

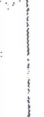
REGISTERED PROPRIETOR

FIRST SCHEDULE (continued)

2000

SECRET

SECOND SCHEDULE (continued)

NAME NUMBER	DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION
V639013	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		
V639014	1986	to Hook & Kirby Limited, together with Option of Renewal, Expires 31-1-1990.	10-10-1986		

NO. 3. RE-ENTRY THROUGH AND AUTHORIZED BY THE SEAL OF THE REGISTRAR GENERAL AND ONE OF THE

26129272

7944/64

181776614

V639013041

W 34363071

35-1

LegalStream Australia Pty Ltd

ABN: 80 002 801 498
 Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA * DX 654 Sydney
 Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au
 An approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

7/10/2004 8:46PM

FOLIO: 1/592091

First Title(s): SEE PRIOR TITLE(S)
 Prior Title(s): VOL 13467 FOL 216

Recorded	Number	Type of Instrument	C.T. Issue
----------	--------	--------------------	------------

28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED
-----------	--	--------------------------	--------------

			FOLIO NOT CREATED
--	--	--	-------------------

24/8/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED
-----------	--	-----------------------------	---------------

			CT NOT ISSUED
--	--	--	---------------

24/11/1988	Y1568	DETERMINATION OF LEASE	
------------	-------	------------------------	--

24/11/1988	Y1569	DISCHARGE OF MORTGAGE	
------------	-------	-----------------------	--

24/11/1988	Y1570	TRANSFER	
------------	-------	----------	--

24/11/1988	Y1571	MORTGAGE	EDITION 1
------------	-------	----------	-----------

EDITION 2

14/3/1990	Y889224	MORTGAGE	
-----------	---------	----------	--

27/11/1990	Z351846	CAVEAT	
------------	---------	--------	--

28/2/1991	Z487590	DISCHARGE OF MORTGAGE	
-----------	---------	-----------------------	--

28/2/1991	Z487591	DISCHARGE OF MORTGAGE	
-----------	---------	-----------------------	--

28/2/1991	Z487592	TRANSFER	
-----------	---------	----------	--

28/2/1991	Z487593	MORTGAGE	
-----------	---------	----------	--

28/2/1991	Z487594	MORTGAGE	EDITION 3
-----------	---------	----------	-----------

7/12/1993	I851962	WITHDRAWAL OF CAVEAT	
-----------	---------	----------------------	--

30/9/1994		AMENDMENT: LOCAL GOVT AREA	
-----------	--	----------------------------	--

7/8/1998	5183704	CAVEAT	
----------	---------	--------	--

31/3/2000	6682709	DEPARTMENTAL DEALING	EDITION 4
-----------	---------	----------------------	-----------

14/11/2000	7218630	DISCHARGE OF MORTGAGE	
------------	---------	-----------------------	--

14/11/2000	7218631	DISCHARGE OF MORTGAGE	
------------	---------	-----------------------	--

14/11/2000	7218632	MORTGAGE	EDITION 5
------------	---------	----------	-----------

7/3/2003	94333914	CAVEAT	
----------	----------	--------	--

28/5/2003	9477485	APPLICATION FOR PREPARATION	
-----------	---------	-----------------------------	--

OF LAPSING NOTICE

3/11/2003	AA110944	WITHDRAWAL OF CAVEAT	
-----------	----------	----------------------	--

3/11/2003	AA110947	DISCHARGE OF MORTGAGE	
-----------	----------	-----------------------	--

END OF PAGE 1 - CONTINUED OVER

macpherson st PRINTED ON 7/10/2004

LEGALSTREAM AUSTRALIA 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, 1900.
 ANY ENTRIES PRECEDED BY AN ASTERIX 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

LegalStream Australia Pty Ltd

ABN: 80 002 801 498

Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA * DX 654 Sydney
Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An approved
LPI NSW
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

7/10/2004 8:46PM

FOLIO: 1/592091

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
3/11/2003	AA110952	TRANSFER	-----
3/11/2003	AA110954	MORTGAGE	EDITION 6

*** END OF SEARCH ***

macpherson st

PRINTED ON 7/10/2004

LEGALSTREAM AUSTRALIA 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, 1900.
*ANY ENTRIES PRECEDED BY AN ASTERIX 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

USE ONLY

TO BE COMPLETED BY GOING PARTY

00116

EXECUTION
MAY 19 1964

2012

100 400

042

© 2001



DESCRIPTION



1990

OFFICE USE ONLY S	WINSPEAR HOLDINGS PTY LIMITED as joint tenants/tenants in common JENBEND PTY LIMITED subject to the following PRIOR ENCUMBRANCES: 1. _____ 2. _____ 3. _____
and transfers an estate in fee simple in the land above described to the TRANSFEREE (the above-named TRANSFEROR hereby acknowledges receipt of the consideration of \$ 1,500,000	
TRANSFER REAL PROPERTY ACT, 1900	
1 3 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st 32nd 33rd 34th 35th 36th 37th 38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th 49th 50th 51st 52nd 53rd 54th 55th 56th 57th 58th 59th 60th 61st 62nd 63rd 64th 65th 66th 67th 68th 69th 70th 71st 72nd 73rd 74th 75th 76th 77th 78th 79th 80th 81st 82nd 83rd 84th 85th 86th 87th 88th 89th 90th 91st 92nd 93rd 94th 95th 96th 97th 98th 99th 100th	WHOLE at Wattlewood
Torrens Title Reference If Part Only, Delete Whole and Give Details	
Polio Identifier 1/592091	

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood

Polio Identifier

1/592091

Torrens Title Reference

If Part Only, Delete Whole and Give Details

Polio Identifier

1/592091

TRANSFER

REAL PROPERTY ACT, 1900

WINSPEAR HOLDINGS PTY LIMITED

WHOLE

at Wattlewood</

5245H

Yours faithfully
J. R. GIBBS & CO.

1. Discharge of Mortgage Registered No. Y1571.
2. Discharge of Mortgage Registered No. Y889224.
3. Transfer from Winespear Holdings Pty Limited to Jenbend Pty Limited.
4. Mortgage from Jenbend Pty Limited to Primary Industry Bank of Australia Limited.
5. Mortgage from Jenbend Pty Limited to FAI Leasing Finance Pty Limited, being a second mortgage over the land comprised in Certificate of Title Folio Identifier 1/592091.

We are instructed by our client that it hereby consents to registration of the following dealings:-
We act for Primary Industry Bank of Australia Limited, the Caveator under Caveat Registered No. Z351846.

RE: PRIMARY INDUSTRY BANK OF AUSTRALIA LIMITED - MORTGAGE ADVANCE - JENBEND PTY LIMITED

Dear Sir,

The Registrar
Land Titles Office
Macquarie Street
SYDNEY NSW 2000

Date: 31 January, 1991

Your Ref:

Our Ref: SJH:RB

James R. Gibbs
Susan J. Hedges

24th Floor, St. Martins Tower, 31 Market Street, Sydney, N.S.W. 2000
Postal Address: P.O. Box 93, Queen Victoria Building, Sydney, 2000
Telephone (02) 211 1582 Fax 261 2740 D.X. 1072



J. R. GIBBS & CO.

SOLICITORS AND ATTORNEYS

LegalStream Australia Pty Ltd

ABN: 80 002 801 498
Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA * DX 654 Sydney
Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au
An approved
LPI NSW
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/592091

SEARCH DATE	TIME	EDITION NO	DATE
7/10/2004	8:43 PM	6	3/11/2003

LAND

LOT 1 IN DEPOSITED PLAN 592091

AT WARRIEWOOD
LOCAL GOVERNMENT AREA: PITTWATER
PARISH OF NARRABEEN COUNTY OF CUMBERLAND
TITLE DIAGRAM: DP592091

FIRST SCHEDULE

SYESUN PTY LIMITED

(T AA110952)

SECOND SCHEDULE (3 NOTIFICATIONS)

1. RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2. J367836 COVENANT AFFECTING THE SITE DESIGNATED (A) IN THE TITLE DIAGRAM
3. AA110954 MORTGAGE TO ST. GEORGE BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

macpherson st

PRINTED ON 7/10/2004

LEGALSTREAM AUSTRALIA 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, 1900.
ANY ENTRIES PRECEDED BY AN ASTERIX 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

