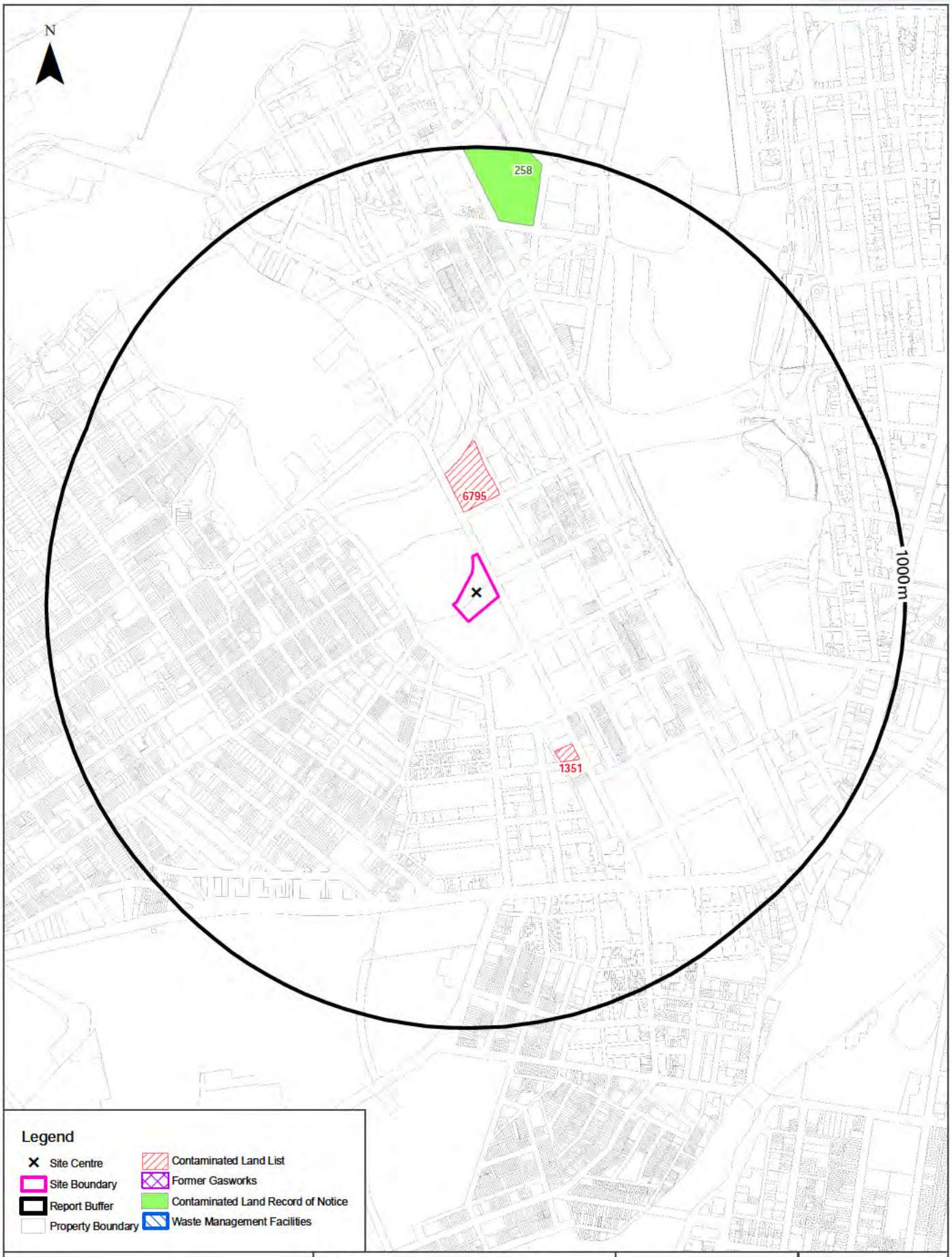
Aerial Imagery 2016

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Contaminated Land & Waste Management Facilities

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Data Sources: Property Boundaries & Topographic Data: © Land and Property Information (a division of the Department of Finance and Services) 2016

Coordinate System: GDA 1994 MGA Zone 56

Date: 12April 2016

Contaminated Land & Waste Management Facilities

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	EPA site management class	Status	Dist	Direction	LC
6795	Fig and Wattle Depot Site	14-26 Wattle Street	Pyrmont	Unclassified	Under assessment	Current EPA List	110m	North	1
1351	Shell Coles Express Service Station	387-429 Wattle Street	Ultimo	Service Station	Under assessment	Current EPA List	383m	South East	1

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

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

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

Contaminated Land & Waste Management Facilities

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Contaminated Land: Records of Notice

Record of Notices within the report buffer:

Map Id	Area No	Name	Address	Suburb	Notices	Distance	Direction	LC
258	3063	Pyrmont Power Station	Pyrmont Road	Pyrmont	7 former	820m	North	1

Contaminated Land Records of Notice Data Source: Environment Protection Authority

Former Gasworks

Former Gasworks within the report buffer:

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

Former Gasworks Data Source: Environment Protection Authority

National Waste Management Site Database

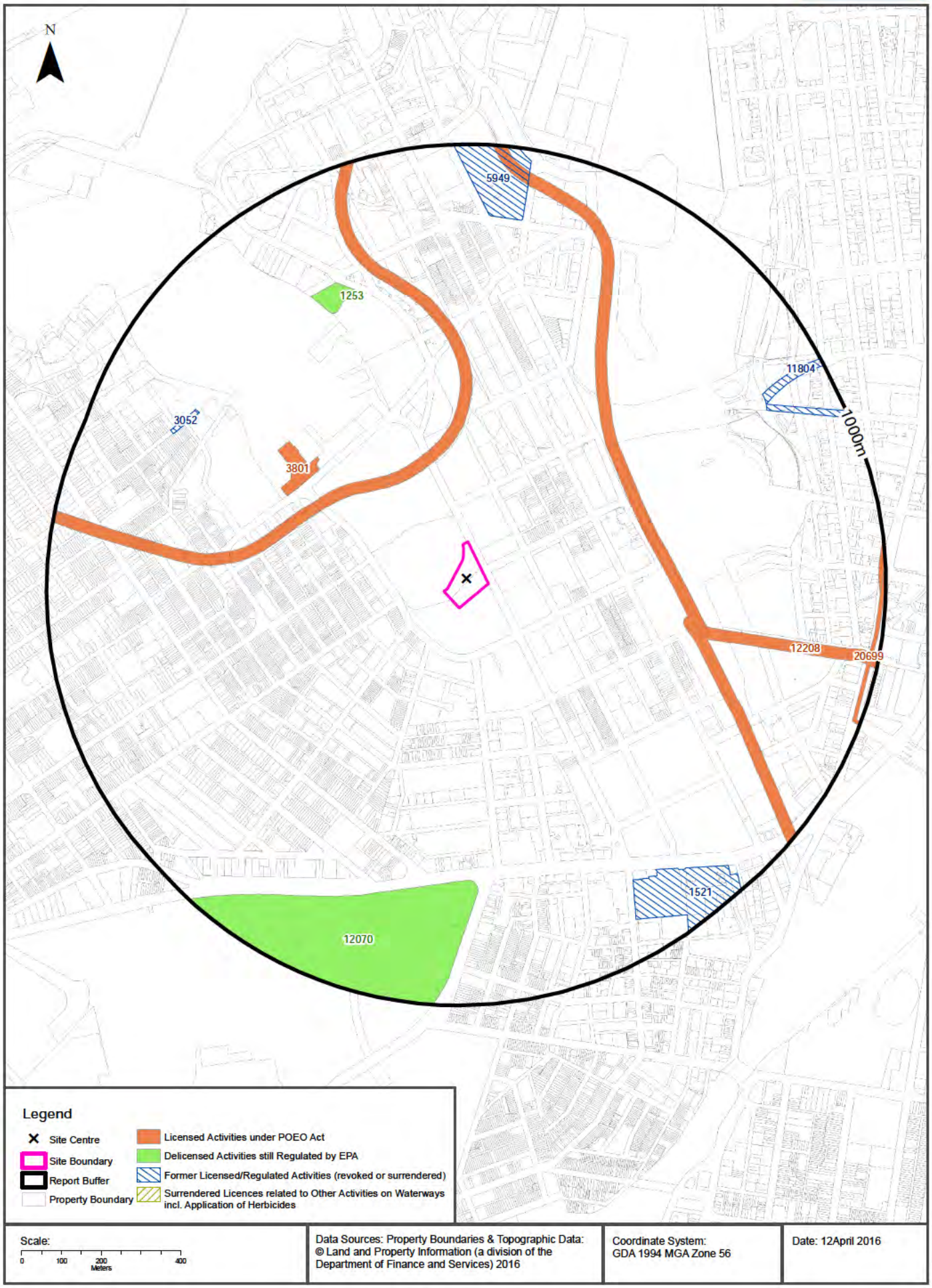
Sites on the National Waste Management Site Database within the report buffer:

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Distance	Direction	LC
N/A	No records in buffer										

Wate Management Facilities Data Source: Australian Governement Geoscience Australia

EPA Activities

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



EPA Activities

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Licensed Activities under the POEO Act 1997

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

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		Sydney Trains (RailCorp) network		Railway systems activities	3	212m	West
3801	HANSON CONSTRUCTION MATERIALS PTY LTD	HANSON CONSTRUCTION MATERIALS PTY LTD	BRIDGE ROAD	GLEBE	Concrete works	1	407m	North West
3801	HANSON CONSTRUCTION MATERIALS PTY LTD	HANSON CONSTRUCTION MATERIALS PTY LTD	BRIDGE ROAD	GLEBE	Shipping in bulk	1	407m	North West
20699	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	CBD and South East Light Rail	CBD and South East Light Rail Alignment and Ancillary Sites	SYDNEY	Land-based extractive activity	3	971m	South East

POEO Licence Data Source: Environment Protection Authority

Delicensed Activities still regulated by the EPA

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

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
1253	HYMIX AUSTRALIA PTY LIMITED	HYMIX AUSTRALIA PTY LTD	41-45 BANK STREET	PYRMONT	Concrete works	1	665m	North West
12070	THE UNIVERSITY OF SYDNEY	The University of Sydney	Camperdown & Darlington Campuses	SYDNEY UNIVERSITY	Hazardous, Industrial or Group A Waste Generation or Storage	1	684m	South West

Delicensed Activities Data Source: Environment Protection Authority

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

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

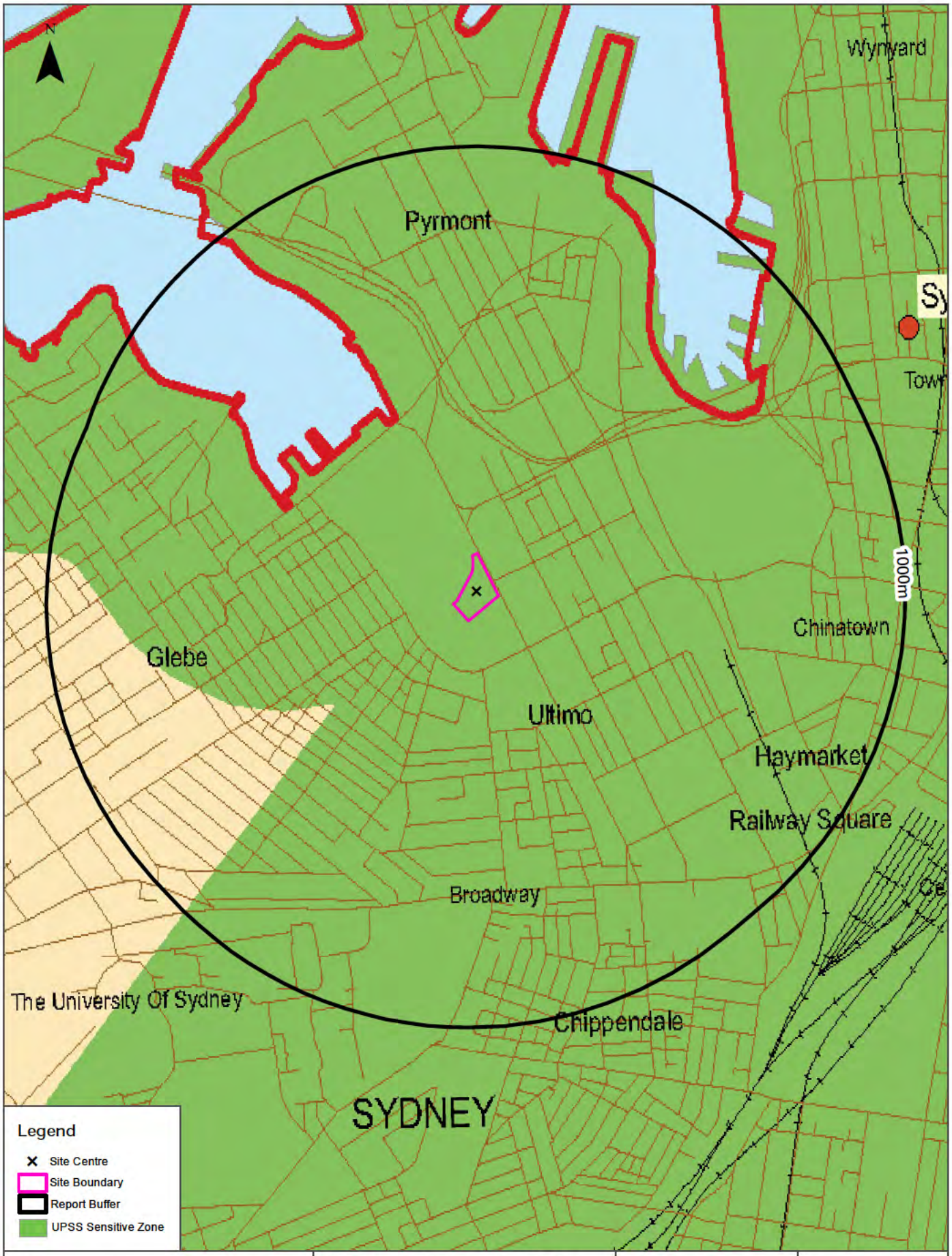
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
3052	REMATH INVESTMENTS NO 6 PTY LTD	45-51 FORSYTH STREET, GLEBE, NSW 2037	Surrendered	22/02/2000	Shipping in bulk	3	741m	North West
1521	CARLTON & UNITED BREWERIES (N S W) PTY LTD	26-98 BROADWAY, SYDNEY, NSW 2000	Surrendered	24/03/2000	Brewing and distilling, Hazardous, Industrial or Group A Waste Generation or Storage	1	812m	South East

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
5949	SYDNEY HARBOUR CASINO PROPERTIES PTY LIMITED	STAR CITY CASINO, 80 PYRMONT STREET, PYRMONT, NSW, 2009	Surrendered	13/06/2000	Miscellaneous licensed discharge to waters (at any time)	1	820m	North
11804	BILFINGER BERGER AG	CROSS CITY TUNNEL, SYDNEY, NSW 2000	Surrendered	24/12/2002	Road construction	3	821m	East

Former Licensed Activities Data Source: Environment Protection Authority

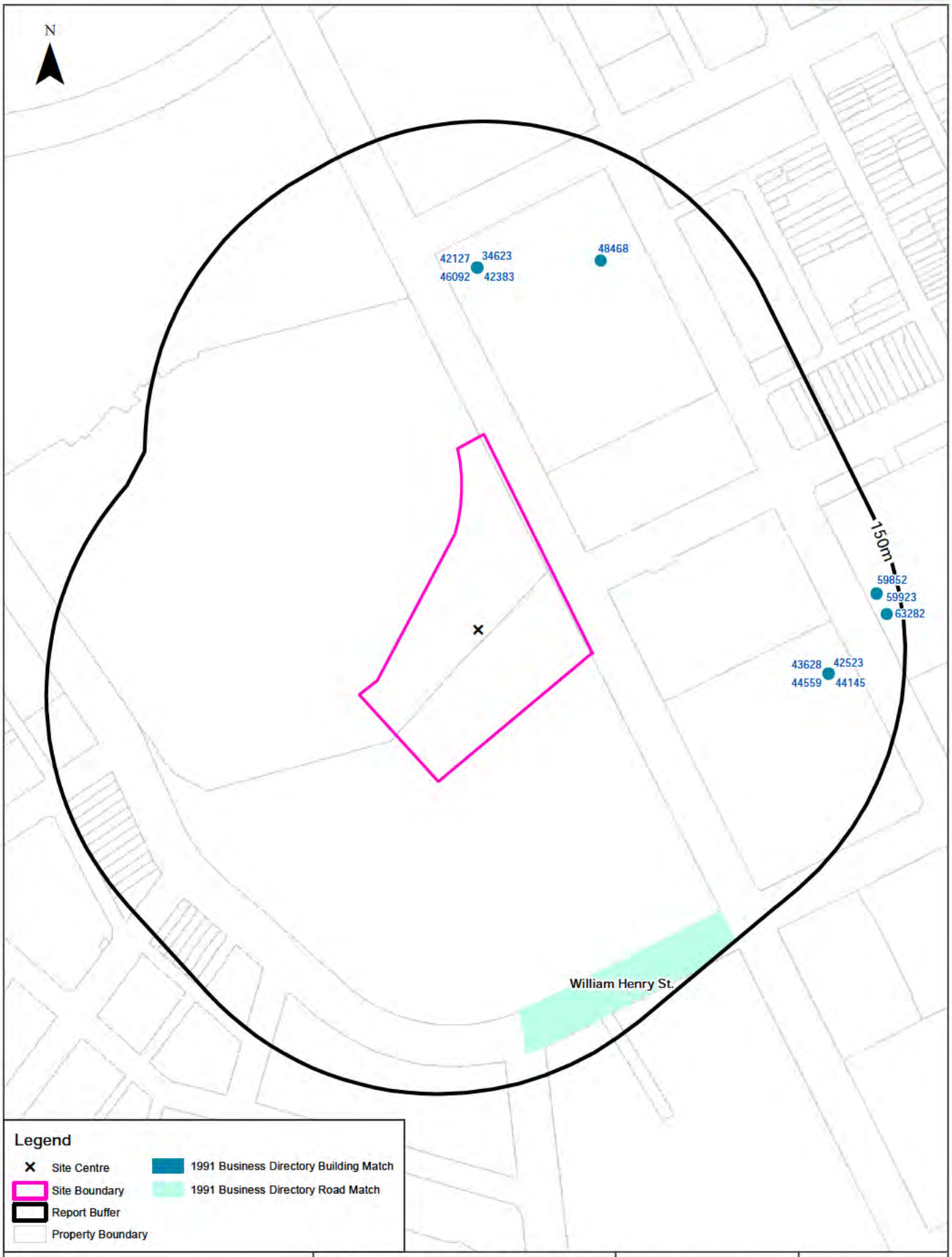
UPSS Sensitive Zones

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



1991 Historical Business Directory Records

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Historical Business Directories

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

1991 Business to Business Directory Records

Records from the 1991 UBD Business to Business Directory within 150m of the site:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Food Products Mfrs &/or Processors	Benedikt Imports Pty Ltd	42 Wattle St Ultimo 2007	46092	Building Match	78m	North
Auctioneers	Combined Auctions Pty Ltd	42 Wattle St, Ultimo 2007	34623	Building Match	78m	North
Electric Light Specialists &/or Installers &/or Designers	Koala Wholesale Electrical Suppries,	42 Wattle St, Ultimo. 2007.	42127	Building Match	78m	North
Electrical Accessories Mfrs &/or W/salers	Koala Wholesale Electrical Supplies	42 Wattle St, Ultimo. 2007	42383	Building Match	78m	North
Hire Services	Morgan Expo Hire Pty. Ltd.	39 Jones St Ultimo 2007	48468	Building Match	98m	North
Engineers General	Jadmac Electrical Services	55 Jones St Ultimo 2007	44145	Building Match	112m	East
Engineers Marine	Jadmac Electrical Services	55 Jones St Ultimo 2007	44559	Building Match	112m	East
Engineers Electrical	Jadmac Electrical Services	55 Jones St Ultimo 2007	43628	Building Match	112m	East
Electrical Contractors	Jadmac Electrical Services,	55 Janes St, Ultimo 2007	42523	Building Match	112m	East
Furniture Mfrs &/or W/salers Church	Cromwell Pty Ltd	2 William Henry St Ultimo 2007	46937	Road Match	116m	South East
Furniture Importers	Cromwell Pty Ltd	2 William Henry St Ultimo 2007	46863	Road Match	116m	South East
Publishers	Lothian books	192 Jones St Ultimo 2007	59852	Building Match	137m	East
Publishers Representatives	Lothian books	192 Jones St Ultimo 2007	59923	Building Match	137m	East
StationersWholesale	S & K York Stationery Pty Ltd	194 Jones St Ultimo 2007	63282	Building Match	140m	East

