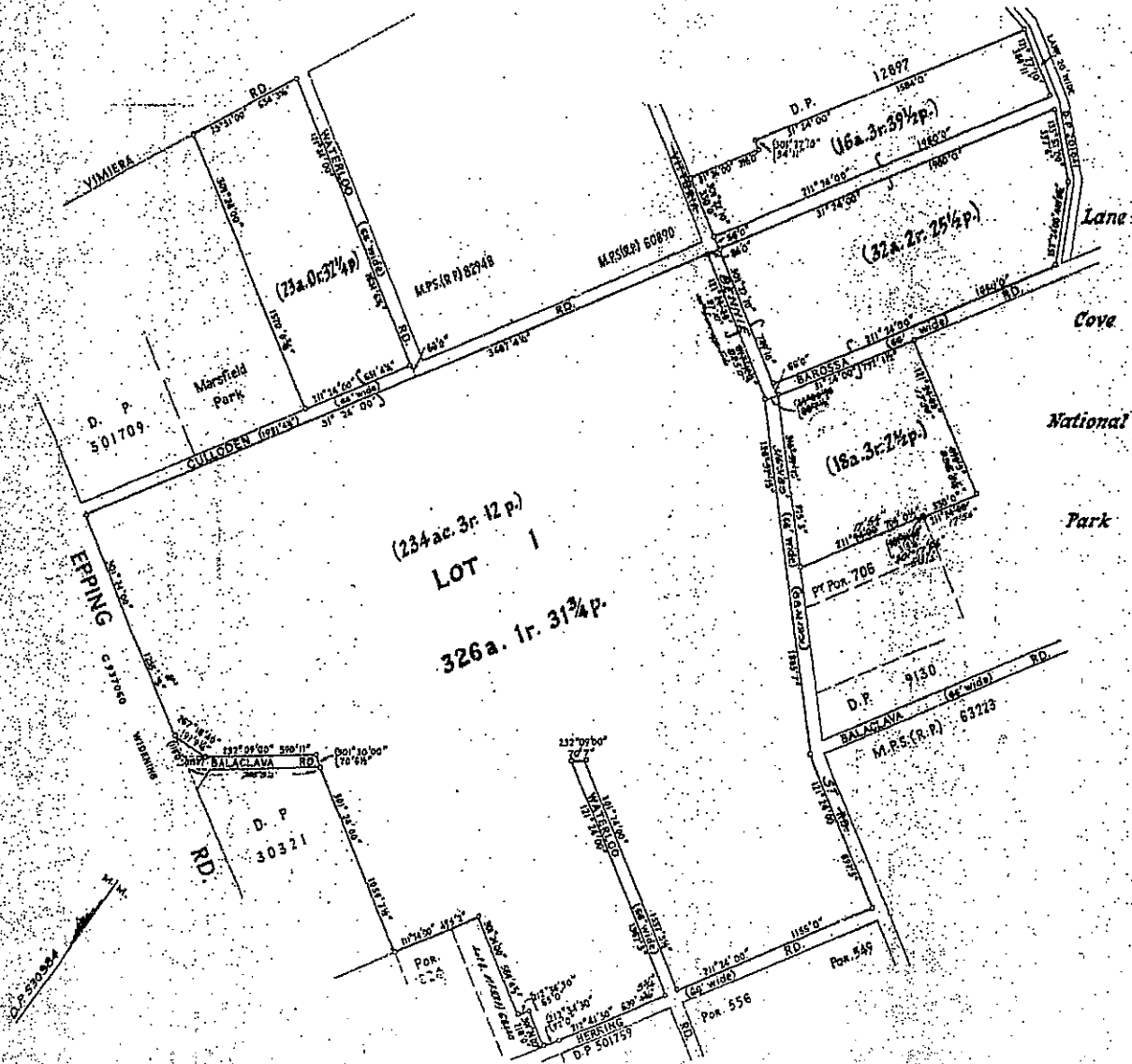


PLAN SHOWING LOCATION OF LAND



Q473372

REGISTERED PROPRIETOR

FIRST SCHEDULE (continued)

NATURE INSTRUMENT NUMBER DATE

ENTERED Signature of Registrar General

DP/SP 700315 Registered 16-1-1984

This folio is cancelled as to whole/part upon creation of computer folios for lots 1, 2 & 13 in the above mentioned plan.

Registrar General



SECOND SCHEDULE (continued)

NATURE INSTRUMENT NUMBER DATE

PARTICULARS

ENTERED Signature of Registrar General

CANCELLATION

This deed is cancelled as to whole/part on 24.2.1984

New certificates of title have issued on 24.2.1984 for lots in 20/100/100 Plan No. 700315 as follows: Lots 1, 2 & 13 Vol. 15191 fol. 86 to 89, respectively

Lots 1, 2, 8, 11

Registrar General



1/3 of land in this folio comprises

land in DP 576215, PS 576496, & DP 611720.

Registrar General



NOTICE: ENTRIES RULED THROUGH AND UNINITIATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 8665-1

SEARCH DATE	TIME	EDITION NO	DATE
18/12/2007	2:53 PM	2	20/11/2007

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS

AT MACQUARIE PARK
LOCAL GOVERNMENT AREA RYDE
PARISH OF HUNTERS HILL COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1112777

FIRST SCHEDULE

THE MACQUARIE UNIVERSITY

SECOND SCHEDULE (35 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 LAND EXCLUDES MINERALS BY GOVT. GAZS. DATED 15.12.1967 FOL 4767 & 8.3.1968 FOL 916 AFFECTING THE PART(S) OF LOT 182 IN DP1112777 SHOWN SO INDICATED IN THE TITLE DIAGRAM
- 3 LAND EXCLUDES MINERALS BY CROWN GRANTS AFFECTING THE PART(S) OF LOT 182 IN DP1112777 SHOWN SO INDICATED IN THE TITLE DIAGRAM
- 4 THE LAND ABOVE DESCRIBED IS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN DP1112777 AS REGARDS LOT 182
- 5 2207276 COVENANT
- 6 5785859 COVENANT
- 7 C971385 COVENANT AFFECTING THE PART OF LOT 182 IN DP1112777 SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 8 D348523 COVENANT AFFECTING THE PART OF LOT 182 IN DP1112777 SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 9 DP1015627 EASEMENT FOR SUBSTATION PREMISES AFFECTING THE PART(S) OF LOT 182 IN DP1112777 SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 10 DP1015627 EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE AFFECTING THE PART(S) OF LOT 182 IN DP1112777 SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 11 N457652 EASEMENT FOR DRAINAGE 2 WIDE AFFECTING THE PART(S) OF LOT 182 IN DP1112777 SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 12 DP858135 RIGHT OF FOOTWAY 3 WIDE & VARIABLE APPURTENANT TO THE LAND ABOVE DESCRIBED
- 13 5525606 LEASE TO ING INDUSTRIAL CUSTODIAN PTY LIMITED (SEE 7780116, 8584903 AND 8754723) OF PART BEING LOT 11 IN DP879843. EXPIRES: 26/10/2097.
- 7780119 LEASE OF LEASE 5525606 TO PHARMACEUTICAL

END OF PAGE 1 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 8665-1

PAGE 2

SECOND SCHEDULE (35 NOTIFICATIONS) (CONTINUED)

