



APPENDIX A: GLOSSARY

Taken from the Floodplain Development Manual (April 2005 edition)

acid sulfate soils

Are sediments which contain sulfidic mineral pyrite which may become extremely acid following disturbance or drainage as sulfur compounds react when exposed to oxygen to form sulfuric acid. More detailed explanation and definition can be found in the NSW Government Acid Sulfate Soil Manual published by Acid Sulfate Soil Management Advisory Committee.

Annual Exceedance Probability (AEP)

The chance of a flood of a given or larger size occurring in any one year, usually expressed as a percentage. For example, if a peak flood discharge of 500 m³/s has an AEP of 5%, it means that there is a 5% chance (that is one-in-20 chance) of a 500 m³/s or larger event occurring in any one year (see ARI).

Australian Height Datum (AHD)

A common national surface level datum approximately corresponding to mean sea level.

Average Annual Damage (AAD)

Depending on its size (or severity), each flood will cause a different amount of flood damage to a flood prone area. AAD is the average damage per year that would occur in a nominated development situation from flooding over a very long period of time.

Average Recurrence Interval (ARI)

The long term average number of years between the occurrence of a flood as big as, or larger than, the selected event. For example, floods with a discharge as great as, or greater than, the 20 year ARI flood event will occur on average once every 20 years. ARI is another way of expressing the likelihood of occurrence of a flood event.

caravan and moveable home parks

Caravans and moveable dwellings are being increasingly used for long-term and permanent accommodation purposes. Standards relating to their siting, design, construction and management can be found in the Regulations under the LG Act.

catchment

The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location.

consent authority

The Council, government agency or person having the function to determine a development application for land use under the EP&A Act. The consent authority is most often the Council, however legislation or an EPI may specify a Minister or public authority (other than a Council), or the Director General of DIPNR, as having the function to determine an application.

development

Is defined in Part 4 of the Environmental Planning and Assessment Act (EP&A Act).

infill development: refers to the development of vacant blocks of land that are generally surrounded by developed properties and is permissible under the current zoning of the land. Conditions such as minimum floor levels may be imposed on infill development.

new development: refers to development of a completely different nature to that associated with the former land use. For example, the urban subdivision of an area previously used for rural purposes. New developments involve rezoning and typically require major extensions of existing urban services, such as roads, water supply, sewerage and electric power.

redevelopment: refers to rebuilding in an area. For example, as urban areas age, it may become necessary to demolish and reconstruct buildings on a relatively large scale. Redevelopment generally does not require either rezoning or major extensions to urban services.

disaster plan (DISPLAN)

A step by step sequence of previously agreed roles, responsibilities, functions, actions and management arrangements for the conduct of a single or series of connected emergency operations, with the object of ensuring the coordinated response by all agencies having responsibilities and functions in emergencies.

discharge

The rate of flow of water measured in terms of volume per unit time, for example, cubic metres per second (m³/s). Discharge is different from the speed or velocity of flow, which is a measure of how fast the water is moving for example, metres per second (m/s).

ecologically sustainable development (ESD)

Using, conserving and enhancing natural resources so that ecological processes, on which life depends, are maintained, and the total quality of life, now and in the future, can be maintained or increased. A more detailed definition is included in the Local Government Act 1993. The use of sustainability and sustainable in this manual relate to ESD.

effective warning time

The time available after receiving advice of an impending flood and before the floodwaters prevent appropriate flood response actions being undertaken. The effective warning time is typically used to move farm equipment, move stock, raise furniture, evacuate people and transport their possessions.

emergency management

A range of measures to manage risks to communities and the environment. In the flood context it may include measures to prevent, prepare for, respond to and recover from flooding.

flash flooding

Flooding which is sudden and unexpected. It is often caused by sudden local or nearby heavy rainfall. Often defined as flooding which peaks within six hours of the causative rain.

flood

Relatively high stream flow which overtops the natural or artificial banks in any part of a stream, river, estuary, lake or dam, and/or local overland flooding associated with major drainage before entering a watercourse, and/or coastal inundation resulting from super-elevated sea levels and/or waves overtopping coastline defences excluding tsunami.

flood awareness

Flood awareness is an appreciation of the likely effects of flooding and a knowledge of the relevant flood warning, response and evacuation procedures.

flood education

Flood education seeks to provide information to raise awareness of the flood problem so as to enable individuals to understand how to manage themselves an their property in response to flood warnings and in a flood event. It invokes a state of flood readiness.

flood fringe areas

The remaining area of flood prone land after floodway and flood storage areas have been defined.

flood liable land

Is synonymous with flood prone land (i.e. land susceptible to flooding by the probable maximum flood (PMF) event). Note that the term flood liable land covers the whole of the floodplain, not just that part below the flood planning level (see flood planning area).

flood mitigation standard

The average recurrence interval of the flood, selected as part of the floodplain risk management process that forms the basis for physical works to modify the impacts of flooding.

floodplain

Area of land which is subject to inundation by floods up to and including the probable maximum flood event, that is, flood prone land.

floodplain risk management options

The measures that might be feasible for the management of a particular area of the floodplain. Preparation of a floodplain risk management plan requires a detailed evaluation of floodplain risk management options.

floodplain risk management plan

A management plan developed in accordance with the principles and guidelines in this manual. Usually includes both written and diagrammetic information describing how particular areas of flood prone land are to be used and managed to achieve defined objectives.

flood plan (local)

A sub-plan of a disaster plan that deals specifically with flooding. They can exist at State, Division and local levels. Local flood plans are prepared under the leadership of the State Emergency Service.

flood planning area

The area of land below the flood planning level and thus subject to flood related development controls. The concept of flood planning area generally supersedes the Aflood liable land@ concept in the 1986 Manual.

