ENVIRONMENTAL EARTH SCIENCES

Catholic Archdiocese of Sydney

Preliminary Site Investigation at Bethany College Kogarah, 155-157 Princes Highway, Kogarah, NSW

112082 **24 October 2012**

- Soil and contaminated land assessment
- Groundwater assessment
- Mine environment management
- Property acquisition, disposal and management
- Environmental auditing and risk assessment
- Waste planning and management

Executive Summary

From a preliminary site investigation, Environmental Earth Sciences NSW has found the overall environmental risks at 155-157 Princes Highway, Kogarah, NSW, to be **low**. This follows a review of available historical information and an inspection of the site undertaken on 18 October 2012.

Please refer to below table for risk breakdown and overview:

RISK RATING	HIGH	MEDIUM	LOW
Overall Site Environmental Risk			
• On site soil contamination			
• Imported fill			
• Underground storage tanks			
• Off-site migration			
• Historical Site Uses			

SUMMARY	YES	NO
Is further targeted intrusive site investigation recommended?		✓
Is further detailed hazardous material investigation recommended?		✓
Is the property considered suitable for ongoing Special uses 5a (General)) use with no further investigation?	✓	

No evidence of gross soil contamination on site was found and no indicator of contaminating activities could be found in available historical information. While fill material was present on site, it is considered likely that areas on site have undergone cut and fill and therefore the risk of site contamination from fill material is low. No underground storage tanks (USTs) were noted, although several service pits were noted.

From the available information regarding historical use of the site, the risk of contamination is considered low. A hazardous materials assessment of the buildings on site was not undertaken.

On behalf of
Environmental Earth Sciences NSW

Project Manager
Josh Bray
Environmental Scientist

Project Director
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1. Introduction

Environmental Earth Sciences NSW undertook a preliminary site inspection (PSI) at 155-157 Princes Highway, Kogarah, NSW for Peppers Property Advisory (representing the Catholic Archdiocese of Sydney). Essentially a PSI should:

- identify any past or present contaminating activities at the site;
- identify potential contamination types;
- discuss the site condition as related to contamination;
- provide a preliminary assessment of site condition; and
- assess the need for further investigation.

The PSI is required for a vendor due diligence assessment prior to the sale of the land.

2. Objective

The objective of this PSI is to provide an assessment of the potential liability associated with risk of soil and groundwater contamination on site.

3. Scope of Work

The scope of work for this PSI consists of:

- a site walkover;
- obtaining and reviewing the following documents:
  - historical titles;
  - historical aerial photographs from circa 1940 onwards;
  - a search of the NSW EPA Contaminated Land Register;
  - soil, geology and other relevant landform maps such as acid sulfate soil and salinity as required; and
- provision of a report detailing the findings of the PSI.

The NSW OEH (2011) *Guidelines for Consultants Reporting on Contaminated Sites* was the preliminary document referred to for guidance. No intrusive investigation was undertaken.

4. Site Condition and Surrounding Environment

RISK RATING: LOW

The site is in the Kogarah Local Government Area, within the Parish of St George, County of Cumberland. The current site owner is the Catholic Archdiocese of Sydney and is zoned as Special uses (5a) (General) (Kogarah Municipal Council 1998). Previous zonings are detailed in Section 5.

The site is located at 33°58’03.37’’S 151°08’09.38’’E, approximately 2 km west of Botany Bay and is located immediately south of the St George Clinical School. Moorefield Girls High School lies to the east, while residential properties border the west of the site. Apartment buildings are to the south of the site. The local sensitive environmental receptor is considered to be Botany Bay.

The site is approximately 3,967 m^2 and is comprised of 6 lots:

- Lot 1 DP 782399;
- Lot 2 DP 782399;
- Lot 3 DP 782399;
- Lot 2 DP 402831;
- Lot 1 DP 86964; and
- Lot A DP 158788.

There are two buildings on site, the southern building and western building. The southern building extends across the southern area of the site from the eastern to the western boundary. The western boundary extends across from south to north along the western boundary of the site. The remainder of the site is largely asphalt hardstand bordered by garden beds. The general topography of the site is gently undulating rises, with the site split into three levels – a result of previous cut and fill activities.

Regional meteorology

The Commonwealth Bureau of Meteorology provides the following climatic data for Sydney Airport (located approximately 4.7 km to the north east):

- mean daily maximum temperatures range from 17°C in July to 26.5°C in January;
- mean daily minimum temperatures range from 7.2°C in July to 19.0°C in February; and
- mean rainfall ranges from 60.3 mm in September to 120.7 mm in June.

The Sydney Basin is characterised by a temperate climate with warm summers and mild winters, with lower temperature variation noted closer to the coast. Rainfall is higher in coastal areas (including those areas around Botany Bay) although it is not seasonal. Given the hardstand across the majority of the site, the regional meteorology is not expected to influence any decisions on the future use of the site.

Natural setting and sensitive environmental receptors

The soil on site is within the Blacktown soil landscape grouping (Chapman *et al.* 1983). This area of the soil group is on the Hawkesbury shales (Bureau of Mineral Resources, Geology and Geophysics 1961) resulting in moderately deep to deep clays on crests and upper slopes, and sandy soils on lower slopes and drainage lines. The soils are prone to localised permanently high water tables, areas of laterite and stony soil and highly permeable soil.

The landscape is gently undulating rises with local relief up to 30 m. Slopes are usually less than 5%. Adjacent soil landscape units include the Tuggerah dune fields and the Warriewood sands.

More than 10 registered groundwater boreholes were within a 400 m radius of the site (NSW Natural Resources Atlas 2012). Boreholes with available construction information indicated that unconsolidated sand was encountered to 10 m below the ground surface and water bearing zones were encountered as little as 3.6 m below the ground surface. Available borelog details are presented in Appendix B.

5. Historical Review

RISK RATING: LOW

NSW EPA Contaminated Land Register

A search of the Contaminated Land Register returned no results for the subject site.

Historical aerial photos

Eight historical aerial photos dating from 1943 were available for historical review of the site. Details of the photos are presented in Table 1.

TABLE 1 HISTORICAL AERIAL PHOTOGRAPHY SUMMARY

Year	Source	Detail
1943	Spatial Information eXchange Viewer	The site is comprised of 6 houses, with one house on each of the lots outlined in Section 4. The houses are semi detached dwellings, although the majority of Lot A DP 158788 is vacant. The suburb of Kogarah is largely developed on the north, west and south of the site. A racetrack lies to the east of site in 1943. The southern railway line can be seen to the west.
1951	NSW Dept. of Lands	This photo focuses primarily on the neighbouring site of Bexley (to the west of the site), although the site is visible in the south east corner, where the residential dwellings present in the 1943 photo still stand. The primary land use in Bexley is residential in the 1951 photo.
1961	NSW Dept. of Lands	The entirety of Lot A DP 158788 had been developed into the building that stands today. The remainder of the site remains unchanged, although the development of the Kogarah business district to the north has begun and both James Cook Boys High School and Moorefield Girls High School have begun development where the race course was previously. Residential landuse has also developed the eastern side of the former racetrack. No significant changes in land use are noted to the south or west.
1974	NSW Dept of Lands	All houses on site have been demolished. The current building on the western side of the site has been developed. An apartment block has replaced residential housing immediately southwest of the site. Residential housing to the north of the site has begun to be replaced with larger buildings that are likely to be commercial.
1982	NSW Surveyor Generals Dept.	Development of the business district to the north of the site continues, while the schools to the east have also been further developed. Residential land use dominates the southwest, south and southeast of the site.
1991	NSW Govt	The site remains unchanged between 1982 and 1991. Residential properties to the north continue to be replaced by commercial buildings.
2000	Google Earth	The site remains unchanged between 1982 and 2000. An apartment block immediately south of the site has replaced several residential properties.
2009	Google Earth	The site has remained unchanged between 1982 and 2009. The remaining houses between the site and Gray St to the south have undergone development.