- 7967611 PROFESSIONALS (ASIA PACIFIC) PTY LTD OF SUITE 2,
SECOND FLOOR OF THE BUILDING KNOWN AS BECTON
DICKINSON BUILDING, MACQUARIE UNIVERSITY RESEARCH
PARK NORTH RYDE. EXPIRES: 14/11/2006.
- 8304908 LEASE OF LEASE 5525606 TO MACQUARIE RESEARCH
LIMITED OF SUITE 301 IN THE BUILDING KNOWN AS THE
BECTON DICKINSON BUILDING, MACQUARIE UNIVERSITY
RESEARCH PARK, NORTH RYDE.. EXPIRES: 31/5/2009.
OPTION OF RENEWAL: 6 YEARS AND 4 YEARS
RESPECTIVELY.
- AA547851 LEASE OF LEASE 5525606 TO BECTON DICKINSON PTY
LIMITED OF GROUND FLOOR AND FIRST FLOOR, BECTON
DICKINSON BUILDING, MACQUARIE UNIVERSITY, NORTH
RYDE. EXPIRES: 14/3/2009. OPTION OF RENEWAL: 6
YEARS WITH 1 FURTHER OPTION OF 4 YEARS.
- AB940882 LEASE OF LEASE 5525606 TO APPRENTICES-TRAINEES
EMPLOYMENT LIMITED OF SUITE 4, LEVEL 2, BECTON
DICKINSON BUILDING, 4 RESEARCH DRIVE, NORTH RYDE.
EXPIRES: 10/10/2006. OPTION OF RENEWAL: 3 YEARS.
- AC914801 LEASE OF LEASE 5525606 TO COVANCE PTY LIMITED OF
LEVEL 3, 4 RESEARCH PARK DRIVE, MACQUARIE
UNIVERSITY RESEARCH PARK, NORTH RYDE. EXPIRES:
11/4/2011. OPTION OF RENEWAL: 6 YEARS.
- AD85578 LEASE OF LEASE 5525606 TO MACQUARIE CHRISTIAN
STUDIES INSTITUTE LTD OF SUITE 2.03, LEVEL 2, 4
RESEARCH PARK DRIVE, MACQUARIE UNIVERSITY RESEARCH
PARK, NORTH RYDE. EXPIRES: 24/9/2011. OPTION OF
RENEWAL: 5 YEARS.
- AD151422 LEASE OF LEASE 5525606 TO VOICE PROJECT PTY LTD
OF SUITE 2.04, LEVEL 2, 4 RESEARCH PARK DRIVE,
MACQUARIE UNIVERSITY RESEARCH PARK, NORTH RYDE.
EXPIRES: 15/4/2012. OPTION OF RENEWAL: 5 YEARS.
- 14 5626148 VARIATION OF LEASE AD85578
LEASE TO MURPX NO.1 PTY LIMITED & MURPX NO.2 PTY
LIMITED OF PART BEING LOT 10 IN DP879843. EXPIRES:
27/2/2008.
- 5666543 LEASE OF LEASE 5626148 TO SIEMENS LIMITED.
EXPIRES: 4/3/2009. OPTION OF RENEWAL: 4 YEARS WITH
1 FURTHER PERIOD OF 4 YEARS.
- 5673896 MORTGAGE OF LEASE 5626148 TO WESTPAC BANKING
CORPORATION
- 15 6946114 LEASE TO TALAVERA HERRING PTY LIMITED & CHALLENGER
LISTED INVESTMENTS LIMITED OF LOT 14 IN DP884150.
EXPIRES: 15/12/2008. (SEE AC550884, AC690715)
- AC690713 SURRENDER OF SUBLEASE 7037128 AS REGARDS PART
BEING SUBSTATION PREMISES NO 6154, DESIGNATED (P)

END OF PAGE 2 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 8665-1

PAGE 3

SECOND SCHEDULE (35 NOTIFICATIONS) (CONTINUED)

-
- IN PLAN WITH AC690713
- 7037128 LEASE OF LEASE 6946114 TO GF GROUP SERVICES PTY
LIMITED EXPIRES: 16/12/2009. OPTION OF RENEWAL: 5
YEARS WITH FURTHER 5 YEARS OPTION.
- AC690714 LEASE OF LEASE 6946114 TO ENERGIAUSTRALIA OF PART
BEING SUBSTATION PREMISES NO 6154, TOGETHER WITH
RIGHT OF WAY & EASEMENT DESIGNATED (E) IN PLAN WITH
AC690714. EXPIRES: 31/8/2050.
- AC550885 VARIATION OF LEASE 7037128
- AC700758 VARIATION OF LEASE 6946114
- 16 7073235 LEASE TO PERPETUAL NOMINEES LIMITED OF LOT 15 IN
DP1015627. EXPIRES: 17/8/2099.
- 7073236 LEASE OF LEASE 7073235 TO DOW CORNING AUSTRALIA
PTY LIMITED OF PREMISES BEING PART OF THE MID-LEVEL
BASEMENT, GROUND & LEVEL 1 SHOWN HATCHED IN PLANS
MARKED 'A', 'B' & 'C' IN 7073236. EXPIRES:
17/8/2010. OPTION OF RENEWAL: 2 TERMS OF 5 YEARS.
- AA532629 LEASE OF LEASE 7073235 TO ENERGIAUSTRALIA OF
SUBSTATION PREMISES 7740 TOGETHER WITH RIGHT OF WAY
DESIGNATED (R) & EASEMENT DESIGNATED (C) AFFECTING
ANOTHER PART OF THE LAND SHOWN IN PLAN WITH
AA532629. EXPIRES: 31/12/2051.
- AB60214 LEASE OF LEASE 7073236 TO EIFFEL TECHNOLOGIES
LIMITED OF SUITE 1A, GROUND FLOOR, DOW CORNING
BUILDING, 3 INNOVATION ROAD, NORTH RYDE. EXPIRES:
31/3/2006. OPTION OF RENEWAL: 2 YEARS.
- AB782239 LEASE OF LEASE 7073235 TO EMC GLOBAL HOLDINGS
COMPANY OF THE WHOLE OF THE THIRD FLOOR. EXPIRES:
30/6/2010. OPTION OF RENEWAL: 5 YEARS.
- AB782240 LEASE OF LEASE 7073235 TO EMC GLOBAL HOLDINGS
COMPANY OF THE WHOLE OF THE SECOND FLOOR. EXPIRES:
30/6/2010. OPTION OF RENEWAL: 5 YEARS.
- AA899464 MORTGAGE OF LEASE 7073235 TO NATIONAL AUSTRALIA
BANK LIMITED
- 17 7294068 LEASE TO HUTCHISON TELECOMMUNICATIONS (AUSTRALIA)
LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 7294068
COMMENCES 6/3/2005. EXPIRES: 5/3/2010.
- 9989367 VARIATION OF LEASE 7294068
- AD302350 TRANSFER OF LEASE 7294068 LESSEE NOW ACN 124 348
670 PTY LIMITED
- AD302351 TRANSFER OF LEASE 7294068 LESSEE NOW CROWN CASTLE
AUSTRALIA PTY LIMITED
- 18 7294069 LEASE TO HUTCHISON TELECOMMUNICATIONS (AUSTRALIA)
LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 7294069
COMMENCES 6/3/2010. EXPIRES: 5/3/2015.
- 9989368 VARIATION OF LEASE 7294069

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

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PAGE 4

SECOND SCHEDULE (35 NOTIFICATIONS) (CONTINUED)

- AD302350 TRANSFER OF LEASE 7294069 LESSEE NOW ACN 124 348
670 PTY LIMITED
- AD302351 TRANSFER OF LEASE 7294069 LESSEE NOW CROWN CASTLE
AUSTRALIA PTY LIMITED
- 19 7294070 LEASE TO HUTCHISON TELECOMMUNICATIONS (AUSTRALIA)
LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 7294070
COMMENCES 6/3/2015. EXPIRES: 5/3/2020.
- 9989369 VARIATION OF LEASE 7294070
- AD302350 TRANSFER OF LEASE 7294070 LESSEE NOW ACN 124 348
670 PTY LIMITED
- AD302351 TRANSFER OF LEASE 7294070 LESSEE NOW CROWN CASTLE
AUSTRALIA PTY LIMITED
- 20 7604074 LEASE TO JEBGO PTY LIMITED OF PART OF MACQUARIE
UNIVERSITY SPORTS ASSOCIATION GYMNASIUM, GYMNASIUM
ROAD, MACQUARIE UNIVERSITY AS SHOWN IN PLAN WITH
7604074. EXPIRES: 8/10/2005. OPTION OF RENEWAL: 5
YEARS.
- 21 7971449 LEASE TO WENTWORTH AVE MOTEL PTY LIMITED OF LOT 10
IN DP1002910. EXPIRES: 30/6/2099.
- AC370636 LEASE OF LEASE 7971449 TO VALUE LODGING PTY
LIMITED EXPIRES: 30/3/2015. OPTION OF RENEWAL: 10
YEARS.
- 8172159 MORTGAGE OF LEASE 7971449 TO WESTPAC BANKING
CORPORATION
- AB811586 MORTGAGE OF LEASE 7971449 TO WESTPAC BANKING
CORPORATION
- AC370637 VARIATION OF LEASE AC370636 EXPIRY DATE NOW
29/6/2010
- 22 8067766 LEASE TO MACQUARIE UNIVERSITY UNION LIMITED OF THE
GUMNUT CHILDCARE CENTRE BUILDING, MACQUARIE UNIVERSITY,
NORTH RYDE. EXPIRES: 31/12/2019. OPTION OF RENEWAL: 20
YEARS.
- * AD591089 TRANSFER OF LEASE 8067766 LESSEE NOW U&MQ LIMITED
- 23 8067767 LEASE TO MACQUARIE UNIVERSITY UNION LIMITED OF THE
SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE.
EXPIRES: 31/12/2019. OPTION OF RENEWAL: 20 YEARS.
- 8184715 LEASE OF LEASE 8067767 TO ELIZABETH SHAKEN
YEGHYKIAN (SEE 8205029) OF PHARMACY SHOP, LEVEL 1,
SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE.
EXPIRES: 20/9/2006. OPTION OF RENEWAL: 5 YEARS.
- AB377890 LEASE OF LEASE 8067767 TO NATIONAL AUSTRALIA BANK
LIMITED OF NATIONAL AUSTRALIA BANK, LEVEL 0 MARKET
PLACE, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH
RYDE. EXPIRES: 31/5/2008. OPTION OF RENEWAL: 5
YEARS.
- AB577359 LEASE OF LEASE 8067767 TO UNIVERSITY CO-OPERATIVE