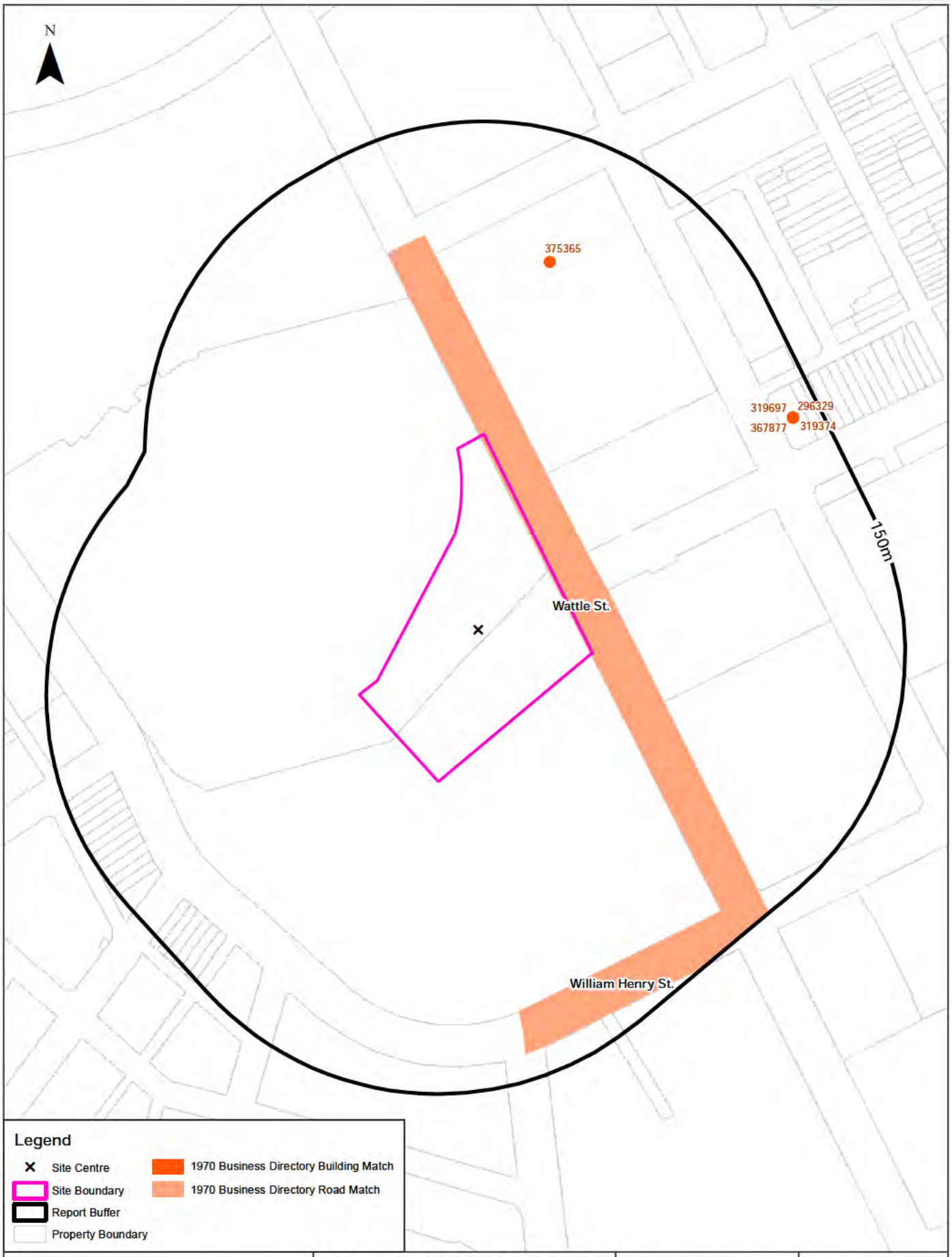
1991 Business Directory Motor Garages & Service Stations

Motor Garages & Service Stations from the 1991 UBD Business Directory within 1km of the site:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Motor Garages & Service Stations	Ultimo Auto Port	398 Wattle St., Ultimo	53969	Building Match	267m	South East
Motor Garages & Service Stations	Pymont Bridge Service Station	Pyrmont Bridge Rd., Pyrmont	53790	Road Match	579m	North

1970 Historical Business Directory Records

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Historical Business Directories

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

1970 Business Directory Records

Records from the 1970 UBD Business Directory within 150m of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
BOX & CASE MERCHANTS &/OR MANUFACTURERS (B645)	Ultimo Box Co., Wattle St., Broadway	269484	Road Match	0m	East
WOOL STORES (W510)	Wlnchombe Carson Ltd.,Jones St.,Ultimo	375365	Building Match	87m	North
WOOL STORES (W510)	Elder Smith,Goldsbrough Mort Ltd.,2 William Henry St,Ultimo	375359	Road Match	116m	South East
INSTRUMENTS-SCIENTIFIC-IMPORTERS,MANUFACTURERS&/OR DISTRIBUTORS (I440)	Avery,W. & T. (Aust.) Pty. Ltd.,376 Jones St.,Ultimo	319697	Building Match	134m	North East
INSTRUMENT-MEASURING-MFRS&/OR IMPORTS. &/OR DISTS. (I410)	Avery,W. & T. (Aust.) Pty. Ltd.,376 Jones St.,Ultimo	319374	Building Match	134m	North East
TESTING/COUNTING MACHINE MFRS./IMPORTERS/DISTRIBUTORS (T225)	Avery,W.& T.(Aust.) Pty.Ltd,376 Jones St,Ul imo	367877	Building Match	134m	North East
ELECTRONIC EQUIPMENT MFRS.&/OR DISTRIBUTORS (E355)	Avery,W.& T.(Aust.) Pty.Ltd.,376 Jones St.,Ultimo	296329	Building Match	134m	North East

1970 Business Directory Drycleaners & Service Stations

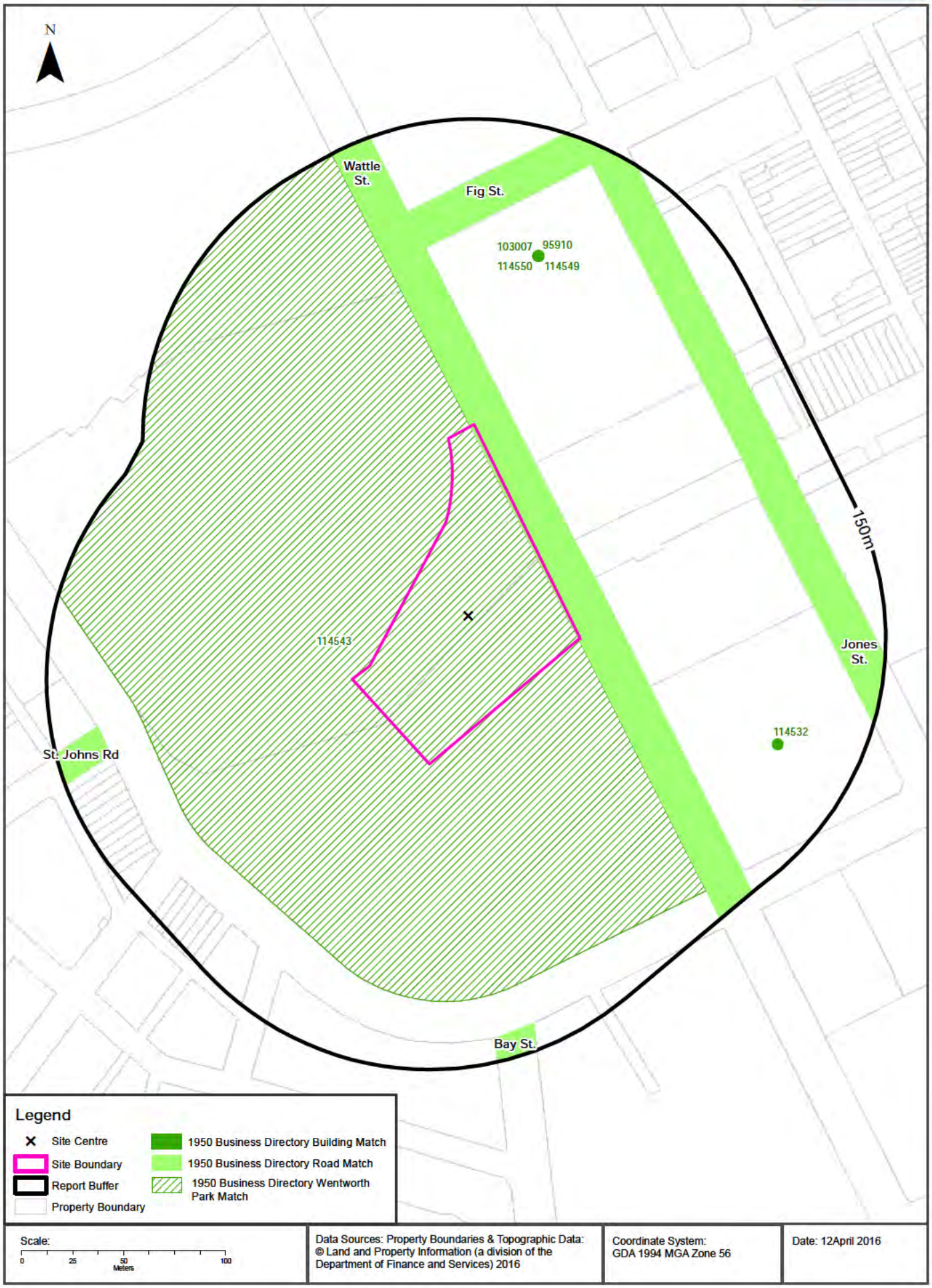
Drycleaners, Motor Garages & Service Stations from the 1970 UBD Business Directory within 1km of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
MOTOR GARAGES & ENGINEERS (M6S6)	Baber,R. Motors,50 Glebe St.GLEBE	337259	Building Match	400m	South
MOTOR GARAGES & ENGINEERS (M6S6)	G.B. Auto Port (The),389 Wattle St.ULT MO	337839	Building Match	405m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	G.B. Auto Port (The),389 Wattle St.ULT MO	337840	Building Match	407m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Wright,S. Pty. Ltd.,571 Harris St.GLEBE	338918	Building Match	411m	East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Wentworth Park Service Station,2 Bridge Rd. MW 2391GLEBE	341614	Building Match	428m	West
MOTOR GARAGES & ENGINEERS (M6S6)	Wattle Service Station,478 Wattle St.ULTIMO	338847	Building Match	452m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Gillies,D. H.,33 Mountain St.,Broadway	337864	Building Match	461m	South
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	BP Service Station,490 Wattle St.ULTIMO	340892	Building Match	465m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Motor Repairing & Welding Pty. Ltd.,16 Small St.BROADWAY	338296	Building Match	515m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Perdrlau,J. A. Pty. Ltd.,16 Small St.BROADWAY	338410	Building Match	517m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Motor Repairing & Welding Pty. Ltd.,16 Small St.ULTIMO	338297	Building Match	520m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Perdriau,J. A. Pty. Ltd.,16 Small St.ULT MO	338409	Building Match	520m	South East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Esso Servicenter,Pyrmont Bridge Rd.PYRMONT	341099	Road Match	579m	North
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Pyrmont Bridge Service Sta ion,Pyrmont Bridge Rd.PYRMONT	341411	Road Match	579m	North
MOTOR GARAGES & ENGINEERS (M6S6)	Needham Auto Co. Pty. Ltd.,62 Glebe Point Rd.GLEBE	338319	Building Match	608m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Sommervllie,P.,106 Glebe Rd.GLEBE	338626	Building Match	612m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Century Motors Pty. Ltd.,3 Owen St.BROADWAY	337556	Building Match	614m	South
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Sommerville,P.,108 Glebe Rd.GLEBE	341473	Building Match	614m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Grand Central Parking Station,150-2 Hay St.	337923	Building Match	615m	East
DRY CLEANERS,PRESSERS/DYERS (D710)	Glebe Road Dry Cleaners,6 Glebe Point Rd.,Glebe	292316	Building Match	657m	South
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Market Filling Station,6 Ultimo Rd.	341299	Building Match	691m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Pyrmont Bridge Service Sta ion,Cnr. Pyrmont St. & Pyrmont Bridge Rd.PYRMONT	338459	Road Intersection	692m	North
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Pier Street Service Station,19 Pier St.	341398	Building Match	702m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Pier Street Service Station,19 Pier St.	338425	Building Match	702m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Schofield Bros.,Arundel St.GLEBE	338579	Road Match	726m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Mortimer,J. H.,15a Arundel St.GLEBE	338293	Building Match	741m	South West
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Half Way Filling Station,47 Miller St.PYRMONT	341191	Building Match	752m	North
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Drew's Service Station,Quay St.	341013	Road Match	795m	East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	High & Low Service Station,Cnr. Pyrmont Bridge Rd. & Union St.PYRMONT	341206	Road Intersection	808m	North
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Central Service Station,Bank St.PYRMONT	340960	Road Match	816m	North West
MOTOR GARAGES & ENGINEERS (M6S6)	Pyrmont Auto Port,Bank St.PYRMONT	338458	Road Match	816m	North West
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Pyrmont Auto Port,Bank St.PYRMONT	341410	Road Match	816m	North West

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
MOTOR GARAGES & ENGINEERS (M6S6)	Brown & Sharp,1 Dixon St.	337447	Building Match	820m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Darling Harbour Garage,Cnr. Dixon & Harbour Sts.	337661	Road Match	830m	North East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Total Service Station,cnr. Union A Murray Sts.PYRMONT	341574	Road Intersection	830m	North
MOTOR GARAGES & ENGINEERS (M6S6)	Bramstons Garage,65 Quay St.	337426	Building Match	837m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	K.R.B. Engineering,38 City Rd.	338083	Building Match	840m	South
MOTOR GARAGES & ENGINEERS (M6S6)	K.R.B. Engineering,38 City Rd.CHIPPENDALE	338084	Building Match	840m	South
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Day Street Auto Service,cnr. Day & Liverpool Sts	341002	Road Intersection	865m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Rennert,J.,2 Forsyth St.GLEBE	338501	Building Match	876m	West
MOTOR GARAGES & ENGINEERS (M6S6)	N.S.W. Government Railways Motor Garage,1 Bathurst St	338311	Building Match	889m	North East
MOTOR GARAGES & ENGINEERS (M6S6)	Heddle,J.,17 Blackfrlars St.CHIPPENDALE	338000	Building Match	910m	South East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Marchant's Garage Pty. Ltd.,176 Bridge Rd.GLEBE	341298	Building Match	917m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Merchants Garage Pty. Ltd.,176 Bridge Rd.,GLEBE	338247	Building Match	917m	South West
MOTOR GARAGES & ENGINEERS (M6S6)	Chan,Bernard Investments Pty. Ltd.,427 Sussex St.	337559	Building Match	929m	East
DRY CLEANERS,PRESSERS/DYERS (D710)	Haymarket Dry Cleaners,693a George St.	292338	Building Match	938m	East
DRY CLEANERS,PRESSERS/DYERS (D710)	Cinema Dry Cleaners,39 Goulburn St.	292246	Building Match	962m	East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Iron Bridge Service Sta ion,Hay St.	341232	Road Match	964m	East

1950 Historical Business Directory Records

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Historical Business Directories

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

1950 Business Directory Records

Records from the 1950 UBD Business Directory within 150m of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
WOOL STORES	N.S.W. State Wool Committee, Wentworth Park	114543	Area Match	0m	Onsite
SKIN & HIDE MERCHANTS	Young, W. and Co. (Sydney) Pty. Ltd., Wattle St., Ultimo	102969	Road Match	0m	East
WOOL STORES	WInchcombe Carson Ltd., Wattle St., Ultimo	114550	Building Match	86m	North
PRODUCE MERCHANTS-WHOLESALE	Winchcombe, Carson Ltd., 48 Bridge St.; Store, Jones St., Pyrmont	95910	Building Match	87m	North
WOOL STORES	Winchcombe, Carson Ltd., Jones St., Ultimo	114549	Building Match	87m	North
SKIN &HIDE BROKERS	Winchcombe, Carson Ltd., Store, Jones St., Pyrmont	103007	Building Match	87m	North
CLUBS & SPORTS BODIES	JW Brigade (The), Fig St., Ultimo	25349	Road Match	90m	North East
GAS COMPANIES	Australian Gas Light Co. (Coke Depot), Wattle St., Pyrmont	54068	Road Match	98m	North
WOOL STORES	Commonwealth Wool and Produce Co. Ltd., Wat le St., Pyrmont	114532	Building Match	108m	South East
WOOL STORES	Australian Wool Brokers and Produce Co. Ltd., Jones St., Ultimo	114528	Road Match	109m	East
BAKERS-BREAD	Clint, H. J., 933 St. Johns Rd., Glebe	5214	Road Match	124m	South West
BAKERS-BREAD	King's Bakery, St. Johns Rd., Glebe	5337	Road Match	124m	South West
FRUITERERS & GREENGROCERS	Scadd, P., Bay St., Glebe	51146	Road Match	137m	South
CARRIERS & CARTAGE CONTRACTORS	Wong, S. and Sons, Bay St., Ultimo	20081	Road Match	137m	South

1950 Business Directory Drycleaners & Service Stations

Drycleaners, Motor Garages & Service Stations from the 1950 UBD Business Directory within 1km of the site:

Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
DRY CLEANERS, PRESSERS & DYERS	Tasman Dry Cleaners. 469 Harris St., Ultimo	35776	Building Match	287m	East
DRY CLEANERS, PRESSERS & DYERS	Lyke-Nu Dry Cleaning Co. Ltd. 477 Harris St., Ultimo	35469	Building Match	308m	East
DRY CLEANERS, PRESSERS & DYERS	Lyke-Nu Dry Cleaning Co. Ltd. 477 Harris St., Ultimo	35463	Building Match	308m	East
MOTOR SERVICE STATIONS-PETROL, Etc.	Larry's Auto Service, 1 Mountain St., Broadway	86132	Building Match	323m	Sou h
MOTOR GARAGES &/OR ENGINEERS	Larry's Auto Service, 1 Mountain St., Broadway	83987	Building Match	323m	Sou h
MOTOR GARAGES &/OR ENGINEERS	Thornycroft (Aust) Pty. Ltd., 6-10 Wattle St., Pyrmont	84469	Building Match	339m	North
MOTOR GARAGES &/OR ENGINEERS	Lowtey and Rose, 63 Darghan St., Glebe	84018	Building Match	357m	West
MOTOR GARAGES &/OR ENGINEERS	Wright, S. Pty. Ltd., 571 Harris St., Glebe	84585	Building Match	411m	East
MOTOR GARAGES &/OR ENGINEERS	Speedy Motor Repairs, Miller St., Glebe	84397	Road Match	416m	Sou h West
MOTOR SERVICE STATIONS-PETROL, Etc.	Wentworth Park Service Station, 2 Bridge Rd., Glebe	86515	Building Match	428m	West
MOTOR GARAGES &/OR ENGINEERS	Gillies, D. H., 33 Mountain St., Broadway	83801	Building Match	461m	Sou h
MOTOR SERVICE STATIONS-PETROL, Etc.	Gillies, D., 33 Mountain St., Broadway	85992	Building Match	461m	Sou h
MOTOR GARAGES &/OR ENGINEERS	Motor Repairing and Welding Pty. Ltd., 2 Small St., Broadway	84112	Building Match	481m	Sou h
DRY CLEANERS, PRESSERS & DYERS	Conrad Oliver L. (Agent), 45 Glebe Point Rd., Glebe	35162	Building Match	581m	Sou h
DRY CLEANERS, PRESSERS & DYERS	Detail Dry Cleaners, 175 Glebe Rd., Glebe	35189	Building Match	586m	Sou h West
DRY CLEANERS, PRESSERS & DYERS	Grace Bros. Pty. Ltd., Broadway	35269	Building Match	592m	Sou h
DRY CLEANERS, PRESSERS & DYERS	Peacock, K. (Agent), 191 Glebe Point Rd., Glebe	35586	Building Match	605m	Sou h West
DRY CLEANERS, PRESSERS & DYERS	Immaculate Dry Cleaners, 223a Glebe Rd., Glebe	35297	Building Match	624m	West
DRY CLEANERS, PRESSERS & DYERS	Radio Repair Service (Agents), 142-149 Glebe Rd., Glebe	35618	Building Match	682m	West
MOTOR SERVICE STATIONS-PETROL, Etc.	Market Filling Station, 6 Ul imo Rd.	86175	Building Match	691m	Sou h East
MOTOR SERVICE STATIONS-PETROL, Etc.	Pyrmont Bridge Service Station, Cnr. Pyrmont St. and Pyrmon Bridge Rd., Pyrmont	86309	Road Intersection	692m	North
MOTOR GARAGES &/OR ENGINEERS	Pyrmont Bridge Service Station, Cnr. Pyrmont St. and Pyrmont Bridge Rd., Pyrmont	84243	Road Intersection	692m	North
DRY CLEANERS, PRESSERS & DYERS	East Sydney Laundry, 166 Glebe Point Rd., Glebe	35205	Building Match	732m	West
MOTOR GARAGES &/OR ENGINEERS	Klein, H. A., 10 Shepherd St.	83963	Building Match	745m	Sou h
MOTOR SERVICE STATIONS-PETROL, Etc.	Half Way Filling Station, 47 Miller St., Pyrmont	86029	Building Match	752m	North
MOTOR SERVICE STATIONS-PETROL, Etc.	Half-Way Filling Station, 47 Miller St., Pyrmont	86030	Building Match	752m	North
DRY CLEANERS, PRESSERS & DYERS	Renown Valet Service, 325a Glebe Point Rd., Glebe Point	35642	Building Match	759m	West
MOTOR GARAGES &/OR ENGINEERS	Car Repairs Pty. Ltd., 15 Pyrmont Bridge Rd., Pyrmont	83544	Building Match	767m	North
DRY CLEANING MACHINERY & SUPPLIES MFRS. &/OR DISTRIBUTORS	Lewis, W. G., 109 Broadway	35853	Building Match	781m	Sou h East
MOTOR GARAGES &/OR ENGINEERS	Speedo Electrical Co., 735 Harris St., Broadway	84396	Building Match	790m	Sou h East
DRY CLEANERS, PRESSERS & DYERS	Jones, Dry Cleaners Pty. Ltd. 103 Broadway	35355	Building Match	792m	Sou h East
MOTOR SERVICE STATIONS-PETROL, Etc.	Bramston's Garage, Quay St.	85813	Road Match	795m	East
MOTOR GARAGES &/OR ENGINEERS	Bramstons Garage, Quay St,	83489	Road Match	795m	East
DRY CLEANERS, PRESSERS & DYERS	Immaculate Dry Cleaners, 81 Broadway	35302	Building Match	802m	Sou h East

Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
MOTOR GARAGES &/OR ENGINEERS	Brown and Sharp, 1 Dixon St.	83506	Building Match	820m	East
MOTOR SERVICE STATIONS-PETROL, Etc.	Christeys Motor Auctions, 90 Broadway	85870	Building Match	823m	Sou h East
MOTOR GARAGES &/OR ENGINEERS	Schofield Bros., 37a Arundel St., Forest Lodge	84344	Building Match	827m	Sou h West
MOTOR SERVICE STATIONS-PETROL, Etc.	Scliofield Bros., 37a Arundel St., Forest Lodge	86375	Building Match	827m	Sou h West
MOTOR GARAGES &/OR ENGINEERS	Darling Harbour Garage, Cnr. Dixon & Harbour Sts.	83663	Road Match	827m	North East
MOTOR SERVICE STATIONS-PETROL, Etc.	Darling Harbour Garage, Cnr. Dixon and Harbour Sts.	85914	Road Match	827m	North East
MOTOR GARAGES &/OR ENGINEERS	Darling Harbour Garage, Cnr. Dixon and Harbour Sts.	83664	Road Match	827m	North East
MOTOR SERVICE STATIONS-PETROL, Etc.	British-Australasia Petroleum Co. Pty. Ltd., Ultimo Rd.	85822	Road Match	832m	East
MOTOR GARAGES &/OR ENGINEERS	Auto Centre Company Pty. Ltd., 9-11 Bathurst St.	83396	Building Match	835m	North East
MOTOR SERVICE STATIONS-PETROL, Etc.	Arnott's Motor Repair Garage, 44 City Rd.	85751	Building Match	858m	Sou h
MOTOR GARAGES &/OR ENGINEERS	Arnotts Motor Repair Garage, 44 City Rd,	83382	Building Match	858m	Sou h
MOTOR SERVICE STATIONS-PETROL, Etc.	Day and Liverpool Streets Motor Co. (L. G. Browne), Cnr. Day and Liverpool Sts.	85919	Road Intersection	865m	East
MOTOR GARAGES &/OR ENGINEERS	Day and Liverpool Streets Motor Co. (L. G. Browne, Propr.), Cnr. Day and Liverpool Sts.	83674	Road Intersection	865m	East
MOTOR GARAGES &/OR ENGINEERS	Merchants Pty. Ltd., 134 Day St.	84081	Building Match	885m	North East
DRY CLEANING MACHINERY & SUPPLIES MFRS. &/OR DISTRIBUTORS	Dates Engineering Pty. Ltd., 29 Bathurst St.	35846	Building Match	889m	North East
MOTOR GARAGES &/OR ENGINEERS	N.S.W. Government Railways Motor Garage, 1 Bathurst St.	84121	Building Match	889m	North East
MOTOR SERVICE STATIONS-PETROL, Etc.	N.S.W. Government Railways Motor Garage, 1 Bathurst St.	86230	Building Match	889m	North East
DRY CLEANING MACHINERY & SUPPLIES MFRS. &/OR DISTRIBUTORS	Ralos Engineering Pty. Ltd., 29 Bathurst St.	35856	Building Match	889m	North East
MOTOR GARAGES &/OR ENGINEERS	Marchants Garage, 176 Bridge Rd., Glebe	84042	Building Match	917m	Sou h West
MOTOR SERVICE STATIONS-PETROL, Etc.	Marchants Garage, 176 Bridge Rd., Glebe	86173	Building Match	917m	Sou h West
MOTOR SERVICE STATIONS-PETROL, Etc.	Brightway Service Station, 427 Sussex St.	85821	Building Match	929m	East
MOTOR GARAGES &/OR ENGINEERS	Brightway Service Station, 427 Sussex St.	83499	Building Match	929m	East
MOTOR GARAGES &/OR ENGINEERS	Millimeter Motor Works, 291 Sussex St.	84091	Building Match	938m	East
MOTOR GARAGES &/OR ENGINEERS	Friend, W. S., 31 Pine St., Chippendale	83773	Building Match	941m	Sou h
DRY CLEANERS, PRESSERS & DYERS	Roylyn Dry Cleaners, 20 Quay St.	35677	Building Match	956m	Sou h East
DRY CLEANERS, PRESSERS & DYERS	Quigley, G. A., 4 John St., Glebe	35617	Building Match	958m	West
DRY CLEANERS, PRESSERS & DYERS	Rogers Bros. Pty. Ltd. 812 George St	35662	Building Match	972m	East

Aerial Imagery 2007

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

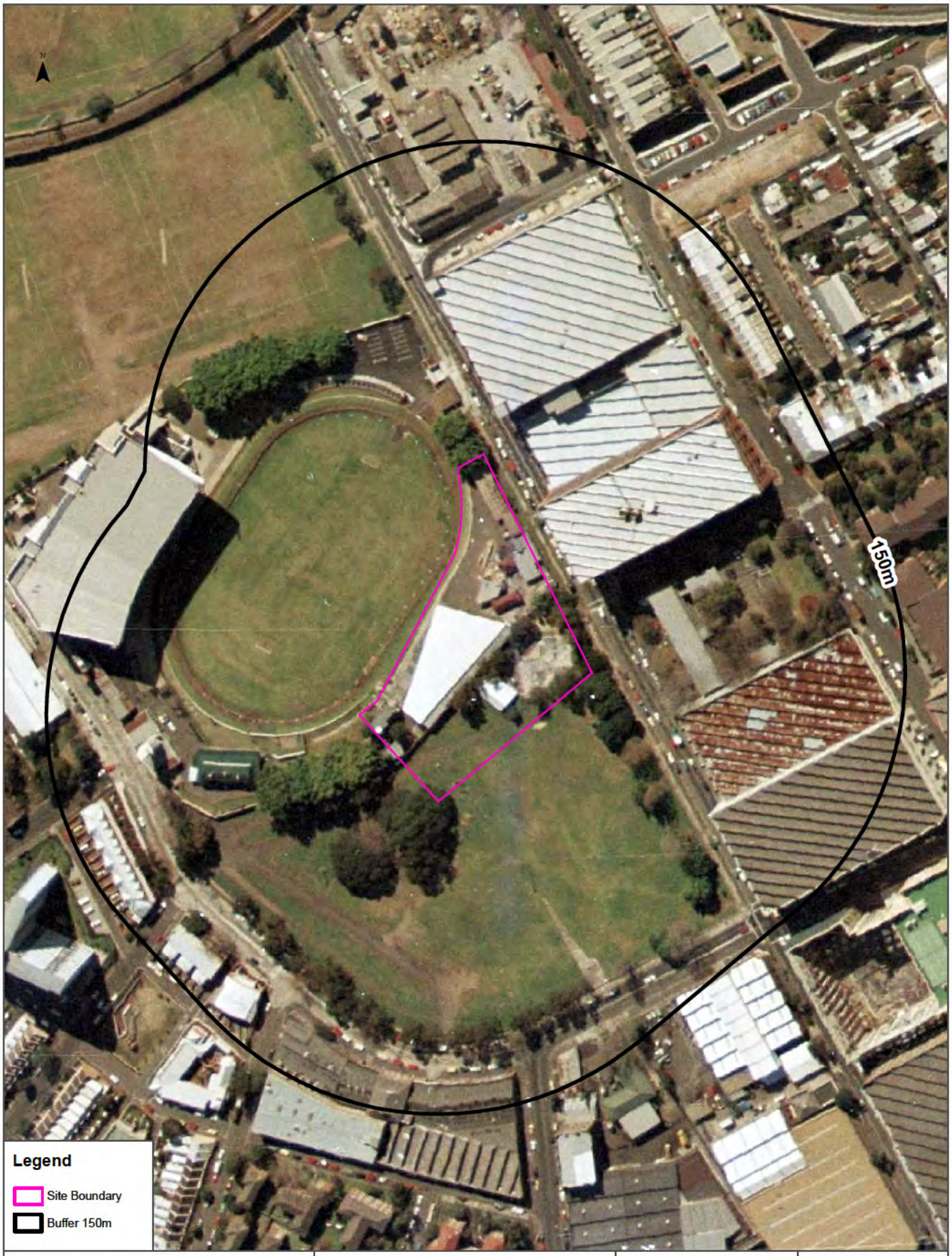
Scale: 0 25 50 100 Meters	Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 12April 2016

Aerial Imagery 2000

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Aerial Imagery 1991

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



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Aerial Imagery 1982

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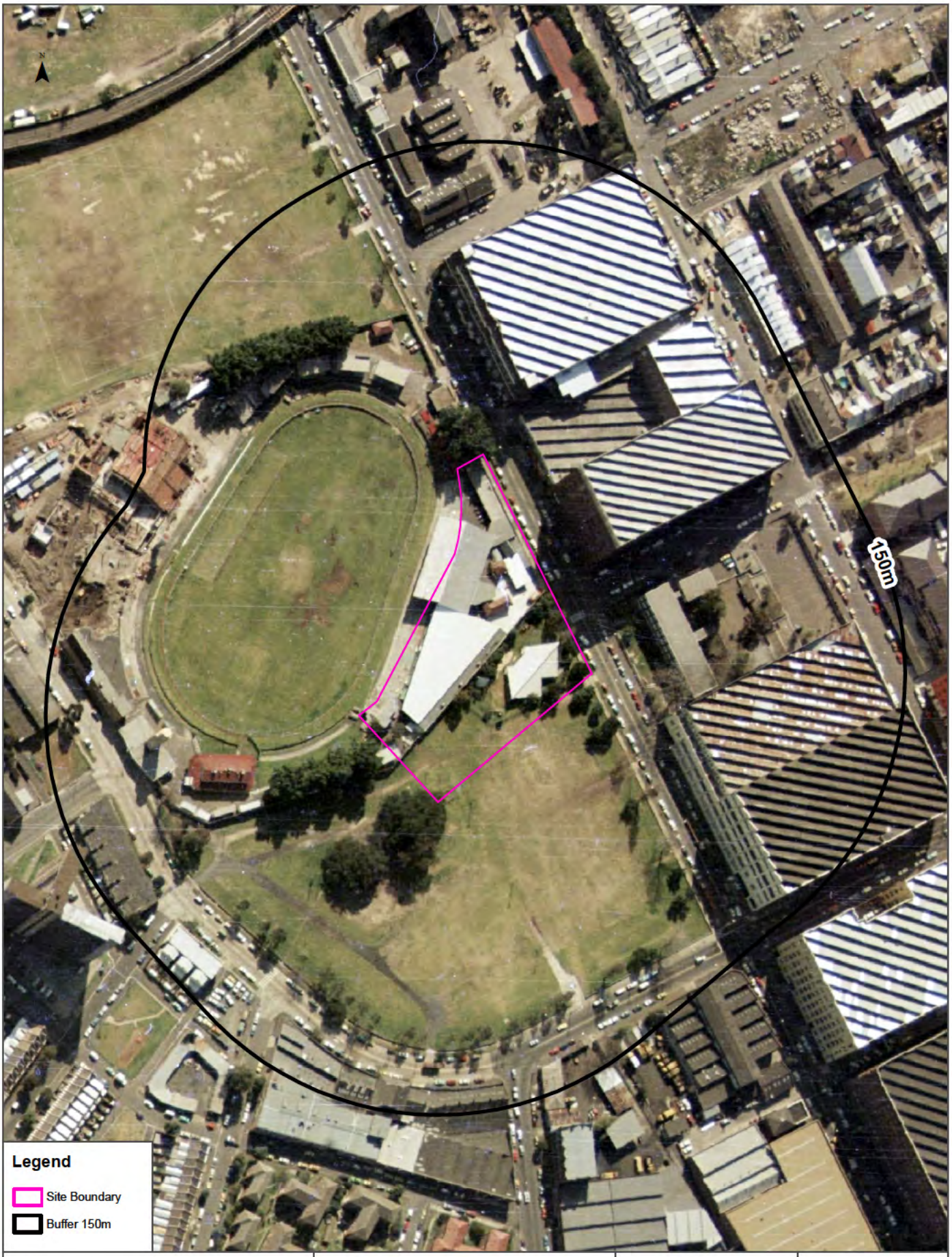

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Aerial Imagery 1970

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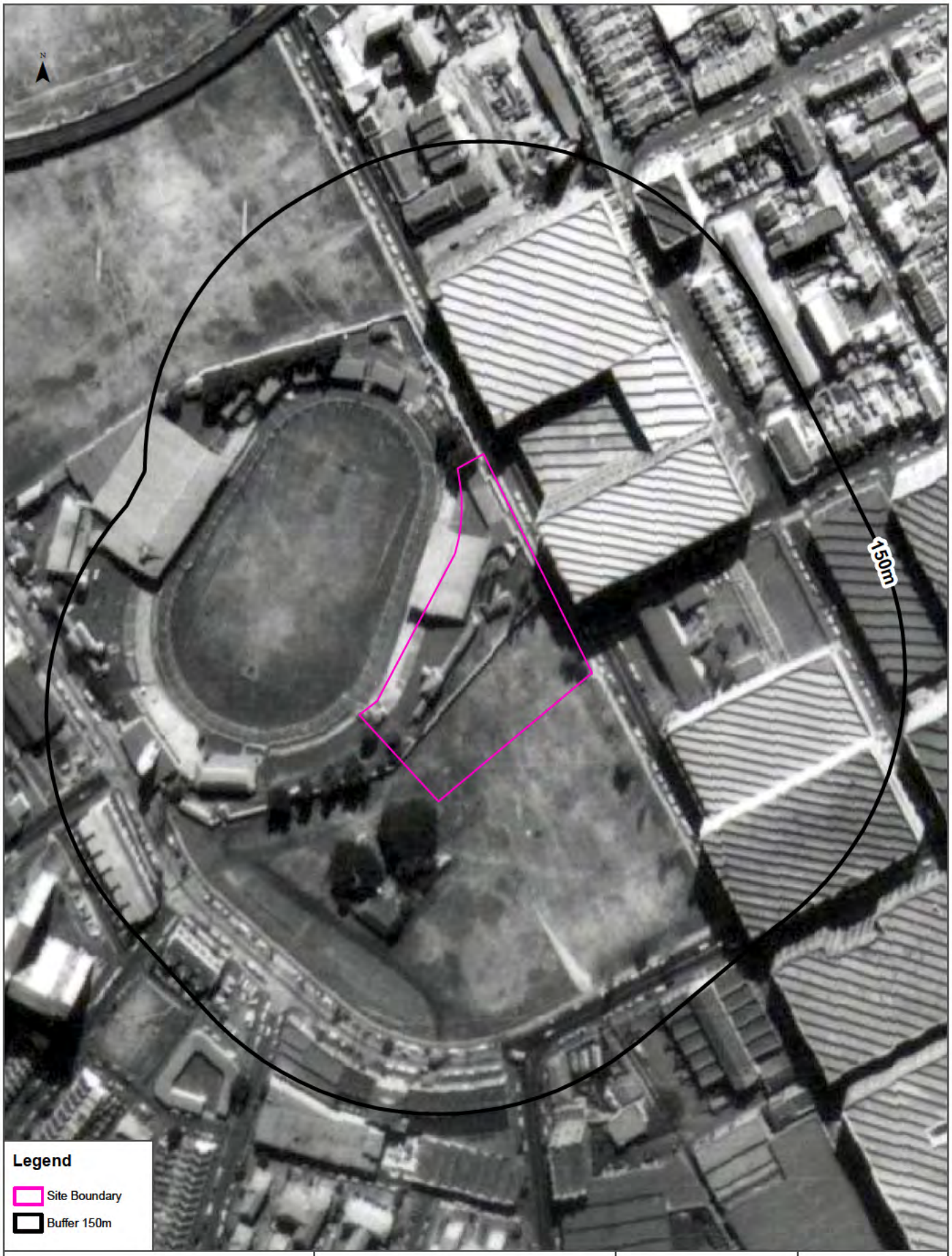

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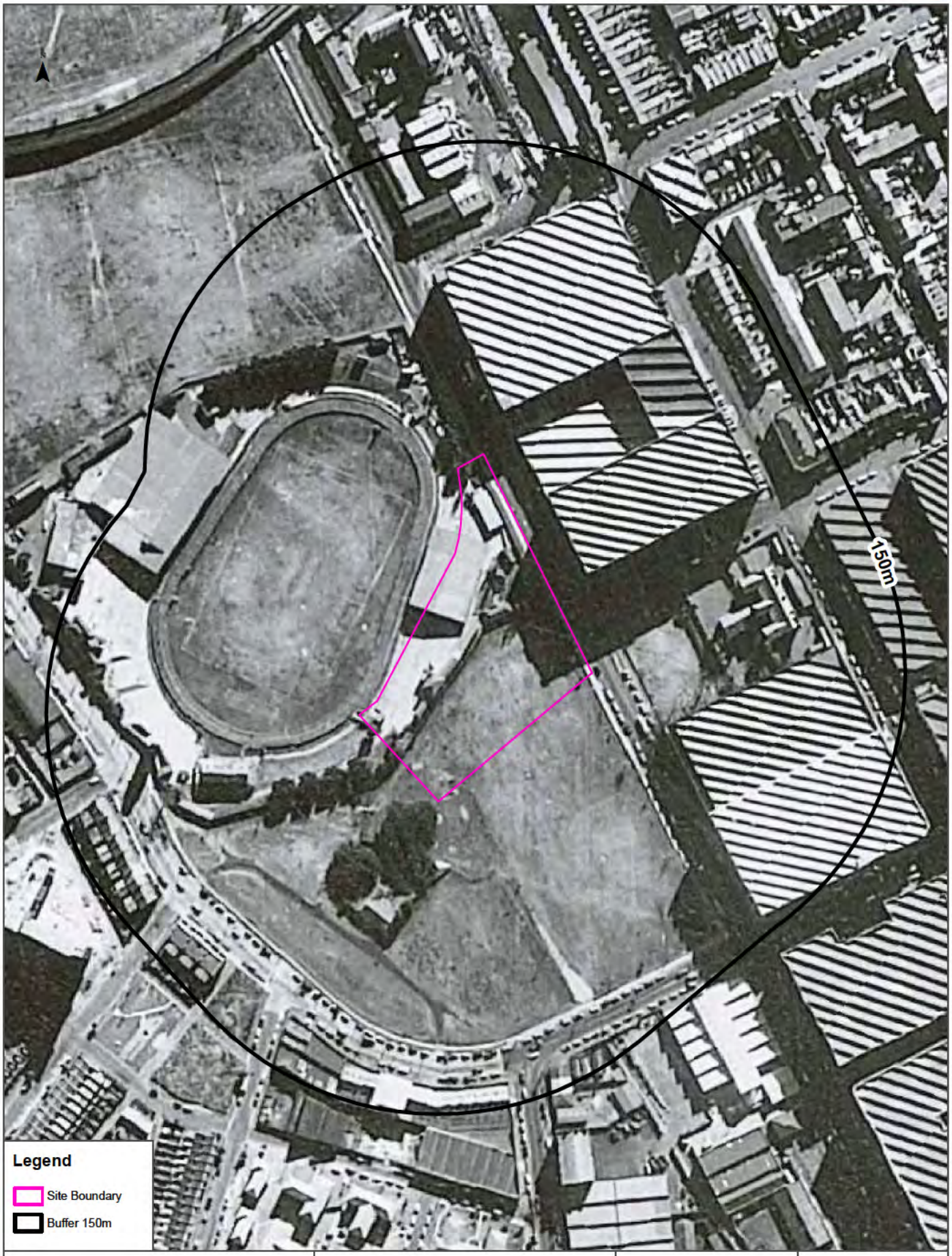
Aerial Imagery 1961