APPENDIX C
Aerial Photographs

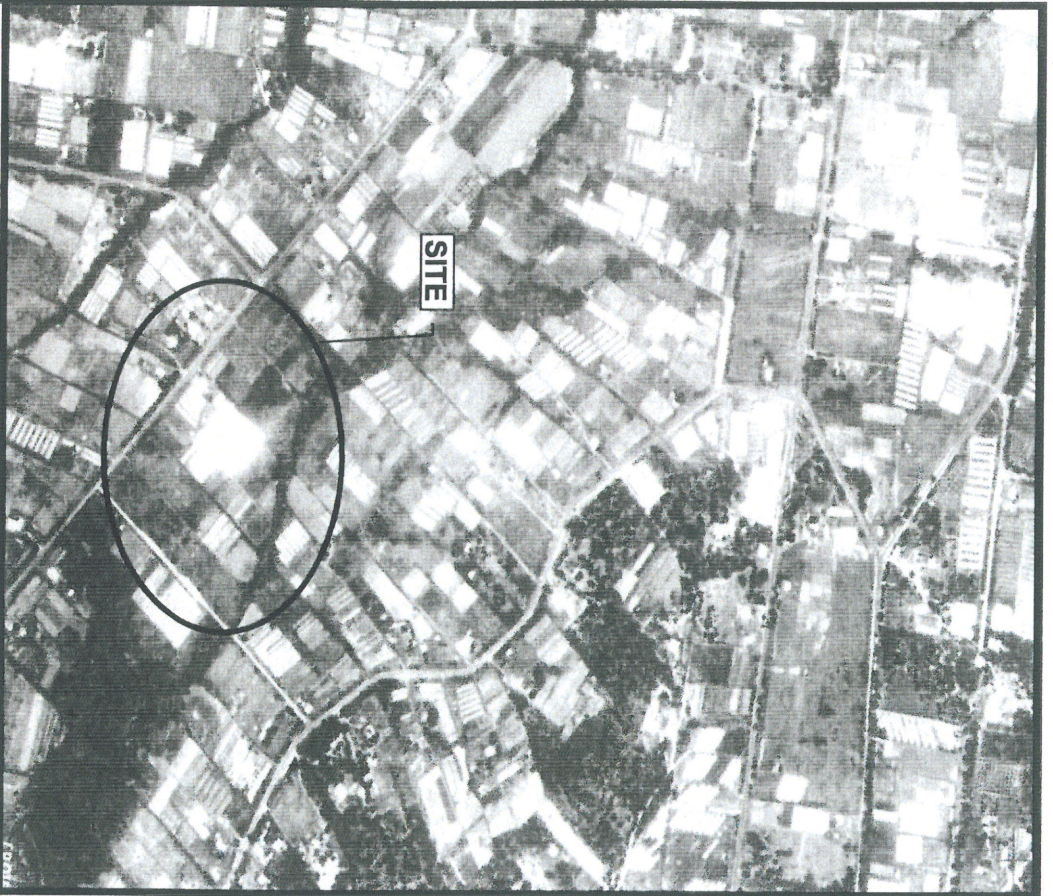


Photo 1. 1939 Aerial Photograph

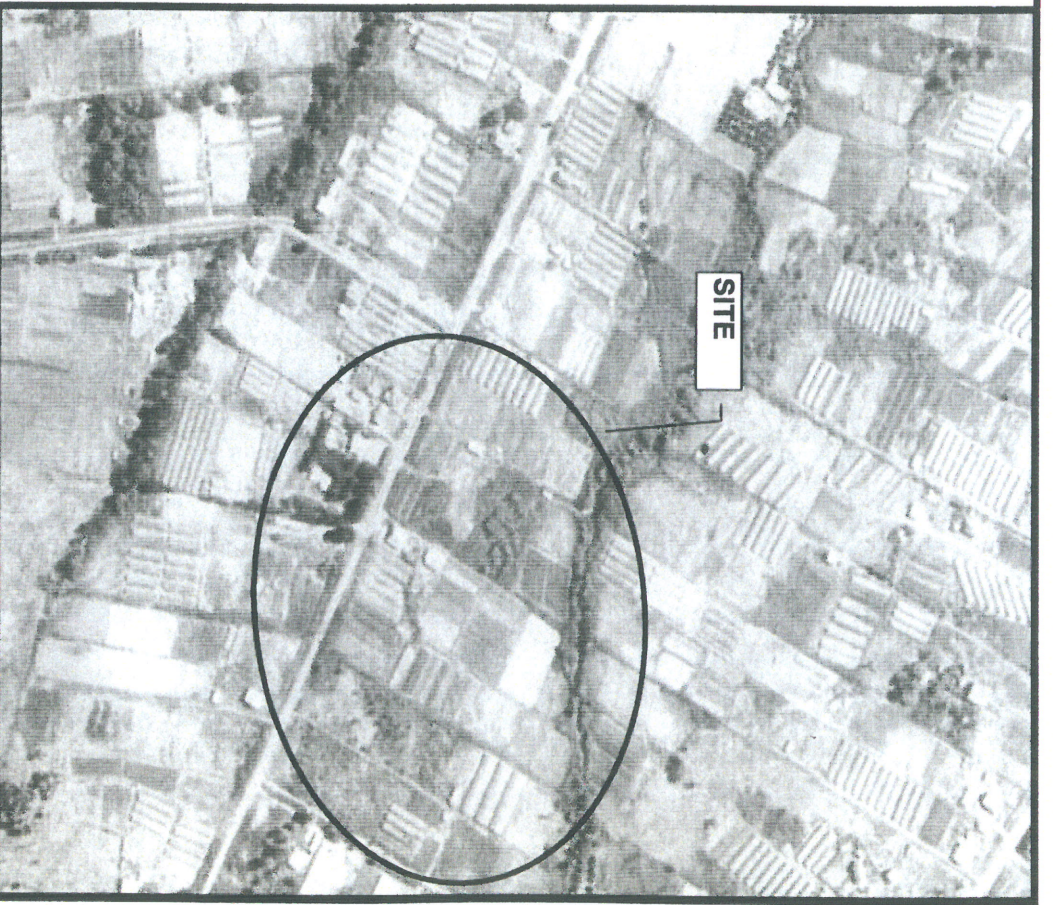


Photo 2. 1951 Aerial Photograph

Preliminary Contamination Assessment
Sector 3, MacPherson Street
Warriewood Valley

Project 37273	November 2004	Plate 1
---------------	---------------	---------

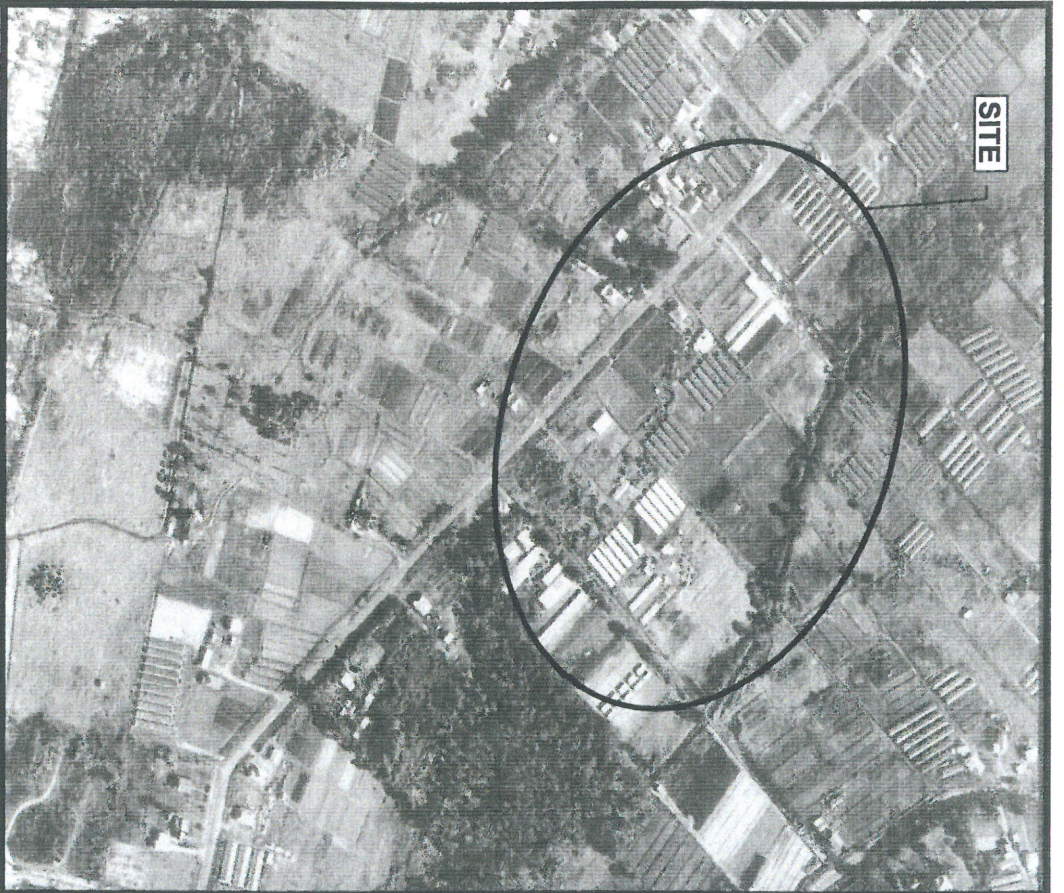


Photo 3. 1961 Aerial Photograph

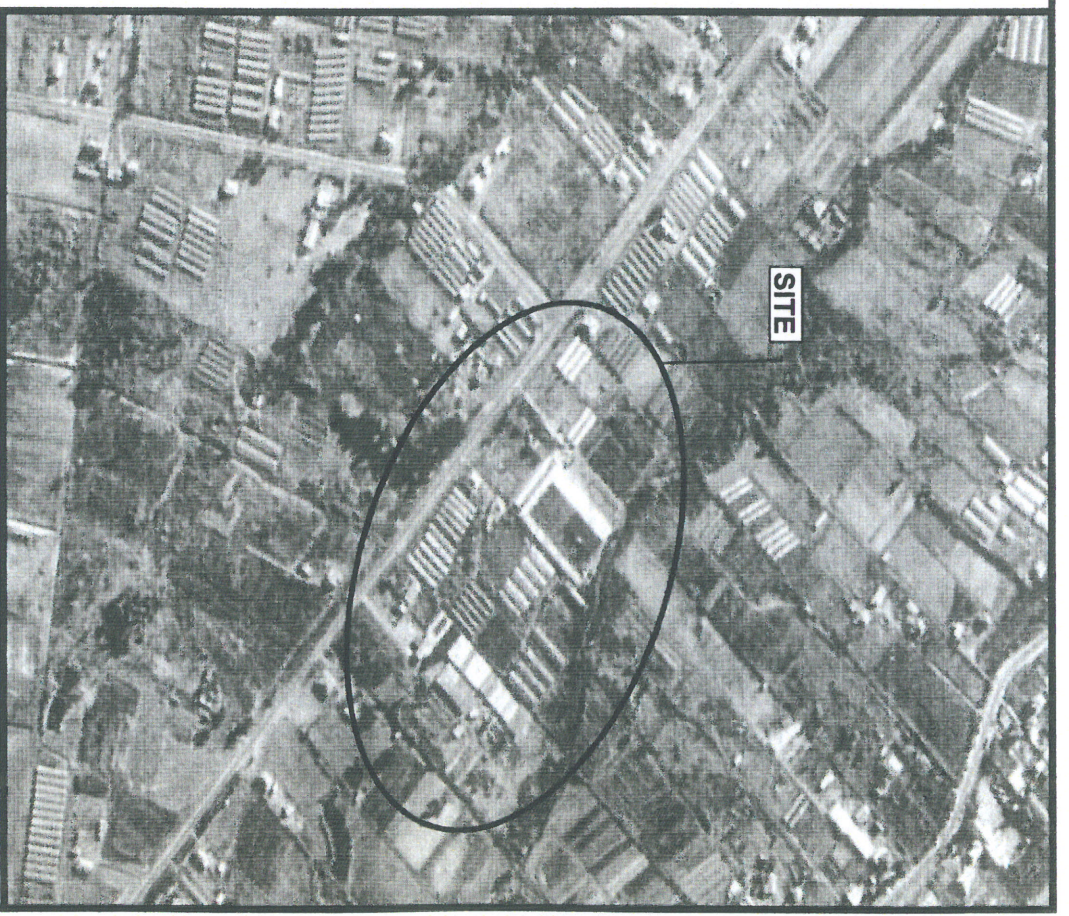


Photo 4. 1970 Aerial Photograph

Preliminary Contamination Assessment
Sector 3, MacPherson Street
Warriewood Valley

Project 37273

November
2004

Plate 2



Douglas Partners
Geotechnics • Environment • Groundwater

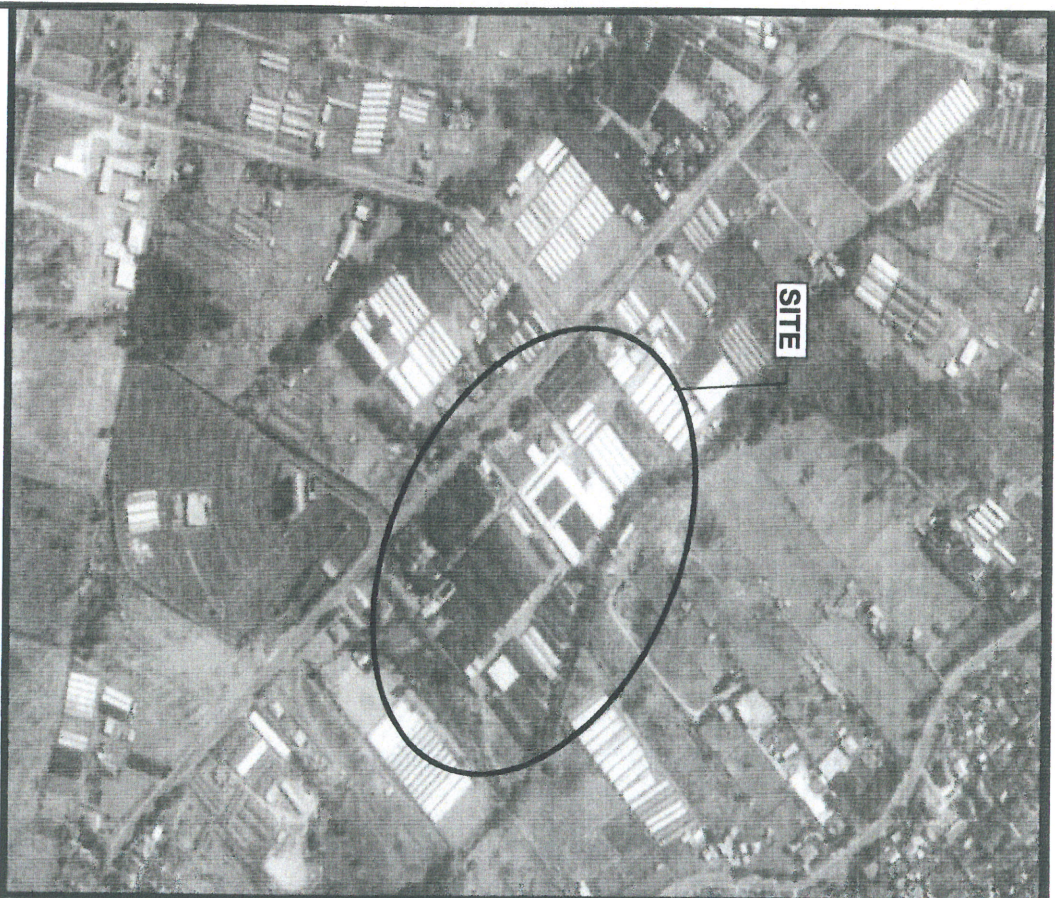


Photo 5. 1986 Aerial Photograph



Photo 6. 1994 Aerial Photograph

Preliminary Contamination Assessment
Sector 3, MacPherson Street
Warriewood Valley