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 8665-1

PAGE 5

SECOND SCHEDULE (35 NOTIFICATIONS) (CONTINUED)

- BOOKSHOP LIMITED OF BOOKSHOP AND MULTI MEDIA CENTRE, LEVEL 1 AND STORE ROOM, LEVEL 0, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE. EXPIRES: 31/12/2011. OPTION OF RENEWAL: 8 YEARS LESS ONE DAY.
- AB577378 LEASE OF LEASE 8067767 TO M.B. DEVELOPMENTS PTY LIMITED OF DENTAL SURGERY OF LEVEL 0, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE. EXPIRES: 31/12/2008. OPTION OF RENEWAL: 5 YEARS.
- AB707911 LEASE OF LEASE 8067767 TO QUICKI SMOOTHI BARS PTY LIMITED OF FRUJU, LEVEL 1, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE. EXPIRES: 31/8/2009. OPTION OF RENEWAL: 5 YEARS.
- AC787258 LEASE OF LEASE 8067767 TO STA TRAVEL PTY LIMITED OF LOCK-UP SHOP KNOWN AS STA TRAVEL AGENCY, LEVEL 1, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE. EXPIRES: 31/5/2011.
- AC879600 LEASE OF LEASE 8067767 TO GULCIN OZKAN OF FOOD OUTLET, THE QUARRY FOOD COURT, LEVEL 1 AND STOREROOM, LEVEL 0, SAM BUILDING, MACQUARIE UNIVERSITY, NORTH RYDE. EXPIRES: 31/7/2009. OPTION OF RENEWAL: 3 YRS.
- * AD591090 TRANSFER OF LEASE 8067767 LESSEE NOW UQM LIMITED
- 24 9478584 LEASE TO MACQUARIE UNIVERSITY UNION LIMITED OF PART OF THE BUILDING KNOWN AS E3A/ INTERNATIONAL BUILDING, MACQUARIE UNIVERSITY, SHOWN HATCHED IN PLAN (PAGE 44) WITH 9478584. EXPIRES: 1/7/2011. OPTION OF RENEWAL: 10 YEARS.
- * AD591091 TRANSFER OF LEASE 9478584 LESSEE NOW UQM LIMITED
- 25 9668644 LEASE TO GF GROUP SERVICES PTY LIMITED OF CAR SPACE NUMBER 1 TO 400 OF PART OF LEVELS 1, 2 AND 3, IN BUILDING F5A/B LOCATED AT MACQUARIE UNIVERSITY, SHOWN HATCHED IN PLAN (PAGES 23 TO 25) WITH 9668644. EXPIRES: 16/12/2007. OPTION OF RENEWAL: 2 YEARS AND WITH 2 FUTHER OPTIONS OF 5 YEARS.
- 26 AA589811 LEASE TO TELSTRA CORPORATION LIMITED OF THE WORKS AREA SHOWN HATCHED BLACK IN PLAN B WITH AA589811. EXPIRES: 31/7/2008.
- 27 AA589812 LEASE TO TELSTRA CORPORATION LIMITED OF THE WORKS AREA SHOWN HATCHED BLACK IN PLAN B WITH AA589811. COMMENCES 1/8/2008. EXPIRES: 31/7/2013.
- 28 AA589813 LEASE TO TELSTRA CORPORATION LIMITED OF THE WORKS AREA SHOWN HATCHED BLACK IN PLAN B WITH AA589811. COMMENCES 1/8/2013. EXPIRES: 31/7/2018.
- 29 AC363118 LEASE TO ENERGYAUSTRALIA OF SUB STATION PREMISES NO. 8450 DESIGNATED (P) TOGETHER WITH RIGHT OF WAY

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: AUTO CONSOL 8665-1

PAGE 6

SECOND SCHEDULE (35 NOTIFICATIONS) (CONTINUED)

- DESIGNATED (R) AND EASEMENT FOR ELECTRICITY (E1) SHOWN
IN DP1089928. EXPIRES: 30/11/2055.
- 30 AC363119 LEASE TO ENERGIAUSTRALIA OF SUBSTATION PREMISES 1796
TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY
PURPOSES AFFECTING THE PART DESIGNATED (C) IN PLAN WITH
AC363119. EXPIRES: 30/4/2026.
- 31 U149333 LEASE TO COMMONWEALTH SCIENTIFIC AND INDUSTRIAL
RESEARCH ORGANISATION OF PART BEING E6B SHOWN HATCHED
IN PLAN WITH U149333. EXPIRES 28.2.2043
- 32 DP1002910 RIGHT OF CARRIAGEWAY 6 METRE(S) WIDE AND VARIABLE
AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE
DIAGRAM APPURTENANT TO THE PART FORMERLY COMPRISED IN
LOT10 DP1002910
- 33 DP1015627 RIGHT OF WAY 4 WIDE AFFECTING THE PART SHOWN SO
BURDENED IN THE TITLE DIAGRAM
- * 34 AD19420 CAVEAT BY ENERGIAUSTRALIA
- * AD441295 CAVEATOR CONSENTED
- 35 AD441295 LEASE TO CAMPUS LIVING FUNDS MANAGEMENT LIMITED OF
LOT 181 KNOWN AS MACQUARIE UNIVERSITY VILLAGE, 22
CULLODEN ROAD, RYDE. EXPIRES: 31/12/2035.
- AD501938 LEASE OF LEASE AD441295 TO CAMPUS LIVING
ACCOMMODATION COMPANY LIMITED EXPIRES: 31/12/2010.
- * AD602914 MORTGAGE OF LEASE AD501938 TO NATIONAL AUSTRALIA
TRUSTEES LIMITED
- * AD602915 MORTGAGE OF LEASE AD441295 TO NATIONAL AUSTRALIA
TRUSTEES LIMITED

NOTATIONS

DP269297 NOTE: PLAN OF PROPOSED RIGHT OF CARRIAGEWAY AFFECTING LOT
182 IN DP1112777

DP269228 NOTE: PLAN OF PROPOSED RESEMENT FOR WATER SUPPLY AFFECTING
LOT 182 IN DP1112777

DP269858 NOTE: PLAN IS FOR PROPOSED RIGHT OF CARRIAGEWAY AFFECTING
LOT 182 IN DP1112777

DP1022219 NOTE: PLAN OF PROPOSED EASEMENT (S) AFFECTING LOT 182 IN
DP1112777

DP1027394 NOTE: PLAN IS FOR LEASE PURPOSES AFFECTING LOT 182 IN
DP1112777

DP1045836 NOTE: PLAN FOR LEASE PURPOSES BEING SUBSTATION PREMISES NO
4873 AFFECTING LOT 182 IN DP1112777

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 181-182 IN DP1112777.