In summary, the historical aerial photos show that:

- Lot A DP 158788 was developed into the current southern building by 1961;
- Lot 1 & Lot 2 DP 782399 and Lot 2 DP 402831 had been developed into the current western building by 1974; and
- similarly, buildings Lot 1 DP 86964 and Lot 3 DP 782399 had been cleared by 1974 and have since remained vacant.

Historical titles

Historical title searches reflected the site use apparent in the historical aerial photos. The historical titles are presented in Appendix A and can be summarised as follows:

- Lot 1 in DP 782399 was owned by Mr Brian Anthony, Postal Employee, between 1964 (the earliest title available) and 1973, whereupon it was purchased by the Archdiocese of Sydney;
- Lot 2 in DP 782399 was owned by Robert Ferrier, Estate Agent, between 1915 and 1928, Elizabeth and Charles Selby (occupation not specified) to 1950. Frederik Been, a Field Assistant, and his wife owned the property until 1969, whereupon it was purchased by the Archdiocese of Sydney;
- Lot 3 in DP 782399 was owned by Hudson Coles, Ironworker, from 1942 until 1965 whereupon it was purchased by the Archdiocese of Sydney;
- Lot 2 in DP 402831 was the property of William Coulson, a Cabinet Maker, from 1924 to 1966, where it was owned for approximately 1 year by Graham Coulson, a Bank Officer, until 1967 when it was purchased by the Archdiocese of Sydney;
- Lot 1 in DP 86964 was owned by Patrick O'Meara, a Labourer, from 1941 to 1948 whereupon it was purchased by the Archdiocese of Sydney; and
- Lot A in DP 158788 was property of the St George Leagues Club until its purchase in 1964 by the Archdiocese of Sydney.

Site walkover

A site walkover was undertaken on 18 October 2012. The walkover included inspection of the school grounds and an inspection of the ground floor of the southern building (known as the "Penola" building). However, a hazardous materials building inspection was not undertaken.

The walkover found small areas of fill material on site, and it is considered likely that this was a result of cut and fill activity on site. Sandstone, likely to be outcropping, was noted in the centre of the site.

Infrastructure noted on site included several sewer rising mains and vents, as well as 2 miscellaneous pits; one in the west of the playground area and one on the southern boundary. Neither pit could be opened during the site visit.

Two small rooms at the western end of the southern building were noted to have signage indicating former chemical storage. An inspection of both rooms found a folder of Material Safety Data Sheets indicating chemical storage within the rooms was limited to cleaning products. A 10 L drum of Mulsol, a bitumen & tar remover was also found in one of the rooms.

Two service pits were noted in the basement of the southern building.
While these appeared to be primarily related to water and electricity services, the exact nature of the pits could not be determined.

One stockpile of recently cleared shrubs and branches was noted on the northern boundary of the site, while a small stockpile (<10m^3) of mulch was noted in the garden bed on the eastern boundary of site. No other stockpiles were noted.

6. Conclusions and Recommendations

A preliminary site investigation at 155-157 Princes Highway, Kogarah, NSW, was undertaken as part of a due diligence process prior to the sale of the site. The site, comprised of 6 lots, is within the Botany Bay catchment area and is surrounded by residential and health care land uses. The historical aerial photos indicate that the primary land use of the surrounding area has been residential since the early 1900's.

The historical titles also indicate that prior to the current use, the majority of the site was residential. The occupation of Lot A in DP 158788 by St George Leagues Club is the only site use prior to the current use that was not residential. These previous site uses are not considered to pose a major contamination risk.

The site walkover noted small areas of fill material, likely to be from cut and fill activities on site. Several pits on site were noted. However, it is expected that these are service pits and are unlikely to pose the potential of soil or groundwater contamination. Two of the pits were locked or sealed. For completeness, the pits should be accessed to determine their content and use.

In summary, the risk of soil or groundwater contamination on site posed by previous and current site uses is considered low. Additional intrusive investigation on site is not considered necessary.

7. Limitations

This report has been prepared by Environmental Earth Sciences NSW ABN 109 404 006 in response to and subject to the following limitations:

1. The specific instructions received from Pepper Property Advisory on behalf of the Catholic Archdiocese of Sydney;
2. The specific scope of works set out in PO112170 issued by Environmental Earth Sciences NSW for Pepper Property Group on behalf of the Catholic Archdiocese of Sydney, is included in Section 3 (Objectives) of this report;
3. May not be relied upon by any third party not named in this report for any purpose except with the prior written consent of Environmental Earth Sciences NSW (which consent may or may not be given at the discretion of Environmental Earth Sciences NSW);
4. This report comprises the formal report, documentation sections, tables, figures and appendices as referred to in the index to this report and must not be released to any third party or copied in part without all the material included in this report for any reason;
5. The report only relates to the site referred to in the scope of works being located at 155-157 Princes Highway, Kogarah, NSW ("the site");
6. The report relates to the site as at the date of the report as conditions may change thereafter due to natural processes and/or site activities;
7. No warranty or guarantee is made in regard to any other use than as specified in the scope of works and only applies to the depth tested and reported in this report;
8. Our General Limitations set out at the back of the body of this report.

8. References

Bureau of Meteorology (2012) Climate statistics for Australian locations: Sydney Airport AMO.

Bureau of Mineral Resources, Geology and Geophysics, Canberra (1961).

Chapman, G.A., Murphy, C.L., Tille, P.J., Atkinson, G. and Morse, R.J (1983*) Sydney Soil Landscape Series Sheet 9130*. Soil Conservation Service of NSW.

NSW OEH (2011) Sydney Basin – Climate. http://www.environment.nsw.gov.au/bioregions/SydneyBasin-Climate.htm Page last updated on 27 February 2011.

Kogarah Municipal Council (1998). *Local Environmental Plan 1998*.

ENVIRONMENTAL EARTH SCIENCES GENERAL LIMITATIONS

Scope of services

The work presented in this report is Environmental Earth Sciences response to the specific scope of works requested by, planned with and approved by the client. It cannot be relied on by any other third party for any purpose except with our prior written consent. Client may distribute this report to other parties and in doing so warrants that the report is suitable for the purpose it was intended for. However, any party wishing to rely on this report should contact us to determine the suitability of this report for their specific purpose.

Data should not be separated from the report

A report is provided inclusive of all documentation sections, limitations, tables, figures and appendices and should not be provided or copied in part without all supporting documentation for any reason, because misinterpretation may occur.

Subsurface conditions change

Understanding an environmental study will reduce exposure to the risk of the presence of contaminated soil and or groundwater. However, contaminants may be present in areas that were not investigated, or may migrate to other areas. Analysis cannot cover every type of contaminant that could possibly be present. When combined with field observations, field measurements and professional judgement, this approach increases the probability of identifying contaminated soil and or groundwater. Under no circumstances can it be considered that these findings represent the actual condition of the site at all points.