Project 37273

**November
2004**

Plate 3



Douglas Partners
 Geotechnics • Environment • Groundwater

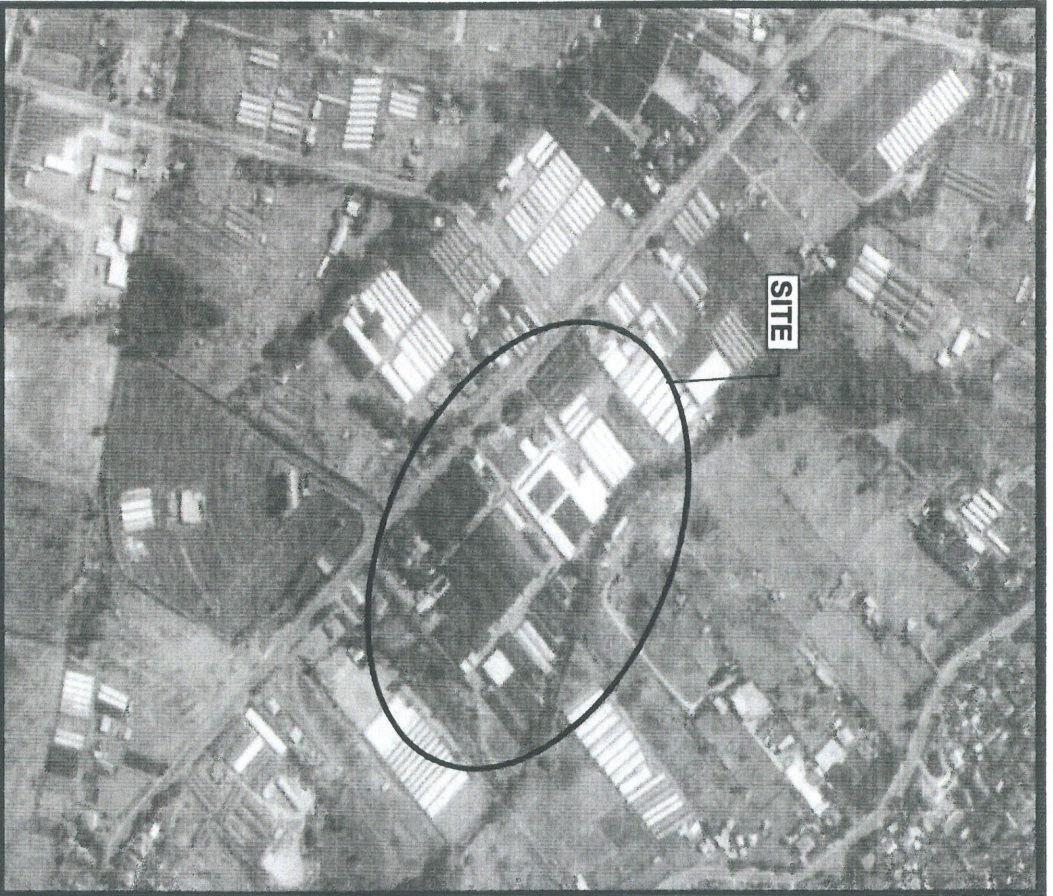


Photo 5. 1986 Aerial Photograph

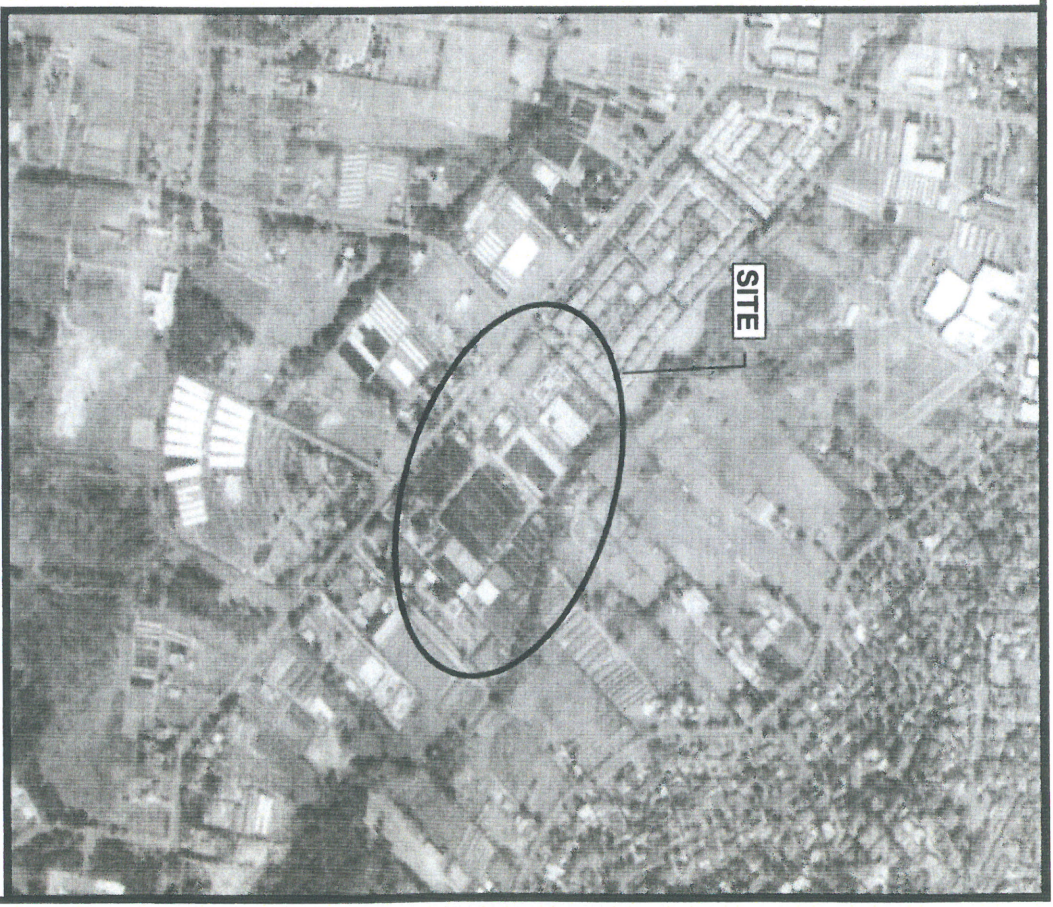


Photo 6. 1994 Aerial Photograph

Preliminary Contamination Assessment
Sector 3, MacPherson Street
Warriewood Valley

Project 37273

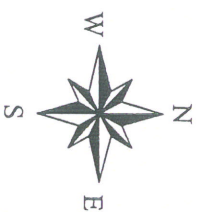
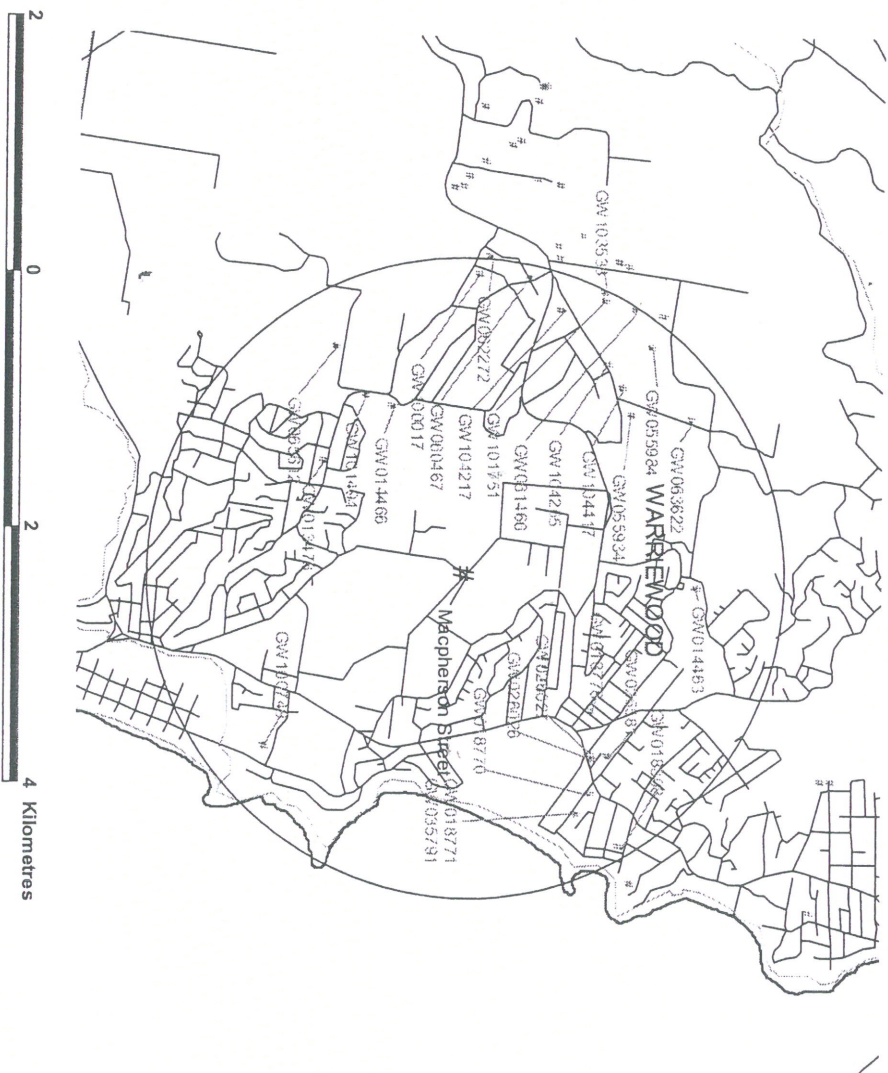
November
2004

Plate 3



Douglas Partners
Geotechnics • Environment • Groundwater

APPENDIX D
DIPNR Groundwater Bore Search

[illegible]

Groundwater Bores
Parish
Coastal Zones
Roads
Rail

Project No.	HISC0001	Station No.	GW060467	Collect Date	21-Feb-83	Determinand	pH	Result	Units
	HISC0001		GW060467		21-Feb-83		Electrical Conductivity @25 C	154	uS/cm
	HISC0001		GW063622		19-Sep-86		Zinc as Zn - total	ND	mg/L
	HISC0001		GW063622		19-Sep-86		Electrical Conductivity @25 C	200	uS/cm
	HISC0001		GW063622		19-Sep-86		pH	4.6	pH
	HISC0001		GW063622		19-Sep-86		Calcium as Ca - total	1.7	mg/L
	HISC0001		GW063622		19-Sep-86		Copper as Cu - total	ND	mg/L
	HISC0001		GW063622		19-Sep-86		Sodium as Na - soluble	28.9993	mg/L
	HISC0001		GW063622		19-Sep-86		Potassium as K - soluble	ND	mg/L
	HISC0001		GW063622		19-Sep-86		Chloride as Cl	66.9991	mg/L
	HISC0001		GW063622		19-Sep-86		Magnesium as Mg - total	3.6001	mg/L
	HISC0001		GW063622		19-Sep-86		Iron as Fe - total	0.7	mg/L
	HISC0001		GW063622		19-Sep-86		Manganese as Mn - total	ND	mg/L