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



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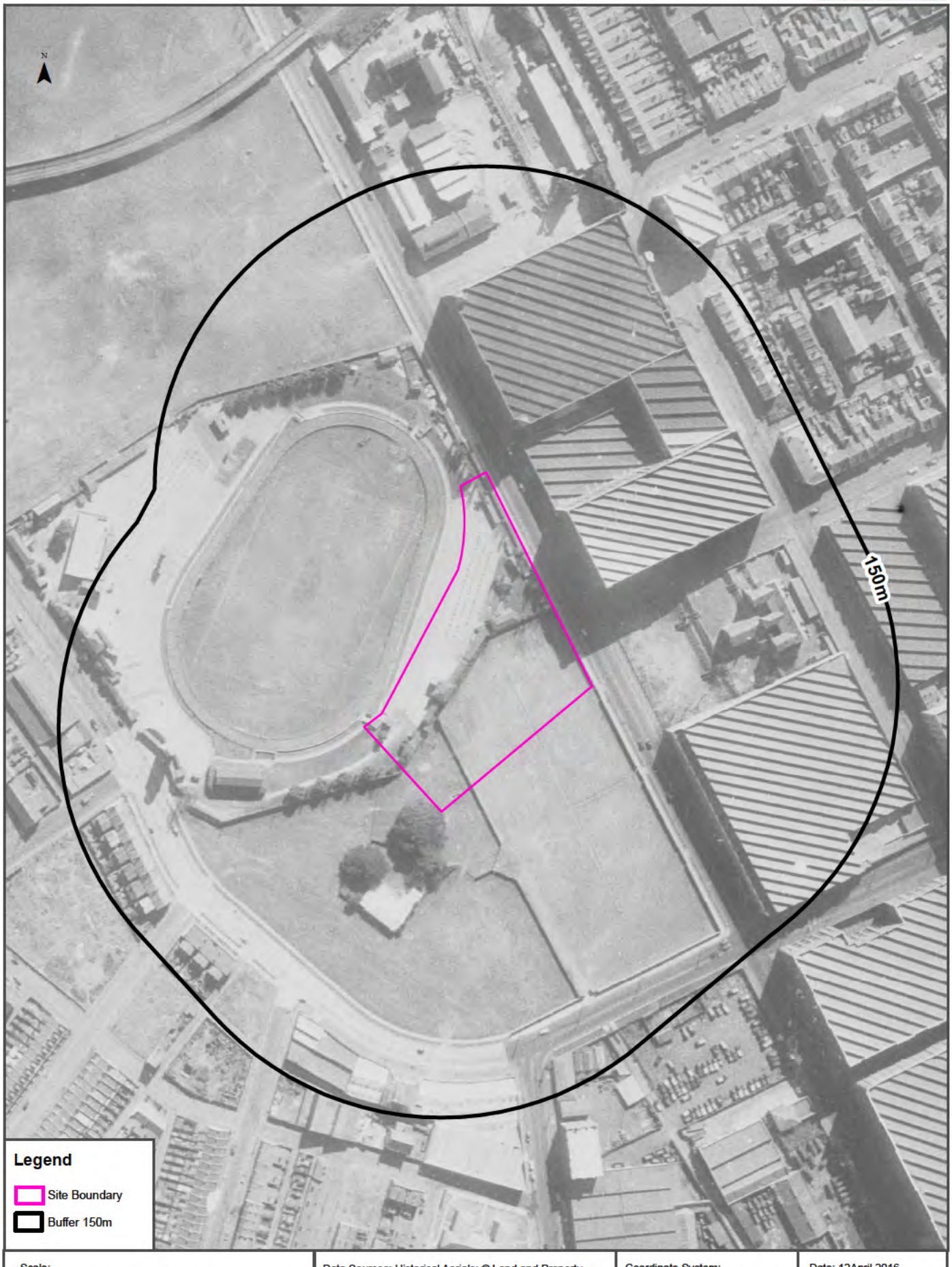
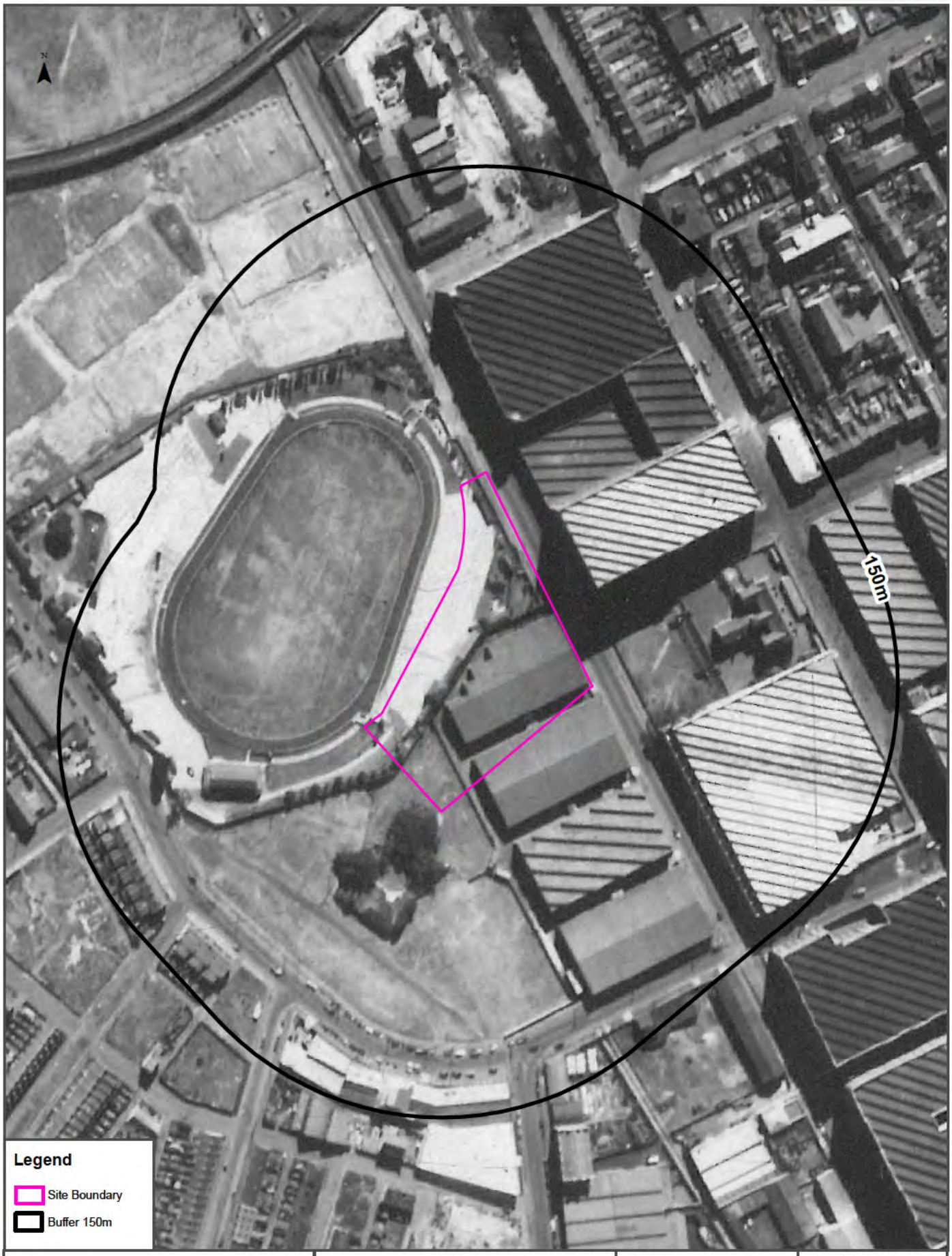
Aerial Imagery 1955

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Aerial Imagery 1951

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 12April 2016

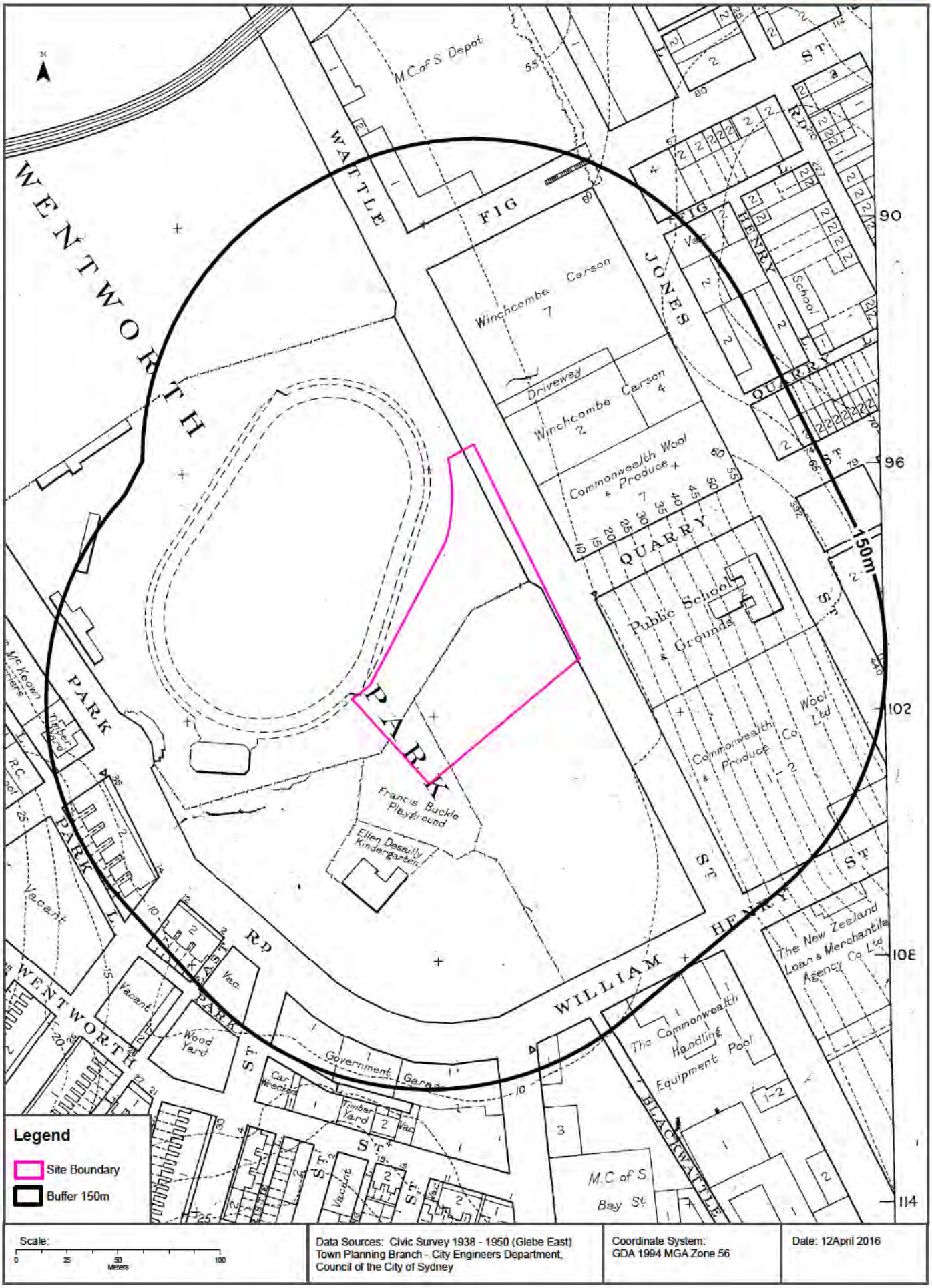
Aerial Imagery 1943

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Scale: 0 25 50 100 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 12April 2016

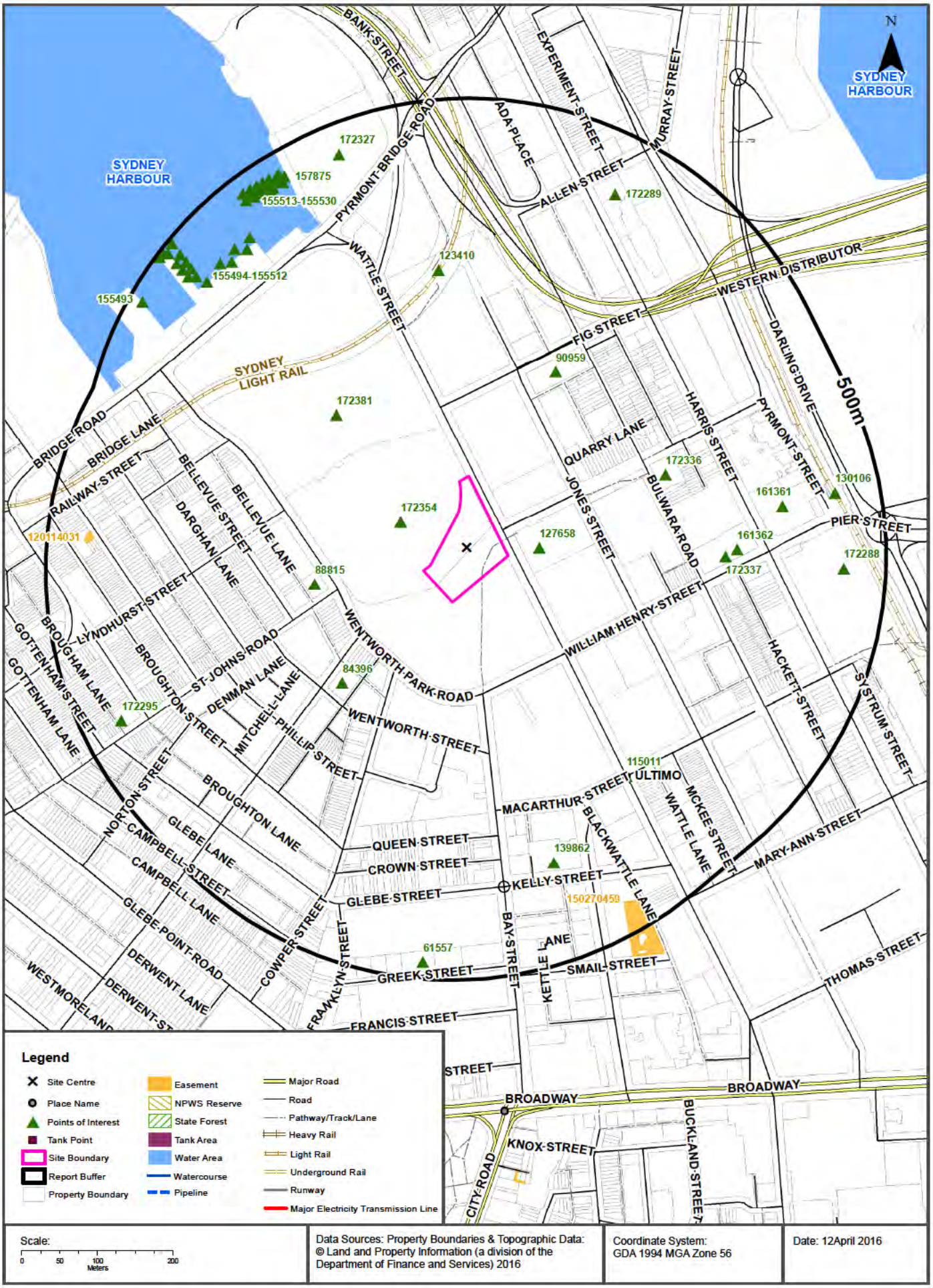
Historical Map 1950

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Topographic Features

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Data Sources: Property Boundaries & Topographic Data: © Land and Property Information (a division of the Department of Finance and Services) 2016

Coordinate System: GDA 1994 MGA Zone 56

Date: 12April 2016

Topographic Features

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Points of Interest

What Points of Interest exist within 500m?

Map Id	Feature Type	Label	Distance	Direction
127658	Primary School	ULTIMO PUBLIC SCHOOL	43m	East
172354	Dog Track	WENTWORTH PARK GREYHOUND TRACK	61m	West
88815	Park	MILLARD RESERVE	145m	West
84396	Park	DOUGHERTY RESERVE	179m	South West
90959	Park	FIG LANE PARK	180m	Nor h East
172381	Park	WENTWORTH PARK	185m	Nor h West
172336	Place Of Worship	UNITING CHURCH	235m	East
123410	Railway Station	WENTWORTH PARK SLR STOP	276m	Nor h
172337	Library	ULTIMO LIBRARY	288m	East
161362	Community Facility	ULTIMO COMMUNITY CENTRE	303m	East
115011	Suburb	ULTIMO	324m	South East
161361	Swimming Pool	IAN THORPE AQUATIC CENTRE	369m	East
139862	Combined Primary-High School	INTERNATIONAL GRAMMAR SCHOOL	370m	South
155510	Wharf	Wharf	416m	Nor h West
155512	Wharf	Wharf	418m	Nor h West
172289	Museum	HARRIS STREET MOTOR MUSEUM	421m	Nor h East
155508	Wharf	Wharf	425m	Nor h West
155509	Wharf	Wharf	426m	Nor h West
155511	Wharf	Wharf	427m	Nor h West
155507	Wharf	Wharf	428m	Nor h West
130106	Railway Station	EXHIBITION CENTRE SLR STOP	440m	East
155505	Wharf	Wharf	441m	Nor h West
172288	Museum	POWERHOUSE MUSEUM	444m	East
172295	Place Of Worship	UNITING CHURCH	446m	South West
155506	Wharf	Wharf	449m	Nor h West
155503	Wharf	Wharf	453m	Nor h West
172327	Shopping Centre	SYDNEY FISH MARKET	459m	Nor h
155523	Wharf	Wharf	459m	Nor h West
155527	Wharf	Wharf	460m	Nor h West
155530	Wharf	Wharf	460m	Nor h West
155504	Wharf	Wharf	461m	Nor h West
155520	Wharf	Wharf	463m	Nor h West
155501	Wharf	Wharf	464m	Nor h West

Map Id	Feature Type	Label	Distance	Direction
155517	Wharf	Wharf	465m	Nor h West
157875	Wharf	Wharf	465m	Nor h West
155529	Wharf	Wharf	466m	Nor h West
155524	Wharf	Wharf	467m	Nor h West
155526	Wharf	Wharf	467m	Nor h West
155514	Wharf	Wharf	467m	Nor h West
155522	Wharf	Wharf	468m	Nor h West
155519	Wharf	Wharf	469m	Nor h West
155516	Wharf	Wharf	471m	Nor h West
155502	Wharf	Wharf	472m	Nor h West
155528	Wharf	Wharf	472m	Nor h West
155525	Wharf	Wharf	473m	Nor h West
155521	Wharf	Wharf	473m	Nor h West
155518	Wharf	Wharf	474m	Nor h West
155515	Wharf	Wharf	475m	Nor h West
155513	Wharf	Wharf	476m	Nor h West
155499	Wharf	Wharf	476m	Nor h West
61557	Place Of Worship	CHURCH OF SCIENTOLOGY	477m	South
155493	Wharf	Wharf	481m	Nor h West
155500	Wharf	Wharf	489m	Nor h West
155495	Wharf	Wharf	493m	Nor h West
155494	Wharf	Wharf	495m	Nor h West
155498	Wharf	Wharf	496m	Nor h West

Tanks (Areas)

What are the Tank Areas located within 500m?

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

Tanks (Points)

What are the Tank Points located within 500m?

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

Topographic Features

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Easements

What Easements exist within 500m?

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120114031	Primary	Undefined		438m	West
150270459	Primary	Right of way	Variable	457m	South East

State Forest

What State Forest exist within 500m?

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

National Parks and Wildlife Service Reserves

What NPWS Reserves exist within 500m?