Environmental studies identify actual sub-surface conditions only at those points where samples are taken, when they are taken. Actual conditions between sampling locations differ from those inferred because no professional, no matter how qualified, and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden below the ground surface. 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 that predicted. Nothing can be done to prevent the unanticipated. However, steps can be taken to help minimize the impact. For this reason, site owners should retain our services.

Problems with interpretation by others

Advice and interpretation is provided on the basis that subsequent work will be undertaken by Environmental Earth Sciences NSW. This will identify variances, maintain consistency in how data is interpreted, conduct additional tests that may be necessary and recommend solutions to problems encountered on site. Other parties may misinterpret our work and we cannot be responsible for how the information in this report is used. If further data is collected or comes to light we reserve the right to alter their conclusions.

Obtain regulatory approval

The investigation and remediation of contaminated sites is a field in which legislation and interpretation of legislation is changing rapidly. Our interpretation of the investigation findings should not be taken to be that of any other party. When approval from a statutory authority is required for a project, that approval should be directly sought by the client.

Limit of liability

This study has been carried out to a particular scope of works at a specified site and should not be used for any other purpose. This report is provided on the condition that Environmental Earth Sciences NSW disclaims all liability to any person or entity other than the client in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by any such person in reliance, whether in whole or in part, on the contents of this report. Furthermore, Environmental Earth Sciences NSW disclaims all liability in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by the client, or any such person in reliance, whether in whole or any part of the contents of this report of all matters not stated in the brief outlined in Environmental Earth Sciences NSW's proposal number and according to Environmental Earth Sciences general terms and conditions and special terms and conditions for contaminated sites.

To the maximum extent permitted by law, we exclude all liability of whatever nature, whether in contract, tort or otherwise, for the acts, omissions or default, whether negligent or otherwise for any loss or damage whatsoever that may arise in any way in connection with the supply of services. Under circumstances where liability cannot be excluded, such liability is limited to the value of the purchased service.

Appendix A – Historical Documents

~ Search ~

re Lot 1 in DP 782399

Title Tree

1/782399

↓

Bk 3099 No 388

↓

Bk 2732 No 402

15/10/12

Jenners Title Searching Co.
ESTABLISHED 1949

~ Search ~

re Lot 1 in DP 782399

Schedule of Registered Proprietors

BK 2732	Brian Robert Anthony
No 402	of Kogarah
22/12/64	Postal Employee
BK 3099	The Trustees of the Roman Catholic
No 388	Church for the Archdiocese
24/5/73	of Sydney
FI 1/782399	
issued	
20/3/1990	

MJ 15/10/12

Jenners Title Searching Co.
ESTABLISHED 1949

Jenners Title Searching Co.

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/782399

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:15 PM	1	20/3/1990

LAND

LOT 1 IN DEPOSITED PLAN 782399
AT KOGARAH
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP782399

FIRST SCHEDULE

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE ARCHDIOCESE OF SYDNEY (CA45011)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL PROPERTY ACT, 1900. ENTERED 20.3.1990 BK 3099 NO 388
3 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.
UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.

~ Search ~

re Lot 2 DP 782399

Title Tree

1/782399

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Bk 2953 No 79

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Bk 2129 No 631

↓

Bk 1502 No 295

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Bk 1077 No 648

15/10/12

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~ Search ~

re Lot 2 in DP 782399

Schedule of Registered Proprietors

Bk 1077 No 648 18/2/1915	Robert Heathie Ferrier of Kogarah Estate Agent
Bk 1502 No 295 2/2/1928	Elizabeth Caroline Selby wife of Charles Ernest Selby of Kogarah, Gentleman
Bk 2129 No 631 11/7/1950	Frederick Newland Boon of Kogarah, Field Assistant; Alice Alberta Boon, his wife
Bk 2953 No 79 8/12/69	The Trustees of the Roman Catholic Church for the Archdiocese of Sydney
FI 2/782399 issued 20/3/99	

15/10/12

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/782399

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:16 PM	1	20/3/1990

LAND

LOT 2 IN DEPOSITED PLAN 782399
AT KOGARAH
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP782399

FIRST SCHEDULE

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE ARCHDIOCESE OF SYDNEY (CA45011)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
3 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL PROPERTY ACT, 1900. ENTERED 20.3.1990 BK 2953 NO 7479

NOTATIONS

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UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.

~ Search ~

re Lot 2 in DP 782399

Title Tree

3/782399

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BK 2750 No 778

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BK 1920 No 590

15/10/12

Jenners Title Searching Co.

ESTABLISHED 1949

~ Search ~

re Lot 3 in DP 782399

Schedule of Registered Proprietors

Bk 1920 No 590 23/9/1942	Louisa Sidney Coles of Kogarah Ironworker
Bk 2750 No 778 25/6/65	The Trustees of the Roman Catholic Church for the Archdiocese of Sydney
Fl 3/782399 issued 20/3/90	

MJ 15/10/12

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 3/782399

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:17 PM	1	20/3/1990

LAND

LOT 3 IN DEPOSITED PLAN 782399
AT KOGARAH
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP782399

FIRST SCHEDULE

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE ARCHDIOCESE OF SYDNEY (CA45011)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
3 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL PROPERTY ACT, 1900. ENTERED 20.3.1990 BK ~~2570~~ 2750 NO 778

NOTATIONS

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UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

**ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.*

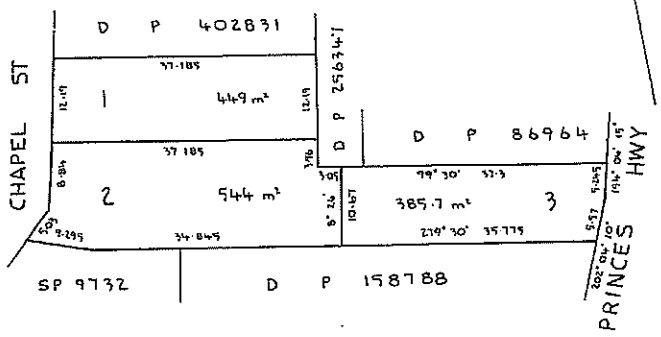
LT 2/55

PLAN OF THE LAND COMPRISED IN DEED	D P 782399
BK. 2570 NO. 778 (LOT 3) CA. 45011 BK. 2953 NO. 79 (LOT 2) BK. 3099 NO. 388 (LOT 1)	Registered: AP 19-3-1990
Locality: KOGARAH Mun / ~~Shire~~ ~~City~~ KOGARAH	Title System: OLD SYSTEM
	Purpose: LIMITED FOLIO CREATION
Parish: ST GEORGE County: CUMBERLAND	Ref Map: U0937-81#
Reduction Ratio 1:500 Lengths are in metres	Last Plan: D P 976627

N 0 0 3 0 1 0

THIS PLAN WAS PREPARED SOLELY TO IDENTIFY THE LAND IN THE ABOVE DEED AND THE BOUNDARIES HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL

THE PLAN IS NOT A CURRENT PLAN IN TERMS OF SEC. 327AA LOCAL GOVERNMENT ACT, 1919.