Flood Planning Levels (FPLs)

FPL=s are the combinations of flood levels (derived from significant historical flood events or floods of specific AEPs) and freeboards selected for floodplain risk management purposes, as determined in management studies and incorporated in management plans. FPLs supersede the Astandard flood event@ in the 1986 manual.

flood proofing

A combination of measures incorporated in the design, construction and alteration of individual buildings or structures subject to flooding, to reduce or eliminate flood damages.

flood prone land

Is land susceptible to flooding by the Probable Maximum Flood (PMF) event. Flood prone land is synonymous with flood liable land.

flood readiness

Flood readiness is an ability to react within the effective warning time.

flood risk

Potential danger to personal safety and potential damage to property resulting from flooding. The degree of risk varies with circumstances across the full range of floods. Flood risk in this manual is divided into 3 types, existing, future and continuing risks. They are described below.

existing flood risk: the risk a community is exposed to as a result of its location on the floodplain.

future flood risk: the risk a community may be exposed to as a result of new development on the floodplain.

continuing flood risk: the risk a community is exposed to after floodplain risk management measures have been implemented. For a town protected by levees, the continuing flood risk is the consequences of the levees being overtopped. For an area without any floodplain risk management measures, the continuing flood risk is simply the existence of its flood exposure.

flood storage areas

Those parts of the floodplain that are important for the temporary storage of floodwaters during the passage of a flood. The extent and behaviour of flood

storage areas may change with flood severity, and loss of flood storage can increase the severity of flood impacts by reducing natural flood attenuation. Hence, it is necessary to investigate a range of flood sizes before defining flood storage areas.

floodway areas

Those areas of the floodplain where a significant discharge of water occurs during floods. They are often aligned with naturally defined channels. Floodways are areas that, even if only partially blocked, would cause a significant redistribution of flood flows, or a significant increase in flood levels.

freeboard

Freeboard provides reasonable certainty that the risk exposure selected in deciding on a particular flood chosen as the basis for the FPL is actually provided. It is a factor of safety typically used in relation to the setting of floor levels, levee crest levels, etc. Freeboard is included in the flood planning level.

habitable room

in a residential situation: a living or working area, such as a lounge room, dining room, rumpus room, kitchen, bedroom or workroom.

in an industrial or commercial situation: an area used for offices or to store valuable possessions susceptible to flood damage in the event of a flood.

hazard

A source of potential harm or a situation with a potential to cause loss. In relation to this manual the hazard is flooding which has the potential to cause damage to the community. Definitions of high and low hazard categories are provided in the Manual

hydraulics

Term given to the study of water flow in waterways; in particular, the evaluation of flow parameters such as water level and velocity.

hydrograph

A graph which shows how the discharge or stage/flood level at any particular location varies with time during a flood.

hydrology

Term given to the study of the rainfall and runoff process; in particular, the evaluation of peak flows, flow volumes and the derivation of hydrographs for a range of floods.

local overland flooding

Inundation by local runoff rather than overbank discharge from a stream, river, estuary, lake or dam.

local drainage

Are smaller scale problems in urban areas. They are outside the definition of major drainage in this glossary.

mainstream flooding

Inundation of normally dry land occurring when water overflows the natural or artificial banks of a stream, river, estuary, lake or dam.

major drainage

Councils have discretion in determining whether urban drainage problems are associated with major or local drainage. For the purpose of this manual major drainage involves:

- \$ the floodplains of original watercourses (which may now be piped, channelised or diverted), or sloping areas where overland flows develop along alternative paths once system capacity is exceeded; and/or
- \$ water depths generally in excess of 0.3 m (in the major system design storm as defined in the current version of Australian Rainfall and Runoff). These

conditions may result in danger to personal safety and property damage to both premises and vehicles; and/or

- \$ major overland flow paths through developed areas outside of defined drainage reserves: and/or
- \$ the potential to affect a number of buildings along the major flow path.

mathematical/computer models

The mathematical representation of the physical processes involved in runoff generation and stream flow. These models are often run on computers due to the complexity of the mathematical relationships between runoff, stream flow and the distribution of flows across the floodplain.

merit approach

The merit approach weighs social, economic, ecological and cultural impacts of land use options for different flood prone areas together with flood damage, hazard and behaviour implications, and environmental protection and well being of the State=s rivers and floodplains.

The merit approach operates at two levels. At the strategic level it allows for the consideration of social, economic, ecological, cultural and flooding issues to determine strategies for the management of future flood risk which are formulated into Council plans, policy and EPIs. At a site specific level, it involves consideration of the best way of conditioning development allowable under the floodplain risk management plan, local floodplain risk management policy and EPIs.

minor, moderate and major flooding

Both the State Emergency Service and the Bureau of Meteorology use the following definitions in flood warnings to give a general indication of the types of problems expected with a flood:

minor flooding: causes inconvenience such as closing of minor roads and the submergence of low level bridges. The lower limit of this class of flooding on the reference gauge is the initial flood level at which landholders and townspeople begin to be flooded.

moderate flooding: low-lying areas are inundated requiring removal of stock and/or evacuation of some houses. Main traffic routes may be covered.

major flooding: appreciable urban areas are flooded and/or extensive rural areas are flooded. Properties, villages and towns can be isolated.

modification measures

Measures that modify either the flood, the property or the response to flooding. Examples are indicated in Table 2.1 with further discussion in the Manual.

peak discharge

The maximum discharge occurring during a flood event.

Probable Maximum Flood (PMF)

The PMF is the largest flood that could conceivably occur at a particular location, usually estimated from probable maximum precipitation, and where applicable, snow melt, coupled with the worst flood producing catchment conditions. Generally, it is not physically or economically possible to provide complete protection against this event. The PMF defines the extent of flood prone land, that is, the floodplain. The extent, nature and potential consequences of flooding associated with a range of events rarer than the flood used for designing mitigation works and controlling development, up to and including the PMF event should be addressed in a floodplain risk management study.

The PMP is the greatest depth of precipitation for a given duration meteorologically possible over a given size storm area at a particular location at a particular time of

Probable Maximum Precipitation (PMP)

the year, with no allowance made for long-term climatic trends (World Meteorological Organisation, 1986). It is the primary input to PMF estimation.

probability A statistical measure of the expected chance of flooding (see AEP).

risk Chance of so

Chance of something happening that will have an impact. It is measured in terms of consequences and likelihood. In the context of the manual it is the likelihood of consequences arising from the interaction of floods, communities and the

environment.

runoff The amount of rainfall which actually ends up as streamflow, also known as rainfall

excess.

stage Equivalent to Awater level@. Both are measured with reference to a specified

datum.

stage hydrograph A graph that shows how the water level at a particular location changes with time

during a flood. It must be referenced to a particular datum.

survey plan A plan prepared by a registered surveyor.

water surface profile A graph showing the flood stage at any given location along a watercourse at a

particular time.

wind fetch The horizontal distance in the direction of wind over which wind waves are

generated.





Woolloomooloo Catchment Floodplain Risk Management Study and Plan



June 2014

The City of Sydney is preparing a Floodplain Risk Management Study and Plan for the Woolloomooloo catchment area and we would like your help.

The study will tell us about the type of flood mitigation solutions feasible for the catchment and help us plan for and manage any flood risks.

Good management of flood risks can help reduce damage and improve social and economic opportunities.

cityofsydney.nsw.gov.au/floodplain-management







The City of Sydney has engaged WMAwater to assist with the preparation of the Woolloomooloo Floodplain Risk Management Study and Plan.