Date/Time :02-Nov-2004 11:53 AM
User :STANNER
Report :RMGW001D.QRP
Executable :S:\G5\PROD32\Ground.exe
Exe Date :24-Sep-2004
System :Groundwater
Database :ddbp

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW013478

License :10BL008606

Work Type :Bore open thru rock
Work Status :Unknown
Construct. Method :Cable Tool
Owner Type :Private
Contractor Name :
Driller :
Property : - ELENORA COTTAGE
GWA :603 - SYDNEY BASIN
GW Zone : -
Standing Water Level :
Salinity :
Yield :
(Unknown)

Site Details

Site Chosen By

Form A :CUMBERLAND
Licensed :CUMBERLAND
Region :10 - SYDNEY SOUTH COAST
River Basin :213 - SYDNEY COAST - GEORGES RIVER
Area / District :
Elevation :
Elevation Source :(Unknown)
GS Map :0055B3
AMG Zone :56
Coordinate Source :GD,PR,MAP
Northing :6270085
Easting :340585
Latitude (S) :33° 41' 50"
Longitude (E) :151° 16' 48"

Construction

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
H P Component Type
1 1 Casing
1 1 Threaded Steel
From (m) To (m) OD (mm) ID (mm) Interval Details
0.00 0.00 3.20 152 (Unknown)
WBZ Type
To (m) Thickness (m) Consolidated
18.20 18.20 0.00 Consolidated

Water Bearing Zones

From (m) To (m) S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)
18.20 18.20 0.00 (Unknown)

Drillers Log

From (m) To (m) Drillers Description
0.00 7.62 Sandstone
0.00 7.62 Clay Bands
7.62 7.62 Sandstone Coloured
15.24 15.24 Sandstone
30.48 30.48 Sandstone Water Supply
45.72 45.72 Sandstone
45.72 45.72 Clay Bands
46.02 46.02 Sandstone
47.85 47.85 1.83 Shale Dark Grey
Geological
Sandstone
Clay
Shale
Comments

Pumping Tests - Summaries

Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
Single-Rate Pumping Test 01-Oct-1958 (Unknown)

Pumping Tests - Readings

Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method Duration Success
(No Chemical Treatment Details Found)

Development

Method Time Taken
Other Development Method
(No Development Details Found)

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW013478

Converted From HYDSYS

Remarks

SITED KYWONG RD, NARRABEEN

*** End of GW013478 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

GW014463

License: 10BL007411

Authorised Purpose(s)
RECREATION (GROUNDWATER)
IRRIGATION
Intended Purpose(s)

Work Type: Excavation
Work Status: Supply Obtained
Construct. Method: > 100 sq.m.
Owner Type: Private

Commented Date: 1.50 m
Final Depth: 1.50 m
Drilled Depth: 1.50 m

Contractor Name:
Driller:

Property: - N/A
GWMA: 603 - SYDNEY BASIN
GW Zone: -

Standing Water Level:
Salinity:
Yield:

501-1000 ppm

Site Details

Site Chosen By

County
Form A: CUMBERLAND
Licensed: CUMBERLAND
Parish
NARRABEEN
NARRABEEN
Portion/Lot DP
19
PT 19

Region: 10 - SYDNEY SOUTH COAST
River Basin: 212 - HAWKESBURY RIVER
Area / District:

Elevation:
Elevation Source: (Unknown)

GS Map: 0055B3

AMG Zone: 56

Coordinate Source: GD, PR, MAP

Construction

H P Component Type
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

(No Construction Details Found)

Water Bearing Zones

From (m)
To (m) Thickness (m) WBZ Type

S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m) To (m) Thickness (m) Drillers Description
0.60 0.60 0.60 Soil Sandy
0.92 Sand Water Supply

Geological
Stratigraphical
Sand

Comments

Pumping Tests - Summaries

Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By

(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method Duration Success

(No Chemical Treatment Details Found)

Development

Method Time Taken

(No Development Details Found)

Remarks

BAYVIEW GOLF LINKS MONA VALE

*** End of GW014463 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW014466

Converted From HYDSYS

License :10BL010502

Authorised Purpose(s) DOMESTIC
Intended Purpose(s) DOMESTIC

Work Type :Bore open thru rock
Work Status :Unknown
Construct. Method :Cable Tool
Owner Type :Private

Commenced Date :
Completion Date :01-May-1960
Contractor Name :
Driller :

Property : - GREEN ACRES
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity :
Yield :

(Unknown)

Site Details

Site Chosen By

County
Form A :CUMBERLAND
Parish
NARRABEEN
Porton/Lot DP
63
PT 63

Region :10 - SYDNEY SOUTH COAST
River Basin :13 - SYDNEY COAST - GEORGES RIVER
Area / District :

CMA Map :9130-1S
Grid Zone :56/1

MONA VALE
Scale :1:25,000

Elevation :
Elevation Source :Unknown

Northing :6270628
Easting :340155

Latitude (S) :33° 41' 32"
Longitude (E) :151° 16' 31"

Coordinate Source :GD, PR, MAP

Construction

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
H P Component Type
1 Casting
Asbestos Cement
From (m) To (m) Thickness (m) WBZ Type
0.00 0.00 Consolidated
S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L) (Unknown)

Water Bearing Zones

From (m) To (m) Thickness(m) Drillers Description
1.21 0.00 1.21 Soil
35.35 34.14 Sandstone Water Supply
Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
Single-Rate Pumping Test 01-May-1960 16.40 0.01 Baller
Pumping Tests - Summaries
Pumping Tests - Readings
(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method
Duration Success
(No Chemical Treatment Details Found)

Development

Method
Time Taken
Other Development Method
(No Development Details Found)

Remarks

INGLESIDE RD NTH NARRABEEN

*** End of GW014466 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

License: 10BL011401

Work Type: Bore open thru rock	Work Status: (Unknown)	Construct. Method: Cable Tool	Owner Type: Private
Completed Date: 01-Aug-1960	Final Depth: 40.20 m	Drilled Depth: 40.20 m	
Contractor Name: Driller:	Property: - N/A	GWMA: 603 - SYDNEY BASIN	GW Zone: -
Standing Water Level: Salinity: Yield:	(Unknown)		

Site Details

Site Chosen By

County	Form A: CUMBERLAND	Parish	NARRABEEN	Porton/Lot DP	17	129305
Region: 10 - SYDNEY SOUTH COAST	Licensed: CUMBERLAND	CMA Map: 9130-1S	Grid Zone: 56/1	Scale: 1:25,000	Latitude (S): 33° 40' 43"	Longitude (E): 151° 18' 29"
River Basin: 212 - HAWKESBURY RIVER						
Area / District:						
Elevation: (Unknown)						
GS Map: 0055B3	AMG Zone: 56	Coordinate Source: GD, PR, MAP				

Construction

H P Component	Type	Threading	Steel	From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
1	Casting			0.00	12.10	152	(Unknown)	3.60	0.34				
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													

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)	Comments
22.20	40.10	17.90	(Unknown)	3.60	0.34					Geological Material
0.00	2.74	2.74	Clay Red							Shale
2.74	7.01	4.27	Clay White							Shale
9.75	12.19	2.44	Shale Black							Shale
21.94	40.23	18.29	Shale Sandy Water Supply							

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
0.00	2.74	2.74	Clay Red	Pumping Test	01-Aug-1960	24.00	5.40	9.10	0.34	18.00 Jet Pump				
2.74	7.01	4.27	Clay White											
9.75	12.19	2.44	Shale Black											
21.94	40.23	18.29	Shale Sandy Water Supply											
(No Pumping Test Reading Details Found)														

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
Single-Rate Pumping Test	01-Aug-1960	24.00	5.40	9.10	0.34	18.00 Jet Pump				
(No Chemical Treatment Details Found)										

Chemical Treatment

Treatment Method	Success	Duration	Development Method	Time Taken	Remarks
(No Development Details Found)					

Remarks

TWO BORES 21.3 M APART LOT 1 DARLEY ST MONA VALE

*** End of GW018770 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

GW018771

License:10BL011402

Authorised Purpose(s)	WASTE DISPOSAL
Intended Purpose(s)	WASTE DISPOSAL

Work Type: Bore open thru rock
Work Status: Supply Obtained
Construct. Method: Cable Tool
Owner Type: Private

Owner Type: Private

Commenced Date :
Completion Date : 01-Nov-1960

Contractor Name :
Driller :

Property : - N/A

GWMA:603 - SYDNEY BASIN
GW Zone: -

GW Zone: -

Site Details

Site Chosen By

County
Form A: CUMBERLAND
Licensed: CUMBERLAND

CMA Map:9130-1
Grid Zone:56/1

MONA VALE
Scale : 1:25,000

Elevation :
Elevation Source : (Unknown)

Region : 10 - SYDNEY SOUTH COAST
River Basin : 212 - HAWKESBURY RIVER
Area / District :

GS Map:0055B3

AMG Zone:56

Coordinate Source: GD, PR, MAP

Latitude (S): 33° 40' 46"
Longitude (E): 151° 18' 36"

Construction

H	P	Component	Type	(Unknown)
1	1	Casing		

Water Bearing Zones	
From (m)	To (m)
92.00	93.80
64.00	68.50
	4.50 Fractured
	1.80 Fractured
	WBZ Type

Drillers Log

Drillers Description	Thickness (m)	From (m)
1.52 Subsoil	1.52	0.00
13.54 Clay	17.06	1.52
19.51 Shale	36.57	17.06
3.05 Shale	39.62	36.57
24.38 Shale	64.00	39.62
4.58 Shale	68.58	64.00
7.92 Shale	76.50	68.58
1.83 Slate	78.33	76.50
13.71 Shale	92.04	78.33
1.83 Shale	93.87	92.04
4.88 Shale	98.75	93.87
1.22 Shale	99.97	98.75
0.61 Shale	100.58	99.97

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method
(No Pumping Test Summary Details Found)							

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method
<i>(No Pumping Test Reading Details Found)</i>							

Chemical Treatment

Treatment	Method	Duration	Success
(No Chemical Treatment Details Found)			

Development

Method	Time Taken	Other Development Method
(No Development Details Found)		

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.

