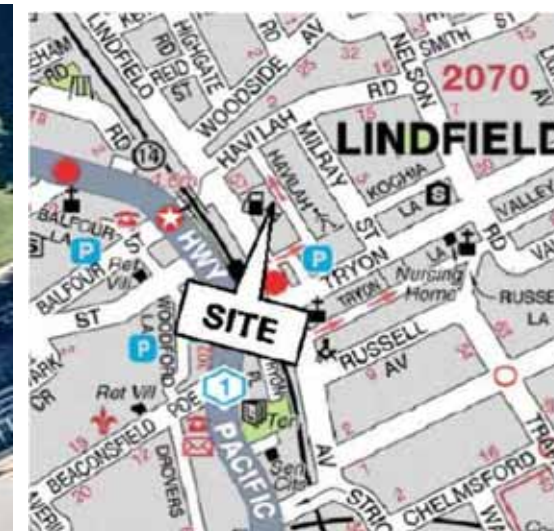

Appendix A

Drawings



CLIENT: Aqualand

OFFICE: Sydney

SCALE: NTS

DRAWN BY: PG

DATE: 5.1.2015

TITLE: Site Location and Boundaries

23-41 Lindfield Avenue & 7, 11 Havilah Lane, Lindfield

PROJECT No: 73174.03

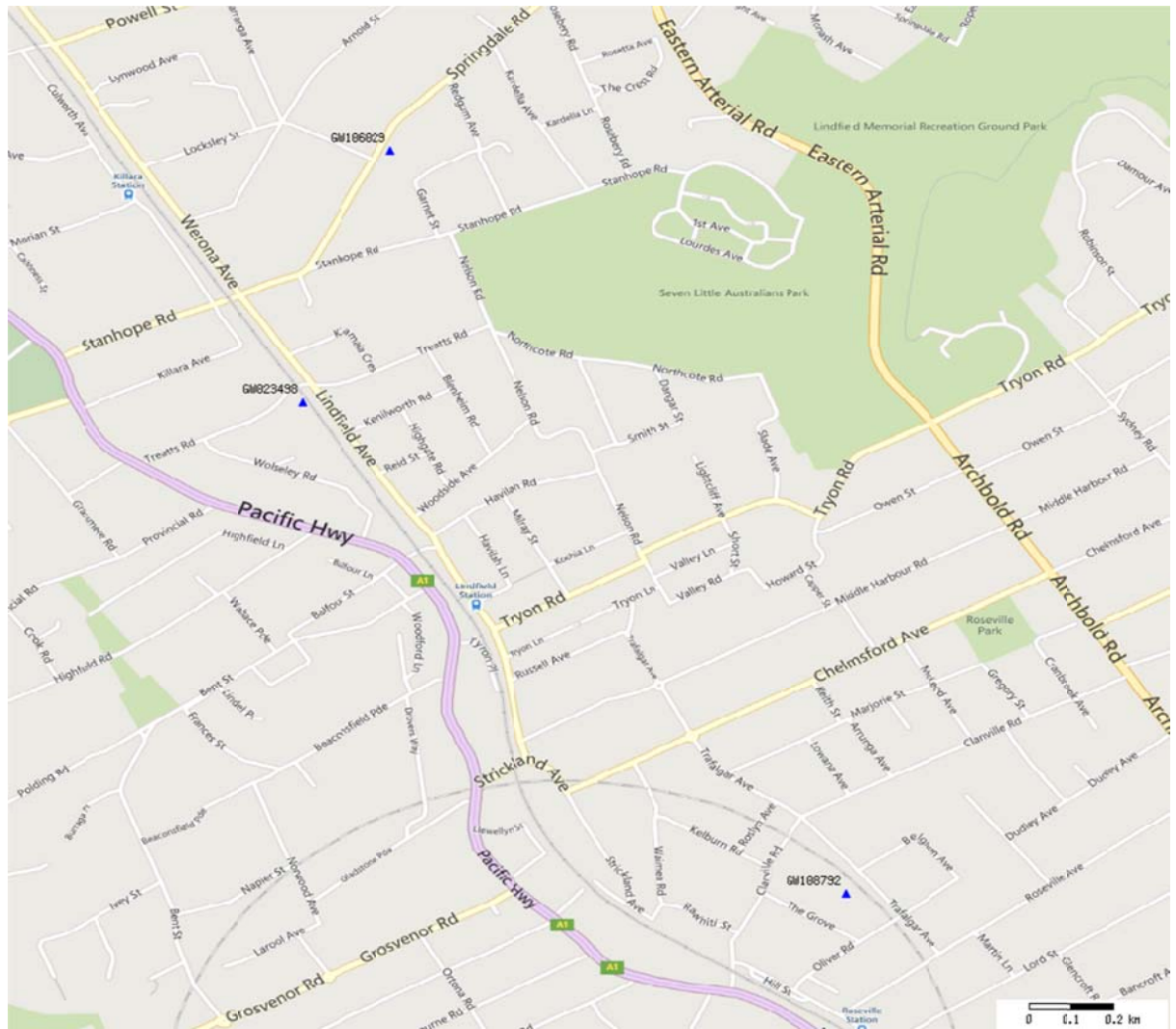
DRAWING No: 1

REVISION: A



Appendix B

Groundwater Bore Search



NSW OFFICE OF WATER Work Summary

GW023498

Converted From HYDSYS

Licence :10BL017420		Licence Status :Active	Intended Purpose(s) GENERAL USE
Work Type :Spear		Authorised Purpose(s) DOMESTIC	
Work Status :(Unknown)			
Construct. Method :Pre-drilled			
Owner Type :Private			
Commenced Date :	Final Depth :	8.20 m	
Completion Date :01-Jan-1966	Drilled Depth :	8.20 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA :603 - SYDNEY BASIN		Salinity :	Good
GW Zone : -		Yield :	

Site Details

Site Chosen By	County Form A :CUMBERLAND Licensed :CUMBERLAND	Parish ST GEORGE ST GEORGE	Portion/Lot DP 99999 N/A
Region :10 - SYDNEY SOUTH COAST		CMA Map :9130-3N	PARRAMATTA RIVER
River Basin :213 - SYDNEY COAST - GEORGES RIVER		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6261762	Latitude (S) :33° 46' 14"
Elevation Source :(Unknown)		Easting :330132	Longitude (E) :151° 9' 56"
GS Map :0055A4	MGA 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-Aperture;GS-Grain Size;Q-Quantity;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Corrugated	0.00	7.60	31			Driven into Hole
1	1	Opening	Seizure Mesh	7.60	8.20	31		2	Copper Alloy; SL: 0mm; A: .17mm
1	1	Opening	Perforations	7.60	8.20	31		1	Mechanically Slotted; SL: 0mm; A: 15.87mm

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)
7.00	7.00	0.00	Unconsolidated	6.80		0.35			Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.70	6.70	Sand White	Sand	
6.70	8.22	1.52	Sand White Fossils:shell Fragments Water Supply	Sand	