*** END OF SEARCH ***

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Photo 1: Aerial Photograph 1930

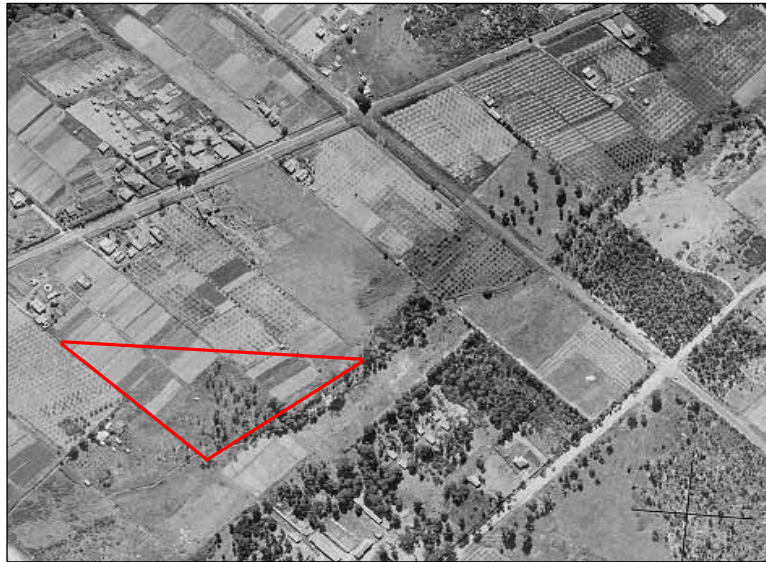


Photo 2: Aerial Photograph: 1943

Phase 1 Contamination Assessment
Macquarie University
South Precinct

Project
45298.01

January
2008

Plate
1



Photo 3: Aerial Photograph 1951



Photo 4: Aerial Photograph 1961

Preliminary Contamination Assssment
Macquarie University
South Precinct

Project
45298.01

January
2008

Plate
2

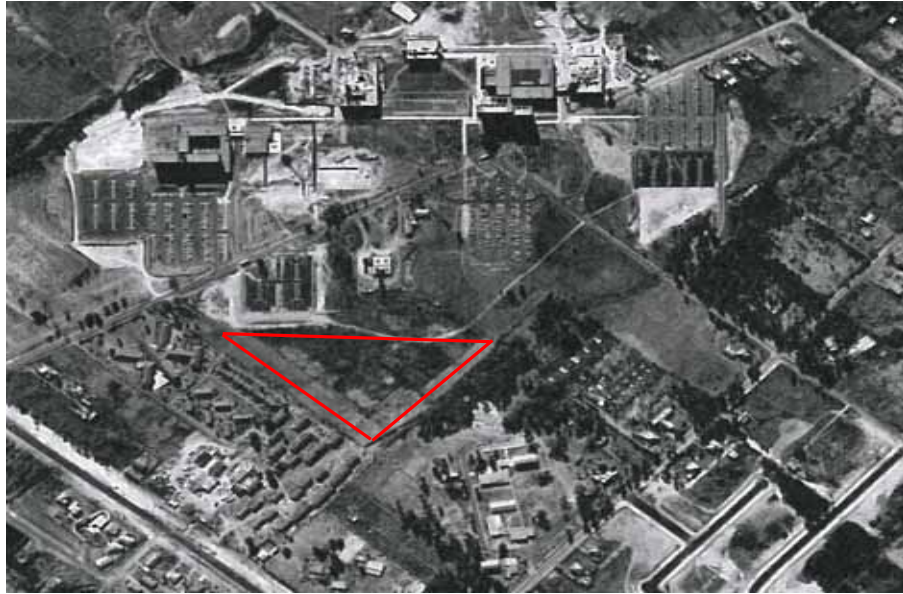


Photo 5: Aerial Photograph 1970



Photo 6: Aerial Photograph 1986

Preliminary Contamination Assessment
Macquarie University
South Precinct

Project
45298.01

January
2008

Plate
3



Photo 7: Aerial Photograph 2006

Preliminary Contamination Assessment
Macquarie University
South Precinct

Project
45298.01

January
2008

Plate
4

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DX 8403 Ryde
Facsimile 9952 8070
Telephone 9952 8222

City of Ryde



**PLANNING CERTIFICATE UNDER
SECTION 149 ENVIRONMENTAL PLANNING
AND ASSESSMENT ACT, 1979**

Cert No: 23885
Date: 19/12/2007
Receipt No: 1187988
Reference:

Applicant: Galia Nikolaeva
96 Hermitage Road
WEST RYDE NSW 2114

DOUGLAS PARTNERS

2 JAN 2008

Property: 136 Culloden Road, MACQUARIE PARK
Description: LOT: 181 DP: 1112777

Ppty Ref: 51690

INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ACT.

1. NAMES OF RELEVANT LOCAL ENVIRONMENTAL PLANS, DRAFT LOCAL ENVIRONMENTAL PLANS, DEVELOPMENT CONTROL PLANS, STATE ENVIRONMENTAL PLANNING POLICIES AND REGIONAL ENVIRONMENTAL PLANS APPLYING TO THE LAND

a) LOCAL ENVIRONMENTAL PLAN AND DEEMED ENVIRONMENTAL PLANNING INSTRUMENTS

Ryde Planning Scheme - 1 June 1979 as amended

b) DRAFT LOCAL ENVIRONMENTAL PLANS as exhibited under Section 66(1) (b) of the Act

Nil.

c) DEVELOPMENT CONTROL PLANS

City of Ryde Development Control Plan 2006.

d) STATE AND REGIONAL ENVIRONMENTAL PLANNING POLICIES AND INSTRUMENTS (includes Draft Policies)

The Minister for Planning has notified Council that the following State Environmental Planning Policies and Regional Environmental Plans apply to the land and should be specified in this certificate:

State Environmental Planning Policies

State Environmental Planning Policy No. 1 - Development Standards.

State Environmental Planning Policy No. 4 - Development Without Consent and Miscellaneous Exempt and Complying Development.

State Environmental Planning Policy No. 6 - Number of Storeys in a Building

State Environmental Planning Policy No. 8 - Surplus Public Land.

State Environmental Planning Policy No. 9 - Group Homes.

State Environmental Planning Policy No. 10 - Retention of Low Cost Rental Accommodation (as amended).

State Environmental Planning Policy No. 11 - Traffic Generating Developments.

State Environmental Planning Policy No. 16 - Tertiary Institutions.

State Environmental Planning Policy No. 22 - Shops and Commercial Premises (as amended).

State Environmental Planning Policy No. 19 - Bushland in Urban Areas

State Environmental Planning Policy No. 21 - Caravan Parks.

State Environmental Planning Policy No. 32 - Urban Consolidation.

State Environmental Planning Policy No. 33 - Hazardous and Offensive Development

State Environmental Planning Policy No. 48 - Major Putrescible Land Fill Sites

State Environmental Planning Policy No. 50 - Canal Estate Development

State Environmental Planning Policy No. 55 - Remediation of Land.

State Environmental Planning Policy No. 62 - Sustainable Aquaculture.

State Environmental Planning Policy No. 63 - Major Transport Projects

State Environmental Planning Policy No. 64 - Advertising and Signage.

State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development.

State Environmental Planning Policy No. 70 - Affordable Housing (Revised Schemes)

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 (as amended)

State Environmental Planning Policy (ARTC Rail Infrastructure) Amendment 2005.

State Environmental Planning Policy (Temporary Structures and Places of Public Entertainment) 2007.

State Environmental Planning Policy (Repeal of Concurrence and Referral Provisions) 2004

State Environmental Planning Policy (Sydney Metropolitan Water Supply) 2004 (as amended)

State Environmental Planning Policy (Major Projects) 2005 (as amended)

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

Draft State Environmental Planning Policy No. 66- Integration of Land Use and Transport 2001 Development Standards)2004.

Draft State Environmental Planning Policy (Application of Development Standards) 2004

Draft State Environmental Planning Policy (Infrastructure) 2006.

Regional Environmental Plans

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005.

2. ZONING AND LAND USE UNDER RELEVANT LOCAL ENVIRONMENTAL PLANS

For each local environmental plan and deemed environmental planning instrument applying to the land that includes the land in any zone (however described):-

(a) ZONING

Special Uses 'C' - University

Reserved for County Road Widening

(b) ZONING TABLE

The purposes for which development may or may not be carried out in accordance with the above Zone are as follows:-

Special Uses 'C' - University

PURPOSES PERMISSIBLE WITHOUT CONSENT

Nil

PURPOSES PERMISSIBLE WITH CONSENT

Agriculture; drainage; dwelling-houses; hospitals; open space; places of public worship; purposes ordinarily incidental or subsidiary to university purposes; roads; service stations; telecommunications facilities; university colleges; university hostels; universities; utility installations (other than gas holders or generating works)

PURPOSES PROHIBITED

Any purpose other than those permissible with consent.

Reserved for County Road Widening

Enquiries regarding this reservation should be directed to the Roads and Traffic Authority Council may, with the consent of the Commissioner for Main Roads, consent to the erection of a building, the carrying out or alteration of a work of a permanent character or the making or altering of a permanent excavation, where, in Council's opinion, the purpose for which the land is reserved cannot be carried into effect within a reasonable time

No development which would spoil or waste land so as to render it unfit for the purpose for which it is reserved is permitted.

Environmentally Sensitive Land

The land has been identified by Council as being 'environmentally sensitive land'. The use of exempt and complying development provisions within Local Environmental Plan No.116 gazetted on the 25 November 2005 may be restricted.

A map identifying all such land and known as 'Environmentally Sensitive Areas For Exempt and Complying Development' is available for viewing at Council's Customer Service Centre.