The Woolloomooloo Flood Study was completed by WMAwater in July 2013, giving the City of Sydney a better understanding of the nature of flooding in your area. The next step in the NSW Government Flood Management Process is the preparation of a Floodplain Risk Management Study and Plan. The purpose of this study and plan is to identify and recommend appropriate actions to manage flood risks in the Woolloomooloo area.

This brochure is an introduction to the Floodplain Risk Management Study and Plan and its objectives.

Stages of the NSW Government Floodplain Management Process

- Formation of a Committee

 complete
- 2. Data Collection complete
- 3. Flood Study complete
- 4. Floodplain Risk Management Study
- 5. Floodplain Risk Management Plan
- 6. Implementation of Plan.

Study area and flooding issues

The Woolloomooloo study area includes parts of Woolloomooloo, CBD, Potts Point, Kings Cross and Darlinghurst.

Much of the flooding in this catchment occurs due to natural depressions and low points. In the past, flooding has caused property damage and posed a hazard to people and property located near drainage areas. The Floodplain Risk Management Study and Plan currently being undertaken is to manage these flood risks.

Have your say

We want your comments about previous flood experiences and potential mitigation options.

The local knowledge of residents and business operators, including your personal experiences of flooding is a valuable source of information.

The information you provide in the accompanying questionnaire will help the City of Sydney determine how to manage the floods in your area.

For more information about this project, please contact the City of Sydney or WMAwater via the details provided.

Floodplain risk management options

The following list of floodplain risk management options are examples of the type of strategies that could be considered to minimise risk and reduce the impact of flooding in the catchment. These options will be investigated in more detail during the preparation of the Management Study and Plan. The general categories of these options are:

Flood modification options.

Examples include:

- Construction of detention/retarding basins to reduce the peak flow downstream;
- Upgrading of drainage systems, upgrade of existing pipes or construction of new pipes; and
- Regrading of roads to provide better overland flowpaths.

Property modification options and planning control.

Examples include:

- Building and development controls: and
- Flood-proofing measures, such as flood barriers.

Response modification options. Examples include:

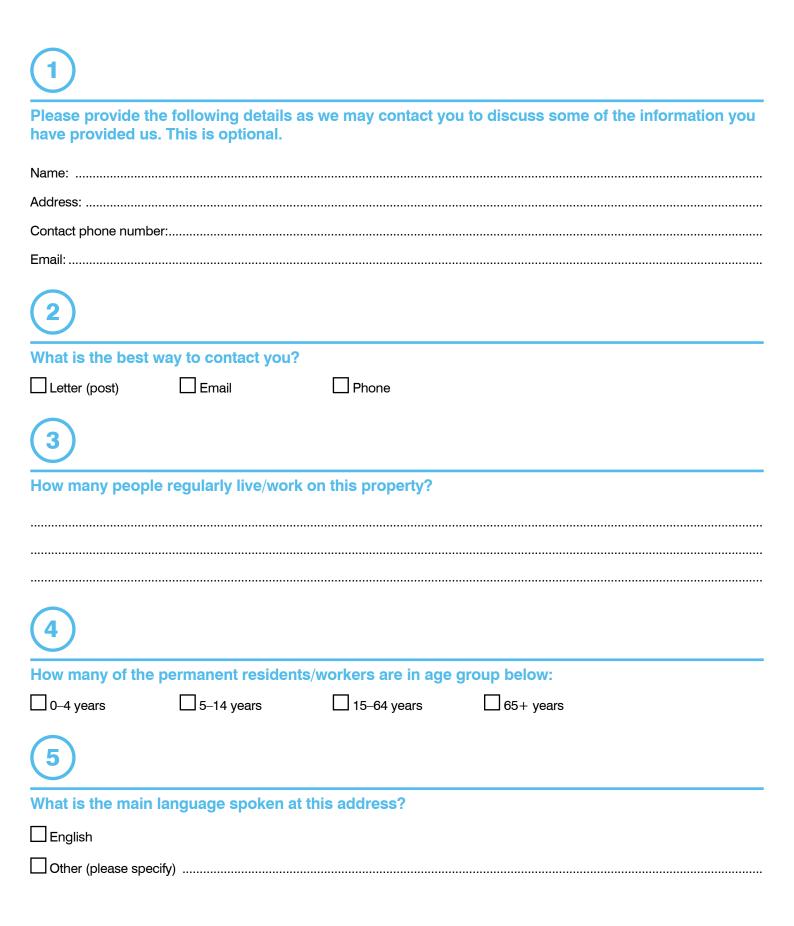
- Revision of the Local Disaster Plan;
- Public awareness and education locality-based flooding information for residents;
- Public awareness and education flooding information for schools;
- Flood depth markers at major (flood-affected) road crossings;
- Continuation of existing public awareness and education campaigns; and
- Data collection strategies for future floods.

For more information please contact:

WMAwater Steve Gray Phone 02 9299 2855 Fax: 02 9262 6208 gray@wmawater.com.au City of Sydney Shah Alam Phone: 02 9288 5925 salam@cityofsydney.nsw.gov.au

Local Resident/Land Owner Survey

The City of Sydney is carrying out a Floodplain Risk Management Study and Plan for the Woolloomooloo catchment. Please return your completed questionnaire in the reply-paid envelope by 20 July 2014. Or complete the questionnaire online at www.cityofsydney.nsw.gov.au/floodplain-management.



6
Is your property (please tick)
Owner occupied Occupied by a tenant Business
Other (please specify)
7
What type of structure is your property/business? (please tick)
☐ Freestanding house
☐ Apartment
Dual occupancy
☐ Industrial
☐ Commercial
8
How long have you lived, worked at, and/or owned this property?
Years
Months
9
Have you ever experienced flooding since living and/or working in the Woolloomooloo catchment? (please tick relevant boxes)
Yes, floodwaters entered my house/business
Yes, floodwaters entered my yard/surrounds of my business
Yes, the road was flooded and I couldn't get to my car
Yes, other parts of my neighbourhood were flooded
No, I haven't experienced flooding
10
Do you have any materials or photos you can provide to evidence the flooding you experienced? If yes, when did this flood occur?
□No
Yes – the flooding occurred on:



As a local resident who may have witnessed flooding/drainage problems, you may have your own ideas about how to reduce flood risks. Which of the following do you prefer (1=most preferred, 5=least preferred)?