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

Elevation Contours (m AHD)

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Legend

- Site Centre
- Elevation Contour (m AHD)
- Site Boundary
- Report Buffer
- Property Boundary

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

Scale: 0 100 200 400 Meters

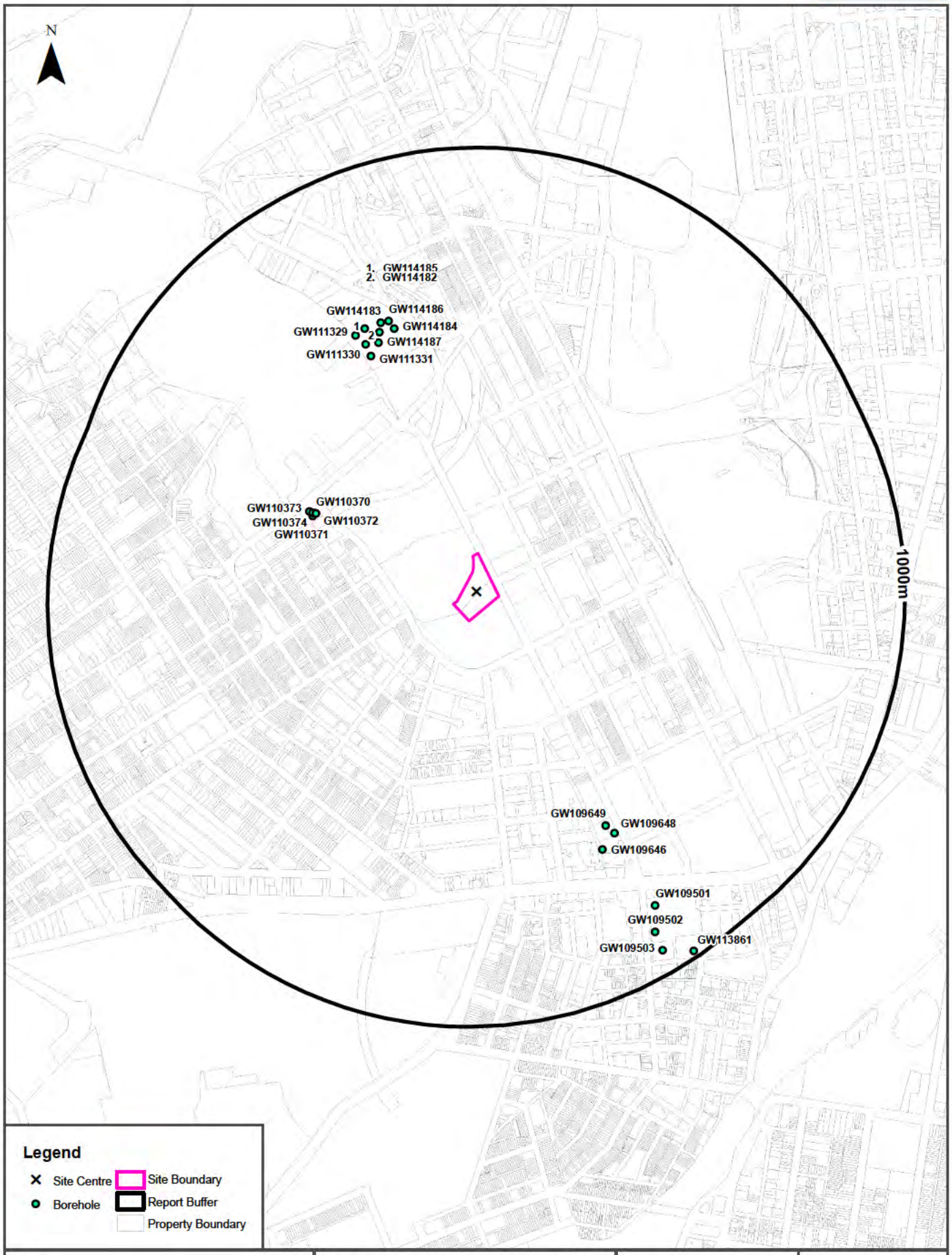
Data Sources: Property Boundaries & Topographic Data: © Land and Property Information (a division of the Department of Finance and Services) 2016

Coordinate System: GDA 1994 MGA Zone 56

Date: 12April 2016

Groundwater Boreholes

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Hydrogeology & Groundwater

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive highly productive aquifers

Description of aquifers within the report buffer:

Description
Porous, extensive highly productive aquifers

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

Groundwater Boreholes

Boreholes within the report buffer:

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW110372	10BL160269	Well	Private	Monitoring		24/04/2001	4.00	4 00		0.6			400m	North West
GW110374	10BL160269	Well	Private	Monitoring		24/04/2001	4.00	4 00					403m	North West
GW110371	10BL160269	Well	Private	Monitoring		24/04/2001	4.00	4 00		0.7			406m	North West
GW110370	10BL160269	Well	Private	Monitoring		24/04/2001	4.00	4 00		0.6			408m	North West
GW110373	10BL160269	Well	Private	Monitoring		24/04/2001	4.00	4 00		0.6			416m	North West
GW111331	10BL604323	Bore	Other Govt	Monitoring	SOILCHECK	20/07/2010	6.00	6 00					552m	North West
GW114187	10BL604080	Bore	Other Govt	Monitoring		04/07/2013	6.00	6 00					573m	North
GW111330	10BL604323	Bore	Other Govt	Monitoring	SOILCHECK	20/07/2010	4.00	4 00					583m	North West
GW114184	10BL604080	Bore	Other Govt	Monitoring	SOILCHECK PTY LTD	04/07/2013	6.00	6 00					590m	North
GW114182	10BL604080	Bore	Other Govt	Monitoring	SOIL CHECK	04/07/2013	11.55	11 55					595m	North
GW109649	10BL602485	Bore	Private	Monitoring	Environment Investigation Services	03/05/2008	7.20	7 20	869	3.0	1.000		607m	South East
GW114186	10BL604080	Bore	Other Govt	Monitoring	SOIL CHECK	04/07/2013	3.00	3 00					612m	North
GW114183	10BL604080	Bore	Other Govt	Monitoring	SOIL CHECK	04/07/2013	9.35	9 35					615m	North
GW111329	10BL604323	Bore	Other Govt	Monitoring	Soilwicks	20/07/2010	6.00	6 00					615m	North West
GW114185	10BL604080	Bore	Other Govt	Monitoring	SOIL CHECK	04/07/2013	3.00	3 00					619m	North West
GW109648	10BL602485	Bore	Private	Monitoring	Environment Investigation Services	03/05/2008	6.20	6 20	1302	5.2	0.500		635m	South East
GW109646	10BL602486	Bore	Private	Monitoring	Environment Investigation Services	03/05/2008	8.20	8 20	1258	5.9	1.000		653m	South East
GW109501	10BL601554	Well	Private	Monitoring	Terratest Pty Ltd	01/03/2007	6.00			2.3			838m	South East

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW109502	10BL601554	Well	Private	Monitoring	Terratest Pty Ltd	01/03/2007	6.40			2.2			894m	South East
GW109503	10BL601554	Well	Private	Monitoring	Terratest Pty Ltd	01/03/2007	5.20			2.2			942m	South East
GW113861	10BL165951	Bore	Private	Monitoring	TERRATEST	30/07/2003	6.50	6 50					985m	South East

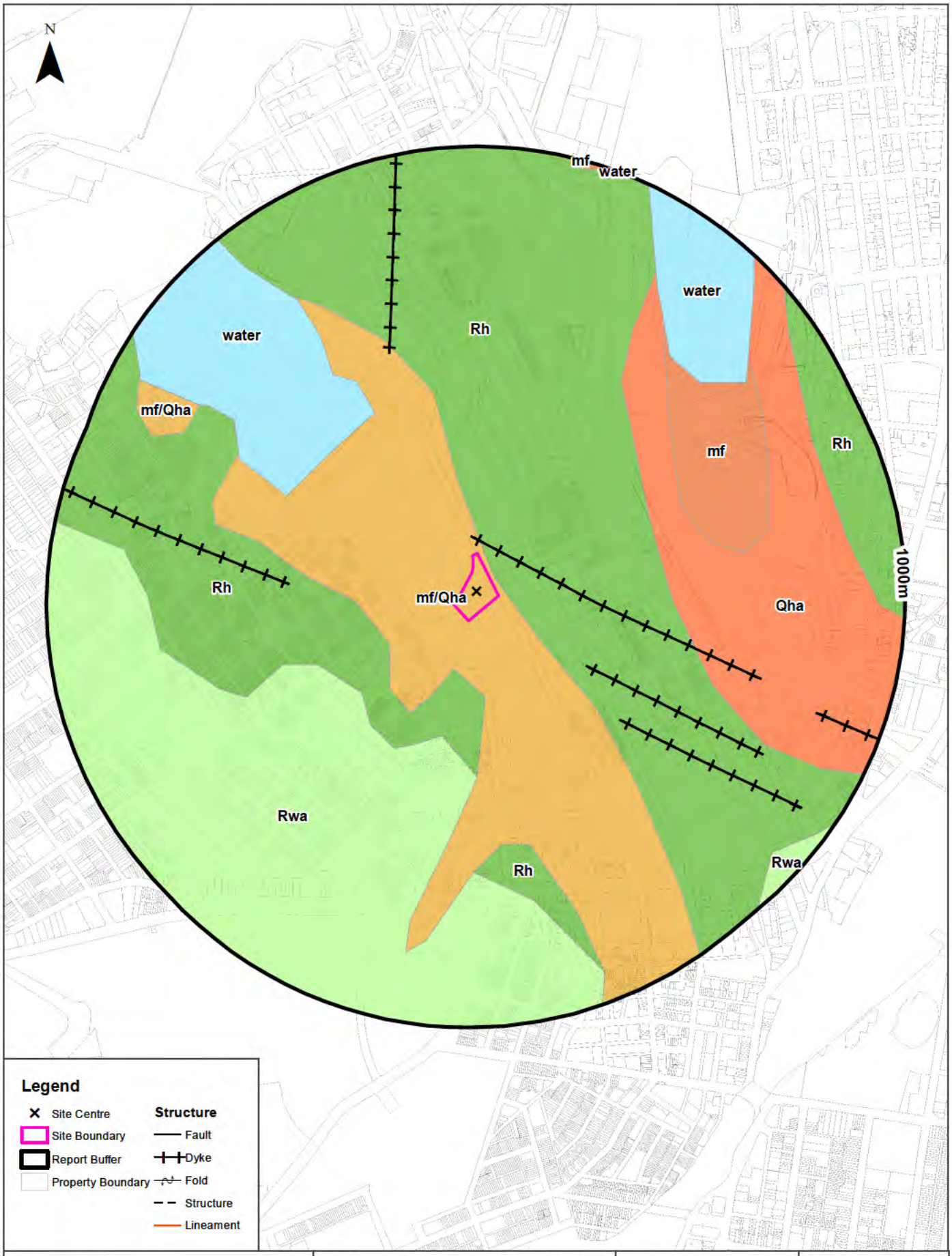
Driller's Logs

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

Groundwater No	Drillers Log	Distance	Direction
GW110372	0.00m-2.20m FILL,SILTY CLAY 2.20m-2.70m SANDY CLAY 2.70m-3.30m SILT,SOFT BLACK 3.30m-4.00m SILTY SAND	400m	North West
GW110374	0.00m-0.80m SILTY SAND WITH MINOR CLAY 0.80m-2.80m CLAYEY SAND,WITH MINOR GRAVEL 2.80m-4.00m SANDY CLAY WITH MINOR SHELLS	403m	North West
GW110371	0.00m-2.50m FILL,SANDY CLAY 2.50m-3.10m SILT,SATURATED BLACK 3.10m-4.00m SILTY SAND	406m	North West
GW110370	0.00m-2.10m FILL,SANDY CLAY 2.10m-3.30m SILT,BLACK 3.30m-3.50m SAND CLAYEY 3.50m-4.00m CLAY SANDY	408m	North West
GW110373	0.00m-1.60m FILL,SANDY CLAY 1.60m-3.40m SILT,SATURATED BLACK 3.40m-3.70m SILTY SAND 3.70m-4.00m SANDY CLAY	416m	North West
GW111331	0.00m-0.29m CONCRETE PAVEMENT 0.29m-2.20m FILL.SILTY SAND,SILTY GRAVEL 2.20m-5.30m SILTY SAND,SHELL FRAGMENTS 5.30m-6.00m SILTY CLAY,ORANGE BROWN	552m	North West
GW111330	0.00m-0.19m CONCRETE PAVEMENT ALL OVER 0.19m-2.50m FILL.CLAYEY SAND,GRAVELLY 2.50m-4.00m SANDSTONE,LIGHT GREY	583m	North West
GW109649	0.00m-4.80m FILL,GREY,BROWN,GRAVEL,CLAY,SILT 4.80m-5.90m SILTY SAND,LT GREY,RED,MED COARSE GRAINED 5.90m-7.20m SANDSTONE RED BROWN,WEATHERED WITH CLAY BANDS	607m	Sou h East
GW111329	0.00m-0.15m (UNKNOWN) 0.15m-1.50m FILL,SILTY SAND 1.50m-6.00m SANDSTONE	615m	North West
GW109648	0.00m-2.90m FILL,BROWN/GREY,LOOSE GRAVEL,CONCRETE,SAND 2.90m-4.90m SILTY CLAY,LT GREY,MOTT.BROWN HIGH PLASTICITY 4.90m-5.80m SILTY SAND,LT GREY,MED COURSE GRAINED 5.80m-6.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	635m	Sou h East
GW109646	0.00m-0.80m FILL,LT GREY,SAND,CONCRETE,BRICK,METAL FRAG. 0.80m-2.80m SILTY CLAY,BROWN,GREY,MED PLASTICITY 2.80m-5.00m CLAYEY SAND,GREY/DARK GREY 5.00m-8.00m SILTY SAND,LT GREY/RED 8.00m-8.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	653m	Sou h East

Geology 1:100,000

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Geology

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
mf/Qha	Man-made fill (dredged estuarine sand and mud, demolition rubble, industrial and household waste) overlying silty to peaty quartz sand, silt and clay with ferruginous & humic cementation in places and common shell layers				Quaternary		Sydney	1:100,000

What are the Geological Units within the report buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
mf	Man-made fill. Dredged estuarine sand and mud, demolition rubble, industrial and household waste.				Quaternary		Sydney	1:100,000
mf/Qha	Man-made fill (dredged estuarine sand and mud, demolition rubble, industrial and household waste) overlying silty to peaty quartz sand, silt and clay with ferruginous & humic cementation in places and common shell layers				Quaternary		Sydney	1:100,000
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	1:100,000
Rh	Medium to coarse grained quartz sandstone, very minor shale and laminate lenses				Triassic		Sydney	1:100,000
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	1:100,000
water							Sydney	1:100,000

Geology

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:100,000

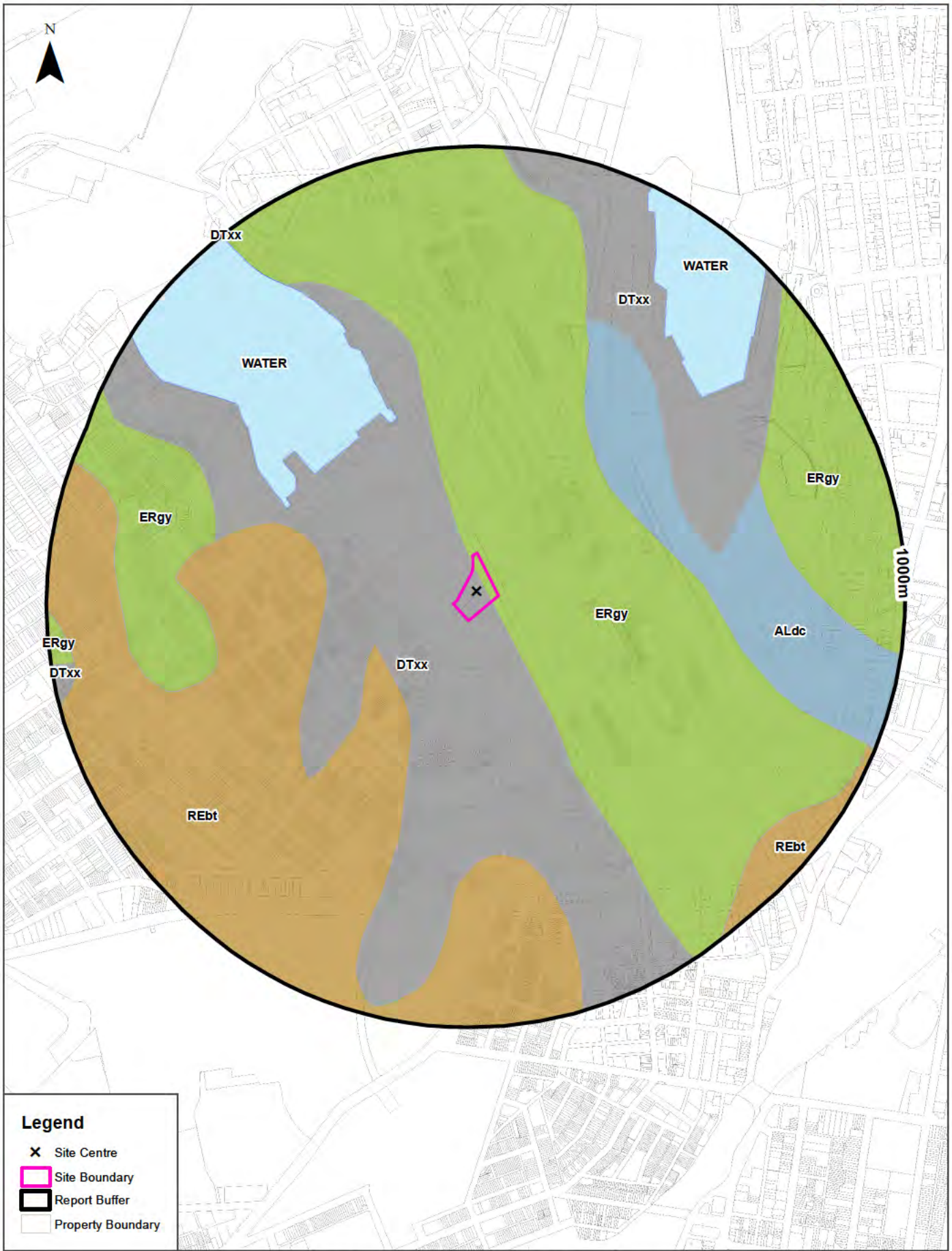
What are the Geological Structures within the report buffer?

Feature	Name	Description	Map Sheet	Dataset
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000

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

Soil Landscapes

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Soils

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Soil Landscapes

What are the onsite Soil Landscapes?

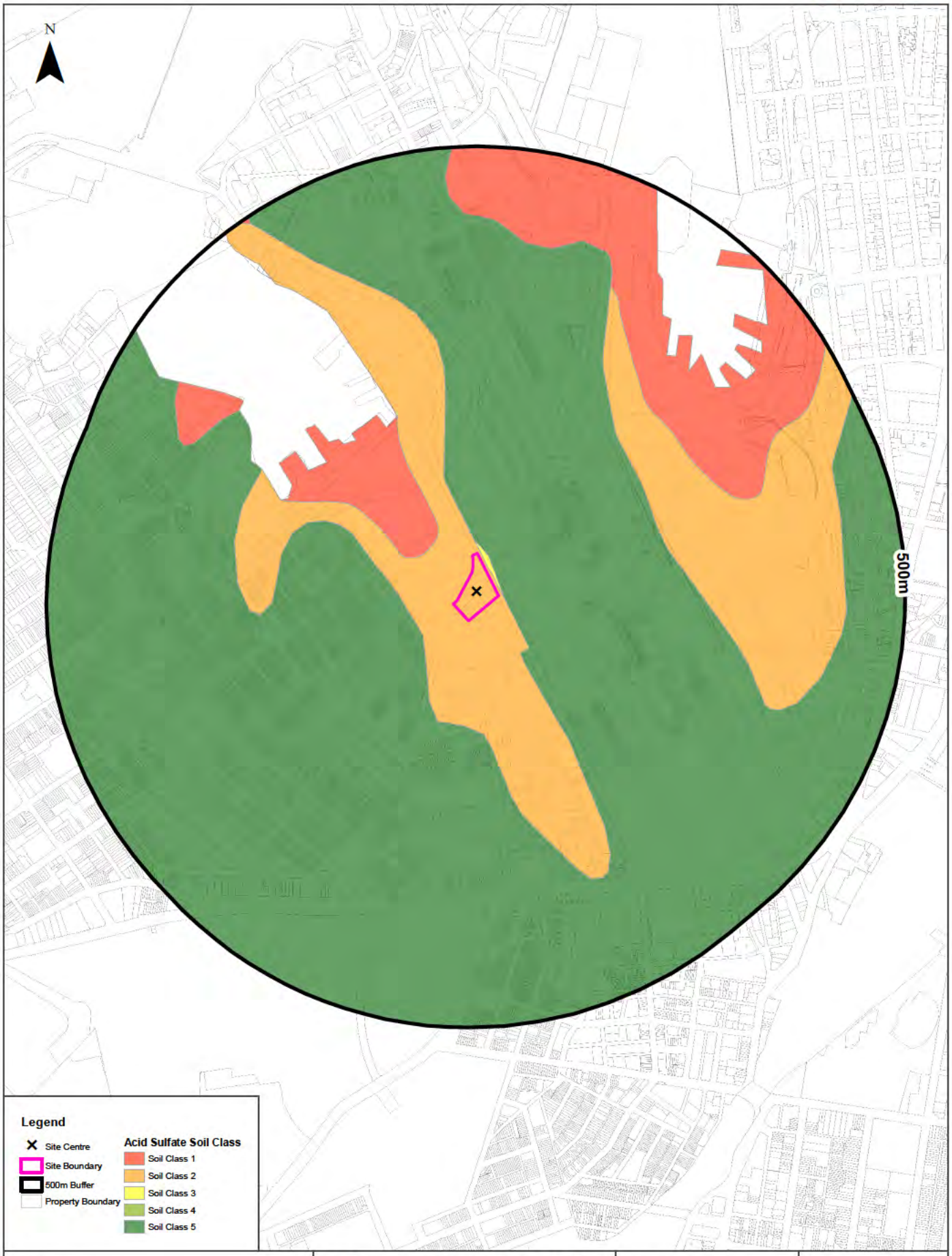
Soil Code	Name	Group	Process	Map Sheet	Scale
DTxx	DISTURBED TERRAIN		DISTURBED TERRAIN	Sydney	1:100,000
ERgy	GYMEA		EROSIONAL	Sydney	1:100,000

What are the Soil Landscapes within the report buffer?

Soil Code	Name	Group	Process	Map Sheet	Scale
ALdc	DEEP CREEK		ALLUVIAL	Sydney	1:100,000
DTxx	DISTURBED TERRAIN		DISTURBED TERRAIN	Sydney	1:100,000
ERgy	GYMEA		EROSIONAL	Sydney	1:100,000
REbt	BLACKTOWN		RESIDUAL	Sydney	1:100,000
WATER	WATER		WATER	Sydney	1:100,000

Acid Sulfate Soils

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Acid Sulfate Soils

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Acid Sulfate Soils

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

Soil Class	Description
2	Works below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered present an environmental risk

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

Soil Class	Description	Distance	Direction
N/A			

Dryland Salinity

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Dryland Salinity

Is there Dryland Salinity data onsite?