(c) DEVELOPMENT STANDARDS FOR THE ERECTION OF A DWELLING HOUSE

The Ryde Planning Scheme Ordinance provides that a dwelling house shall not be erected on an allotment of land within any residential zone unless the allotment has a minimum area of 740sq.m (exclusive of access corridor) and a minimum 3m wide road frontage and access corridor width for hatchet-shaped allotments. A minimum area of 580sq.m, a minimum road frontage of 10m and a minimum width of 15m at a distance of 7.5m from the road alignment is required for other allotments.

(d) CRITICAL HABITAT

NO. The land does not include or comprise critical habitat under the Ryde Planning Scheme.

(e) CONSERVATION AREA (however described)

NO. The land has not been identified as being within a heritage conservation area under the Ryde Planning Scheme.

(f) ITEMS OF ENVIRONMENTAL HERITAGE (however described)

NO. An item of environmental heritage under the Ryde Planning Scheme is not situated on the land.

OTHER PRESCRIBED INFORMATION

3. COASTAL PROTECTION

Whether or not the land is affected by the operation of section 38 or 39 of the Coastal Protection Act 1979, but only to the extent that the council has been so notified by the Department of Public Works

The land is not affected by the operation of section 38 or 39 of the Coastal Protection Act 1979.

4. MINE SUBSIDENCE

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

The land has not been proclaimed to be a mine subsidence district within the meaning of Section 15 of the Mine Subsidence Compensation Act, 1961.

5. ROAD WIDENING AND ROAD REALIGNMENT

Whether or not the land is affected by any road widening

The land is affected by road widening or road realignment under;

(a) Division 2 of Part 3 of the Roads Act 1993; - NO

(b) any environmental planning instrument; - YES

(c) any resolution of Council; - NO

6. COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

Whether or not the land is affected by a policy adopted by the council, or adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by council, that restricts the development because of the likelihood of:

(i) landslip NO

- | | |
|---|-----|
| (ii) bush fire | YES |
| (iii) tidal inundation | NO |
| (iv) subsidence | YES |
| (v) acid sulphate soil | NO |
| (vi) any other risk (other than flooding) | NO |

Note: The fact that land has not been identified as being affected by a policy to restrict development because of the risks referred to does not mean that the risk is non-existent.

6A. FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

- (1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls. YES
- (2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls. YES
- (3) Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.

7. LAND RESERVED FOR ACQUISITION

Whether or not any environmental planning instrument, deemed planning instrument or draft environmental planning instrument applying to the land provides for the acquisition of the land by a public authority, as referred to in section 27 of the Act

The Ryde Planning Scheme Ordinance provides for the acquisition of reserved land by a public authority as referred to Section 27 of the Environmental Planning and Assessment Act 1979.

8. CONTRIBUTIONS PLAN

The name of each contributions plan applying to the land:

City of Ryde Section 94 Development Contributions Plan 2007

9. BUSH FIRE PRONE LAND

The land described in this certificate is bush fire prone land in accordance with the Environmental Planning and Assessment Act, 1979.

10. MATTERS ARISING UNDER THE CONTAMINATED LAND MANAGEMENT ACT 1997

(a) The land to which this certificate relates IS NOT within land declared to be an investigation area or remediation site under Part 3 of the Act.

(b) The land to which this certificate relates IS NOT subject to an investigation order or a remediation order within the meaning of the Act.

(c) The land to which this certificate relates IS NOT the subject of a voluntary investigation proposal (or voluntary remediation proposal) the subject of the EPA's agreement under section 19 or 26 of the Act.

(d) The land to which this certificate relates IS NOT the subject of a site audit statement within the meaning of Part 4 of the Act.

11. PROPERTY VEGETATION PLANS

The land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

12. ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

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

13. DIRECTIONS UNDER PART 3A

There is no direction in force under section 75P (2)(c1) of the Environmental Planning and Assessment Act 1979.

14. SENIORS HOUSING

There has not been any development consent granted since 12 October 2007 for development to which State Environment Planning Policy (Housing for Seniors or People with a Disability) 2004 applies.

Please Read This Important Information

(i) Pursuant to Section 149(5) of the Environmental Planning and Assessment Act 1979, the City of Ryde may provide advice on additional matters affecting the land of which it maybe aware. You are advised that information on either heritage, endangered or inadequately conserved bushland, draft Development Control Plans, Master Plans or other relevant matters, applies to the land and is available on the 149(5) Certificate for the land.

(ii) Section 149(5) Certificates under the Environmental Planning and Assessment Act 1979, contain all the information under Section 149(2) and as such, an application and fee for a combined 149 Certificate must be applied for.

The information in this certificate is current as of the date of the certificate.

A large, elegant handwritten signature in black ink, consisting of a long, sweeping horizontal line that curves upwards at the end.

Sue Weatherley
Group Manager – Environment and Planning

A smaller, more stylized handwritten signature in black ink, appearing to be a series of connected loops and strokes.

Locked Bag 2069, North Ryde NSW 1670
DX 8403 Ryde
Facsimile 9952 8070
Telephone 9952 8222

City of Ryde



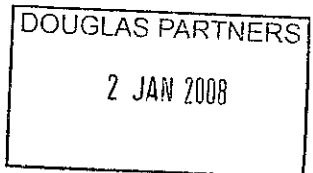
**PLANNING CERTIFICATE UNDER
SECTION 149 ENVIRONMENTAL PLANNING
AND ASSESSMENT ACT, 1979**

Cert No: 23886
Date: 19/12/2007
Receipt No: 1187988
Reference:

Applicant: Galia Nikolaeva
96 Hermitage Road
WEST RYDE NSW 2114

Property: 192 Balaclava Road, MACQUARIE PARK
Description: LOT: 182 DP: 1112777

Ppty Ref: 51691



INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ACT.

1. NAMES OF RELEVANT LOCAL ENVIRONMENTAL PLANS, DRAFT LOCAL ENVIRONMENTAL PLANS, DEVELOPMENT CONTROL PLANS, STATE ENVIRONMENTAL PLANNING POLICIES AND REGIONAL ENVIRONMENTAL PLANS APPLYING TO THE LAND

a) LOCAL ENVIRONMENTAL PLAN AND DEEMED ENVIRONMENTAL PLANNING INSTRUMENTS

Ryde Planning Scheme - 1 June 1979 as amended

b) DRAFT LOCAL ENVIRONMENTAL PLANS as exhibited under Section 66(1) (b) of the Act

Nil.

c) DEVELOPMENT CONTROL PLANS

City of Ryde Development Control Plan 2006.

d) STATE AND REGIONAL ENVIRONMENTAL PLANNING POLICIES AND INSTRUMENTS (includes Draft Policies)

The Minister for Planning has notified Council that the following State Environmental Planning Policies and Regional Environmental Plans apply to the land and should be specified in this certificate:

State Environmental Planning Policies

State Environmental Planning Policy No. 1 - Development Standards.

State Environmental Planning Policy No. 4 - Development Without Consent and Miscellaneous Exempt and Complying Development.

State Environmental Planning Policy No. 6 - Number of Storeys in a Building

State Environmental Planning Policy No. 8 - Surplus Public Land.

State Environmental Planning Policy No. 9 - Group Homes.

State Environmental Planning Policy No. 10 - Retention of Low Cost Rental Accommodation (as amended).

State Environmental Planning Policy No. 11 - Traffic Generating Developments.

State Environmental Planning Policy No. 16 - Tertiary Institutions.

State Environmental Planning Policy No. 22 - Shops and Commercial Premises (as amended).

State Environmental Planning Policy No. 19 - Bushland in Urban Areas

State Environmental Planning Policy No. 21 - Caravan Parks.

State Environmental Planning Policy No. 32 - Urban Consolidation.

State Environmental Planning Policy No. 33 - Hazardous and Offensive Development

State Environmental Planning Policy No. 48 - Major Putrescible Land Fill Sites

State Environmental Planning Policy No. 50 - Canal Estate Development

State Environmental Planning Policy No. 55 - Remediation of Land.

State Environmental Planning Policy No. 62 - Sustainable Aquaculture.

State Environmental Planning Policy No. 63 - Major Transport Projects

State Environmental Planning Policy No. 64 - Advertising and Signage.

State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development.

State Environmental Planning Policy No. 70 - Affordable Housing (Revised Schemes)

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 (as amended)

State Environmental Planning Policy (ARTC Rail Infrastructure) Amendment 2005.

State Environmental Planning Policy (Temporary Structures and Places of Public Entertainment) 2007.