Remarks

SITED 118 GENERAL HOLMES DV.2216

*** End of GW023498 ***

NSW OFFICE OF WATER

Work Summary

GW106029

Licence :10BL162952			Licence Status :Active		Intended Purpose(s) DOMESTIC
Work Type :Bore			Authorised Purpose(s) DOMESTIC		
Work Status :Supply Obtained					
Construct. Method :Down Hole Hammer					
Owner Type :Private					
Commenced Date :			Final Depth :		180.00 m
Completion Date :11-May-2004			Drilled Depth :		180.00 m
Contractor Name :INTERTECH					
Driller :1859			PARANIHI, Damian		
Assistant Driller's Name :					
Property : - PETRE			Standing Water Level :		63.00 m
GWMA : -			Salinity :		1,140.00 mg/L
GW Zone : -			Yield :		0.90 L/s cumulative

Site Details

Site Chosen By		County		Parish	Portion/Lot DP
Client		Form A :CUMBERLAND		GORDON	A//343026
		Licensed :CUMBERLAND		GORDON	A 343026
Region :10 - SYDNEY SOUTH COAST				CMA Map :9130-3N	PARRAMATTA RIVER
River Basin :213 - SYDNEY COAST - GEORGES RIVER				Grid Zone :56/1	Scale :1:25,000
Area / District :					
Elevation :		0.00		Northing :6262365	
Elevation Source :(Unknown)				Latitude (S) :33° 45' 55"	
				Easting :330296	
				Longitude (E) :151° 10' 3"	
GS Map :		MGA Zone :56		Coordinate Source :GIS - Geographic Information System	

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	5.60	205			Down Hole Hammer
1		Hole	Hole	5.60	120.00	164.5			Down Hole Hammer
1		Hole	Hole	120.00	180.00	164			Down Hole Hammer
1	1	Casing	Steel	-0.40	5.60	168.3	158.7		Seated on Bottom; Suspended in Clamps; Open End
1	1	Casing	PVC Class 9	-0.40	77.60	140			Screwed and Glued; Suspended in Clamps
1	1	Opening	Slots - Diagonal	12.00	15.00	140			PVC Class 9; Sawn; SL: .1mm; A: 4mm
1	1	Opening	Slots - Diagonal	54.00	57.00	140			PVC Class 9; Sawn; SL: .1mm; A: 4mm
1	1	Opening	Slots - Diagonal	66.00	72.00	140			PVC Class 9; Sawn; SL: .1mm; A: 4mm
1		Annulus	Concrete	0.00	5.60	205	164		