No

Is there Dryland Salinity data within the report buffer?

No

What Dryland Salinity assessments are given?

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

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

Mining Subsidence Districts

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

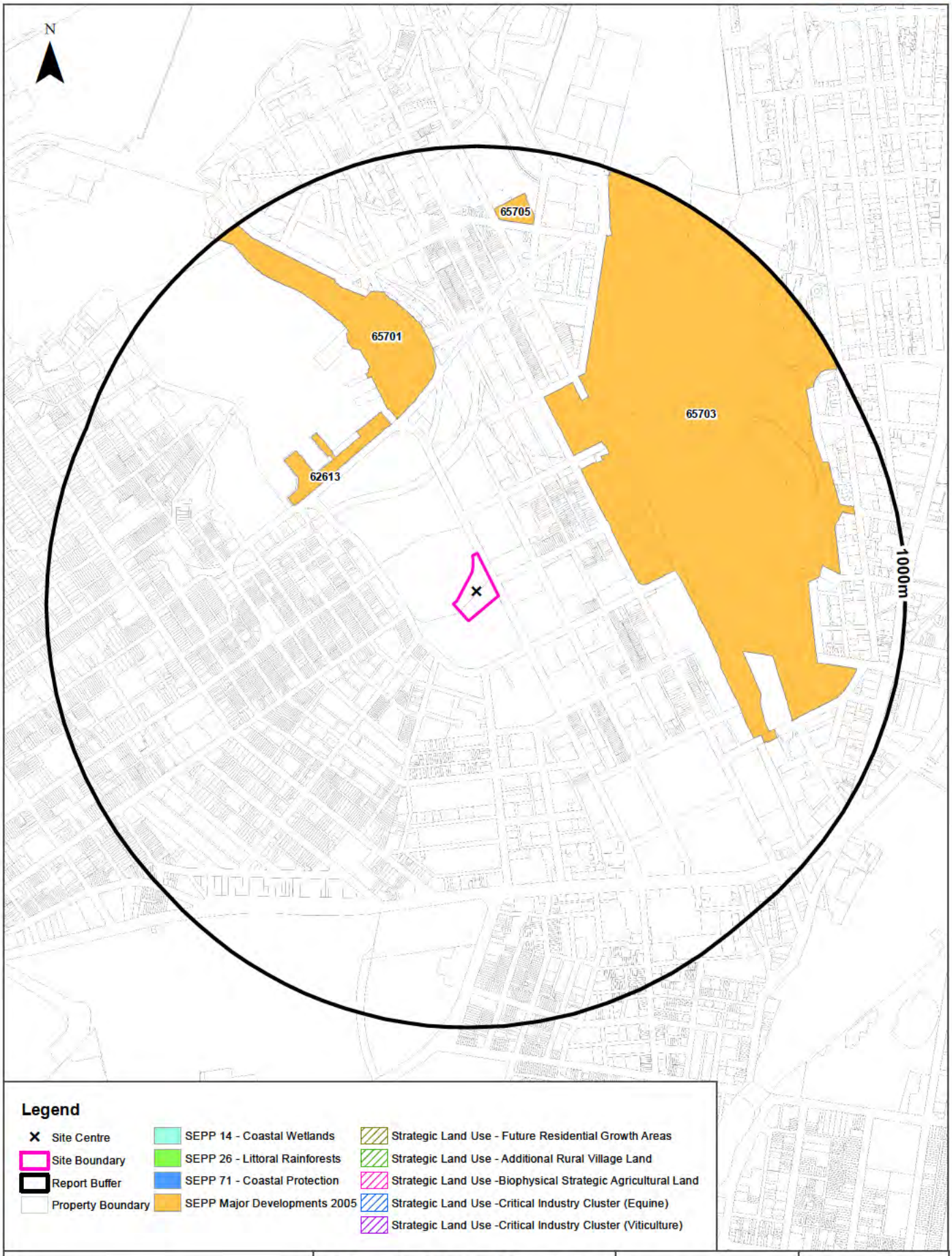
Mining Subsidence Districts

Mining Subsidence Districts within the report buffer?

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

State Environmental Planning Policy

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Environmental Zoning

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the report buffer?

Dataset	Onsite	Within Site Buffer	Distance
SEPP14 - Coastal Wetlands	No	No	N/A
SEPP26 - Littoral Rainforests	No	No	N/A
SEPP71 - Coastal Protection Zone	No	No	N/A

State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the report buffer?

Map Id	Feature	Effective Date	Distance	Direction
65703	Sydney Harbour Foreshore - Darling Harbour	01/05/2009	320m	North East
62613	Port and Related Employment Lands	25/05/2005	376m	North West
65701	Sydney Harbour Foreshore - Bank St	01/05/2009	384m	North West
65705	Sydney Harbour Foreshore - Sydney Casino	01/05/2009	820m	North

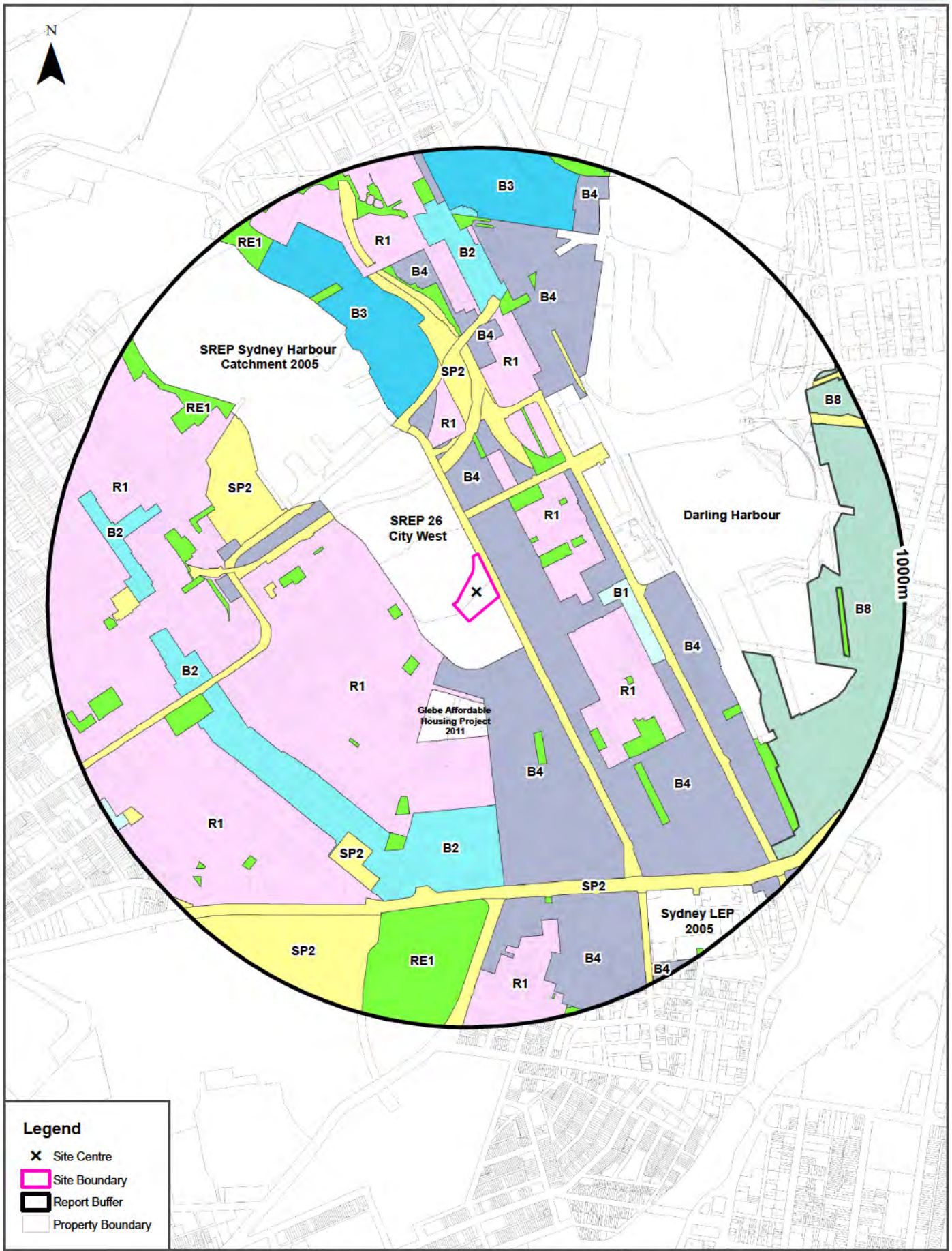
State Environmental Planning Policy Strategic Land Use Areas

State Environmental Planning Policy Strategic Land Use Areas onsite or within the report buffer?

Strategic Land Use	SEPPNo	Effective Date	Amendment	Amendment Year	Distance	Direction
No records within buffer						

LEP Planning Zones

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Local Environmental Plan

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Land Zoning

What Local Environmental Plan Land Zones exist within the report buffer?

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		0m	Onsite
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		18m	South East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		90m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		102m	South West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		103m	South
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		111m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		127m	West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		129m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		129m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		130m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		139m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		158m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		168m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		191m	South East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		198m	North
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		215m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		220m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		236m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		238m	North East
B1	Neighbourhood Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		243m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		244m	North East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		251m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		278m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		283m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		286m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		294m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		311m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		317m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		321m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		348m	West

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		353m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		357m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		366m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		368m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		369m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		370m	West
B3	Commercial Core		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		386m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		397m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		405m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		411m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		418m	North
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		436m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		447m	South East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		453m	South West
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		454m	South West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		456m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		456m	South
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		468m	North West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		472m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		476m	West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		476m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		522m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		532m	South East
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		536m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		539m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		541m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		542m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		551m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		552m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		587m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		593m	North
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		595m	North
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		595m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		613m	West
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		615m	East
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		617m	West

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		619m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		624m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		632m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		645m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		655m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		665m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		684m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		684m	South West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		689m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		693m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		704m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		718m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		732m	North West
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		733m	West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		755m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		757m	South
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		757m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		760m	North
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		770m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		786m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		786m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		797m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		803m	North
B3	Commercial Core		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		820m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		828m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		829m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		831m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		846m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		850m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		867m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		870m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		878m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		880m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		883m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		885m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		898m	North

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		910m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		922m	East
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		923m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		925m	West
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		931m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		938m	South
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		941m	South East
B1	Neighbourhood Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		960m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		968m	North
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		972m	South East
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		973m	South West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		977m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		979m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		981m	South East
B3	Commercial Core		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		990m	North
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	15/07/2015		992m	South East

Local Environmental Plan

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

Symbol	Minimum Lot Size	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

Symbol	Maximum Height of Building	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

Symbol	Floor Space Ratio	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

Land Application

What are the onsite Local Environmental Plan Land Applications?

Application Type	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
Included	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015		1.91

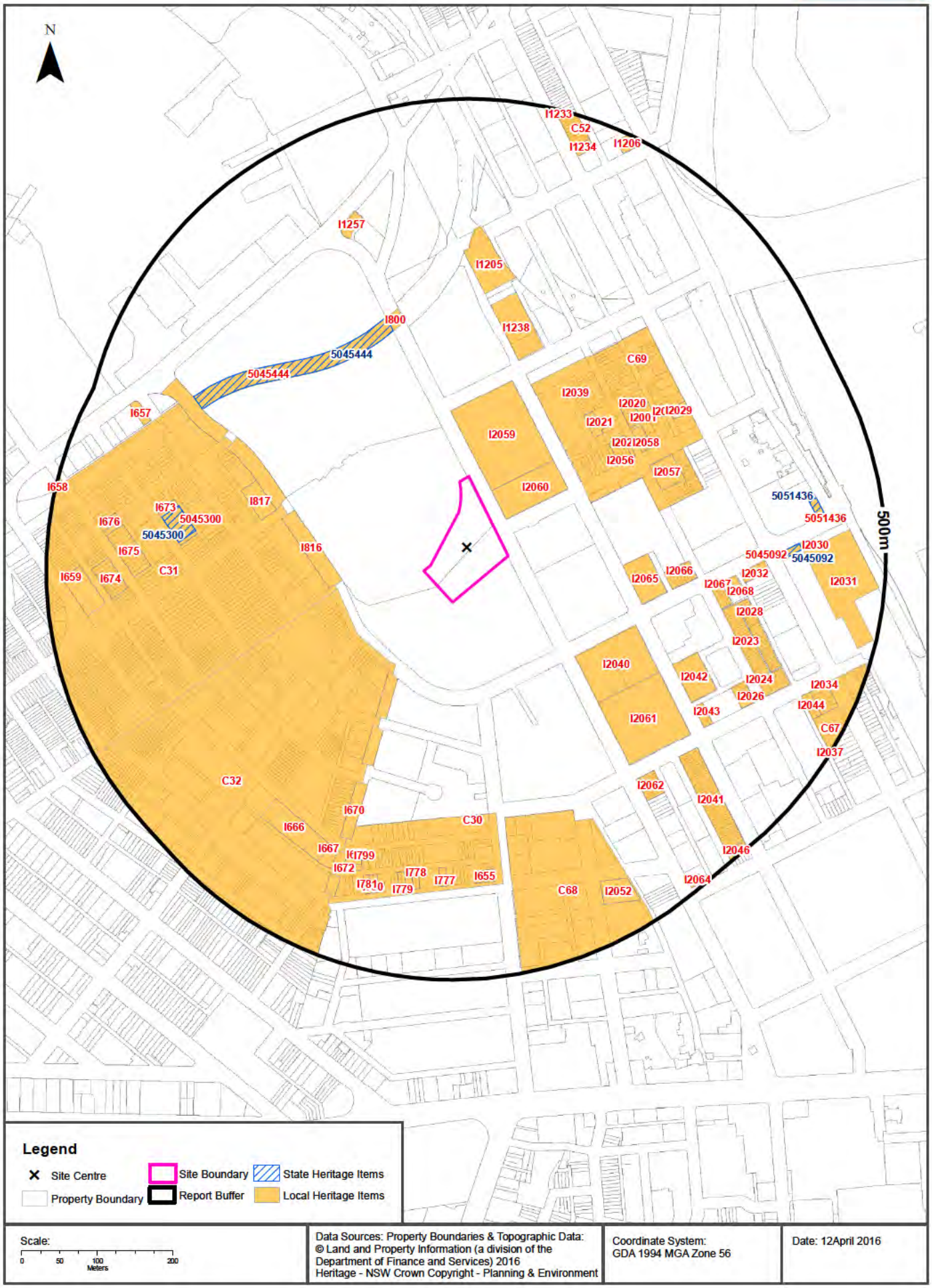
Land Reservation Acquisition

What are the onsite Local Environmental Plan Land Reservation Acquisitions?

Reservation	LEP	Published Date	Commenced Date	Currency Date	Amendment	Comments	Percentage of Site Area
No Data							

Heritage Items

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007



Heritage

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

State Heritage Items

What are the State Heritage Items located within 500m?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5045444	Glebe Railway Viaduct		Sydney		01034		213m	North West
5045300	Lyndhurst	61 Darghan Street Glebe	Sydney		00158	420	307m	West
5045092	Ultimo Post Office	494 Harris Street Ultimo	Sydney		00502	1286	358m	East
5051436	Sewage Pumping Station 1		Sydney		01336	2028	404m	East

Local Heritage Items

What are the Local Heritage Items located within 500m?

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I2059	Former woolstore 'Winchcombe Carson'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	18m	North
I2060	Former woolstore 'ESGM & Co'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	19m	North East
I816	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	108m	West
C32	St Phillips	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	112m	South West
C31	Lyndhurst	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	116m	West
I670	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	123m	South West
C69	Ultimo	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	129m	North East
I2065	Former woolstore	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	151m	East
I2040	Former woolstore facade	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	158m	South East
I1238	Terrace group (286 -318 Jones Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	168m	North
I2021	Former St Francis Xavier Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	172m	North East
I2039	Electrical substation	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	175m	North East
I2056	Cottage & terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	186m	North East
I670	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	193m	South West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I2022	Lord Wolseley Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	205m	North East
I816	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	207m	West
I2066	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	207m	East
I817	Commercial building 'Brelco'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	211m	West
I800	Railway viaduct	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	217m	North
I2020	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	219m	North East
I2057	Ultimo Uniting Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	220m	East
I2020	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	220m	North East
I2058	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	224m	North East
I2061	Former woolstore 'Farmers & Graziers No 1'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	225m	South East
I2001	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	237m	North East
I1205	Former industrial building elements 'Edwin Davey & Sons Flour Mill'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	243m	North
I2042	Former woolstore 'Farmer & Graziers No 2'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	260m	South East
I2002	Semi-detached cottage group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	264m	North East
I670	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	265m	South West
I2067	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	271m	East
I2029	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	277m	North East
C30	Hughes	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	282m	South
I2023	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	291m	East
C68	Mountain Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	292m	South
I2068	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	293m	East
I673	House 'Lyndhurst'	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	303m	West
I2032	Glasgow Arms Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	307m	East
I2028	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	309m	East
I816	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	313m	North West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I2043	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	316m	South East
I2062	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	336m	South East
I2026	Former Crown Hotel & terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	342m	South East
I799	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	347m	South
I666	Housing development	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	349m	South West
I2041	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	349m	South East
I1257	Water Board pumping station	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	351m	North
I671	Friend in Hand Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	351m	South
I777	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	351m	South
I655	Australian Youth Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	356m	South
I778	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	357m	South
I2030	Former Ultimo Post Office	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	357m	East
I667	House group (99-101 Cowper Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	359m	South West
I670	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	360m	South
I779	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	361m	South
I675	Housing development	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	361m	West
I672	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	366m	South
I2024	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	367m	South East
I780	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	373m	South
I781	Shop & residence 'Fernville'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	377m	South
I674	Housing development	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	391m	West
I2031	Powerhouse Museum	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	391m	East
I670	Street trees	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	392m	South
I676	Sandstone pavement, kerb & retaining wall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	407m	West
I657	Kauri Foreshore Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	412m	West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I2052	Former Sydney Technical College School of Rural Studies	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	418m	South East
I659	Housing development	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	423m	West
C67	Harris Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	429m	South East
I2044	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	429m	South East
I2034	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	437m	South East
C52	Pyrmont	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	448m	North
I1234	Commercial building	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	448m	North
I1233	Shop & residence group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	458m	North
I1206	Woolbrokers Arms Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	474m	North
I2064	Vulcan Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	480m	South East
I2046	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	483m	South East
I658	Warehouse 'Greens Woolstore'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	494m	West
I2037	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/06/2015	499m	South East

Natural Hazards

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Bushfire Prone Land

What are the nearest Bushfire Prone Land Categories that exist within the report buffer?

Bushfire Prone Land Category	Date Certified	Distance	Direction
No records within buffer			

Bushfire Prone Land Data Reference - NSW RFS GIS Data Set

Ecological Constraints - Native Vegetation & RAMSAR Wetlands

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Ecological Constraints

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

Native Vegetation

What native vegetation exists within the report buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Direction
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/ Native	0m	Onsite
S_SW01	S_SW01: Estuarine Mangrove Forest			00: Not assessed	00: Not assessed	0: Not assessed	Mangroves	882m	North West

RAMSAR Wetlands

What RAMSAR Wetland areas exist within the report buffer?

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

Ecological Constraints

Wentworth Park South, Off Wentworth Park Road, Ultimo, NSW 2007

ATLAS of NSW Wildlife

Endangered &Vulnerable Species on the ATLAS of NSW Wildlife database, within 10km of the site?