State Environmental Planning Policy (Repeal of Concurrence and Referral Provisions) 2004

State Environmental Planning Policy (Sydney Metropolitan Water Supply) 2004 (as amended)

State Environmental Planning Policy (Major Projects) 2005 (as amended)

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

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For each local environmental plan and deemed environmental planning instrument applying to the land that includes the land in any zone (however described):-

(a) ZONING

Business Special - Mixed Activity

Special Uses 'C' - University

Reserved for Proposed County Road

(b) ZONING TABLE

The purposes for which development may or may not be carried out in accordance with the above Zone are as follows:-

Business Special - Mixed Activity

PURPOSES PERMISSIBLE WITHOUT CONSENT

Nil

PURPOSES PERMISSIBLE WITH CONSENT

Any purpose other than those referred to as prohibited

PURPOSES PROHIBITED

Brothels; caravan parks; car repair stations; gas holders; offensive or hazardous industries; industries referred to in Schedule 3 of the Ordinance; junk yards; liquid fuel depots; motor showrooms.

Special Uses 'C' - University

PURPOSES PERMISSIBLE WITHOUT CONSENT

Nil

PURPOSES PERMISSIBLE WITH CONSENT

Agriculture; drainage; dwelling-houses; hospitals; open space; places of public worship; purposes ordinarily incidental or subsidiary to university purposes; roads; service stations; telecommunications facilities; university colleges; university hostels; universities; utility installations (other than gas holders or generating works)

PURPOSES PROHIBITED

Any purpose other than those permissible with consent.

Reserved for Proposed County Road

Enquiries regarding this reservation should be directed to the Roads and Traffic Authority Council may, with the consent of the Commissioner for Main Roads, consent to the erection of a building, the carrying out or alteration of a work of a permanent character or the making or altering of a permanent excavation, where, in Council's opinion, the purpose for which the land is reserved cannot be carried into effect within a reasonable time

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The land has been identified by Council as being 'environmentally sensitive land'. The use of exempt and complying development provisions within Local Environmental Plan No.116 gazetted on the 25 November 2005 may be restricted.

A map identifying all such land and known as 'Environmentally Sensitive Areas For Exempt and Complying Development' is available for viewing at Council's Customer Service Centre.

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NO. The land does not include or comprise critical habitat under the Ryde Planning Scheme.

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YES. An item of environmental heritage under the Ryde Planning Scheme is situated on the land.

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Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

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Whether or not the land is affected by any road widening

The land is affected by road widening or road realignment under;

(a) Division 2 of Part 3 of the Roads Act 1993; - YES

(b) any environmental planning instrument; - YES

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Contact the Roads and Traffic Authority for further information.

6. COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

Whether or not the land is affected by a policy adopted by the council, or adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by council, that restricts the development because of the likelihood of:

(i) landslip NO

(ii) bush fire YES

(iii) tidal inundation NO

(iv) subsidence YES

(v) acid sulphate soil NO

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The information in this certificate is current as of the date of the certificate.
























Sue Weatherley
Group Manager – Environment and Planning













APPENDIX D
Test Bore report results

GRAPHIC SYMBOLS FOR SOIL & ROCK




SOIL

	BITUMINOUS CONCRETE
	CONCRETE
	TOPSOIL
	FILLING
	PEAT
	CLAY
	SILTY CLAY
	SANDY CLAY
	GRAVELLY CLAY
	SHALY CLAY
	SILT
	CLAYEY SILT
	SANDY SILT
	SAND
	CLAYEY SAND
	SILTY SAND
	GRAVEL
	SANDY GRAVEL
	CLAYEY GRAVEL
	COBBLES/BOULDERS
	TALUS





SEDIMENTARY ROCK

	BOULDER CONGLOMERATE
	CONGLOMERATE
	CONGLOMERATIC SANDSTONE
	SANDSTONE FINE GRAINED
	SANDSTONE COARSE GRAINED
	SILTSTONE
	LAMINITE
	MUDSTONE, CLAYSTONE, SHALE
	COAL
	LIMESTONE

METAMORPHIC ROCK

	SLATE, PHYLITTE, SCHIST
	GNEISS
	QUARTZITE

IGNEOUS ROCK

	GRANITE
	DOLERITE, BASALT
	TUFF
	PORPHYRY



BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: 67.2
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 1
PROJECT No: 45298.01
DATE: 11 Dec 07
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details
				Type	Depth	Sample	Results & Comments		
67	0.2	TOPSOIL - grey brown silty clay topsoil, with some gravel		A	0.1				Gatic cover
	0.5	FILLING - orange brown clay filling, with a trace of silt and fine ironstone gravel		A	0.5				Bentonite
	1	SILTY CLAY - very stiff, orange brown silty clay with ironstone bands, damp		A	1.0				
66	1.3	SANDSTONE - very low to low strength, light grey brown fine to medium grained sandstone		S	1.45		7,9,13 N = 22		
	2								
65	2.6	LAMINITE - medium strength, moderately to slightly weathered, fractured to slightly fractured, light grey brown laminite with approximately 20% sandstone laminations		S	2.5 2.53 2.6		26/30mm refusal		
	3								
64	3.25						PL(A) = 0.7MPa		
	4			C	4.1		PL(A) = 0.6MPa		Backfilled with gravel
	5	LAMINITE - low strength, slightly weathered, fractured to slightly fractured, grey laminite with some sandstone laminations							
63	5.0								
	5.4								
62	5.65						PL(A) = 0.2MPa		
	6	6.16-6.41m: extremely low strength bands		C	6.1		PL(A) = 0.2MPa		
61	6.63								
	6.75	LAMINITE - low to medium and medium strength, slightly weathered then fresh, fractured to slightly fractured, grey laminite with 50% sandstone laminations							
60	6.85								
	7								
	7.35						PL(A) = 0.3MPa		
	8								
59	8.1			C			PL(A) = 0.7MPa		
	8.56	LAMINITE - very high strength, fresh, slightly fractured, light grey to grey laminite							
	8.8						PL(A) = 3.1MPa		
58	9.2	SANDSTONE - medium strength, slightly weathered and fresh, slightly fractured, light grey fine grained sandstone							
	9.35						PL(A) = 0.8MPa		
	9.65			C	9.9				

RIG: DT 100

DRILLER: L Cooper

LOGGED: S Islam

CASING: HW to 2.5m

TYPE OF BORING: Solid flight auger (TC-bit) to 2.6m; NMLC - coring to 17.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Standpipe installed to 14.0m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	PP	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength ls(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	W	Water seep
		WL	Water level

CHECKED

Initials:

Date:



Douglas Partners
Geotechnics • Environment • Groundwater

BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: 67.2
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 1
PROJECT No: 45298.01
DATE: 11 Dec 07
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
57		SANDSTONE - medium strength, slightly weathered and fresh, slightly fractured, light grey fine grained sandstone (continued)			10.4		PL(A) = 0.6MPa			
10.7		SANDSTONE - high strength, fresh, slightly fractured and unbroken, light grey medium grained sandstone - medium to coarse grained, red from 10.7 to 11.0m			11.3		PL(A) = 1.4MPa		11	Backfilled with gravel
11				C	12.21		PL(A) = 1.3MPa		12	
12					12.9				13	Machine slotted PVC screen
13					13.52		PL(A) = 1.3MPa		14	End cap
14				C	14.56		PL(A) = 0.8MPa		15	
14.25		SANDSTONE - medium strength, fresh, fractured to slightly fractured, light grey medium grained sandstone, with very low strength bands			15.5		PL(A) = 1.4MPa		16	Backfilled with gravel
15					15.65					
15.22		SANDSTONE - high strength, fresh, slightly fractured to unbroken, light grey medium grained sandstone			16.25		PL(A) = 1.7MPa			
15.39				C						
16					17.0				17	
17	17.0	Bore discontinued at 17.0m								
18									18	
19									19	

RIG: DT 100

DRILLER: L Cooper

LOGGED: S Islam

CASING: HW to 2.5m

TYPE OF BORING: Solid flight auger (TC-bit) to 2.6m; NMLC - coring to 17.0m

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C	Core drilling	D	Water seep
		W	Water level

CHECKED
Initials:
Date:




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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 2A
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Well Construction Details		
				Type	Depth	Sample		Results & Comments		
	0.025	BITUMEN					PID<1ppm			
		ROADBASE								
	0.3	SILTY CLAY - stiff, orange silty clay		A	0.4					
					0.6					
	0.7	SILTY CLAY - hard, orange-brown silty clay, with some ironstone bands		A	0.8					PID<1ppm
					1.0					
	1.2	Bore discontinued at 1.2m - refusal on ironstone								
	-2							-2		
	-3							-3		
	-4							-4		

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Atger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength (Is50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep † Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 3A
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

[illegible]