Work Summary

Converted From HYDSYS

GW018771

Remarks

RECHARGE TEST CAPACITY 0.303 L/S LOT 7 DARLEY ST MONA VALE

*** End of GW018771 ***

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

GW018778

License :10BL011400

Authorised Purpose(s) WASTE DISPOSAL
Intended Purpose(s) WASTE DISPOSAL

Work Type :Bore open thru rock
Work Status : (Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Commented Date : Completion Date :01-Oct-1960
Final Depth : 124.90 m
Drilled Depth : 125.00 m

Contractor Name :
Driller :

Property : - N/A
GWA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity :
Yield :
(Unknown)

Site Details

Site Chosen By

County CUMBERLAND
Form A :CUMBERLAND
Licensed :CUMBERLAND
Parish NARRABEEN
CMA Map :9130-1S
Grid Zone :561
Scale :1:25,000
MONA VALE
SEC 3
2 752046
Portion/Lot DP

Region :10 - SYDNEY SOUTH COAST
River Basin :212 - HAWKESBURY RIVER
Area / District :

Elevation :
Elevation Source : (Unknown)

GS Map :0055B3
AMG Zone :56

Coordinate Source :GD,P.R. MAP

Construction

H P Component Type
1 1 Casing Threaded Steel
From (m) 42.60
To (m) 74.60
WBZ Type 1.50 Unconsolidated
S.W.L. (m) 21.30
D.D.L. (m) 21.30
Yield (L/s) 0.15
Hole Depth (m) (Unknown)
Duration (hr) (Unknown)
Salinity (mg/L) (Unknown)

Water Bearing Zones

S.W.L. (m) 21.30
D.D.L. (m) 21.30
Yield (L/s) 0.15
Hole Depth (m) (Unknown)
Duration (hr) (Unknown)
Salinity (mg/L) (Unknown)

Drillers Log

From (m) 0.00
To (m) 19.81
Thickness(m) Drillers Description
19.81 Clay Red
24.38 Clay Yellow Sandy Water Supply
3.05 Sandstone Yellow
1.52 Clay Grey
5.49 Shale Grey
20.42 Shale Red Water Supply
50.29 Shale Black
124.96
74.67
54.25
48.76
47.24
44.19
19.81

Pumping Tests - Summaries

Pumping Test Type
Single-Rate Pumping Test
Date 01-Oct-1960
Duration (hr) 8.00
S.W.L. (m) 21.30
D.D.L. (m) 30.40
Yield (L/s) 0.34
Intake Depth (m) Test Method
36.00 Jet Pump
To Measure Water Level To Measure Discharge Tested By

Pumping Tests - Readings

Pumping Test Type
Date
Time (mins)
S.W.L. (m) D.D.L. (m)
Yield (L/s) Intake Depth (m) Test Method
(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method
Success
(No Chemical Treatment Details Found)

Development

Method
Time Taken
Other Development Method
(No Development Details Found)

Remarks

LOT 2 SECT 3 PARK ST TURIMETTA

*** End of GW018778 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW018808

Converted From HYDSYS

Intended Purpose(s)
WASTE DISPOSAL

Authorised Purpose(s)
WASTE DISPOSAL

Work Type : Bore open thru rock

Work Status : (Unknown)

Construct. Method : Cable Tool

Owner Type : Private

Commented Date :

Completion Date : 01-Dec-1960

Final Depth : 91.40 m
Drilled Depth : 91.40 m

Contractor Name :

Driller :

Property : - N/A

GWMA : 603 - SYDNEY BASIN

GW Zone : -

Site Details

Site Chosen By

County
Form A : CUMBERLAND
Licensed : CUMBERLAND

Parish
NARRABEEN
NARRABEEN

Portion/Lot DP
PT 17
MONA VALE

Region : 10 - SYDNEY SOUTH COAST
River Basin : 212 - HAWKESBURY RIVER
Area / District :

Elevation :
Elevation Source : (Unknown)

GS Map : 0055B3

AMG Zone : 56

Coordinate Source : GD, PR, MAP

Northing : 6272425
Easting : 343587
Latitude (S) : 33° 40' 35"
Longitude (E) : 151° 18' 46"

Construction

H P Component Type
I Casing
Threaded Steel

From (m)

To (m) OD (mm)
-0.30 24.90 152

ID (mm)
Interval Details
Driven Into Hole

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type

S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m) To (m) Thickness (m) Drillers Description

0.00 11.88 Sand
11.88 12.19 Clay
12.19 24.07
24.07 91.44
91.44 67.37 Shale Grey

Geological
Stratigraphical
Clay
Shale

Pumping Tests - Summaries

Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method

Single-Rate Pumping Test 01-Dec-1960 1.30 (hr) 1.80 1.06 Balier

To Measure Water Level To Measure Discharge Tested By

Pumping Tests - Readings

Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method

(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method Duration Success

(No Chemical Treatment Details Found)

Development

Method Time Taken Other Development Method

(No Development Details Found)

Remarks

SITED 33 BASSETT ST. MONA VALE

*** End of GW018808 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW026026

License: 10BL019199

Work Type: Bore open thru rock
Work Status: (Unknown)
Construct. Method: Cable Tool
Owner Type: Private

Commenced Date: 01-Nov-1966
Completion Date: 01-Nov-1966
Contractor Name: Driller:

Property: - N/A
GWA: 603 - SYDNEY BASIN
GW Zone: -

Site Details

Site Chosen By

County: NARRABEEN
Form A: CUMBERLAND
Licensed: CUMBERLAND
Parish: NARRABEEN
CMA Map: 9130-1S
Grid Zone: 56/1
MONA VALE
Scale: 1:25,000
Portion/Lot DP: 17
N/A

Region: 10 - SYDNEY SOUTH COAST
River Basin: 12 - HAWKESBURY RIVER
Area / District:

Elevation: (Unknown)
Elevation Source: (Unknown)

GS Map: 0055B3
AMG Zone: 56

Coordinate Source: GD, PR, MAP

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperature; GS-Grain Size; Q-Quantity
H P Component Type
1 1 Opening Slots
1 1 Casing (Unknown)
From (m) To (m) OD (mm) ID (mm) Interval Details
0.00 0.00 18.80 152
0.00 0.00 152
S.W.L. (m) D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L) (Unknown) Fresh

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type
34.10 15.50 0.00 Fractured
35.00 0.90 Consolidated

Drillers Log

From (m) To (m) Thickness (m) Drillers Description
0.00 6.09 6.09 Clay
6.09 7.62 1.53 Sandstone Hard
7.62 9.14 1.52 Sandstone Weathered
9.14 17.67 8.53 Shale Water Supply
17.67 33.52 15.85 Shale Black
33.52 35.05 1.53 Sandstone Hard Water Supply
35.05 37.18 2.13 Shale
37.18 37.49 0.31 Sandstone
37.49 51.81 14.32 Shale Black Red

Pumping Tests - Summaries

Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
Single-Rate Pumping Test 01-Nov-1966 1.00 (hr) 2.40 0.57 Bailer

Pumping Tests - Readings

Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method Duration Success
(No Chemical Treatment Details Found)

Development

Method Time Taken
Other Development Method
(No Development Details Found)

Remarks

BARRENJOBY RD MONA VALE

*** End of GW026026 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

GW026027

License: 10BL019583

Authorised Purpose(s) DOMESTIC
Intended Purpose(s) GENERAL USE

Work Type: Bore open thru rock
Work Status: (Unknown)
Construct. Method: Cable Tool
Owner Type: Private

Commenced Date: Completion Date: 01-Dec-1966
Final Depth: 61.50 m
Drilled Depth: 61.70 m

Contractor Name: Driller: Property: - N/A
GWMA: 603 - SYDNEY BASIN
GW Zone: -

Standing Water Level: Salinity: Yield: Fresh

Site Details

Site Chosen By

County Form A: CUMBERLAND
Parish NARRABEEN
Portion/Lot DP 17
N/A

Region: 10 - SYDNEY SOUTH COAST
River Basin: 212 - HAWKESBURY RIVER
Area / District:

Elevation: Elevation Source: (Unknown)
GS Map: 0055B3
AMG Zone: 56

Coordinate Source: GD, PR, MAP
Northing: 6272195
Easting: 342860
Latitude (S): 33° 40' 42"
Longitude (E): 151° 18' 17"

Construction

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
H P Component Type 1 1 Casting (Unknown)
From (m) To (m) Thickness (m) W/BZ Type 0.00 Consolidated 12.10 0.00 (Unknown) 48.70 56.30 0.00 Fractured 4.50 4.50 S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L) Fresh Fresh Fresh

Water Bearing Zones

From (m) To (m) Thickness (m) Drillers Description 0.00 9.14 9.14 Clay 9.14 10.36 1.22 Sandstone 10.36 48.76 38.40 Sandstone Grey Water Supply 48.76 56.38 7.62 Shale Water Supply 56.38 59.58 3.20 Rock Hard 61.72 2.14 Shale Grey 59.58

Drillers Log

Pumping Tests - Summaries
Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
Single-Rate Pumping Test 01-Dec-1966 2.00 (hr) 4.50 0.44 Bailer
Pumping Tests - Readings
Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By
(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method Duration Success
(No Chemical Treatment Details Found)

Development

Method Time Taken
(No Development Details Found)

Remarks

BARRENJOBY RD MONA VALE

*** End of GW026027 ***

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

GW026581

License :10BL019607

Work Type :Bore open thru rock	Work Status :(Unknown)	Construct. Method :Cable Tool	Owner Type :Private	Commenced Date :01-Jan-1967	Contractor Name :Driller :	Property : - N/A	GWMA :603 - SYDNEY BASIN	GW Zone : -
Authorised Purpose(s)	Intended Purpose(s)	Standing Water Level : Salinity : Yield :	(Unknown)					

Site Details

Site Chosen By

Site Chosen By	County	Form A : CUMBERLAND	Parish	NARRABEEN	Porton/Lot DP	17	N/A	MONA VALE	Scale : 1:25,000	Area / District :	Region : 10 - SYDNEY SOUTH COAST	River Basin : 212 - HAWKESBURY RIVER	Elevation :	Elevation Source : (Unknown)	GS Map : 0055B3	AMG Zone : 56	Coordinate Source : GD, PR, MAP	Northing : 6272330	Easting : 342880	Latitude (S) : 33°	Longitude (E) : 151°
----------------	--------	---------------------	--------	-----------	---------------	----	-----	-----------	------------------	-------------------	----------------------------------	--------------------------------------	-------------	------------------------------	-----------------	---------------	---------------------------------	--------------------	------------------	--------------------	----------------------

Construction

H P Component Type	1 Casting	(Unknown)	From (m)	0.00	To (m)	31.60	OD (mm)	203	ID (mm)	Interval	Details	Driven into Hole
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												

Water Bearing Zones

From (m)	13.70	To (m)	13.70	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
28.00	28.00	0.00	Fractured	2.40	2.40	0.38	(Unknown)	0.38	(Unknown)	0.38	(Unknown)
56.30	56.30	0.00	Consolidated	2.40	2.40	0.38	(Unknown)	0.38	(Unknown)	0.38	(Unknown)
71.30	71.30	0.00	Fractured	2.40	2.40	0.51	(Unknown)	0.51	(Unknown)	0.51	(Unknown)
86.80	86.80	0.00	Fractured	1.50	1.50	1.52	(Unknown)	1.52	(Unknown)	1.52	(Unknown)

Drillers Log

From (m)	0.00	To (m)	12.19	Thickness(m)	Drillers Description	Geological	Comments
12.19	12.19	0.92	Shale Red Water Supply	14.93	Shale Red Water Supply	Shale	
27.12	27.12	0.92	Rock Grey Hard	0.92	Rock Grey Hard	Rock	
28.04	28.04	23.77	Shale Black Water Supply	23.77	Shale Black Water Supply	Shale	
51.81	51.81	4.57	Rock Grey Hard	4.57	Rock Grey Hard	Rock	
56.38	56.38	4.58	Sandstone Water Supply	4.58	Sandstone Water Supply	Sandstone	
60.96	60.96	10.36	Rock	10.36	Rock	Rock	
71.32	71.32	5.48	Shale Hard Water Supply	5.48	Shale Hard Water Supply	Shale	
76.80	76.80	16.16	Rock Black Hard Water Supply	16.16	Rock Black Hard Water Supply	Rock	

Pumping Tests - Summaries

Pumping Test Type	Date	Duration	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
Single-Rate Pumping Test	01-Jan-1967	0.50 (hr)	1.50		1.52		Ballor			

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
(No Pumping Test Reading Details Found)										

Chemical Treatment

Treatment Method	Duration	Success	(No Chemical Treatment Details Found)
------------------	----------	---------	---------------------------------------

Development

Method	Time Taken	Other Development Method	(No Development Details Found)
--------	------------	--------------------------	--------------------------------

Remarks

DARLEY ST MONA VALE

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

Authorised Purpose(s) DOMESTIC
Intended Purpose(s) DOMESTIC

Work Type : Bore open thru rock
Work Status : (Unknown)
Construct. Method : Cable Tool
Owner Type : Private

Commenced Date :
Completion Date : 01-Dec-1981
Contractor Name :
Driller : 1441
BARRETT, Roy Max