Proposed option	Pr	efe	rer	ice	
Retarding or detention basins (these temporarily hold water and reduce peak flood flows) — Suggested location/other comments:	1	2	3	4	5
Improved flood flow paths — Suggested location/other comments:	1	2	3	4	5
Pit and pipe upgrades — Suggested location/other comments:	1	2	3	4	5
Levee banks or flood walls — Suggested location/other comments:	1	2	3	4	5
Strategic planning and flood related development controls — Suggested location/other comments:	1	2	3	4	5
Education of the community, providing greater awareness of potential hazards — Suggested location/other comments:	1	2	3	4	5
Flood forecasting, flood warnings, evacuation planning and emergency response measures — Suggested location/other comments:	1	2	3	4	5
Other (please specify any options you think are suitable):					
If you have any further comments that relate to the Woolloomooloo Flood Management Study and Plan please write them in the space below. Feel free to attach additional pages if necessary.	า,		•••••		

Glossary

Levee bank/flood wall – an embankment or wall, usually constructed from earth or concrete, built along the banks of a watercourse to help prevent overflow of its waters.

Retarding/detention basin – depression in the land surface that captures and holds stormwater runoff allowing it to slowly drain out of the basin into the adjoining natural drainage line or creek.

Privacy notice: The information supplied will be used by the City of Sydney and its consultants to consider flooding matters within the local government area. Personal information will remain confidential, however responses may be accessed by third parties through the Government Information (Public Access) Act 2009.





Table C1:	Cost Estimate - Option FM-WLM01 - Woolloomooloo Trunk Pi	ipe Upgrade)			
	Description of Work	Quantity	Unit	Rate	WL	M01
	General Construction Costs		-	11010		
_	Site establishment, security fencing, facilities and					
1.1	disestablishment	l 1	item	0		0
	Provision of sediment and erosion control	1	item	0		0
	Construction setout and survey	1	item	0		0
	Work as executed survey and documentation		item	0		0
	Geotechnical supervision, testing and certification		item	0		0
	SUBTOTAL (Assumed as 15% of works cost)		10111	 		0.555.000
	,				\$	2,555,282
	Demolition and Clearing	0		11	-	
2.1	Clearing and grubbing	0	sq. m	11	1	0
0.0	Strip topsoil and stockpile for re-use (assuming 150mm			0.7		0
	depth)		cu. m	27	-	0
	Dispose of excess topsoil (nominal 10% allowance)		cu. m	65		0
2.4	Pull up and dispose existing road surface	3,752	sq. m	38		141,834
	SUBTOTAL				\$	141,834
4	Installation of Drainage					
	Supply, excavate, bed, lay, joint, backfill and provide		l			
	connections 1.8m dia. Pipe	401	lin. m	3564		1,427,409
	Supply, excavate, bed, lay, joint, backfill and provide					
	connections 1.8m x 1.2m culvert	141	lin. m	3456		485,716
	Supply, excavate, bed, lay, joint, backfill and provide					
4.26	connections 2.1m x 1.2m culvert	87	lin. m	3240.00		282,514
	Supply, excavate, bed, lay, joint, backfill and provide					
4.28	connections 2.1m x 2.1m culvert	5	lin. m	4320.00		20,419
	Supply, excavate, bed, lay, joint, backfill and provide					
4.30	connections 2.7m x 1.2m culvert	95	lin. m	4228.00		403,530
	Supply, excavate, bed, lay, joint, backfill and provide					
4.31	connections 2.7m x 1.5m culvert	377	lin. m	4428.00		1,670,709
	Supply, excavate, bed, lay, joint, backfill and provide					
4.33	connections 2.4m x 2.1m culvert	71	lin. m	4336.00		309,109
	Supply, excavate, bed, lay, joint, backfill and provide					· · · · · · · · · · · · · · · · · · ·
4.37	connections 3.0m x 1.5m culvert	59	lin. m	5508.00		322,322
	Supply, excavate, bed, lay, joint, backfill and provide					
4.38	connections 3.0m x 1.8m culvert	205	lin. m	5708.00		1,169,510
	Supply, excavate, bed, lay, joint, backfill and provide					,,-
4.39	connections 2x 3.0m x 1.5m culvert	42	lin. m	5940.00		250,511
	Supply, excavate, bed, lay, joint, backfill and provide					
4.40	connections 2x 3.0m x 2.1m culvert	394	lin. m	6140.00		2,416,222
	Install new drainage/junction pit (assumed 1 pit per 5m of					_, ,
4.49	pipe)	375	each	4,320		1,620,000
	Adjustment of existing services (nominal allowance)	0.0		.,020		.,020,000
4 51	(assumed 50% of drainage installation cost)					7,440,427
4.01	SUBTOTAL				\$	15,393,987
7	Footpath and Road Surfaces				۳	10,000,001
	יי סטנףמנון מווע ווטמע סעוומטפט					
	Reinstate disturbed road pavement, including demolition					
71	and disposal of additional material to provide good jointing	3 752	sq. m	130		486,288
1.1	SUBTOTAL	3,132	3y. III	130	\$	486,288
0	Traffic Management				Ψ	+00,200
9	Control of traffic during works (nominal allowance)			-	1	
0.4	,	1 070	lin ~	E40		1 012 104
9.1	(assumed \$500 per lin.m) SUBTOTAL	1,8/6	lin. m	540	_	1,013,101
	OODIOIAL				\$	1,013,101
	CONCEDUCTION CURTOTAL				_	10 500 100
a . a	CONSTRUCTION SUBTOTAL				\$	19,590,492
	Contingencies				\$	-
11.1	50% construction cost	<u> </u>			\$	9,795,246

	CONSTRUCTION TOTAL, exc. GST		\$ 29,385,738
	GST		\$ 2,938,574
	CONSTRUCTION TOTAL, inc. GST		\$ 32,324,311
	CONSTRUCTION TOTAL, rounded		\$ 32,324,300
11	MAINTENANCE		
11.1	Maintenance of mitigation option	item	\$ 18,761