This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 20th MARCH, 1990

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

Req:R622812 /Doc:DP 0782399 P /Rev:26-Aug-1992 /Sts:OK.OK /Prt:15-Oct-2012 16:16 /Pgs:ALL /Seq:1 of 1
Ref:EES-Kogarah /Src:T

~ Search ~

re Lot 2 in DP 402831

Title Tree

2/402831

↓

V. 2624 F. 240

15/10/12

Jenners Title Searching Co.

ESTABLISHED 1949

~ Search ~

re Lot 2 in DP 402831

Schedule of Registered Proprietors

V. 3624 F.240	William Henry Coulson
9/8/1924	of Kogarah
P.A. 25778	Cabinet Maker
App K320009	Graham Sydney Coulson
Reg 20/5/66	of Blakehurst
(V3624 F240)	Bank Officer
Ltr K606033	The Trustees of the Roman Catholic
Reg 9/3/67	Church for the Archdiocese of
(V3624 F240)	Sydney

15/10/12

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/402831

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:19 PM	-	-

VOL 3624 FOL 240 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 2 IN DEPOSITED PLAN 402831
AT KOGARAH
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP402831

FIRST SCHEDULE

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE ARCDIOCESE OF SYDNEY

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

EES-Kogarah PRINTED ON 15/10/2012

**ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.*

Req:R622858 /Doc:DP 0402831 P /Rev:08-Nov-1993 /Sts:OK.OK /Prt:15-Oct-2012 16:20 /Pgs:ALL /Seq:1 of 1
Ref:EES-Kogarah /Src:T

F.P. 402831

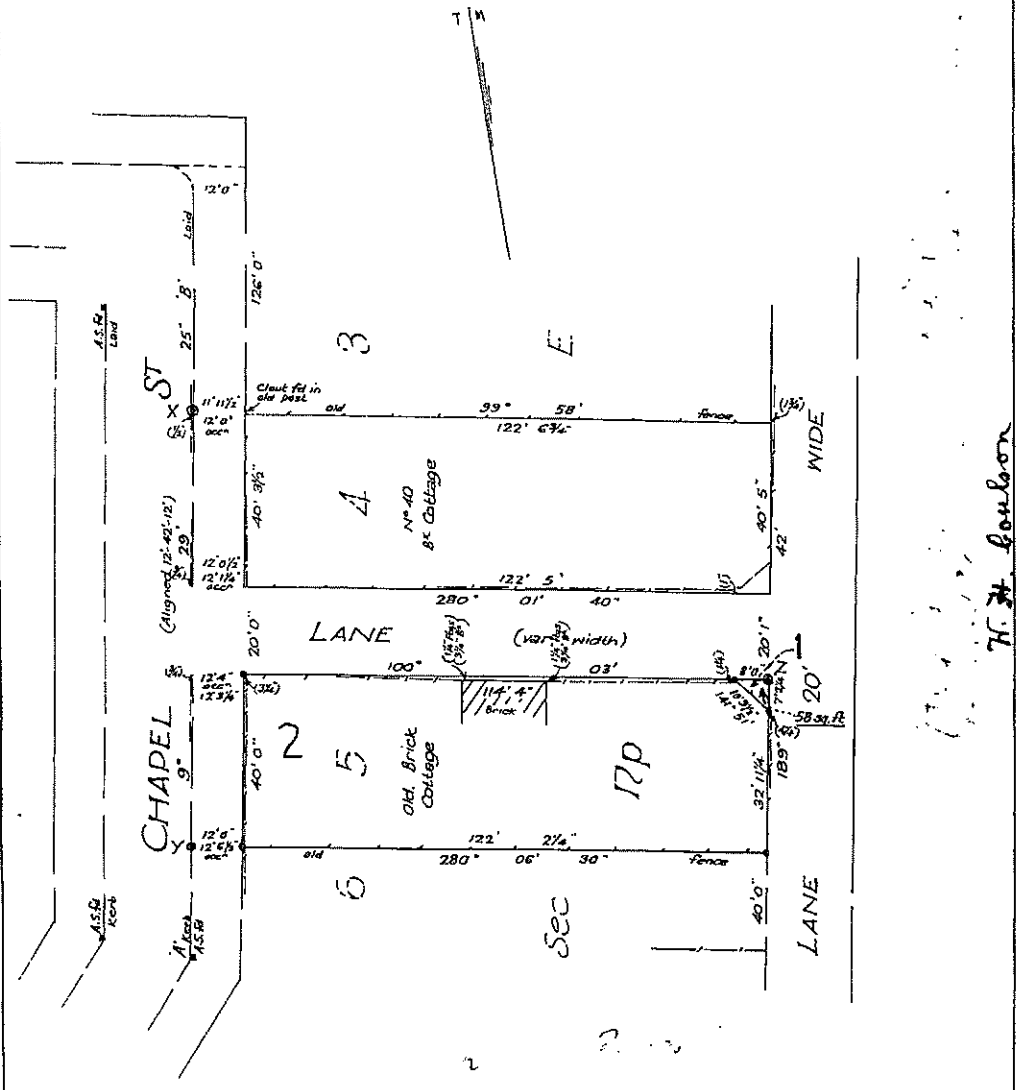
KOGARAH COUNCIL
~~Municipality of Kogarah~~

PLAN

for dedication of part lot 5, Sec E, Bowen Park Estate.

PARISH OF ST GEORGE COUNTY OF CUMBERLAND

Scale 30 feet to an Inch



REFERENCE MARKS

X D.H. & Wing in kerb (4d) 89° 29', 12'0" to cor
Y D.H. & Wing in kerb. 89° 29', 12'0" do
Z D.H. & Wing at intersection

M P S KP

Regd. Inv. 102831

I John Henry Farnham of 25 Albyn St Bexley, a surveyor registered under the Surveyors Act 1929 do hereby solemnly and sincerely declare (a) that the boundaries and measurements shown on this plan are correct (b) that all survey marks found and relevant physical objects on or adjacent to the boundaries are correctly represented (c) that all physical objects indicated actually exist in the positions shown (d) that the whole of the material facts in relation to the land are correctly represented (e) that the survey represented by this plan has been made in accordance with the Survey Practice Regulations 1933 under my immediate supervision the character and extent as required by the Survey Practice Regulations 1933 was completed on 29th December 1954 and reference marks have been placed as shown hereon
And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

J H Farnham

Surveyor registered under the Surveyors Act 1929.

Subscribed and Declared before me at Bexley.
this 11th day of March 1955

Henry V. Wilkes A.C.I.
J.P.

AZIMUTH FROM AB.

43641 E

PLAN AMENDED IN L.T.O. 28.10.1993 DRF

CONVERSION TABLE ADDED IN DEPARTMENT OF LANDS

DP 402831

FEET	INCHES	METRES
-	0 1/2	0.013
-	0 3/4	0.019
-	1	0.025
-	1 1/4	0.032
-	1 3/4	0.044
-	3 1/4	0.083
-	3 1/2	0.089
-	3 3/4	0.095
-	4 1/4	0.108
2	-	0.610
4	-	1.219
4	2 3/8	1.280
7	2 1/4	2.191
8	-	2.438
10	9 1/2	3.289
11	11 1/2	3.645
11	11 3/4	3.651
12	-	3.658
12	0 1/4	3.664
12	0 1/2	3.670
12	1 1/4	3.689
12	3 1/4	3.740
12	4	3.759
12	6 1/2	3.823
20	1	6.121
32	11 1/4	10.039
40	-	12.192
40	3 1/2	12.281
40	5	12.319
42	-	12.802
114	4	34.849
122	2 1/4	37.243
122	5	37.313
122	6 3/4	37.357
126	-	38.405
144	4	43.993

AC	RD	P	SQ M
-	-	17	430

~ Search ~

re Lot 1 in DP 869644

Title Tree

1/869644

↓

V. 6172 F. 150

↓

R. P. A. 369644

15/10/12

Jenners Title Searching Co.