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :
Good

Site Details

Site Chosen By

County CUMBERLAND
Form A : CUMBERLAND
Licensed : CUMBERLAND
Region : 10 - SYDNEY SOUTH COAST
River Basin : 213 - SYDNEY COAST - GEORGES RIVER
Area / District :
Elevation :
Elevation Source : (Unknown)
GS Map : 0055B3
AMG Zone : 56

Coordinate Source :
Northing : 6272502
Easting : 340215
Latitude (S) : 33° 40' 31"
Longitude (E) : 151° 16' 35"

Construction

H P Component Type
1 Casing
Threaded Steel
From (m) 0.00
To (m) 3.00
OD (mm) 200
ID (mm) Interval Details
Suspended in Clamps

Water Bearing Zones

From (m) 15.00
To (m) 60.00
Thickness (m) WBZ Type
45.00 Consolidated

S.W.L. (m) 6.00
D.D.L. (m)
Yield (L/s) 0.18
Hole Depth (m)
Duration (hr)
Salinity (mg/L) Good

Drillers Log

From (m) 34.00
To (m) 0.00
Thickness (m) Drillers Description
34.00 Sandstone Water Supply
34.00 Clay Seams Water Supply
26.00 Sandstone White Water Supply

Geological
Stratigraphy
Clay
Sandstone

Pumping Tests - Summaries

Pumping Test Type
Date
Duration (hr)
S.W.L. (m) D.D.L. (m)
Yield (L/s)
Intake Depth (m) Test Method
To Measure Water Level
To Measure Discharge
Tested By

Pumping Tests - Readings

Pumping Test Type
Date
Time (mins)
S.W.L. (m) D.D.L. (m)
Yield (L/s)
Intake Depth (m) Test Method
To Measure Water Level
To Measure Discharge
Tested By

Chemical Treatment

Treatment Method
Duration
Success
(No Chemical Treatment Details Found)

Development

Method
Time Taken
Other Development Method
(No Development Details Found)

Remarks

*** End of GW055934 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

License :10BL121849

Work Type :Bore	Work Status :Unknown	Construct. Method :Cable Tool	Owner Type :Private	Completed Date :01-Dec-1981	Contractor Name :	Driller :	Property : - N/A	GWMA : -	GW Zone : -	Standing Water Level :	Salinity :	Yield :	(Unknown)
Intended Purpose(s)	DOMESTIC	STOCK	Authorised Purpose(s)	DOMESTIC	STOCK	Intended Purpose(s)	DOMESTIC	STOCK	Intended Purpose(s)	DOMESTIC	STOCK	Intended Purpose(s)	DOMESTIC

Site Details

Site Chosen By

County
Form A :CUMBERLAND
Licensed :CUMBERLAND
Parish
NARRABEEN
NARRABEEN
Portion/Lot DP
203
203
MONA VALE
Scale :1:25,000

Region :10 - SYDNEY SOUTH COAST
River Basin :212 - HAWKESBURY RIVER
Area / District :

Elevation :
Elevation Source :Unknown

GS Map :0055B3

AMG Zone :56

Coordinate Source :

Northing :6272663
Easting :339682
Latitude (S) :33° 40' 25"
Longitude (E) :151° 16' 14"

Construction

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
H P Component Type
1 1 Casting
1 1 (Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type
18.00	19.00	1.00 (Unknown)	
26.00	27.00	1.00 (Unknown)	
48.00	49.00	1.00 (Unknown)	

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description
0.00	16.00	16.00 Sandstone	
16.00	18.00	2.00 Ironstone	
18.00	28.00	10.00 Sandstone Shaley Water Bearing	
28.00	30.00	2.00 Ironstone	
30.00	44.00	14.00 Sand Silty	
44.00	45.00	1.00 Ironstone	
45.00	53.00	8.00 Sand Silty Water Bearing	

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
Single-Rate Pumping Test	11-Dec-1981		44.20		0.22		(Unknown)			

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
(No Pumping Test Reading Details Found)										

Chemical Treatment

Treatment Method	Duration	Success	(No Chemical Treatment Details Found)

Development

Method	Time Taken	Other Development Method	(No Development Details Found)

Remarks

*** End of GW055984 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

Work Summary

License: 10BL122807

Intended Purpose(s) _____

Owner Type:Private

Final Depth :	130.10 m
Drilled Depth :	0.00

Driller :
for Name :

Standing Water Level :
Salinity :

(Unknown)

Site Chosen By

Parish
NARRABEEN
NARRABEEN
Porton/Lot DP
L14 DP12115 (81)
NOT AVAILABLE

MONA VALE
Scale : 1:25,000

Northing: 6271700
 Easting: 339135
 Latitude (S): 33° 40' 56"
 Longitude (E): 151° 15' 53"

AMG Zone :56

Coordinate Source: GD, ACC.MAP

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

From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
0.00	9.10	152			Driven into Hole

From (m) To (m) Thickness (m) WBZ Type

Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
-------------	----------------	---------------	-----------------

From (m) To (m) Thickness(m) Drillers Description

Comments

(No Pumping Test Reading Details Found)

To Measure Water Level	To Measure Discharge	Tested By

To Measure Water Level	To Measure Discharge	Tested By

(No Chemical Treatment Details Found)

(No Development Details Found)

Remarks

*** End of GW060467 ***

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.

Work Summary

GW061466

Converted From HYDSYS

License :10BL133892		Work Type :Bore	Work Status :(Unknown)	Construct. Method :(Unknown)	Owner Type :Private	Commenced Date :	Completion Date :01-Jan-1983	Contractor Name :	Driller :	Property : - N/A	GWMA : -	GW Zone : -
Authorised Purpose(s)	Intended Purpose(s)	DOMESTIC	DOMESTIC	Standing Water Level :		Salinity :	Yield :	(Unknown)				
Site Details												

Site Chosen By	County	Parish	Portion/Lot DP										
	Form A :CUMBERLAND	NARRABEEN	61										
	Licensed :CUMBERLAND	NARRABEEN	3										
Region :10 - SYDNEY SOUTH COAST													
River Basin :212 - HAWKESBURY RIVER													
Area / District :													
Elevation :													
Elevation Source :(Unknown)													
GS Map :0055B3													
AMG Zone :56													
Coordinate Source :GD,,ACC,MAP													
Northing :6272525													
Easting :339395													
Latitude (S) :33° 40' 30"													
Longitude (E) :151° 16' 3"													
	Scale :1:25,000												
	MONA VALE												
	CMA Map :9130-1S												
	Grid Zone :56/1												

Pumping Tests - Summaries												
(No Drillers Log Details Found)												
(No Pumping Test Reading Details Found)												
Pumping Test Type												
Date												
Time (mins)												
S.W.L. (m)												
D.D.L. (m)												
Yield (L/s)												
Intake Depth (m)												
Test Method												
To Measure Water Level												
To Measure Discharge												
Tested By												
Pumping Test Type												
Date												
Duration (hr)												
S.W.L. (m)												
D.D.L. (m)												
Yield (L/s)												
Intake Depth (m)												
Test Method												
To Measure Water Level												
To Measure Discharge												
Tested By												
Single-Rate Pumping Test												
01-Jan-1986												
18.30												
0.19												
(Unknown)												
Pumping Test Type												
Date												
Time (mins)												
S.W.L. (m)												
D.D.L. (m)												
Yield (L/s)												
Intake Depth (m)												
Test Method												
To Measure Water Level												
To Measure Discharge												
Tested By												

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW063622

Converted From HYDSYS

License :10BL135164		Work Type :Bore	Work Status :(Unknown)	Construct. Method :Cable Tool	Owner Type :Private	Completed Date :01-Sep-1986	Contractor Name : Driller :1435	Property : - N/A	GWMA : -	GW Zone : -	Site Details		
Intended Purpose(s) DOMESTIC		Authorised Purpose(s) DOMESTIC		Standing Water Level : Salinity : Yield :		Fresh		Final Depth : 46.00 m		Drilled Depth : 46.00 m		ISELT, John Hans	

Site Details

Construction

H P Component	Type	From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)	Comments
1	Casing	22.30	37.80	0.30 Consolidated		9.00	20.00	0.30	0.10		Fresh	
1	Casing	37.20		0.60 Consolidated							Fresh	
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												
Interval Details Cemented (Unknown)												
ID (mm) OD (mm)												
6.20 168												
To (m) OD (mm)												
-0.30 168												
From (m) ID (mm)												
0.00 6.20												
Pressure Cemented Casing												

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)	Comments
37.20	22.30	15.90	Consolidated	9.00	20.00	0.30	0.10		Fresh	
22.30	37.80	15.50	Consolidated							
0.00	0.80	0.80	0.80 Soil Sandy							
0.80	1.60	0.80	0.80 Clay Sandy Gravel							
1.60	2.90	1.30	Shale							
2.90	46.00	43.10	Sandstone Yellow							

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
37.20	22.30	15.90	Consolidated	9.00	20.00	0.30	0.10				
22.30	37.80	15.50	Consolidated								
0.00	0.80	0.80	0.80 Soil Sandy								
0.80	1.60	0.80	0.80 Clay Sandy Gravel								
1.60	2.90	1.30	Shale								
2.90	46.00	43.10	Sandstone Yellow								

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
Single-Rate Pumping Test	12-Sep-1986	2.00	9.00	46.00	0.30	0.10	Bailer			

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
(No Pumping Test Reading Details Found)										

Chemical Treatment

Treatment Method	Duration	Success	(No Chemical Treatment Details Found)
Development Method			
Other Development Method			
(No Development Details Found)			

Remarks

*** End of GW063622 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

Converted From HYDSYS

GW065612

Intended Purpose(s)
G/WATER XPLORE

Authorised Purpose(s)

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Commenced Date :
Completion Date :08-Nov-1988
Final Depth :
Drilled Depth :120.00 m

Contractor Name :
Driller :

Property :
GWMA :
GW Zone :
Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CUMBERLAND
Licensed :

Parish
NARRABEEN

Portion/Lot DP
82

Region :10 - SYDNEY SOUTH COAST
River Basin :213 - SYDNEY COAST - GEORGES RIVER

Area / District :

Elevation :
Elevation Source :

GS Map :0055B3

AMG Zone :56

Coordinate Source :

Northings :6270180
Eastings :339700
Latitude (S) :33° 41' 46"
Longitude (E) :151° 16' 13"

CMA Map :9130-1S
Grid Zone :56/1
Scale :1:25,000
MONA VALE

Construction

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
H P Component Type
1 1 Casing Steel
1 1 Casing (Unknown)
From (m) To (m) OD (mm) ID (mm) Interval Details
6.00 0.00 6.00 203
120.00 150

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type
46.30	66.00	19.70	Consolidated
66.00	80.00	14.00	
89.00	99.00	10.00	
99.00	108.00	9.00	
108.00	120.00	12.00	

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description
46.30	66.00	19.70	Consolidated
66.00	80.00	14.00	
89.00	99.00	10.00	
99.00	108.00	9.00	
108.00	120.00	12.00	

Pumping Test Type
Date
Duration
S.W.L. (m)
D.D.L. (m)
Yield (L/s)
Intake Depth (m)
Test Method
To Measure Water Level
To Measure Discharge
Tested By

Single-Rate Pumping Test - 08-Nov-1988
46.30
Air Lift

(No Pumping Test Reading Details Found)

Chemical Treatment
Treatment Method
Duration
Success
(No Chemical Treatment Details Found)

Development
Method
Time Taken
Other Development Method
(No Development Details Found)

Remarks

*** End of GW065612 ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW100017

License :10BL153221

Intended Purpose(s)

Authorised Purpose(s)

Work Type :Bore

Work Status :(Unknown)

Construct. Method :Other

Owner Type :

Completed Date :