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND	
A	Auger sample
D	Disturbed sample
B	Bulk sample
U	Tube sample (x mm dia.)
W	Water sample
C	Core drilling
pp	Pocket penetrometer (kPa)
PID	Photo ionisation detector
S	Standard penetration test
PL	Point load strength (50/50 MPa)
V	Shear Vane (kPa)
▷	Water seep
≡	Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: 61.1
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/-

BORE No: 7
PROJECT No: 45298.01
DATE: 14 Dec 08
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details
				Type	Depth	Sample	Results & Comments		
61	0.1	TOPSOIL - brown silty sand topsoil							
		FILLING - grey and brown sandy silty clay filling, with sandstone and ironstone gravel and a trace of roots and basalt gravel							Backfilled with drill returns
60	1			S	1.0		2.6, 10 N = 16		
					1.45				Bentonite
59	2	FILLING - red brown silty clay filling, with shale and ironstone gravel and a trace of organics		S	2.5		2.3, 3 N = 6		
					2.95				
58	3	FILLING - light grey sandy clay filling							3 Backfilled with gravel
	3.25	FILLING - dark grey brown sandy clay filling (possibly old topsoil)							
57	4	SILTY CLAY - stiff, light brown, silty clay with a trace of ironstone gravel		S	4.0		3.5, 7 N = 12		
		- light grey mottled red from 4.3m			4.45				
56	5				5.1				
	5.18	LAMINITE - extremely low strength, extremely weathered, fractured, light grey laminite with some ironstone bands		C	5.65				
55	6								
	6.36	LAMINITE - very low to low strength, highly to moderately weathered, highly fractured to fractured red brown and grey laminite		C	6.83		PL(A) = 0.2MPa		
54	7	LAMINITE - medium strength, moderately weathered, fractured red brown laminite with some extremely low strength bands			7.6		PL(A) = 0.5MPa		7 Machine slotted PVC screen
	7.64	LAMINITE - very low to low strength, highly weathered, fractured, grey brown laminite		C					
53	8				8.5		PL(A) = 1.3MPa		
	8.47	LAMINITE - high strength, slightly weathered, fractured to slightly fractured, grey and light brown laminite with 50% sandstone laminations			8.6				
52	9			C	9.07		PL(A) = 1.3MPa		
	9.81				9.87		PL(A) = 1.7MPa		

RIG: Edson 3000

DRILLER: JS

LOGGED: JC

CASING: HW to 4.60m

TYPE OF BORING: Solid flight auger (TC-bit) to 4.00m, rotary (water) to 5.10m, NMLC-Coring to 11.55m

WATER OBSERVATIONS: Groundwater measured at 4.77m on 14/12/07

REMARKS: PVC standpipe installed

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		⊗	Water level

CHECKED
Initials:
Date:




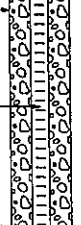
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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: 61.1
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/-

BORE No: 7
PROJECT No: 45298.01
DATE: 14 Dec 08
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
51		SANDSTONE - high strength, fresh, unbroken, light grey, fine to medium grained sandstone (<i>continued</i>)		C	10.41		PL(A) = 1.4MPa		Backfilled with gravel	
11									Machine slotted PVC screen	
11.55					11.47		PL(A) = 1.8MPa		End cap	
		Bore discontinued at 11.55m			11.55					
12										
13										
14										
15										
16										
17										
18										
19										

RIG: Edson 3000

DRILLER: JS

LOGGED: JC

CASING: HW to 4.60m

TYPE OF BORING: Solid flight auger (TC-bit) to 4.00m, rotary (water) to 5.10m, NMLC-Coring to 11.55m

WATER OBSERVATIONS: Groundwater measured at 4.77m on 14/12/07

REMARKS: PVC standpipe installed

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep ☒ Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 7A
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - brown silty sandy clay filling with ironstone gravel		A	0.3		PID<1ppm			
	0.6				0.5					
		FILLING - orange silty sandy clay, with some grey clay, gravel, sandstone fragments and roadbase		A	1.0		PID<1ppm			
	1				1.2					
				A	1.6		PID<1ppm			
	2				1.8					
				A	2.3		PID<1ppm			
					2.5					
				A	2.8		PID<1ppm			
	3				3.0					
		SILTY CLAY - stiff, light brown silty clay, moist		A	3.6		PID<1ppm			
	3.5				3.9					
				A	4.2		PID<1ppm			
	4				4.4					
		SILTY CLAY - stiff, light grey silty clay, moist		A	4.6		PID<1ppm			
	4.3				4.7					
		Bore discontinued at 4.7m - target depth reached								

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED

Initials:

Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 9A
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

[illegible]

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Field duplicate taken (BD1/141207)

SAMPLING & IN SITU TESTING LEGEND	
A	Auger sample
D	Disturbed sample
B	Bulk sample
U	Tube sample (x mm dia.)
W	Water sample
C	Core drilling
pp	Pocket penetrometer (kPa)
PID	Photo ionisation detector
S	Standard penetration test
PL	Point load strength Is(50) MPa
V	Shear Vane (kPa)
▷	Water seep
≡	Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 10A
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.1	BITUMEN								
	0.15	ROADBASE								
		SILTY CLAY - very stiff, orange silty clay								
-1				A*	1.0		PID<1ppm			
					1.2					
1.5		SANDSTONE - very low strength, highly weathered, cream sandstone								
				A	1.8		PID<1ppm			
-2					2.0					
2.8		Bore discontinued at 2.8m - refusal on sandstone								
-3										
-4										

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Field duplicate BD2/141207 taken

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	D	Water seep
			Water level

CHECKED

Initials:

Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 11
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

[illegible]

RIG: Bobcat

DRILLER: S Grear

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength (50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 12
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

[illegible]

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	PP	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength (50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep $\frac{1}{2}$ Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 13
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.05	TOPSOIL - brown silty sandy clay topsoil								
		FILLING - light brown silty sandy clay filling, with some ironstone and sandstone gravel			0.3		PID<1ppm			
				A	0.5					
	0.8	FILLING - yellow sand filling								
1	1.0	FILLING - brown mottled grey and red clay filling, with ironstone nodules		A	1.0		PID<1ppm		1	
					1.2					
	1.4	FILLING - brown mottled grey sandy silty clay filling								
-2				A	2.0		PID<1ppm		-2	
					2.2					
	2.8	FILLING - dark grey silty clay filling, moist (possibly natural)		A	2.9		PID<1ppm			
-3					3.0				-3	
	3.5	SILTY CLAY - very stiff, red-brown silty clay, damp								
				A	3.8		PID<1ppm			
-4	4.0	Bore discontinued at 4.0m			4.0					

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 14
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.05	BITUMEN								
	0.15	ROADBASE								
		FILLING - orange mottled light grey silty clay filling, with some sandstone and ironstone gravel			0.3					
					0.38					
					0.5					
	0.8	FILLING - light grey silty clay filling, with some ironstone gravel		A						
				A*						
					1.0					
	1.3	FILLING - grey silty sandy clay filling, damp			1.3					
				A						
					1.5					
					1.8					
		- moist at 1.8m		A						
					2.0					
	2.8	SILTY SANDY CLAY - grey and orange silty sandy clay								
	3.0	Bore discontinued at 3.0m								

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Field duplicate BD3/141207 taken

SAMPLING & IN SITU TESTING LEGEND	
A	Auger sample
D	Disturbed sample
B	Bulk sample
U	Tube sample (x mm dia.)
W	Water sample
C	Core drilling
pp	Pocket penetrometer (kPa)
PID	Photo ionisation detector
S	Standard penetration test
PL	Point load strength is(50) MPa
V	Shear Vane (kPa)
▷	Water seep
⊗	Water level

CHECKED
Initials:
Date:



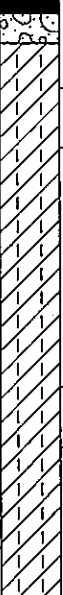
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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 15
PROJECT No: 45298.01
DATE: 14 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.05	BITUMEN								
	0.15	ROADBASE								
		SILTY CLAY - stiff, light brown silty clay, with ironstone gravel			0.3					
				A	0.5					
					1.3					
				A	1.5					
2	2.0	Bore discontinued at 2.0m - refusal on ironstone								
3										
4										

RIG: Bobcat

DRILLER: S Gregor

LOGGED: AAD

CASING: Uncased

TYPE OF BORING: 150mm diameter solid flight auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:





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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 16
PROJECT No: 45298.01
DATE: 18 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.2	FILLING - dark brown silty clay filling with some roots, organic matter, gravel		A	0.0		PID=7.2ppm			
	0.2	FILLING - dark brown silty clay filling with some gravel, ash, sandstone fragments		A	0.2		PID=10.2ppm			
	0.5	Bore discontinued at 0.5m - refusal on gravel, ash and sandstone fragments			0.5					
	1									
	2									
	3									
	4									