ESTABLISHED 1949

~ Search ~

re Lot 1 in DP 869644

Schedule of Registered Proprietors

BK 1897 No 942 14/7/1941	Patrick Thomas O'Meara of Kogarah Labourer
BK 2050 No 153 19/4/1948	Trustees of the Roman Catholic Church for the Archdiocese of Sydney
V. 6172 F. 150 issued 9/8/1950	

MJ 15/10/12

Jenners Title Searching Co.
ESTABLISHED 1949

Jenners Title Searching Co.

LPI On-Line

Jenners Title Searching Co. hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act.

Information provided through Tri-Search an approved LPI*NSW* Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/86964

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:20 PM	-	-

VOL 6172 FOL 150 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 1 IN DEPOSITED PLAN 86964
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP86964

FIRST SCHEDULE

TRUSTEES OF THE ROMAN CATHOLIC CHURCH, FOR THE ARCHDIOCESE OF SYDNEY

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

EES-Kogarah PRINTED ON 15/10/2012

**ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.*

DP 86964

Plan Form No 57 (for Apos^n etc)

Municipality of KOGARAH

P.A.36964

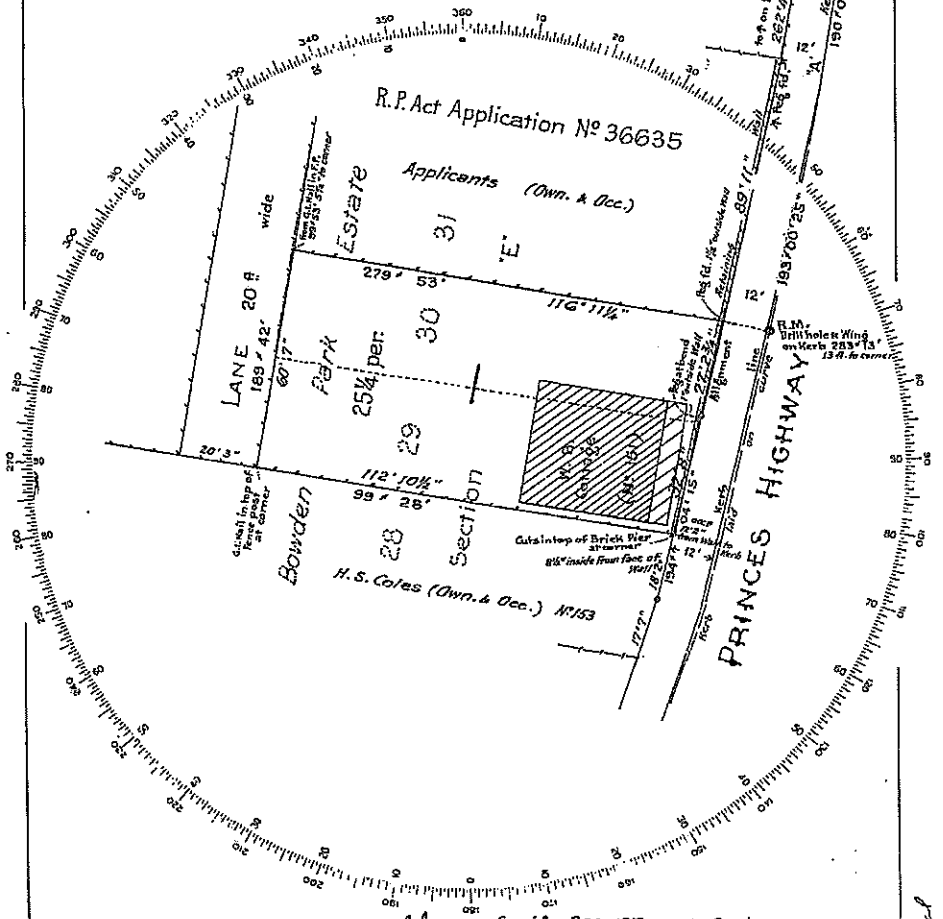
T.M

PLAN

of land in Conveyance Registered No 153 Book 2050.

Parish of St George - County of Cumberland

Scale :- 30 feet to an Inch.



I, Jacques Emile PROUST of Sydney

a Surveyor registered under the Surveyor's Act, 1929, do hereby solemnly and sincerely declare (a) that all boundaries and measurements shown on this plan are correct, (b) that all survey marks found and relevant physical objects on or adjacent to the boundaries are correctly represented, (c) that all physical objects indicated actually exist in the positions shown, (d) that the whole of the material facts in relation to the land are correctly represented, (e) that the survey represented in this plan has been made in accordance with the Survey Practice Regulations, 1933 *(1) ~~in my~~ (2) under my supervision, the character and extent of which was as required by the Survey Practice Regulations, 1933, and was completed on the 12th July 1948 and the reference marks have been placed as shown hereon.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act, 1900

Subscribed and declared before me at GORDON this 20th day of July A.D. 1948.

Justice of Peace

Arthur S. Colwell J.P.

(Signature) J.E. Proust

Surveyor registered under the Surveyors Act, 1929

Azimuth from "AB" R.P.A. Appln 36635

*Strike out either (1) or (2). †Insert date of Survey.

PLAN ENTERED IN L.T.O. 30-11-1992

1163/92 Ch. 19/1/96

CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMENT

DP 86964

FEET	INCHES	METRES
-	1 1/2	0.038
-	5 1/2	0.140
12	-	3.658
12	2	3.708
17	7	5.359
18	2	5.537
20	-	6.096
20	3	6.172
27	2 3/4	8.299
32	8	9.957
60	7	18.466
89	11	27.407
112	10 1/2	34.404
116	11 1/4	35.643
262	4 1/2	79.972

AC	RD	P	SQ M
-	-	25 1/4	638.6

AMENDMENTS AND/OR ADDITIONS MADE ON PLAN IN THE LAND TITLES OFFICE

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. 1st December 1992

Req:R622887 /Doc:DP 0086964 P /Rev:05-Apr-1993 /Sts:OK.OK /Prt:15-Oct-2012 16:21 /Pgs:ALL /Seq:1 of 1
Ref:EES-Kogarah /Src:T

~ Search ~

re Lot A in DP 158788

Title Tree

A/158788

↓

Bk 2713 No 673

↓

Bk 2476 No 699

15/10/12

Jenners Title Searching Co.

ESTABLISHED 1949

~ Search ~

re Lot A in DP 158788

Schedule of Registered Proprietors

BK 2476 No 699 10/9/57	St George Leagues Club (Later St George Leagues Club Limited)
BK 2713 No 673 21/8/64	The Trustees of the Roman Catholic Church for the Archdiocese of Sydney
FI A/158788 issued 20/3/1990	

MB 15/10/12.

Jenners Title Searching Co.
ESTABLISHED 1949

Jenners Title Searching Co.

LPI On-Line

Jenners Title Searching Co. hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act.