Final Depth : 151.00 m

Drilled Depth : 151.00 m

Contractor Name :INTERTECH DRILLING

Driller :1489

BARDEN, Colin Leslie

Property : - AGOSTINO

GWMA : -

GW Zone : -

Site Details

Site Chosen By

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

Elevation :

Elevation Source :

GS Map :

AMG Zone :56

Coordinate Source :

Northing :6271312

Easting :339066.301

Latitude (S) :33° 41' 9"

Longitude (E) :151° 15' 51"

Scale :

CMA Map :

Parish

NARRABEEN

NARRABEEN

County

Form A :CUMBERLAND

Licensed :CUMBERLAND

Portion/Lot DP

LOT 38 DP12115

38 12115

Standing Water Level :

Salinity :

200.00 mg/L

Yield :

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

Construction

H P Component Type

Hole

Hole

Hole

1 Casing Steel

Water Bearing Zones

From (m)

To (m)

Thickness (m)

WBZ Type

13.00

0.50

80.00

20.00

11.00

62.00

Yield (L/s)

0.10

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

6.00

Drillers Log

From (m)

To (m)

Thickness (m)

Drillers Description

2.00 OVERBURDEN & FILLING

1.50 ORANGE MED. GRAIN S.S.

0.30 WHITE CLAY BAND

1.20 ORANGE & WHITE MED. GRAIN S.S.

36.00 WHITE S.S. & BED CLAY

0.20 SMALL CAVITY

8.80 WHITE S.S. & BED SHALE

1.00 WHITE S.S. & BED SHALE

0.50 SHALE BANDS

8.50 WHITE S.S. & BED SHALE

20.00 WHITE OPEN S.S. & WATER BEARING

19.00 WHITE/ORANGE S.S. CLAY IN MATRIX

0.20 SMALL CAVITY

4.80 WHITE S.S. & BED SHALE

8.00 WHITE GREY S.S. MED. GRAIN

3.00 WHITE S.S. & BED SHALE

17.00 WHITE L.G.S.S. WITH SMALL FRACTURED

5.00 WHITE S.S. OPEN WATER BEARING

2.00 WHITE S.S. & BED SHALE

12.00 WHITE S.S. MED. GRAIN

0.00 E.O.H.

Pumping Tests - Summaries

Pumping Test Type

Date

Duration (hr)

S.W.L. (m) D.D.L. (m)

Yield (L/s)

Intake Depth (m)

Test Method

To Measure Water Level

To Measure Discharge

Tested By

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type

Date

Time (mins)

S.W.L. (m) D.D.L. (m)

Yield (L/s)

Intake Depth (m)

Test Method

To Measure Water Level

To Measure Discharge

Tested By

(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment

Method

Duration

Success

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

(No Chemical Treatment Details Found)

Development

Time Taken

Other Development Method

(No Development Details Found)

Remarks

*** End of GW100017 ***

Work Summary

GW100749

License: 10BL156490

Work Type : Bore	Authorised Purpose(s) RECREATION (GROUNDWATER)
Work Status : (Unknown)	Intended Purpose(s) IRRIGATION
Construct. Method : Cable Tool	
Owner Type :	
Commenced Date : 06-Feb-1995	
Completion Date : 06-Feb-1995	
Contractor Name : B & B DRILLING	
Driller : 1649	
Property : - LAKESIDE CARAVAN PARK	
GWMA : -	
GW Zone : -	
Standing Water Level :	
Salinity :	
Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
Client	Form A : Licensed : CUMBERLAND	NARRABEEN	1 34314

Region : 10 - SYDNEY SOUTH COAST

Region Basin :	CMA Map :	Grid Zone :	Scale :
Area / District :	Northing :	Latitude (S) :	
Elevation :	Eastng :	Longitude (E) :	
Elevation Source :	Coordinate Source :		
GS Map :	AMG Zone :		

Construction

H P Component Type	To (m) OD (mm)	ID (mm)	Interval	Details
1	0.00	6.00	50	Cable Tool
1	0.00	5.30	30	Screwed; Sealed on Bottom
1	5.30	6.00	50	Johnson; Stainless Steel; A: 15mm; Screwed
1	5.30	6.00	50	Graded; GS: 1-2mm
1	5.30	6.00	50	Waterworn/Rounded
1	5.30	6.00	50	Screen - Wire Wound
1	5.30	6.00	50	Stainless Steel
1	5.30	6.00	50	Hole
1	5.30	6.00	50	Annulus
1	5.30	6.00	50	Waterworn/Rounded

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type
2.00	6.00	4.00	

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Comments
0.00	0.20	0.20	0.20 BROWN TOPSOIL	
0.20	3.50	3.30	GREY SAND WITH SHELLS	
3.50	6.00	2.50	WHITE SAND	

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
Single-Rate Pumping Test	06-Feb-1995	0.50	2.00		0.60	6.00	Pump - unspecified	Manual Read	Container of known vol.	B & B DR

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
(No Pumping Test Reading Details Found)										

Chemical Treatment

Treatment Method	Duration	Success	(No Chemical Treatment Details Found)

Development

Remarks	Method	Time Taken
	Other Development Method	1.00

*** End of GW100749 ***

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW101494

License : 10BL158124

Authorised Purpose(s)
RECREATION (GROUNDWATER)

Intended Purpose(s)
IRRIGATION

Work Type : Bore

Work Status : (Unknown)

Construct. Method : Rotary

Owner Type :

Commenced Date :

Completion Date : 29-Aug-1997

Contractor Name : B. DRILLING

Driller : 1649

BARRETT, Michael Gerard

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By

County

Parish

Porton/Lot DP

Form A :
Licensed : CUMBERLAND

NARRABEEN

2 525908

Region : 10 - SYDNEY SOUTH COAST

CMA Map :

Scale :

River Basin :

Area / District :

Elevation :

Elevation Source :

GS Map :

Construction

H P Component Type

1 Hole

1 Casing

1 Steel

From (m)

To (m)

Thickness (m)

WBZ Type

105.10

120.00

14.90

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SANDSTONE, DARK GREY

60.00 SANDSTONE, WHITE

20.00 SHALE, DARK GREY

From (m)

To (m)

Thickness (m)

Drillers Description

60.00 SAND

Chemical Treatment

Treatment Method Chlorine (Unknown)

Duration

Success

Development

Method Air Time Taken 1.00

Other Development Method

Remarks

*** End of GW101751 ***

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW103538

License: 10BL159951

Work Type: Bore	Work Status: (Unknown)	Construct Method: Rotary Air	Owner Type:	Completed Date: 17-Jan-2001	Contractor Name: INTERTECH	Driller: 1737	Property: - N/A	GWMA: -	GW Zone: -
Authorised Purpose(s): DOMESTIC	Intended Purpose(s): DOMESTIC	STOCK	STOCK	Final Depth: 132.00 m	Drilled Depth: 132.00 m	READY, Mark Edward	Standing Water Level:	Salinity:	Yield: 139.00 mg/L

Site Details

Site Chosen By Client

Region: 10 - SYDNEY SOUTH COAST
Form A: CUMBERLAND
County: NARRABEEN
Parish: NARRABEEN
Portion/Lot DP: LOT2 DP596295
2 596295

CMA Map:
Grid Zone:
Scale:

Northings:
Eastings:
Latitude (S):
Longitude (E):

Coordinate Source:

Construction

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Hole	Hole	0.00	5.60	210	156.5	5.60	Down Hole Hammer
1	1	Hole	Hole	5.60	132.00	156.5	168.3	5.60	C: 3-5.6m; Driven into Hole
1	1	Casing	Steel	-0.40	-0.40	140	140	47.60	Screwed and Glued; Suspended in Clamps
1	1	Casing	PVC Class 9	-0.40	-0.40	140	140	47.60	

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
54.00	55.00	1.00		0.10	0.10	0.10	60.00	25.00	25.00
88.00	89.00	1.00		0.10	0.10	0.10	90.00	25.00	25.00
112.00	113.00	1.00		0.40	0.40	0.40	114.00	25.00	140.00
115.00	117.00	2.00		32.00	32.00	0.10	120.00	50.00	139.00

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological	Comments
0.00	0.50	0.50	OVERBURDEN	Weathered	
0.50	1.50	1.00	WEATHERED SANDSTONE	Weathered	
1.50	12.00	10.50	WHITE TO PINK SANDSTONE M.G.	Weathered	
12.00	19.00	7.00	YELLOW SANDSTONE M.G.	Weathered	
19.00	20.00	1.00	IRONSTONE	Weathered	
20.00	20.00	0.00	GREY SANDSTONE M.G.	Weathered	
20.40	21.00	0.60	WHITE CLAY	Weathered	
21.00	21.50	0.50	WHITE CLAY	Weathered	
21.50	26.00	4.50	IRONSTONE	Weathered	
26.00	37.00	11.00	WHITE SANDSTONE M.G.	Weathered	
37.00	37.50	0.50	IRONSTONE	Weathered	
37.50	39.00	1.50	GREY CLAYSTONE	Weathered	
39.00	57.00	18.00	WHITE SANDSTONE M.G.	Weathered	
57.00	78.00	21.00	LT GREY SANDSTONE	Weathered	
78.00	90.00	12.00	WHITE TO RED SANDSTONE M.G.	Weathered	
90.00	99.00	9.00	LT GREY SANDSTONE M.G.	Weathered	
99.00	99.20	0.20	IRONSTONE	Weathered	
99.20	102.00	2.80	WHITE TO GREY SANDSTONE M.G.	Weathered	
102.00	111.00	9.00	LT GREY SANDSTONE M.G.	Weathered	
111.00	113.00	2.00	DK GREY SANDSTONE M.G.	Weathered	
113.00	115.00	2.00	WHITE SANDSTONE	Weathered	
115.00	115.30	0.30	IRONSTONE	Weathered	
115.30	117.00	1.70	LT GREY SANDSTONE + QUARTZ	Weathered	
117.00	125.00	8.00	DK GREY SANDSTONE M.G.	Weathered	
125.00	132.00	7.00	LT GREY SANDSTONE M.G.	Weathered	

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	---------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	-------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

(No Pumping Test Reading Details Found)

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW103538

Chemical Treatment

Treatment
Chlorine

Method

Duration

Success

Development

Method
Air

Time Taken
1.25

Other Development Method

Remarks

*** End of GW103538 ***

Work Summary

License: 10BL160567

Site Details

Site Chosen By
Client

Region: 10 - SYDNEY SOUTH COAST

GS Map : AMG Zone : 56

Elevation :
Elevation Source :

Area / District :

River Basin :

Lic

Site Chosen By
Client
Driller

County
Form A: CUMBERLAND
Licensed: CUMBERLAND

Parish
NARRABEEN
NARRABEEN

Portion/Lot DP
LT 26 DP 12115
26 12115

Scale :

CMA Map :
Grid Zone :

Latitude (S): 33° 40' 48"
Longitude (E): 151° 16' 3"

Northing: 6271951
Easting: 339401

Coordinate Source: Map Interpretation

AMG Zone :56

Construction

H	P	Type Component
1	1	Hole
1	1	Hole
1	1	Casing
1	1	Casing
		Steel
		PVC Class 9

Water Bearing Zones

From (m)	To (m)	Thickness (m) WBZ Type
132.00	133.00	1.00
116.00	117.00	1.00
94.00	101.50	7.50
60.50	61.00	0.50

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description
0.00	1.50	1.50	SANDS AND LARGE ROCKS
1.50	3.00	3.00	1.50 SANDSTONE RED
3.00	21.00	18.00	18.00 CLAY DARK BROWN
21.00	21.50	0.50	0.50 CLAY DARK BROWN
21.50	29.00	7.50	7.50 SANDSTONE LIGHT BROWN
29.00	30.50	1.50	1.50 SHALE
30.50	45.00	14.50	14.50 SANDSTONE LIGHT GREY
45.00	45.50	0.50	0.50 SHALE
45.50	50.00	4.50	4.50 SANDSTONE GREY
50.00	55.00	5.00	5.00 IRONSTONE/QUARTZ
55.00	60.50	5.50	5.50 SANDSTONE GREY
60.50	61.00	0.50	0.50 QUARTZ
61.00	75.00	14.00	14.00 SANDSTONE L/G
75.00	76.50	1.50	1.50 IRONSTONE
76.50	79.00	2.50	2.50 SANDSTONE QUARTZ
79.00	79.50	0.50	0.50 IRONSTONE FRACTURED
79.50	89.00	9.50	9.50 SANDSTONE QUARTZ
89.00	93.50	4.50	4.50 SANDSTONE FRACTURED
93.50	94.00	0.50	0.50 CLAY/QUARTZ
94.00	101.50	7.50	7.50 SANDSTONE/QUARTZ
101.50	102.00	0.50	0.50 IRONSTONE
102.00	107.00	5.00	5.00 SANDSTONE GREY
107.00	107.30	0.30	0.30 CLAY
107.30	116.00	8.70	8.70 SANDSTONE GREY
116.00	117.00	1.00	1.00 SAND/QUARTZ FINE
117.00	132.00	15.00	15.00 SANDSTONE L/G
132.00	133.00	1.00	1.00 SANDSTONE QUARTZ
133.00	150.00	17.00	17.00 SANDSTONE GREY

Pumping Tests - Summaries

Pumping test type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	---------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	-------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

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.