em No.	Cost Estimate - Option FM-WLM02 -Earl Place Pipe Upgrade Description of Work	Quantity	Unit	Rate	WLM	02
1	General Construction Costs					
	Site establishment, security fencing, facilities and					
1.1	disestablishment	1	item	0		(
1.2	Provision of sediment and erosion control		item	0		
1.3	Construction setout and survey	1	item	0		
	Work as executed survey and documentation	1	item	0		
1.5	Geotechnical supervision, testing and certification	1	item	0		
	SUBTOTAL (Assumed as 15% of works cost)				\$	46,259
2	Demolition and Clearing				Ť	,
	Clearing and grubbing	0	sq. m	11		
	Strip topsoil and stockpile for re-use (assuming 150mm					
2.2	depth)	l 0	cu. m	27		
	Dispose of excess topsoil (nominal 10% allowance)		cu. m	65		(
	Pull up and dispose existing road surface		sq. m	38		9,66
	SUBTOTAL				\$	9,666
4	Installation of Drainage					•
	Supply, excavate, bed, lay, joint, backfill and provide					
4.3	connections 0.9m dia. Pipe	128	lin. m	1,296		165,71
	Install new drainage/junction pit (assumed 1 pit per 50m of					· ·
4.49	pipe)	3	each	4,320		12,960
	Adjustment of existing services (nominal allowance)			1,020		1_,00
	(assumed 10% of drainage installation cost)					19,65
	SUBTOTAL				\$	196,537
7	Footpath and Road Surfaces					,
<u> </u>						
	Reinstate disturbed road pavement, including demolition					
7.1	and disposal of additional material to provide good jointing	256	sq. m	130		33,14
	SUBTOTAL				\$	33,142
9	Traffic Management					•
	Control of traffic during works (nominal allowance)					
9.1	(assumed \$500 per lin.m)	128	lin. m	540		69,04
	SUBTOTAL				\$	69,046
	CONSTRUCTION SUBTOTAL				\$	354,651
11	Contingencies				\$	•
	50% construction cost				\$	177,325
	CONSTRUCTION TOTAL, exc. GST				\$	531,976
	GST				\$	53,198
	CONSTRUCTION TOTAL, inc. GST				\$	585,174
	CONSTRUCTION TOTAL, rounded				\$	585,200
	MAINTENANCE Maintenance of mitigation option				\$	

em No.	Cost Estimate - Option FM-WLM03 -Victoria Street Pipe Upgr Description of Work	Quantity	Unit	Rate	WLI	M03
	General Construction Costs					
	Site establishment, security fencing, facilities and					
1.1	disestablishment	1	item	0		
	Provision of sediment and erosion control		item	0		
	Construction setout and survey		item	0		
	Work as executed survey and documentation		item	0		
	Geotechnical supervision, testing and certification		item	0		
	SUBTOTAL (Assumed as 15% of works cost)			Ť	\$	276,331
2	Demolition and Clearing				Ψ	270,33
	Clearing and grubbing	0	sq. m	11		
	Strip topsoil and stockpile for re-use (assuming 150mm	<u> </u>	54. 111	· · · · ·		
22	depth)	١ ،	cu. m	27		
	Dispose of excess topsoil (nominal 10% allowance)		cu. m	65		
	Pull up and dispose existing road surface		sq. m	38		40,15
۷.4	SUBTOTAL	1,002	34. 111	30	\$	40,159
1	Installation of Drainage				Ψ	70,100
	Supply, excavate, bed, lay, joint, backfill and provide					
4 20	connections 1.0m x 1.0m culvert	531	lin. m	2,268		1,204,76
7.20	Install new drainage/junction pit (assumed 1 pit per 50m of	331	1111. 1111	2,200		1,204,70
4.40	pipe)	14	aaab	4 220		47.50
4.49	Adjustment of existing services (nominal allowance)	11	each	4,320		47,52
4.54	, , , , , , , , , , , , , , , , , , ,					20.54
4.51	(assumed 10% of drainage installation cost)				•	33,51
					\$	1,377,510
7	Footpath and Road Surfaces					
7.4	Reinstate disturbed road pavement, including demolition	4 000		400		407.00
7.1	and disposal of additional material to provide good jointing SUBTOTAL	1,062	sq. m	130		137,68
					\$	137,687
9	Traffic Management					
	Control of traffic during works (nominal allowance)		l			
9.1	(assumed \$500 per lin.m)	531	lin. m	540		286,84
	SUBTOTAL				\$	286,848
	CONCERNATION CURTOTAL	1				0.440.50
4.4	CONSTRUCTION SUBTOTAL	1			\$	2,118,534
	Contingencies	1			\$	4 050 000
11.1	50% construction cost				\$	1,059,267
	CONSTRUCTION TOTAL, exc. GST				\$	3,177,801
	GST				\$	3,177,801
	CONSTRUCTION TOTAL, inc. GST	1	-			•
	CONSTRUCTION TOTAL, Inc. GST				\$	3,495,581
	CONSTRUCTION TOTAL, rounded				Þ	3,495,600
11	MAINTENANCE					
	Maintenance of mitigation option		item		\$	5,312
		†			T	J, J 12

	Description of Wark	O	11. 11	D-1	VA/1 8405
tem No.	Description of Work	Quantity	Unit	Rate	WLM05
1	General Construction Costs Site establishment, security tencing,				
4.1	facilities and disestablishment	1	item	0	
	Provision of sediment and erosion control		item	0	
		1			
1.3	Construction setout and survey	1	item	0	
	Work as executed survey and	_	l.,		
1.4	documentation Geotechnical supervision, testing and	1	item	0	
4-	certification				
1.5		1	item	0	
	SUBTOTAL (Assumed as 15% of works				
	cost)				\$ 79,79
	Demolition and Clearing				
2.1	Clearing and grubbing	0	sq. m	11	
	Strip topsoil and stockpile for re-use				
2.2	(assuming 150mm depth)	0	cu. m	27	
	Dispose of excess topsoil (nominal 10%		04: 111		
2.3	allowance)	0	cu. m	65	
		1	04: 111		
2/	Pull up and dispose existing road surface	450	sq. m	38	17,01
2.4	SUBTOTAL	450	34. III	30	, , , , , , , , , , , , , , , , , , ,
					\$ 17,01
4	Installation of Drainage				
	Commission of the desired baselifts				
4.2	Supply, excavate, bed, lay, joint, backfill			4.050	
	and provide connections 0.6m dia. Pipe	35	lin. m	1,053	36,85
	Supply, excavate, bed, lay, joint, backfill	400	l	4 000	
4.3	and provide connections 0.9m dia. Pipe	190	lin. m	1,296	246,24
	Install new drainage/junction pit (assumed	_			
4.49	1 pit per 50m of pipe)	5	each	4,320	21,60
	Adjustment of existing services (nominal				
	allowance) (assumed 10% of drainage				
4.51	installation cost)				33,51
	SUBTOTAL				\$ 335,16
7	Footpath and Road Surfaces				
	Reinstate disturbed road pavement,				
	including demolition and disposal of				
7.1	additional material to provide good jointing	450	sq. m	130	58,32
	SUBTOTAL		94		\$ 58,320
9	Traffic Management				, JOS, J.
	Control of traffic during works (nominal				
0.4	allowance) (assumed \$500 per lin.m)	225	lin. m	540	404 50
9.1	SUBTUTAL	223	1111. 111	540	121,50 \$ 121,50
	000.01712				Ψ 121,300
	CONSTRUCTION SUBTOTAL	 		-	\$ 611,79
11	Contingencies				\$ 611,79
	50% construction cost				\$ 305,89
11.1	oo /o construction cost				φ 303,69
	CONSTRUCTION TOTAL, exc. GST	+			\$ 917,69
	GST				\$ 917,69
	CONSTRUCTION TOTAL, inc. GST				\$ 1,009,46
	CONSTRUCTION TOTAL, inc. GST				\$ 1,009,46
	CONTROL TO TAL, TOURING				φ 1,005,500
	MAINTENANCE	<u> </u>			