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)
12.00	14.00	2.00				0.15			1210.00
54.00	70.00	16.00				0.20			1050.00
108.00	110.50	2.50				0.15			1140.00
160.00	175.00	15.00		63.00		0.40			1190.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.50	1.50	topsoil	Topsoil	
1.50	9.00	7.50	shale	Shale	
9.00	54.00	45.00	sandstone, grey	Sandstone	
54.00	56.10	2.10	sandstone, grey	Sandstone	
56.10	69.50	13.40	sandstone, grey & siltstone	Sandstone	
69.50	70.00	0.50	sandstone, grey with 0.1	Sandstone	
70.00	86.50	16.50	siltstone	Siltstone	
86.50	86.90	0.40	sandstone, grey light grey	Sandstone	
86.90	104.40	17.50	sandstone, light grey	Sandstone	
104.40	124.00	19.60	sandstone, grey dark grey	Sandstone	
124.00	151.50	27.50	sandstone, light grey	Sandstone	
151.50	158.00	6.50	sandstone, light grey - grey	Sandstone	
158.00	175.50	17.50	sandstone, light grey & quartz	Sandstone	
175.50	180.00	4.50	sandstone grey	Sandstone	

Remarks

updated from original form A

*** End of GW106029 ***

NSW OFFICE OF WATER

Work Summary

GW108792

Licence :10BL601685			Licence Status :Active		Intended Purpose(s) DOMESTIC
Work Type :Bore			Authorised Purpose(s) DOMESTIC		
Work Status :Supply Obtained					
Construct. Method :Down Hole Hammer					
Owner Type :Private					
Commenced Date :			Final Depth :		174.00 m
Completion Date :25-May-2007			Drilled Depth :		174.00 m
Contractor Name :INTERTECH DRILLING					
Driller :1997		SHEEHY, Paul			
Assistant Driller's Name :					
Property : - TRAFALGAR GARDENS PTY LIMITED			Standing Water Level :		65.00 m
GWMA : -			Salinity :		2,800.00 mg/L
GW Zone : -			Yield :		0.30 L/s cumulative

Site Details

Site Chosen By		County		Parish		Portion/Lot DP	
Client	Driller	Form A :CUMBERLAND		GORDON		8//1047218	
		Licensed :CUMBERLAND		GORDON		8 1047218	
Region :10 - SYDNEY SOUTH COAST				CMA Map :			
River Basin :				Grid Zone :		Scale :	
Area / District :							
Elevation :				Northing :6260613		Latitude (S) :33° 46' 52"	
Elevation Source :				Easting :331233		Longitude (E) :151° 10' 38"	
GS Map :		MGA Zone :56		Coordinate Source :GIS - Geographic Information System			

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; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	5.70	203			Down Hole Hammer
1		Hole	Hole	5.70	174.00	158			Down Hole Hammer
1	1	Casing	Steel	-0.30	5.70	168	158.4		Driven into Hole; Open End
1	1	Casing	PVC Class 9	-0.30	95.70	140			Screwed and Glued; Suspended in Clamps
1	1	Opening	Slots - Diagonal	48.00	58.00	140			PVC Class 9; SL: 100mm; A: 3mm
1	1	Opening	Slots - Diagonal	68.00	75.00	140			PVC Class 9; SL: 100mm; A: 3mm
1		Annulus	Concrete	0.00	5.70	203			

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)
52.00	54.00	2.00				0.05			735.00
70.00	75.00	5.00				0.10			2800.00
110.00	112.00	2.00				0.05			2300.00
145.00	152.50	7.50		65.00		0.10			2800.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	4.00	4.00	clay	Clay	
4.00	15.00	11.00	shale	Shale	
15.00	52.00	37.00	sandstone, grey	Sandstone	
52.00	54.00	2.00	sandstone, quartz	Sandstone	
54.00	70.00	16.00	sandstone, grey	Sandstone	
70.00	75.00	5.00	sandstone, quartz	Sandstone	
75.00	76.00	1.00	shale	Shale	
76.00	80.00	4.00	sandstone, shale bands	Sandstone	
80.00	89.00	9.00	sandstone, grey	Sandstone	
89.00	90.00	1.00	shale	Shale	
90.00	94.00	4.00	sandstone, siltstone band	Sandstone	
94.00	110.00	16.00	sandstone, grey	Sandstone	
110.00	112.00	2.00	sandstone, quartz	Sandstone	
112.00	130.00	18.00	sandstone, grey	Sandstone	
130.00	131.00	1.00	siltstone	Silcrete	
131.00	132.00	1.00	sandstone, grey	Sandstone	
132.00	135.50	3.50	sandstone, quartz	Sandstone	
135.50	145.00	9.50	sandstone, grey	Sandstone	
145.00	152.20	7.20	sandstone, quartz	Sandstone	
152.20	161.00	8.80	sandstone, grey	Sandstone	
161.00	168.00	7.00	sandstone, quartz	Sandstone	
168.00	174.00	6.00	sandstone, grey	Sandstone	

Remarks

updated from original form A

*** End of GW108792 ***