Information provided through Tri-Search an approved LPI*NSW* Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: A/158788

SEARCH DATE	TIME	EDITION NO	DATE
15/10/2012	4:17 PM	1	20/3/1990

LAND

LOT A IN DEPOSITED PLAN 158788
AT KOGARAH
LOCAL GOVERNMENT AREA KOGARAH
PARISH OF ST GEORGE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP158788

FIRST SCHEDULE

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE ARCHDIOCESE OF SYDNEY (CA45011)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL PROPERTY ACT, 1900. ENTERED 20.3.1990 BK 2713 NO 673
3 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.
UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE. WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.

Req:R622840 /Doc:DP 0158788 P /Rev:27-Aug-1999 /Sts:OK.OK /Prt:15-Oct-2012 16:18 /Pgs:ALL /Seq:1 of 2
Ref:EES-Kogarah /Src:T

This margin to be left free from notation

Plan Form No 6 (for transfer, lease, etc)

DP 158788 (E) MPS(OS) F558748

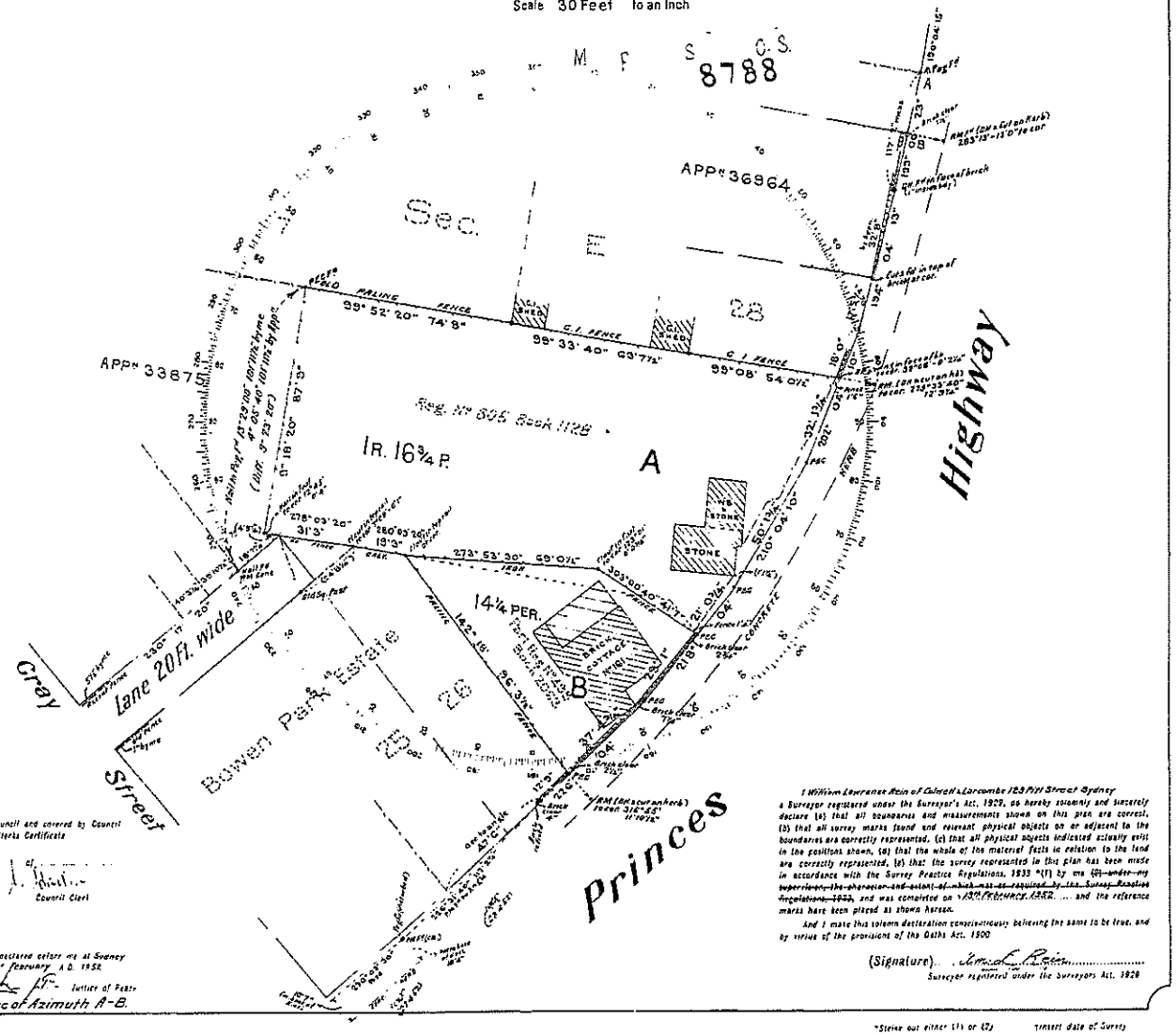
Municipality of Kogarah
Shire of

PLAN

of Subdivision of land in Conveyances Reg No 805 Bk.1128 & part No 499 Bk.2063

Parish of St. George County of Cumberland

Scale 30 Feet to an Inch



Approved by Council and covered by Council Clerks Certificate

Council Clerk

Subscribed and declared before me at Sydney this 22nd day of February A.D. 1958

Justice of Peace

I William Lawrence Rein of Colwell & Lorcombe 123 Pitt Street Sydney a Surveyor registered under the Surveyor's Act, 1929, do hereby solemnly and sincerely declare (a) that all boundaries and measurements shown on this plan are correct, (b) that all survey marks found and relevant physical objects on or adjacent to the boundaries are correctly represented, (c) that all physical objects indicated actually exist in the positions shown, (d) that the whole of the material facts in relation to the land are correctly represented, (e) that the survey represented in this plan has been made in accordance with the Survey Practice Regulations, 1933 *(1) by me ~~(2) under my supervision, the character and extent of which was as required by the Survey Practice Regulations, 1933~~, and was completed on 15th February 1958 .... and the reference marks have been placed as shown hereon.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act, 1900

(Signature) .....

Surveyor registered under the Surveyors Act, 1929

*Strike out either (1) or (2) †insert date of Survey

Signatures of parties to be made in this margin.

This is the plan marked " " referred to in
Dated

CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMENT

DP 158788

FEET	INCHES	METRES
-	0 3/4	0.019
-	1	0.025
-	2 1/4	0.057
-	2 1/2	0.064
-	2 3/4	0.070
-	4	0.102
-	5 1/2	0.140
-	7 1/4	0.184
1	1 1/4	0.337
1	4	0.406
1	6	0.457
4	9 1/4	1.454
10	4	3.150
10	7	3.226
11	10 1/2	3.620
12	9	3.886
12	9 1/4	3.893
13	-	3.962
17	5 3/4	5.328
18	-	5.486
18	4	5.588
18	7 1/4	5.671
19	3	5.867
20	-	6.096
24	8 1/4	7.525
29	1	8.865
31	3	9.525
32	8	9.997
37	4 3/4	11.398
39	10 1/2	12.154
40	3 1/4	12.275
41	7	12.675
47	6	14.478
54	0 1/2	16.472
63	7 1/2	19.393
69	0 1/2	21.044
74	8	22.758
87	9	26.746
96	3 1/2	29.350
101	11 1/2	31.077
117	2	35.712
117	2 1/4	35.719