11.1 Maintenance of mitigation option	item	\$	2,250



Table D1: Residential Tangible Damages - Option FM - WLM01

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total D	amages for Event	e. Damage Per Flood Affected Property
PMF	202	155	\$	8,608,800	\$ 42,600
1.0%	143	48	\$	3,027,200	\$ 21,200
2.0%	125	33	\$	2,284,700	\$ 18,300
5.0%	107	26	\$	1,856,300	\$ 17,300
10.0%	99	21	\$	1,483,700	\$ 15,000
20.0%	92	11	\$	949,900	\$ 10,300
50.0%	82	5	\$	511,800	\$ 6,200
	Average A	Annual Damages (AAD)	\$	ı	\$ -

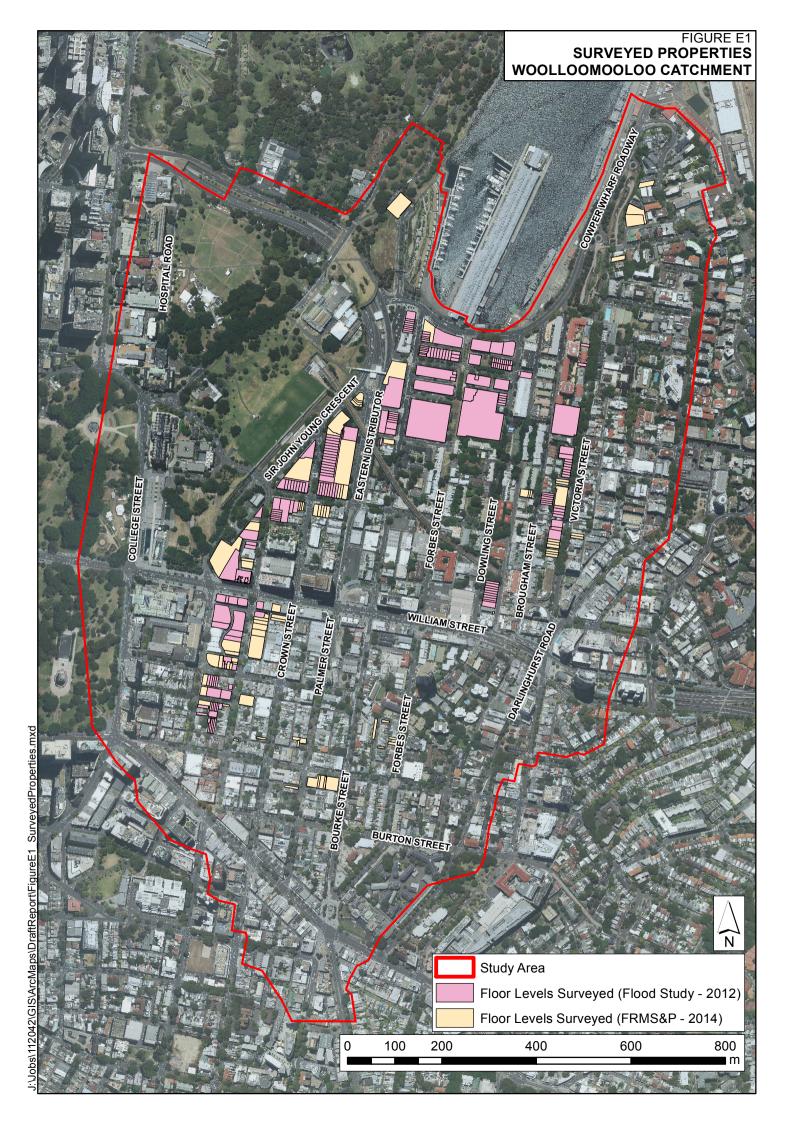
Table D2: Commercial Tangible Damages - Option FM - WLM01

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total [Damages for Event	e. Damage Per Flood Affected Property
PMF	112	92	\$	15,124,600	\$ 135,000
1.0%	83	42	\$	6,317,700	\$ 76,100
2.0%	82	34	\$	5,287,200	\$ 64,500
5.0%	76	28	\$	4,319,000	\$ 56,800
10.0%	74	13	\$	2,273,300	\$ 30,700
20.0%	68	10	\$	1,804,700	\$ 26,500
50.0%	60	6	\$ 1,133,400		\$ 18,900
	Average A	Annual Damages (AAD)	\$	-	\$ -

Table D3: Combined Tangible Damages - Option FM - WLM01

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total	Damages for Event	Ave. Damage Per Flood Affected Property
PMF	314	247	\$	23,733,400	\$ 75,600
1%	226	90	\$	9,344,900	\$ 41,300
2%	207	67	\$	7,571,900	\$ 36,600
5%	183	54	\$	6,175,300	\$ 33,700
10%	173	34	\$	3,757,000	\$ 21,700
20%	160	21	\$	2,754,000	\$ 17,200
50%	142	11	\$	1,645,200	\$ 11,600
	Average A	Annual Damages (AAD)	\$	-	\$ -