RIG: Hand Auger

DRILLER: GN

LOGGED: GN

CASING: Uncased

TYPE OF BORING:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		≡	Water level

CHECKED
Initials:
Date:





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BOREHOLE LOG

CLIENT: Lachlan Project Development Pty Ltd
PROJECT: Phase 1 Contamination Assessment
LOCATION: Macquarie University, South Precinct

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: 17
PROJECT No: 45298.01
DATE: 18 Dec 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.2	FILLING - dark brown silty clay filling with some roots, organic matter, gravel		A	0.0		PID=13.8ppm			
	0.2	FILLING - light brown silty clay filling with some gravel, ash, sand and sandstone fragments		A	0.2		PID=14.7ppm			
	0.5	Bore discontinued at 0.5m - refusal on gravel, ash and sandstone fragments			0.5					
1										
2										
3										
4										

RIG: Hand Auger

DRILLER: GN

LOGGED: GN

CASING: Uncased

TYPE OF BORING:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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NOTES RELATING TO THIS REPORT

Introduction

These notes have been provided to amplify the geotechnical report in regard to classification methods, specialist field procedures and certain matters relating to the Discussion and Comments section. Not all, of course, are necessarily relevant to all reports.

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

Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726, Geotechnical Site Investigations Code. In general, descriptions cover the following properties - strength or density, colour, structure, soil or rock type and inclusions.

Soil types are described according to the predominating particle size, qualified by the grading of other particles present (eg. sandy clay) on the following bases:

Soil Classification	Particle Size
Clay	less than 0.002 mm
Silt	0.002 to 0.06 mm
Sand	0.06 to 2.00 mm
Gravel	2.00 to 60.00 mm

Cohesive soils are classified on the basis of strength either by laboratory testing or engineering examination. The strength terms are defined as follows.

Classification	Undrained Shear Strength kPa
Very soft	less than 12
Soft	12—25
Firm	25—50
Stiff	50—100
Very stiff	100—200
Hard	Greater than 200

Non-cohesive soils are classified on the basis of relative density, generally from the results of standard penetration tests (SPT) or Dutch cone penetrometer tests (CPT) as below:

Relative Density	SPT "N" Value (blows/300 mm)	CPT Cone Value (q_c — MPa)
Very loose	less than 5	less than 2
Loose	5—10	2—5
Medium dense	10—30	5—15
Dense	30—50	15—25
Very dense	greater than 50	greater than 25

Rock types are classified by their geological names. Where relevant, further information regarding rock classification is given on the following sheet.

Sampling

Sampling is carried out during drilling to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thin-walled sample tube into the soil and withdrawing with a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling are given in the report.

Drilling Methods.

The following is a brief summary of drilling methods currently adopted by the Company and some comments on their use and application.

Test Pits — these are excavated with a backhoe or a tracked excavator, allowing close examination of the in-situ soils if it is safe to descent into the pit. The depth of penetration is limited to about 3 m for a backhoe and up to 6 m for an excavator. A potential disadvantage is the disturbance caused by the excavation.

Large Diameter Auger (eg. Pengo) — the hole is advanced by a rotating plate or short spiral auger, generally 300 mm or larger in diameter. The cuttings are returned to the surface at intervals (generally of not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube sampling.

Continuous Sample Drilling — the hole is advanced by pushing a 100 mm diameter socket into the ground and withdrawing it at intervals to extrude the sample. This is the most reliable method of drilling in soils, since moisture content is unchanged and soil structure, strength, etc. is only marginally affected.

Continuous Spiral Flight Augers — the hole is advanced using 90—115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and in sands above the water

table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are very disturbed and may be contaminated. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively lower reliability, due to remoulding, contamination or softening of samples by ground water.

Non-core Rotary Drilling — the hole is advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from 'feel' and rate of penetration.

Rotary Mud Drilling — similar to rotary drilling, but using drilling mud as a circulating fluid. The mud tends to mask the cuttings and reliable identification is again only possible from separate intact sampling (eg. from SPT).

Continuous Core Drilling — a continuous core sample is obtained using a diamond-tipped core barrel, usually 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in very weak rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation.

Standard Penetration Tests

Standard penetration tests (abbreviated as SPT) are used mainly in non-cohesive soils, but occasionally also in cohesive soils as a means of determining density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" — Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

- In the case where full penetration is obtained with successive blow counts for each 150 mm of say 4, 6 and 7
as 4, 6, 7
N = 13
- In the case where the test is discontinued short of full penetration, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm
as 15, 30/40 mm.

The results of the tests can be related empirically to the engineering properties of the soil.

Occasionally, the test method is used to obtain samples in 50 mm diameter thin walled sample tubes in clays. In such circumstances, the test results are shown on the borelogs in brackets.

Cone Penetrometer Testing and Interpretation

Cone penetrometer testing (sometimes referred to as Dutch cone — abbreviated as CPT) described in this report has been carried out using an electrical friction cone penetrometer. The test is described in Australian Standard 1289, Test 6.4.1.

In the tests, a 35 mm diameter rod with a cone-tipped end is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the friction resistance on a separate 130 mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are connected by electrical wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20 mm per second) the information is plotted on a computer screen and at the end of the test is stored on the computer for later plotting of the results.

The information provided on the plotted results comprises: —

- Cone resistance — the actual end bearing force divided by the cross sectional area of the cone — expressed in MPa.
- Sleeve friction — the frictional force on the sleeve divided by the surface area — expressed in kPa.
- Friction ratio — the ratio of sleeve friction to cone resistance, expressed in percent.

There are two scales available for measurement of cone resistance. The lower scale (0—5 MPa) is used in very soft soils where increased sensitivity is required and is shown in the graphs as a dotted line. The main scale (0—50 MPa) is less sensitive and is shown as a full line.

The ratios of the sleeve friction to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1%—2% are commonly encountered in sands and very soft clays rising to 4%—10% in stiff clays.

In sands, the relationship between cone resistance and SPT value is commonly in the range:—

$$q_c \text{ (MPa)} = (0.4 \text{ to } 0.6) N \text{ (blows per 300 mm)}$$

In clays, the relationship between undrained shear strength and cone resistance is commonly in the range:—

$$q_c = (12 \text{ to } 18) c_u$$

Interpretation of CPT values can also be made to allow estimation of modulus or compressibility values to allow calculation of foundation settlements.

Inferred stratification as shown on the attached reports is assessed from the cone and friction traces and from experience and information from nearby boreholes, etc. This information is presented for general guidance, but must be regarded as being to some extent interpretive. The test method provides a continuous profile of engineering properties, and where precise information on soil classification is required, direct drilling and sampling may be preferable.

Hand Penetrometers

Hand penetrometer tests are carried out by driving a rod into the ground with a falling weight hammer and measuring the blows for successive 150 mm increments of penetration. Normally, there is a depth limitation of 1.2 m but this may be extended in certain conditions by the use of extension rods.

Two relatively similar tests are used.

- Perth sand penetrometer — a 16 mm diameter flat-ended rod is driven with a 9 kg hammer, dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands (originating in Perth) and is mainly used in granular soils and filling.
- Cone penetrometer (sometimes known as the Scala Penetrometer) — a 16 mm rod with a 20 mm diameter cone end is driven with a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). The test was developed initially for pavement subgrade investigations, and published correlations of the test results with California bearing ratio have been published by various Road Authorities.

Laboratory Testing

Laboratory testing is carried out in accordance with Australian Standard 1289 "Methods of Testing Soil for Engineering Purposes". Details of the test procedure used are given on the individual report forms.

Bore Logs

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

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

Ground Water

Where ground water levels are measured in boreholes, there are several potential problems;

- In low permeability soils, ground water although present, may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be

the same at the time of construction as are indicated in the report.

- The use of water or mud as a drilling fluid will mask any ground water inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water observations are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Engineering Reports

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal (eg. a three storey building), the information and interpretation may not be relevant if the design proposal is changed (eg. to a twenty storey building). If this happens, the Company will be pleased to review the report and the sufficiency of the investigation work.

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

- unexpected variations in ground conditions — the potential for this will depend partly on bore spacing and sampling frequency
- changes in policy or interpretation of policy by statutory authorities
- the actions of contractors responding to commercial pressures.

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

Site Anomalies

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

Reproduction of Information for Contractual Purposes

Attention is drawn to the document "Guidelines for the Provision of Geotechnical Information in Tender Documents", published by the Institution of Engineers, Australia. Where information obtained from this investigation is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section

is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The Company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

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

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