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Amphibia	Hylidae	Litoria aurea	Green and Golden Bell Frog	No	Endangered, Protected	Vulnerable
Amphibia	Myobatrachidae	Crinia tinnula	Wallum Froglet	No	Vulnerable, Protected	
Amphibia	Myobatrachidae	Pseudophryne australis	Red-crowned Toadlet	No	Vulnerable, Protected	
Aves	Accipitridae	Hieraaetus morphnoides	Little Eagle	No	Vulnerable, Protected	
Aves	Accipitridae	Pandion cristatus	Eastern Osprey	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Anatidae	Stictonetta naevosa	Freckled Duck	No	Vulnerable, Protected	
Aves	Anseranatidae	Anseranas semipalmata	Magpie Goose	No	Vulnerable, Protected	
Aves	Ardeidae	Botaurus poiciloptilus	Australasian Bittern	No	Endangered, Protected	Endangered
Aves	Ardeidae	Ixobrychus flavicollis	Black Bittern	No	Vulnerable, Protected	
Aves	Burhinidae	Burhinus grallarius	Bush Stone-curlew	No	Endangered, Protected	
Aves	Cacatuidae	Calyptorhynchus lathami	Glossy Black-Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Charadriidae	Charadrius leschenaultii	Greater Sand-plover	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Charadriidae	Charadrius mongolus	Lesser Sand-plover	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Columbidae	Ptilinopus superbus	Superb Fruit-Dove	No	Vulnerable, Protected	
Aves	Diomedeidae	Diomedea exulans	Wandering Albatross	No	Endangered, Protected	E,J
Aves	Diomedeidae	Thalassarche melanophris	Black-browed Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Estrildidae	Stagonopleura guttata	Diamond Firetail	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus fuliginosus	Sooty Oystercatcher	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus longirostris	Pied Oystercatcher	No	Endangered, Protected	
Aves	Laridae	Onychoprion fuscata	Sooty Tern	No	Vulnerable, Protected	
Aves	Laridae	Sternula albifrons	Little Tern	No	Endangered, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Meliphagidae	Anthochaera phrygia	Regent Honeyeater	No	Critically Endangered Species, Protected	Critically Endangered
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat	No	Vulnerable, Protected	
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	No	Endangered Population, Vulnerable, Protected	
Aves	Neosittidae	Daphoenositta chrysoptera	Varied Sittella	No	Vulnerable, Protected	
Aves	Petroicidae	Petroica boodang	Scarlet Robin	No	Vulnerable, Protected	
Aves	Petroicidae	Petroica phoenicea	Flame Robin	No	Vulnerable, Protected	
Aves	Procellariidae	Ardenna carneipes	Flesh-footed Shearwater	No	Vulnerable, Protected	J,K
Aves	Procellariidae	Pterodroma leucoptera leucoptera	Gould's Petrel	No	Vulnerable, Protected	Endangered
Aves	Psittacidae	Glossopsitta pusilla	Little Lorikeet	No	Vulnerable, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Aves	Psittacidae	Lathamus discolor	Swift Parrot	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Aves	Psittacidae	Neophema pulchella	Turquoise Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Scolopacidae	Calidris alba	Sanderling	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Calidris ferruginea	Curlew Sandpiper	No	Endangered, Protected	CE,C,J,K
Aves	Scolopacidae	Calidris tenuirostris	Great Knot	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Limicola falcinellus	Broad-billed Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Limosa limosa	Black-tailed Godwit	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Xenus cinereus	Terek Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Strigidae	Ninox connivens	Barking Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Strigidae	Ninox strenua	Powerful Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	Tyto novaehollandiae	Masked Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	Tyto tenebricosa	Sooty Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Mammalia	Balaenidae	Eubalaena australis	Southern Right Whale	No	Endangered, Protected	Endangered
Mammalia	Balaenopteridae	Megaptera novaeangliae	Humpback Whale	No	Vulnerable, Protected	Vulnerable
Mammalia	Burramyidae	Cercartetus nanus	Eastern Pygmy-possum	No	Vulnerable, Protected	
Mammalia	Dasyuridae	Dasyurus maculatus	Spotted-tailed Quoll	No	Vulnerable, Protected	Endangered
Mammalia	Dasyuridae	Dasyurus viverrinus	Eastern Quoll	No	Endangered, Protected	Critically Endangered
Mammalia	Dugongidae	Dugong dugon	Dugong	No	Endangered, Protected	
Mammalia	Molossidae	Mormopterus norfolkensis	Eastern Freetail-bat	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus forsteri	New Zealand Fur-seal	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus pusillus doriferus	Australian Fur-seal	No	Vulnerable, Protected	
Mammalia	Peramelidae	Perameles nasuta	Long-nosed Bandicoot population in inner western Sydney	No	Endangered Population, Protected	
Mammalia	Petauridae	Petaurus australis	Yellow-bellied Glider	No	Vulnerable, Protected	
Mammalia	Potoroidae	Aepyprymnus rufescens	Rufous Bettong	No	Vulnerable, Protected	
Mammalia	Pteropodidae	Pteropus poliocephalus	Grey-headed Flying-fox	No	Vulnerable, Protected	Vulnerable
Mammalia	Vespertilionidae	Miniopterus australis	Little Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Myotis macropus	Southern Myotis	No	Vulnerable, Protected	
Reptilia	Cheloniidae	Chelonia mydas	Green Turtle	No	Vulnerable, Protected	Vulnerable
Flora	Asteraceae	Senecio spathulatus	Coast Groundsel	No	Endangered, Protected	
Flora	Casuarinaceae	Allocasuarina portuensis	Nielsen Park She-oak	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Convolvulaceae	Wilsonia backhousei	Narrow-leafed Wilsonia	No	Vulnerable, Protected	
Flora	Dilleniaceae	Hibbertia puberula		No	Endangered, Protected	
Flora	Elaeocarpaceae	Tetratheca glandulosa		No	Vulnerable, Protected	
Flora	Elaeocarpaceae	Tetratheca juncea	Black-eyed Susan	No	Vulnerable, Protected	Vulnerable

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Ericaceae	Epacris purpurascens var. purpurascens		No	Vulnerable, Protected	
Flora	Fabaceae (Faboideae)	Pultenaea parviflora		No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia bynoeana	Bynoe's Wattle	No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia gordonii		No	Endangered, Protected	Endangered
Flora	Fabaceae (Mimosoideae)	Acacia pubescens	Downy Wattle	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia terminalis subsp. terminalis	Sunshine Wattle	No	Endangered, Protected	Endangered
Flora	Grammitidaceae	Grammitis stenophylla	Narrow-leaf Finger Fern	No	Endangered, Protected, Category 3 Sensitive Species	
Flora	Malvaceae	Lasiopetalum joyceae		No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Callistemon linearifolius	Netted Bottle Brush	No	Vulnerable, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	Darwinia biflora		No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus camfieldii	Camfield's Stringybark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus fracta	Broken Back Ironbark	No	Vulnerable, Protected	
Flora	Myrtaceae	Eucalyptus nicholii	Narrow-leaved Black Peppermint	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus pulverulenta	Silver-leafed Gum	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus scoparia	Wallangarra White Gum	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	Leptospermum deanei		No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Melaleuca biconvexa	Biconvex Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Melaleuca deanei	Deane's Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Syzygium paniculatum	Magenta Lilly Pilly	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	Triplarina imbricata	Creek Triplarina	No	Endangered, Protected	Endangered
Flora	Orchidaceae	Caladenia tessellata	Thick Lip Spider Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Vulnerable
Flora	Orchidaceae	Diuris arenaria	Sand Doubletail	No	Endangered, Protected, Category 2 Sensitive Species	
Flora	Orchidaceae	Genoplesium baueri	Bauer's Midge Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Endangered
Flora	Orchidaceae	Sarcochilus hartmannii	Hartman's Sarcochilus	No	Vulnerable, Protected, Category 2 Sensitive Species	Vulnerable
Flora	Poaceae	Dichanthium setosum	Bluegrass	No	Vulnerable, Protected	Vulnerable
Flora	Proteaceae	Persoonia hirsuta	Hairy Geebung	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Proteaceae	Persoonia nutans	Nodding Geebung	No	Endangered, Protected	Endangered
Flora	Rutaceae	Asterolasia buxifolia		No	Endangered, Protected	
Flora	Santalaceae	Thesium australe	Austral Toadflax	No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	Pimelea curviflora var. curviflora		No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	Pimelea spicata	Spiked Rice-flower	No	Endangered, Protected	Endangered
Flora	Hygrophoraceae	Camarophyllopsis kearneyi		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe anomala var. ianthinomarginata		No	Vulnerable, Protected	
Flora	Hygrophoraceae	Hygrocybe aurantipes		No	Vulnerable, Protected	
Flora	Hygrophoraceae	Hygrocybe austropratensis		No	Endangered, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Hygrophoraceae	Hygrocybe collucera		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe griseoramosa		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe lanecovensis		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe reesiae		No	Vulnerable, Protected	
Flora	Hygrophoraceae	Hygrocybe rubronivea		No	Vulnerable, Protected	

Data does not include records not defined as either endangered or vulnerable, and category 1 sensitive species are also excluded. NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained 12/04/2016

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Land Title Records

GY

19 APR 2016

ADVANCE LEGAL SEARCHERS PTY LTD

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14th April, 2016

ENVIRONMENTAL INVESTIGATION SERVICES
PO BOX 976,
NORTH RYDE BC NSW 1670

Attention:

RE: **Wentworth Park South,**
Off Wentworth Park Road
Ultimo
Job No. E29319K

Note 1:	**Lot 678**	**DP 729635**	(page 1)
Note 2:	**Lot 679**	**DP 729635**	(page 3)
Note 3:	**Lot 680**	**DP 729635**	(page 4)

Note 1:

Current Search

Folio Identifier 678/729635 (title attached)
DP 729635 (plan attached)
Dated 11th April, 2015
Registered Proprietor:
WENTWORTH PARK SPORTING COMPLEX TRUST

Title Tree
Lot 678 DP 729635

Folio Identifier 678/729635

Crown Land

Government Gazette 10th November 1885

****

Summary of proprietor(s)
Lot 678 DP 729635

Year	Proprietor
	(Lot 678 DP 729635)
1992 – todate	Wentworth Park Sporting Complex Trust
1991 – 1992	Wentworth Park Greyhound Racing Complex
1991 – 1991	The State of New South Wales
(1992 – todate)	*(various current leases shown on Folio Identifier 678/729635)*
(1991 – todate)	*(various leases shown on Historical Folio 678/729635)*
	(Wentworth Park Parish Petersham – Area 31 Acres 0 Roods 34 ¼ Perches)
Prior – 1991	Crown Land
(1885 – 1991)	*(proclaimed part of Wentworth Park)*

****

Note 2:

Current Search

Folio Identifier 679/729635 (title attached)
DP 729635 (plan attached)
Dated 11th April, 2016
Registered Proprietor:
THE STATE OF NEW SOUTH WALES

Title Tree
Lot 679 DP 729635

Folio Identifier 679/729635

Crown Land

Government Gazette 10th November 1885

****

Summary of proprietor(s)
Lot 679 DP 729635

Year	Proprietor
	(Lot 679 DP 729635)
1991 – todate	The State of New South Wales
(1991 – todate)	*(proclaimed part of Wentworth Park)*
	(Parts Wentworth Park Parish Petersham – Area 31 Acres 0 Rood 34 ¼ Perches & Area 3 Acres 1 Rood 0 Perches)
Prior – 1991	Crown Land
(1885 – 1991)	*(proclaimed part of Wentworth Park)*

****

Note 3:

Current Search

Folio Identifier 680/729635 (title attached)
DP 729635 (plan attached)
Dated 11th April, 2016
Registered Proprietor:
THE STATE OF NEW SOUTH WALES

Title Tree
Lot 680 DP 729635

Folio Identifier 680/729635

Crown Land

Government Gazette 10th November 1885

****

Summary of proprietor(s)
Lot 680 DP 729635

Year	Proprietor
	(Lot 680 DP 729635)
1991 – todate	The State of New South Wales
(1991 – todate)	*(proclaimed part of Wentworth Park)*
	(Wentworth Park Parish Petersham – Area 31 Acres 0 Rood 34 ¼ Perches)
Prior – 1991	Crown Land
(1885 – 1991)	*(proclaimed part of Wentworth Park)*

****

Land & Property Information

Cadastral Records Enquiry Report

Ref : eis - ultimo

Requested Parcel : Lot 679 DP 729635

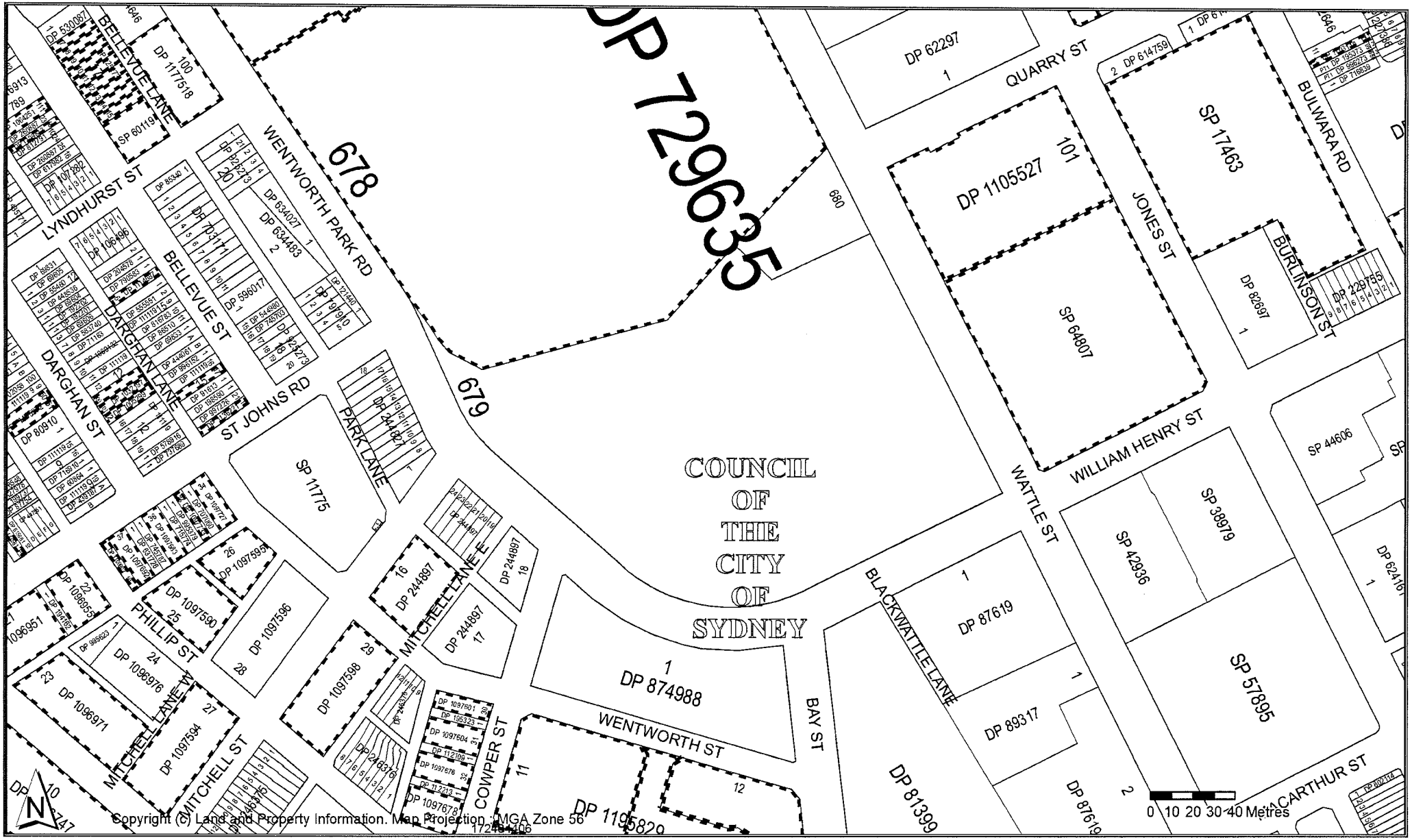
Identified Parcel : Lot 679 DP 729635

Locality : GLEBE

LGA : SYDNEY

Parish : PETERSHAM

County : CUMBERLAND



172484106

Report Generated 10:21:24 AM, 11 April, 2016

This information is provided as a searching aid only. While every endeavour is made to ensure the current cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps.

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 678/729635

SEARCH DATE	TIME	EDITION NO	DATE
11/4/2016	10:21 AM	11	9/12/2014

LAND

LOT 678 IN DEPOSITED PLAN 729635
AT GLEBE
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF PETERSHAM COUNTY OF CUMBERLAND
TITLE DIAGRAM DP729635

FIRST SCHEDULE

WENTWORTH PARK SPORTING COMPLEX TRUST (CN E831367)

SECOND SCHEDULE (8 NOTIFICATIONS)

---

1 LAND EXCLUDES MINERALS (S.171 CROWN LANDS ACT 1989)
2 E42631 PART WENTWORTH PARK PROCLAIMED 10TH NOVEMBER 1885
3 EASEMENT FOR UNDERGROUND CABLES NOTIFIED IN GOVERNMENT GAZETTE DATED 18/4/1958 FOLIO 1102
7404104 EASEMENT NOW VESTED IN ENERGYAUSTRALIA
4 6775436 LEASE TO ENERGYAUSTRALIA OF SUBSTATION NO. 560 TOGETHER WITH A RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES AFFECTING ANOTHER PART OF THE LAND ABOVE DESCRIBED SHOWN IN PLAN WITH BK.3394 NO.87. EXPIRES: 26/9/2014.
5 THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
6 AH545239 LEASE TO MLMARAE PTY LTD OF THE PARTS OF LEVEL 3 GRANSTAND PREMISES OF WENTWORTH PARK SHOWN HATCHED IN PLAN WITH AH545239. EXPIRES: 19/4/2017.
7 AI679612 LEASE TO THE ACADEMY OF INTERACTIVE ENTERTAINMENT LIMITED OF SUITES 1 & 2, LEVEL 2 WENTWORTH PARK GRANDSTAND. EXPIRES: 31/10/2015. OPTION OF RENEWAL: 3 YEARS.
8 AI708037 LEASE TO THE NEW SOUTH WALES GREYHOUND BREEDERS OWNERS & TRAINERS ASSOCIATION LIMITED OF SUITE 3, LEVEL 2, WENTWORTH PARK GRANDSTAND SHOWN HATCHED IN PLAN WITH AI708037. EXPIRES: 31/1/2017. OPTION OF RENEWAL: 3 YEARS.

END OF PAGE 1 - CONTINUED OVER

FOLIO: 678/729635 PAGE 2

NOTATIONS

NOTE: AUTHORISATION OF ADDITIONAL PURPOSES VIDE GAZ. 1.8.2008 FOL. 7400

AE705558 NOTE: AUTHORISATION OF ADDITIONAL PURPOSE GAZ. 1.5.2009 FOL. 1927

UNREGISTERED DEALINGS: PP DP1212414.

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 679/729635

SEARCH DATE	TIME	EDITION NO	DATE
11/4/2016	10:23 AM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 679 IN DEPOSITED PLAN 729635
AT GLEBE
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF PETERSHAM COUNTY OF CUMBERLAND
TITLE DIAGRAM DP729635

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES

SECOND SCHEDULE (4 NOTIFICATIONS)

---

* 1 LAND EXCLUDES MINERALS (S.171 CROWN LANDS ACT 1989)
* 2 WENTWORTH PARK PROCLAIMED 10TH NOVEMBER 1885
* 3 THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
* 4 THE LAND IS DEDICATED FOR A PUBLIC PURPOSE

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 680/729635

SEARCH DATE	TIME	EDITION NO	DATE
11/4/2016	10:25 AM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 680 IN DEPOSITED PLAN 729635
AT GLEBE
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF PETERSHAM COUNTY OF CUMBERLAND
TITLE DIAGRAM DP729635

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES

SECOND SCHEDULE (4 NOTIFICATIONS)

---

* 1 LAND EXCLUDES MINERALS (S.171 CROWN LANDS ACT 1989)
* 2 WENTWORTH PARK PROCLAIMED 10TH NOVEMBER 1885
* 3 THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
* 4 THE LAND IS DEDICATED FOR A PUBLIC PURPOSE

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE
11/4/2016 10:28AM

FOLIO: 679/729635

First Title(s): 679/729635
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
22/5/1991	DP729635	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
8/5/2003	9577477	DEPARTMENTAL DEALING	
15/5/2009	AE669163	DEPARTMENTAL DEALING	
6/12/2010	AF920998	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE
11/4/2016 10:30AM

FOLIO: 680/729635

First Title(s): 680/729635
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
22/5/1991	DP729635	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
8/5/2003	9577477	DEPARTMENTAL DEALING	
15/5/2009	AE669163	DEPARTMENTAL DEALING	
6/12/2010	AF920998	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

Advance Legal Searchers
Pty Ltd Phone: 02 9644 1679

LPI On-Line

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE
11/4/2016 10:26AM

FOLIO: 678/729635 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue

*** END OF SEARCH ***

RP81

OFFICE USE ONLY

E 042631 Y

APPLICATION

REAL PROPERTY ACT, 1900

(See Instructions for Completion on back of form)

AP

Q 1 of 1

$48-50

DESCRIPTION OF LAND Note (a)

Torrens Title reference	If Part Only, Delete Whole and Give Details	Location
678/729635	WHOLE	AT GLEBE

REGISTERED DEALING Note (b)

Type of Dealing	Registered Number	Torrens Title Reference
-	-	-

PRESENT REGISTERED PROPRIETOR Note (c)

THE STATE OF NEW SOUTH WALES

Note (d) is presently recorded as REGISTERED PROPRIETOR of the land above described ~~aforementioned registered dealing~~ Application is hereby made to record

NEW REGISTERED PROPRIETOR(S) Note (e)

WENTWORTH PARK GREYHOUND RACING COMPLEX - (consequent upon the Wentworth Park Greyhound Racing Complex being constituted by operation of paragraph 4 Schedule 8, Crown Lands Act 1989 as the reserve trust for part of Wentworth Park [the said trust having been incorporated pursuant to S37Q Crown Lands Consolidation Act 1913 - Gazetted 16.2.1990, folio 1412] having an estate in fee simple in the land above described by virtue of S.100 Crown Lands Act 1989)

OFFICE USE ONLY

OVER

Note (d) as REGISTERED PROPRIETOR of the land above described ~~aforementioned registered dealing~~ and to amend the Second Schedule of the folio of the Register by - Note (f)

1. Deleting Second Schedule item 2.
2. Inserting new Second Schedule items 2 and 3.
   "2. Part Wentworth Park Proclaimed 10th November, 1885.
   3. The land is a reserve within the meaning of Part 5 of the Crown Lands Act 1989 and is subject to the provision of that Act, in particular see restrictions on dealings Section 102."