AC	RD	P	SQ M
-	-	14 1/4	360.4
-	1	16 3/4	1435

c,leases,etc)

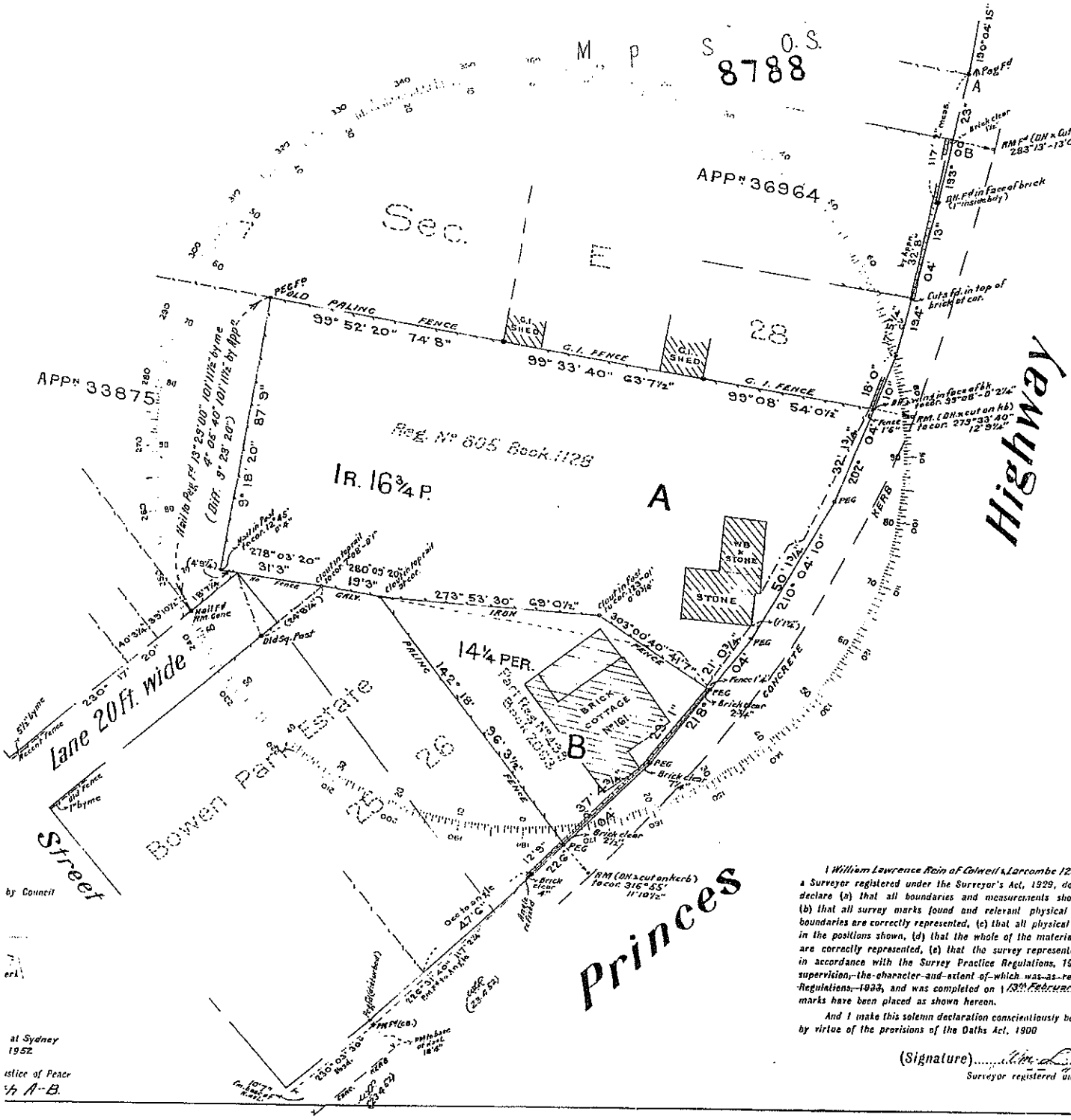
DP 158788 (E) MPS(os) F558748

PLAN

of Subdivision of land in Conveyances Reg.Nº 805 Bk.1128 & part Nº 499 Bk.2063

Parish of St. George County of Cumberland

Scale 30 Feet to an Inch



I William Lawrence Rein of Colwell & Larcombe 129 Pitt Stre
a Surveyor registered under the Surveyor's Act, 1929, do hereby sole
declare (a) that all boundaries and measurements shown on this
(b) that all survey marks found and relevant physical objects on
boundaries are correctly represented, (c) that all physical objects indi
in the positions shown, (d) that the whole of the material facts in r
are correctly represented, (e) that the survey represented in this p
in accordance with the Survey Practice Regulations, 1933 *(1) by
supervision, the character and extent of which was as required by t
Regulations, 1933, and was completed on 13th February 1952.
marks have been placed as shown hereon.

And I make this solemn declaration conscientiously believing the s
by virtue of the provisions of the Oaths Act, 1900

(Signature) .....
Surveyor registered under the Sur

by Council

at Sydney
1952

stice of Peace
h A-B.

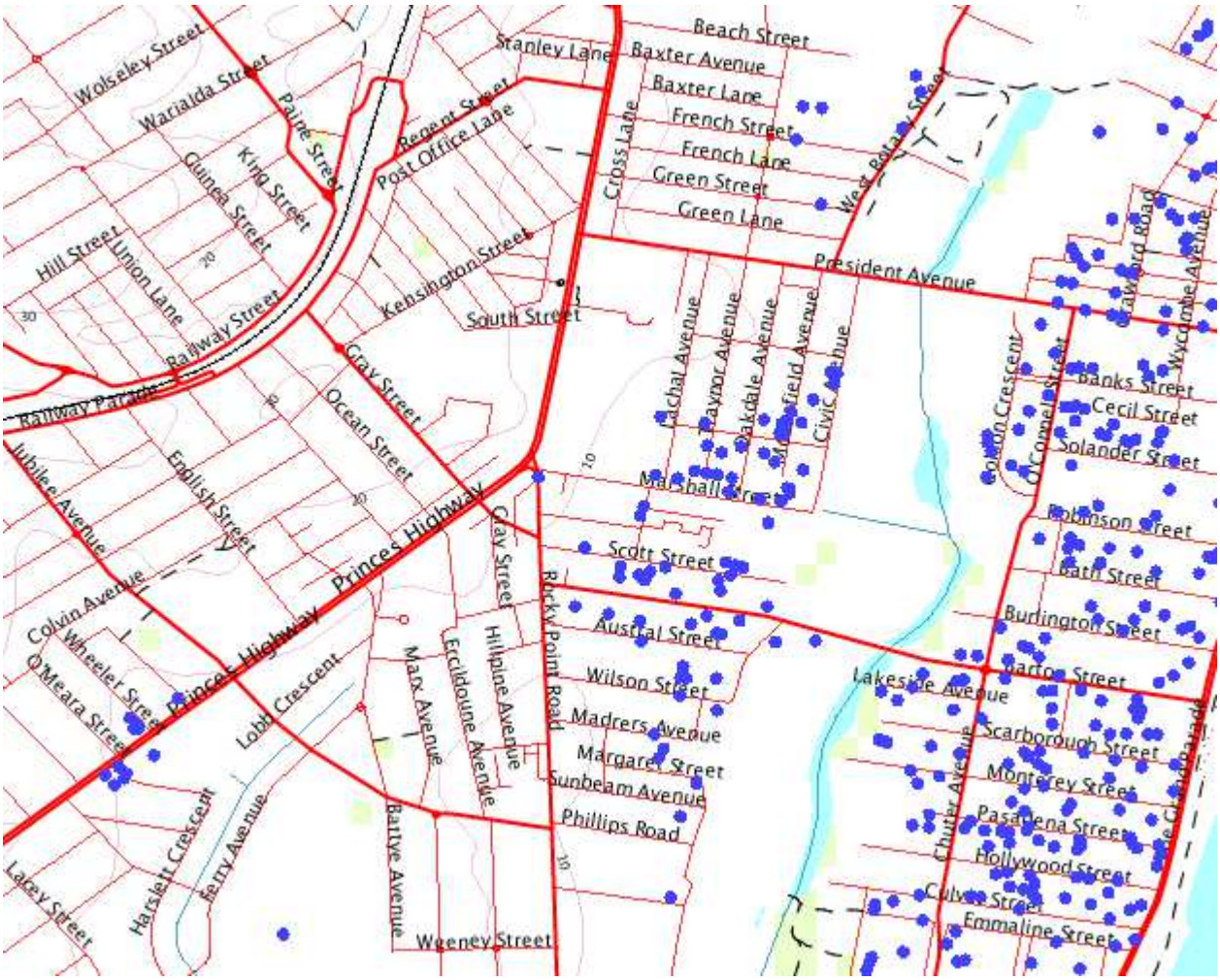
*Strike out either (1) or (2). (Insert d