rioor Level	Survey (undertaken in 2012 o	us part 0J	VVUOIIOO	11100100 F100d S	cuuyj	1						1					
						RESIDENTIAL BUILDINGS											
Parcel Tag as on Council cadastre (GIS Tag)	<u>Photograph name</u>	Total number of buildings	Street Number	Street Name	Indicative Ground Level (m AHD)	Lowest Habitable Floor Level (m AHD)	Single (S) or Double storey (D)	Do people live on the Ground Floor (Y or N)	House Size - Small (S), Medium (M), Large (L)	Floor Construction Pier (P) or Slab (S) Other describe	Wall Construction Brick, Stone or Rendered (B), Clad (C), Mixed (M)	Type [Commercial = C, Industrial = I, Public = P]	Name and Nature of Use/Business	Lowest Floor Level (m AHD)	Approximate Floor Area (m²)	Floor Construction Pier (P) or Slab (S) Other describe	Wall Construction Brick, Stone or Rendered (B), Clad (C), Mixed (M)
524835	Bland-032-524835	1	32	Bland Street	1.80	2.01	D	Y	S	P	В						
524834 524833	Bland-030-524834 Bland-028-524833	1 1	30 28	Bland Street Bland Street	1.79 1.83	2.01	D D	Y	S S	P P	B B						
524832	Bland-026-524832	1	26	Bland Street	1.85	2.01	D	Y	S	P	В						
524831	Bland-024-524831	1	24	Bland Street	1.88	2.06	D	Υ	S	Р	В						
524830	Bland-022-524830	1	22	Bland Street	1.90	2.06	D	Y	S	P	В						
524829 524828	Bland-020-524829 Bland-018-524828	1	20 18	Bland Street Bland Street	1.93 1.94	2.04	D D	Y	S S	P P	B B						
524827	Bland-016-524827	1	16	Bland Street	1.95	2.11	D	Y	S	P	В						
524826	Bland-014-524826	1	14	Bland Street	1.96	2.14	D	Υ	S	Р	В						
525065	Bourke-009-525065	1	9	Bourke Street	1.95	2.56	D	Y	S	Р	В						
525123 525121	Bourke-089-089A-525123 Bourke-085-087-525121	1	89-89A 85-87	Bourke Street Bourke Street	2.27 2.02	2.67	D	Υ	M	Р	В	С	Disused Garage	2.03	350	S	В
525119	Bourke-083A-525119	1	83A	Bourke Street	2.12	2.60	D	Υ	S	Р	В	C	Disased Garage	2.03	330	3	5
525117	Bourke-083-525117	1	83	Bourke Street	2.11	2.69 (Approx)	D	Υ	S	Р	В						
525115	Bourke-081-525115	1	81	Bourke Street	2.06	2.65	D	Y	S	P	В						
525064 525113	Bourke-008-525064 Bourke-079-525113	1	8 79	Bourke Street Bourke Street	1.62 2.04	1.85 2.60	D D	Y	S S	P P	B B						
525113	Bourke-077-525112	1	77	Bourke Street	1.98	2.59	D	Y	S	P	В						
525111	Bourke-075-525111	1	75	Bourke Street	2.59							Р	City of Sydney Woolloomooloo	2.64	950	S	В
525063	Bourke-006-525063	1	6	Bourke Street	1.70	1.86	D	Υ	S	Р	В			0.40			
598557 525062	Bourke-004A-598557 Bourke-004-525062	1	4A 4	Bourke Street Bourke Street	1.88 1.72	1.69	D	Υ	S	P	В	С	Storage Room at Rear of Hotel	2.12	30	S	С
525085	Bourke-024-028-525085	2	24-28	Bourke Street	1.72	2.51	D	Y	L	S	В						
525079	Bourke-022-525079	1	22	Bourke Street	1.77	2.13	D	Υ	S	Р	В						
525082	Bourke-023-039-525082	1	23-39	Bourke Street	1.77	3.47	D	Υ	L	S	В						
525078 525077	Bourke-021-525078 Bourke-020-525077	1 1	21 20	Bourke Street Bourke Street	1.76 1.78	2.11 2.15	D D	Y	S S	P P	B B						
525075	Bourke-020-525077	1	19	Bourke Street	1.80	2.02	D	Y	S	P	В						
525074	Bourke-018-525074	1	18	Bourke Street	1.72	2.12	D	Υ	S	Р	В						
525059	Bourke-001-007-525059	1	001-007	Bourke Street	2.13	0.00						С	The Bells Hotel	2.20	300	S	В
525073 525072	Bourke-017-525073 Bourke-016-525072	1	17 16	Bourke Street Bourke Street	1.83 1.73	2.09 1.99	D D	Y	S S	P P	B B						
525071	Bourke-015-525071	1	15	Bourke Street	1.86	2.04	D	Y	S	P	В						
525070	Bourke-014-525070	1	14	Bourke Street	1.67	1.92	D	Υ	S	Р	В						
525069	Bourke-013-525069	1	13	Bourke Street	1.87	2.01	D	Y	S	Р	В						
525068 525067	Bourke-012-525068 Bourke-011-525067	1	12 11	Bourke Street Bourke Street	1.61 1.93	1.93 2.56	D D	Y	S S	P P	B B						
525066	Bourke-010-525066	1	10	Bourke Street	1.61	1.77	D	Y	S	P	В						
525599	Brougham-066-525599	1		Brougham Street	17.75	19.59	D	Y	М	Р	В						
624285	Brougham-079-085-624285-Rear	1		Brougham Street	6.46	6.54	4	Y	L	S	В						
525608 525606	Brougham-074-525608 Brougham-072-525606	1	74 72	Brougham Street Brougham Street	19.37 19.10	19.49 19.18	D D	Y	S S	P P	B B						
525603	Brougham-070-525603	1		Brougham Street	19.11	19.11	D	Y	S	P	В						
525601	Brougham-068A-525601	1	68A	Brougham Street	18.53	19.60	D	Υ	М	Р	В						
525600	Brougham-068-525600	1	68	Brougham Street	18.23	19.56	D	Y	M	Р	В						
532009 512435	Brougham-036-042-532009 Cathedral-098-512435	1 1	36 98	Brougham Street Cathedral Street	12.05 4.64	13.92	3	Y N	M M	S S	B B	С	Benedictus Media	4.78	100	S	В
512434	Cathedral-096-512434	1	96	Cathedral Street	4.65		3	N	M	S	В	С	?	4.76	100	S	В
512433	Cathedral-094-512433	1	94	Cathedral Street	4.70		3	N	М	S	В	С	Travel on Q	4.85	100	S	В
512432	Cathedral 000 512432	1	92	Cathedral Street	4.75		3	N	M	S	В	С	Kenstrom Design	4.86	100	S	В
512431 525904	Cathedral-090-512431 Cathedral-087-091-525904	2	90 87-91	Cathedral Street Cathedral Street	4.80 4.78	1	3	N N	M L	S S	B B	C	Marinassess Colliers Sandwich Shop/Landmark	4.94 5.00	100 750	S S	B B
512429	Cathedral-088-512429	1	88	Cathedral Street	4.78		3	N	L	S	В	С	Luxe Apartments	4.94	190	S	В
627793	Cathedral-122-627793	1	122	Cathedral Street	4.38	4.69	3	Υ	S	Р	В		·				
627792	Cathedral-120-627792	1	120	Cathedral Street	4.37		3					С	Gadget Group Publishing	4.68	120	P	В
525923 525920	Cathedral-118-525923 Cathedral-116-525920	1 1	118 116	Cathedral Street Cathedral Street	4.33 4.30	4.49	D D	Υ	S	P	В	С	Australegal Solicitors	4.50	120	Р	В
525920	Cathedral-114-525918	1	114	Cathedral Street	4.30	4.43	D	Υ	S	P	В	<u> </u>					
525917	Cathedral-112-525917	1	112	Cathedral Street	4.31	4.48 (Approx)	D	Υ	S	Р	В						
525916	Cathedral-110-525916	1	110	Cathedral Street	4.23	4.48 (Approx)		Υ	S	Р	В				100		
525913 512438	Cathedral-108-525913 Cathedral-104-512438	1 1	108 104	Cathedral Street Cathedral Street	4.22 4.43		D 3	N	M	S	В	С	Octet House Soho Galleries	4.49 4.61	160 120	P S	B B
512438	Cathedral-103-525910	1	104	Cathedral Street	4.43	4.94	3	Y	L	P P	В	L L	John Gallettes	4.01	120	3	D
512437	Cathedral-102-512437	1	102	Cathedral Street	4.55	<u> </u>	3	N N	M	S	В	С	Hairdresser	4.69	100	S	В