~~3. Delete "Notations Unregistered Dealings: Nil"~~

PLEASE ISSUE PARCHMENT CERTIFICATE OF TITLE

DATE 4 NOV 1991

EXECUTION Note (g)

I hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900

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

Signature of Witness

Name of Witness (BLOCK LETTERS)

Lands Officer
Department of Conservation and Land Management
Address and occupation of Witness

John Scott, being a person authorised by the Minister administering the Crown Lands Act 1989 pursuant to Sec 13L of the Real Property Act.

Signature of Applicant

TO BE COMPLETED BY LODGING PARTY Notes (h) and (i)

LODGED BY DEPT OF CALM. Box 1695

Ref. MN 85R151

Delivery Box Number 1695.

LOCATION OF DOCUMENTS	CT	OTHER
Herewith	Not issued.	
In L.T.O. with		
Produced by		
Secondary Directions		
Delivery Directions		

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Checked	Passed	REGISTERED - -19
DL 14		
Signed	Extra Fee	

RP01

INSTRUCTIONS FOR COMPLETION

This form is to be used only if no other approved form is appropriate for the purpose, e.g., Applications under section 46 (c) Real Property Act, 1900; Application under section 12 (4) Trustee Act, 1925-1942.

When so required under the Stamp Duties Act, 1920, this dealing should be marked by the Stamp Duties Division, Department of Finance before lodgment at the Land Titles Office.

Typewriting and handwriting should be clear, legible and in permanent dense black or dark blue non-copying ink.

Alterations are not to be made by erasure; the words rejected are to be ruled through and initialled by the applicant.

If the space provided is insufficient, additional sheets of the same size and quality of paper and having the same margins as this form should be used. Each additional sheet must be identified as an annexure and signed by the applicant and the attesting witness.

Rule up all blanks.

The following instructions relate to the side notes on the form.

(a) Description of land. (If the discharge of mortgage is only in respect of a registered dealing, rule through this panel.)

(i) TORRENS TITLE REFERENCE--For a Manual Folio insert the Volume and Folio (e.g., Vol. 8514 Fol. 128). For a Computer Folio insert the Folio Identifier (e.g. 12/701924)

(ii) PART/WHOLE--If part only of the land in the folio of the Register is being discharged, delete the word "WHOLE" and insert the lot and plan number, portion, &c.

(b) Registered dealing. (If the discharge of mortgage is only in respect of a folio of the Register, rule through this panel.) Show the registered number of the lease, mortgage, or charge and the title reference affected thereby. Lease—V123456—Vol. 13456 Fol. 124.—Folio Identifier 1/701692.

(c) Show the full name of the registered proprietor as recorded on the Register.

(d) Strike out "land above described" or "abovementioned registered dealing", whichever does not apply.

(e) Show the full name, address and occupation or description of the person(s) to be registered as proprietor(s).

(f) Set out the terms of the request, e.g., consequent upon the appointment of, etc.

(g) Execution.

GENERALLY (i) Should there be insufficient space for the execution of this dealing, use an annexure sheet

(ii) The certificate of witness under the Real Property Act, 1900, must be signed by the applicant who should execute the dealing in the presence of an adult witness, not being a party to the application, to whom he/she is personally known. Any person falsely or negligently certifying is liable to the penalties provided by section 117 of the Real Property Act, 1900

ATTORNEY (iii) If the application is executed by an attorney for the applicant pursuant to a registered power of attorney, the form of attestation must set out the full name of the attorney, and the form of execution must indicate the source of his/her authority, e.g. "AB by his/her attorney (or receiver or delegate, as the case may be), XY pursuant to power of attorney registered Book No. "

AUTHORITY (iv) If the application is executed pursuant to an authority (other than specified in (iii)), the form of execution must indicate the statutory, judicial or other authority pursuant to which the application has been executed.

CORPORATION (v) If the application is executed by a corporation under seal, the form of execution should include a statement that the seal has been properly affixed, e.g. in accordance with the Articles of Association of the corporation. Each person attesting the affixing of the seal must state his/her position (e.g., director, secretary) in the corporation.

(h) Insert the name, postal address, Document Exchange reference, telephone number and delivery box number of the lodging party.

(i) The lodging party is to complete the LOCATION OF DOCUMENTS panel. Place a tick in the appropriate box to indicate the whereabouts of the Certificate of Title. List, in an abbreviated form, other documents lodged, e.g., stat. dec. for statutory declaration.

OFFICE USE ONLY

FIRST SCHEDULE AND OTHER DIRECTIONS

(A) FOLIO IDENTIFIER	(B) DIRECTION	(C) NAME
	S	WENTWORTH PARK GREYHOUND RACING COMPLEX

SECOND SCHEDULE AND OTHER DIRECTIONS

(D) FOLIO IDENTIFIER	(E) DIRECTION	(F) NOTIFN TYPE	(G) DEALING NUMBER	(H) DETAILS
	OFF	AA		
	ON	AA		PART WENTWORTH PARK PROCLAIMED 10TH NOVEMBER 1885
	ON	AB		THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND IS SUBJECT TO THE PROVISION OF THAT ACT, IN PARTICULAR SEE RESTRICTIONS ON DEALINGS SECTION 102.
	C/T		4695	

H.016-

Embraces Part Ms 2280 Sy.

The Glebe Municipality

Papers L.B. 30-169.

1

PLAN OF PORTION

County of Cumberland Parish of Petersham

LAND DISTRICT OF METROPOLITAN LAND BOARD DISTRICT OF SYDNEY

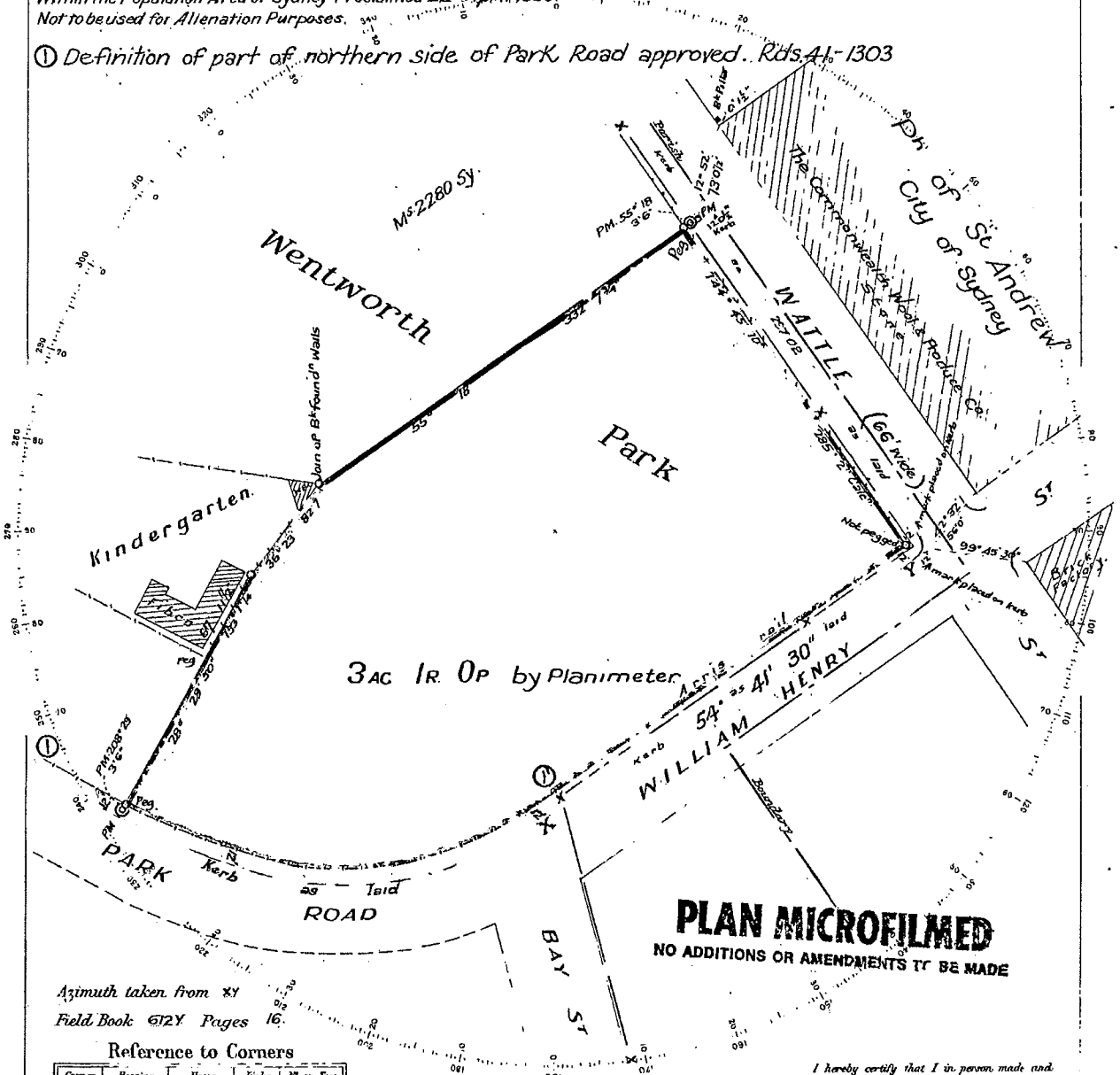
Occupation license No. Holding. Eastern Division.

Applied for under the Section of the Crown Lands Consolidation Act 1913 by J.C. Bendrat

Within the Population Area of Sydney Proclaimed 22nd April 1886

Not to be used for Alienation Purposes.

① Definition of part of northern side of Park Road approved. Rds 41-1303



PLAN MICROFILMED
NO ADDITIONS OR AMENDMENTS TO BE MADE

Azimuth taken from XY

Field Book 612Y Pages 16.

Reference to Corners

Corner	Bearing	From	Links	No on Free

Reference to Traverse

Line	Bearing	Distance

I hereby certify that I in person made and on the 28th Feby. 1930 completed the survey represented on this plan on which are written the bearings and lengths of the lines measured by me and I declare that the survey has been executed in accordance with the regulations published for the guidance of licensed Surveyors and the practice of the Department of Lands.

Fred. C. Della Ca Licensed Surveyor

Transmitted to the District Surveyor with my letter of 5.3.1930 No 33.

Voucher No - Passed -

Calculation Book No - Folio -

Checked and Charted 11th June 1930

Examined 11th June 1930

Plan approved 27th June 1930

R.D. Mansell
Draftsman in Charge

7914. 3000

Value of Improvements

100 feet

Scale 20 Chains to an Inch.

Standard Tracing

28-864

Lithographed & Printed at the Department of Lands, Sydney N.S.W.

Cat No. Ms 7914

8023

Plans showing Wentworth Park Area
R.1/93a, 0a.93p.s.r. R.1/93a.r. R.1/93a.0a.r.p. Ms.7282 Sy.s.r. R.1ac.

PLAN
of
WENTWORTH PARK
as enclosed
Parish of Petersham County of Cumberland

Scale 2 Chains to 1 Inch

Area In. In 20.5p acquired for Wardell Road—Darling Island vide Gaz 21st July 1916 & Ms 5126 Syr

① Definition of part of the north-eastern side of Park Road approved Rds 41-1303

Easements (2) Acquired for underground cables Gaz 5-4-1918 Ms 5126 Sy.

Cove
Blackwattle
BRIDGE
GIPPS CRESCENT
ROAD
to Darling Island
City of Sydney
John Harris
St Andrew
130ac
FIG ST
QUARRY ST
PARK
STREET
LYNDHURST ST
CARDIGAN ST
VUE
Municipality of
Glebe Island
Bridge
102 ft
Lane
RAILWAY
Ms 5126 Syr
Wardell Rd
Australasian
DENMAN
MITCHELL ST
COWPER ST
ROAD
WILLIAM HENRY
The Glebe
St Phillips
Cemetery
Boundary
Fences

32ac 2rd 15per
3la 0r 34p ea rly

35ac 0r 11p
32ac 3r 19p
226

Date of Survey 31st Oct 1904.
Azimuth by Denman Street ~~G 25~~ 1°31' mag
Traverse. 3lks from boundaries where straight.
Field Book 1345 Folio 25-30

Ms 2280 Syd

PLAN MICROFILMED
NO ABSTRACTS OR TRANSCRIPTS TO BE MADE

Transmitted to the District Surveyor with my letter dated 2nd November 1904

Checked & Charted
Plans 2282, 2283, 2284 & 2285 Sy.s.r.
2278 & 2279 Ms 2280 Sy.s.r. marked on
Examined & Charted
Plans Approved
Chief Draftsman
Surveyor General

Staff Surveyor

2280-3000

Ms 2280 Sy

PLAN FORM 3 To be used in conjunction with Plan Form 2 WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

OFFICE USE ONLY

D.P. 729635

Registered 22.5.1991

This is sheet 4 of my plan in 4 sheets dated 23RD FEBRUARY, 1990.

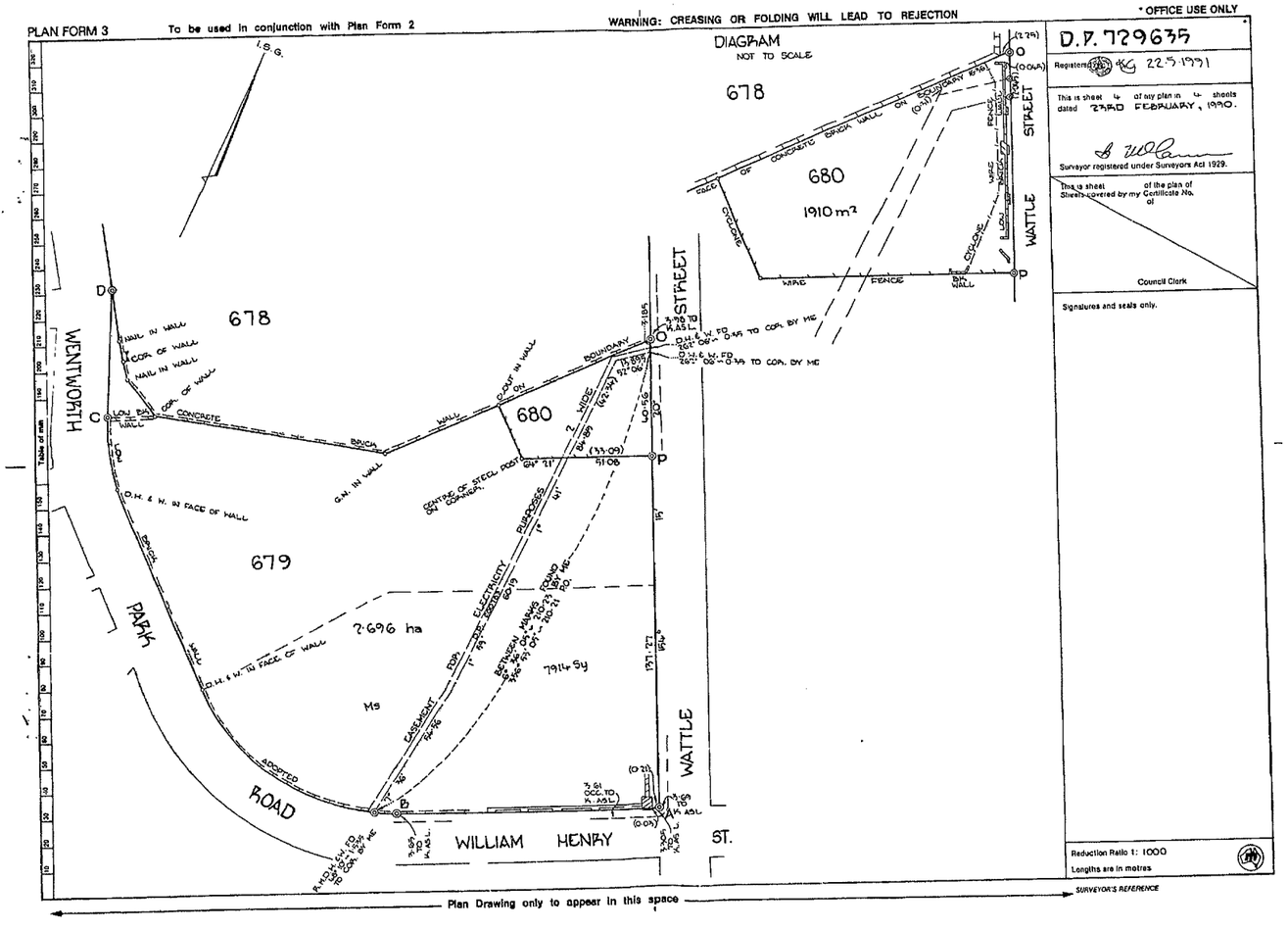
Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

DIAGRAM
NOT TO SCALE



Reduction Ratio 1: 1000

Lengths are in metres

SURVEYOR'S REFERENCE

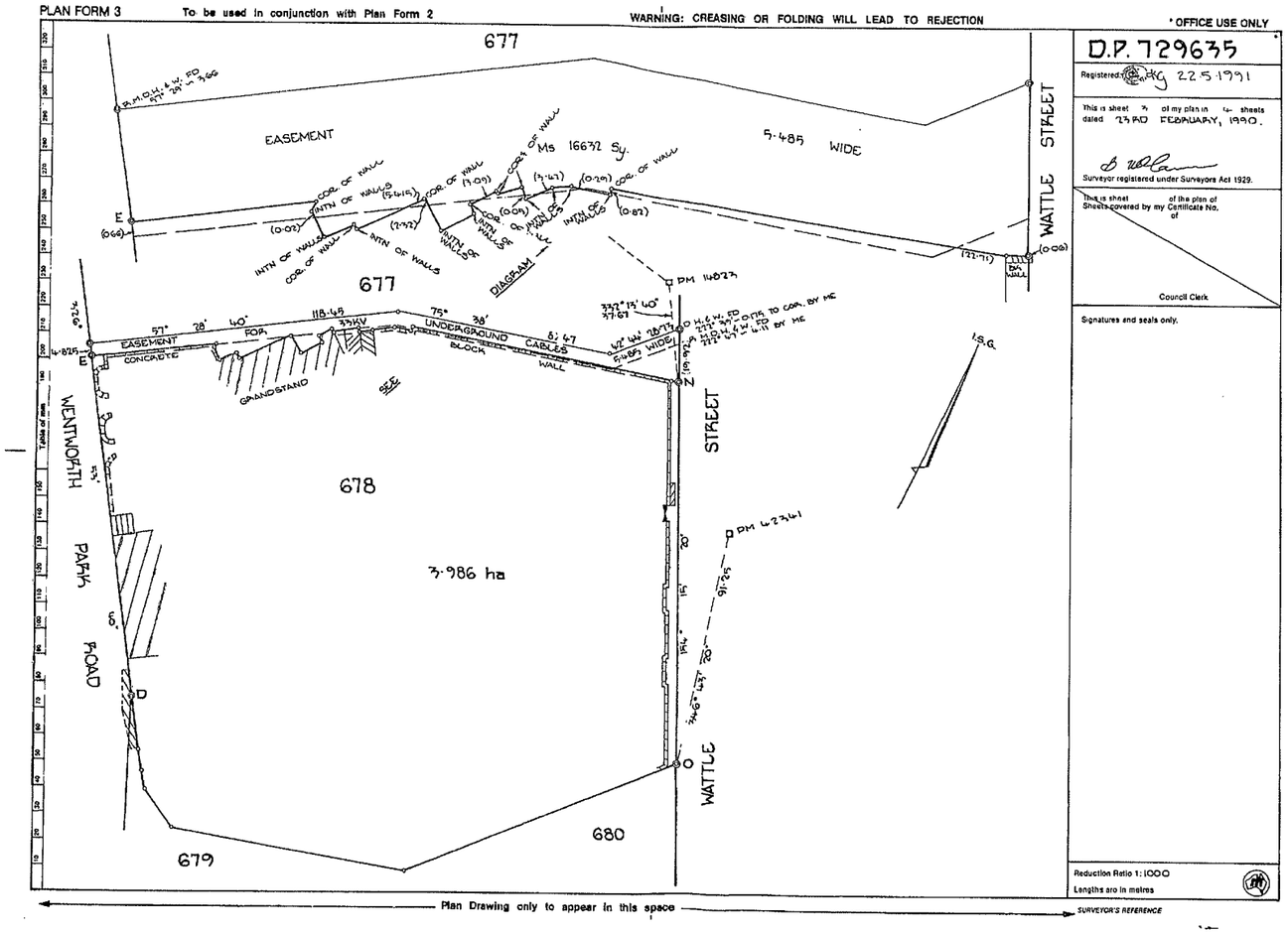
Plan Drawing only to appear in this space

4

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 23rd May, 1991

10 20 30 40 50 60 70 Table of mm 110 120 130 140

PLAN FORM 3 To be used in conjunction with Plan Form 2 WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION * OFFICE USE ONLY



D.P. 729635

Registered: 22.5.1991

This is sheet 1 of my plan in 4 sheets dated 25th FEBRUARY, 1990.

Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

Reduction Ratio 1: 1000
Lengths are in metres

Plan Drawing only to appear in this space

SURVEYOR'S REFERENCE

3

10 20 30 40 50 60 70 Table of mm 110 120 130 140

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 23rd May, 1991