Appendix B – Additional Information

Registered groundwater bore locality map

Map created with NSW Natural Resource Atlas - http://www.nratlas.nsw.gov.au

Tuesday, October 16, 2012



0 2 Km

Legend

Symbol	Layer	Custodian
	Cities and large towns renderImage: Cannot build image from features	
Cowra	Populated places renderImage: Cannot build image from features	
	Towns	
	Groundwater Bores	
	Catchment Management Authority boundaries	
	Major rivers	
	Topographic base map	

Primary/arterial road
Motorway/freeway
Railway
Runway
Contour
Background

Copyright © 2012 New South Wales Government. Map has been compiled from various sources and may contain errors or omissions. No representation is made as to its accuracy or suitability.

Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Tuesday, October 16, 2012

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW107374

Works Details (top)

GROUNDWATER NUMBER	GW107374
LIC-NUM	10WA113631
AUTHORISED-PURPOSES	DOMESTIC
INTENDED-PURPOSES	DOMESTIC
WORK-TYPE	Spear
WORK-STATUS	Supply Obtained
CONSTRUCTION-METHOD	Jetted - Water
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-10-01
FINAL-DEPTH (metres)	10.00
DRILLED-DEPTH (metres)	10.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	WILSON
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT	
CMA-MAP	9130-3S
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6239739.00
EASTING	328181.00
LATITUDE	33 58' 8"
LONGITUDE	151 8' 25"
GS-MAP	

AMG-ZONE	56
COORD-SOURCE	GIS - Geographic Information System
REMARK	

Form-A (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	81 27184

Licensed (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	81 27184

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE-NO	PIPE-NO	COMPONENT-CODE	COMPONENT-TYPE	DEPTH-FROM (metres)	DEPTH-TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	100			Jetted - Water
1	1	Casing	P.V.C.	0.00	6.00	100			

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	10.00	10.00	sand		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Tuesday, October 16, 2012

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW111229

Works Details (top)

GROUNDWATER NUMBER	GW111229
LIC-NUM	10WA114172
AUTHORISED-PURPOSES	DOMESTIC
INTENDED-PURPOSES	DOMESTIC
WORK-TYPE	Spear
WORK-STATUS	Supply Obtained
CONSTRUCTION-METHOD	Cable Tool
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2006-10-10
FINAL-DEPTH (metres)	6.00
DRILLED-DEPTH (metres)	6.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	CHEN
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6239461.00
EASTING	327983.00
LATITUDE	33 58' 17"
LONGITUDE	151 8' 17"
GS-MAP	

AMG-ZONE	56
COORD-SOURCE	
REMARK	

Form-A (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	20//22414

Licensed (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	20 22414

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE-NO	PIPE-NO	COMPONENT-CODE	COMPONENT-TYPE	DEPTH-FROM (metres)	DEPTH-TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	6.00	100			Cable Tool
1	1	Casing	P.V.C.	0.00	5.00	100			
1	1	Opening	Screen	0.00	6.50	50			PVC; Glued

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	6.00	6.00	ALL SAND		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Tuesday, October 16, 2012

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW108551

Works Details (top)

GROUNDWATER NUMBER	GW108551
LIC-NUM	10WA114300
AUTHORISED-PURPOSES	DOMESTIC
INTENDED-PURPOSES	DOMESTIC
WORK-TYPE	Spear
WORK-STATUS	Supply Obtained
CONSTRUCTION-METHOD	(Unknown)
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2007-02-08
FINAL-DEPTH (metres)	6.00
DRILLED-DEPTH (metres)	6.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	CROFT
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT	
CMA-MAP	9130-3S
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6239823.00
EASTING	328057.00
LATITUDE	33 58' 5"
LONGITUDE	151 8' 20"
GS-MAP	

AMG-ZONE	56
COORD-SOURCE	GIS - Geographic Information System
REMARK	

Form-A (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	24//27184

Licensed (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	24 27184

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE-NO	PIPE-NO	COMPONENT-CODE	COMPONENT-TYPE	DEPTH-FROM (metres)	DEPTH-TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	6.00	100			(Unknown)
1	1	Casing	P.V.C.	0.00	3.20	50			

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	6.00	6.00	Sand		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Tuesday, October 16, 2012

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW024615

Works Details (top)

GROUNDWATER NUMBER	GW024615
LIC-NUM	10WA108143
AUTHORISED-PURPOSES	DOMESTIC
INTENDED-PURPOSES	GENERAL USE
WORK-TYPE	Spear
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Pre-drilled
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	1966-06-01
FINAL-DEPTH (metres)	0.00
DRILLED-DEPTH (metres)	5.50
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	603 - SYDNEY BASIN
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT	
CMA-MAP	9130-3S
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	(Unknown)
NORTHING	6239673.00
EASTING	327814.00
LATITUDE	33 58' 10"
LONGITUDE	151 8' 11"
GS-MAP	0055A4

AMG-ZONE	56
COORD-SOURCE	GD.,PR. MAP
REMARK	

Form-A (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	99999

Licensed (top)

COUNTY	CUMBERLAND
PARISH	ST GEORGE
PORTION-LOT-DP	N/A

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE-NO	PIPE-NO	COMPONENT-CODE	COMPONENT-TYPE	DEPTH-FROM (metres)	DEPTH-TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Corrugated Galvanised Iron	-0.60	4.20	101			Driven into Hole
1	1	Casing	Corrugated Galvanised Iron	-0.30	-0.30	38			(Unknown)

Water Bearing Zones (top)

FROM-DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK-CAT-DESC	S-W-L	D-D-L	YIELD	TEST-HOLE-DEPTH (metres)	DURATION	SALINITY
3.60	5.40	1.80	Unconsolidated						(Unknown)

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	5.48	5.48	Sand Water Supply		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

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