(No Pumping Test Reading Details Found)

Chemical Treatment	
Treatment	Method
Chlorine	
Development	
Method	Time Taken
Air	1.00
Remarks	

*** End of GW104217 ***

Other Development Method

Success

Duration

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW104265

License : 10BL160616

Work Type : Bore
Work Status : Supply Obtained
Construct. Method : Rotary
Owner Type : Private

Completed Date :
Completion Date : 18-Apr-2002
Contractor Name : INTERTECH DRILLING

Driller : 1783
CRUMP, William

Property : - N/A
GWMA : -

GW Zone : -

Site Details

Site Chosen By
Client

Region : 10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

Elevation :
Elevation Source :

GS Map :
AMG Zone : 56

Construction

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

H	P	Component	Type	From (m)	To (m)	Te (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Hole	Hole	0.00	5.50	210	160	210		Down Hole Hammer
1	1	Hole	Hole	5.50	210.00	160	160	160		Down Hole Hammer
1	1	Casing	Steel	-0.50	5.50	168.3		158.7		C: -1-5.5m; Driven into Hole
1	1	Casing	PVC Class 9	-0.50	59.50	140		130		Screwed and Glued; Suspended in Clamps

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type

From (m)	To (m)	Thickness (m)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
48.00	50.00	2.00	0.10	0.10	0.10	54.00	0.25	120.00
80.00	84.00	4.00	0.10	0.10	0.10	84.00	0.25	126.00
101.50	102.00	0.50	0.10	0.10	0.10	102.00	0.25	132.00
111.00	112.00	1.00	0.10	0.10	0.10	114.00	0.25	134.00
143.00	146.00	3.00	43.00	0.10	0.10	210.00	0.25	134.00

Drillers Log

From (m) To (m) Thickness(m) Drillers Description

From (m)	To (m)	Thickness(m)	Drillers Description	Geological	Comments
0.00	1.00	1.00	SAND	Stratified	
1.00	8.00	7.00	SANDSTONE SOFT	Sandstone	
8.00	26.00	18.00	SANDSTONE/IRONSTONE	Sandstone	
26.00	28.00	2.00	CLAYSTONE	Sandstone	
32.00	37.00	5.00	SILTSTONE	Sandstone	
37.00	42.00	5.00	SANDSTONE/IRONSTONE	Sandstone	
42.00	48.00	6.00	SILTSTONE	Sandstone	
48.00	50.00	2.00	IRONSTONE AND QUARTZ	Sandstone	
50.00	54.00	4.00	SANDSTONE GREY	Sand	
54.00	58.00	4.00	IRONSTONE AND QUARTZ	Ironstone Gravel	
58.00	65.00	7.00	SANDSTONE GREY	Sandstone	
65.00	80.00	15.00	SANDSTONE WITH IRONSTONE BANDS	Sandstone	
80.00	84.00	4.00	SANDSTONE/QUARTZ	Sandstone	
84.00	101.50	17.50	SANDSTONE GREY	Sandstone	
101.50	102.00	0.50	SANDSTONE/QUARTZ	Sandstone	
102.00	104.00	2.00	SANDSTONE FRACTURED	Sandstone	
104.00	111.00	7.00	SANDSTONE GREY	Sandstone	
111.00	112.00	1.00	SANDSTONE QUARTZ	Sandstone	
112.00	143.00	31.00	SANDSTONE GREY	Sandstone	
143.00	146.00	3.00	SANDSTONE DARK GREY FRACT.	Sandstone	
146.00	166.00	20.00	SANDSTONE GREY	Sandstone	
166.00	170.00	4.00	SANDSTONE DARK GREY	Sandstone	
170.00	198.00	28.00	SANDSTONE GREY	Sandstone	
198.00	202.00	4.00	SANDSTONE DARK GREY	Sandstone	
202.00	205.00	3.00	SANDSTONE DARK GREY	Sandstone	
205.00	210.00	5.00	SANDSTONE DARK GREY	Sandstone	

Pumping Tests - Summaries

Pumping Test Type Date Duration S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type Date Time (mins) S.W.L. (m) D.D.L. (m) Yield (L/s) Intake Depth (m) Test Method To Measure Water Level To Measure Discharge Tested By

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

(No Pumping Test Reading Details Found)

Chemical Treatment

Treatment Method

Duration

Success

(No Chemical Treatment Details Found)

Development

Method

Air

Time Taken

1.25

Other Development Method

Remarks

*** End of GW104265 ***

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW104417

License : 10BL160790

Site Details			
Work Type : Bore	Work Status : Supply Obtained	Construct. Method : Rotary	Owner Type : Private
Commenced Date :	Completion Date : 23-Aug-1982	Contractor Name : unknown	Driller : 1783
Final Depth :	Drilled Depth :	CRUMP, William	
180.00 m	180.00 m		
Standing Water Level :	Salinity :	Yield :	
33.00 m	134.00 mg/L	0.20 L/s	
Intended Purpose(s)	DOMESTIC	STOCK	
Authorised Purpose(s)	DOMESTIC	STOCK	

Site Details

Site Chosen By Client

Region : 10 - SYDNEY SOUTH COAST

River Basin : Area / District :

Elevation : Elevation Source :

GS Map :

AMG Zone : 56

Coordinate Source : Map Interpretation

Northing : 6272419 Easting : 339997

Latitude (S) : 33° 40' 34" Longitude (E) : 151° 16' 26"

County : CUMBERLAND
Form A : CUMBERLAND
Licensed : CUMBERLAND
Parish : NARRABEEN
Portion/Lot DP : LT 8 DP 30325
8 30325

Scale :

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

Construction

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Hole	Hole	0.00	5.50	210	210		Down Hole Hammer
1	1	Hole	Hole	5.50	180.00	159	159		Down Hole Hammer
1	1	Casing	Steel	-0.50	5.50	168.3	168.3	158.7	C : -1.5-m; Driven into Hole
1	1	Casing	PVC Class 9	-0.50	47.50	140			Screwed and Clued; Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
45.00	48.00	3.00		33.00	33.00	0.20	138.00	0.25	134.00
67.00	70.00	3.00				0.30	78.00	0.25	134.00
71.50	72.50	1.00				0.20	72.00	0.25	134.00
133.00	135.00	2.00				0.20	138.00	0.25	134.00

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Comments
0.00	1.00	1.00	1.00 TOPSOIL	
1.00	9.00	8.00	9.00 SANDSTONE LIGHT BROWN	Geological
10.00	14.00	4.00	4.00 SHALE	Shale
14.00	32.00	18.00	18.00 SANDSTONE LIGHT BROWN	Sandstone
32.00	32.50	0.50	0.50 CLAY WHITE	Clay Bands
32.50	35.00	2.50	2.50 SANDSTONE WHITE	Sandstone
35.00	35.50	0.50	0.50 CLAY	Clay Bands
35.50	39.00	3.50	3.50 SANDSTONE WHITE	Sandstone
39.00	44.70	5.70	5.70 SANDSTONE GREY	Sandstone
44.70	45.00	0.30	0.30 CLAY WHITE	Clay Bands
45.00	48.00	3.00	3.00 SANDSTONE QUARTZ	Sandstone
48.00	67.00	19.00	19.00 SANDSTONE GREY	Sandstone
67.00	70.00	3.00	3.00 SANDSTONE QUARTZ	Sandstone
70.00	71.50	1.50	1.50 SANDSTONE GREY	Sandstone
71.50	72.50	1.00	1.00 IRONSTONE QUARTZ	Sandstone
72.50	74.00	1.50	1.50 SANDSTONE QUARTZ	Ironstone Gravel
74.00	75.50	1.50	1.50 SANDSTONE QUARTZ	Sandstone
75.50	95.00	19.50	19.50 SANDSTONE GREY	Sandstone
95.00	95.30	0.30	0.30 CLAY WHITE	Clay Bands
95.30	111.00	15.70	15.70 SANDSTONE GREY	Sandstone
111.00	112.00	1.00	1.00 SANDSTONE DARK GREY	Sandstone
112.00	133.00	21.00	21.00 SANDSTONE GREY	Sandstone
133.00	135.00	2.00	2.00 SANDSTONE D/G FRACTURED	Sandstone
135.00	180.00	45.00	45.00 SANDSTONE GREY	Sandstone

Pumping Tests - Summaries

Pumping Test Type	Date	Duration (hr)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	---------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

(No Pumping Test Summary Details Found)

Pumping Tests - Readings

Pumping Test Type	Date	Time (mins)	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Intake Depth (m)	Test Method	To Measure Water Level	To Measure Discharge	Tested By
-------------------	------	-------------	------------	------------	-------------	------------------	-------------	------------------------	----------------------	-----------

(No Pumping Test Reading Details Found)

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

Work Summary

GW104417

Chemical Treatment

Treatment Method

Duration

Success

Development

Method

Air

Remarks

Time Taken
1.00

Other Development Method

*** End of GW104417 ***
*** End of Report ***

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC 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.

APPENDIX E
Test Bore Report Sheets and
Notes Relating to this Report

BOREHOLE LOG

CLIENT: Milvac Homes (NSW) Pty Ltd
PROJECT: Warriewood Valley Sector 3 Rezoning
LOCATION: Macpherson Street, Warriewood

SURFACE LEVEL: 8.8 **
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/-

BORE No: 1
PROJECT No: 37273
DATE: 23 Sep 04
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Well Construction Details
				Type	Depth	Sample		
	0.11	CONCRETE						
	0.6	FILLING - dark grey slightly clayey sand filling, with some gravel, brick and ceramic conduit fragments		A	0.5	*Z3	PID=1ppm	
	0.9	FILLING - grey silty sand filling, wet		A	0.9		PID=2ppm	
	1.5	FILLING - medium to dark grey silty sandy clay filling						
		Bore discontinued at 1.5m - target depth reached						
	2							
	3							
	4							

RIG: Bobcat
DRILLER: B Ellis
LOGGED: NLE
CASING: Uncased

TYPE OF BORING: 100mm diameter spiral flight auger to 1.5m

WATER OBSERVATIONS: Free groundwater observed at 1.4m

REMARKS:

**RL interpolated from survey plan (No: AM9702D - 13/9/04). *Indicates field replicate sample Z3 taken

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

CHECKED
Initials:
Date: 25/10



Douglas Partners
Geotechnics • Environment • Groundwater