Floor Level	Survey (undertaken in 2012	as part of	Woolloo	mooloo Flood S	tudy)												
								RESIDE	NTIAL BUILDING	GS			NON RESIDENTIAL BUILDINGS				
Parcel Tag as on Council cadastre (GIS Tag)	Photograph name	Total number of buildings	Street Number	Street Name	Indicative Ground Level (m AHD)	Lowest Habitable Floor Level (m AHD)	Single (S) or Double storey (D)	Do people live on the Ground Floor (Y or N)	House Size - Small (S), Medium (M), Large (L)	Floor Construction Pier (P) or Slab (S) Other describe	Wall Construction Brick, Stone or Rendered (B), Clad (C), Mixed (M)	Type (Commercial = C, Industrial = I, Public = P)	Name and Nature of <u>Use/Business</u>	Lowest Floor Level (m AHD)	Approximate Floor Area (m²)	Floor Construction Pier (P) or Slab (S) Otherdescribe	Wall Construction Brick, Stone or Rendered (B), Clad (C), Mixed (M)
525909	Cathedral-101-525909	1	101	Cathedral Street	4.65	4.76	3	N	М	S	В						(IVI)
512436 526538	Cathedral-100-512436 Cowper-007-041-526538	1	100 007-041	Cathedral Street wper Wharf Roadv	4.56 2.16		3	N N	M L	S S	B B	С	Toupee by Raymond Hairdresser Various including Restaurants, Mer	4.70 2.37	100 1100	S S	B B
527500	Cowper-065-527500	1	65	wper Wharf Roady	1.85	Vacant	3	IN	L	3	В	С	various including Restaurants, ivier	2.57	1100	3	Б
526571	Cowper-061-063-526571	1	61-63	wper Wharf Roadv	2.25							С	Shell Service Station	2.42	340	S	
526544	Cowper-057-526544	1	57	wper Wharf Roadv	2.18		4	N	L	S	В	С	Grocery Food Store, Service Station	2.32	400	S	В
526540 526652	Cowper-043-051-526540 Crown-008-526652	1 1	43-51 8	wper Wharf Roadv Crown Street	2.06 4.10		3 D	V	S	D	В	C	Artspace "The Gunnery" Paul J Finch (Attorney & Barrister)	2.23 4.38	960 130	S	B B
526651	Crown-006-526651	1	6	Crown Street	4.16	4.63	D	Y	S	P	В		radis i ilicii (Attorney & Barrister)	4.38	130	r	В
526650	Crown-004-526650	1	4	Crown Street	4.15	4.63	D	Υ	S	Р	В						
526667	Crown-034-526667	1	34	Crown Street	3.66	4.26	D	Y	S	Р	В		C		400		
526665 526664	Crown-032-526665 Crown-030-526664	1 1	32 30	Crown Street Crown Street	3.77 3.72	4.20	D D	Y	S S	P P	<u>В</u> В	С	"Gate 7" Tourism office	4.24	120	Р	В
526663	Crown-028-526663	1	28	Crown Street	3.74	4.18	D	Y	S	P	В						
526662	Crown-026-526662	1	26	Crown Street	3.77	4.19	D	Υ	S	Р	В						
526661	Crown-024-526661	1	24	Crown Street	3.92	4.22	D	Y	S	P P	В						
526660 526891	Crown-022-526660 Crown-216-526891	1 1	22 216	Crown Street Crown Street	3.81 24.02	4.24	D 3	N N	S M	S	<u>В</u> В	С	Belisimo Pasta Bar Restaurant & Ca	24.30	130	S	В
526659	Crown-020-526659	1	20	Crown Street	3.81	4.20	D	Y	S	P	В	<u> </u>	Densimo i asta bai nestadiane a et	2 1.50	150	J	
526658	Crown-018-526658	1	18	Crown Street	3.84	4.17	D	Υ	S	Р	В						
526657	Crown-016-526657	1	16	Crown Street	3.88	4.17	D	Y	S	P D	В						
526656 526655	Crown-014-526656 Crown-012-526655	1	14 12	Crown Street Crown Street	4.01 3.99	4.32 4.32	D D	Y	S S	P P	<u>В</u> В						
526654	Crown-010-526654	1	10	Crown Street	4.16	1.52	D	Y	S	P	В	С	Graham Abbot Assoc - Chartered A	4.33	120	Р	В
527512	Dowling-046-527512	1	46	Dowling Street	2.01							С	Frisco Hotel	2.34	380	S	В
527501	Dowling-006-010-527501	1	006-010	Dowling Street	1.82	2.88	4	Y	L	S	В						
527508 527507	Dowling-039-527508 Dowling-037-527507	1 1	39 37	Dowling Street Dowling Street	2.10 2.08	2.27 2.29	D D	Y	S S	P P	B B	<u> </u>					
527506	Dowling-035-527506	1	35	Dowling Street	1.99	2.28	D	Y	S	P	В						
527505	Dowling-033-527505	1	33	Dowling Street	1.99	2.27	D	Y	S	Р	В						
527504 527582	Dowling-031-527504 Dowling-246-248-527582	1	31	Dowling Street	1.87 20.92	2.25 21.27	D D	Y	S M	P P	<u>В</u> В	С	"dc" - old laundry	21.52	170	P	В
527580	Dowling-244-527580	1	246-248	Dowling Street Dowling Street	20.92	21.27	D	Y	M	P	В	C	ac - old launury	21.52	170	P	В
527577	Dowling-242-527577	1	242	Dowling Street	20.40	20.91	D	Υ	М	Р	В						
527575	Dowling-240-527575	1	240	Dowling Street	20.29	20.66	D	Υ	М	Р	В						
527570 527568	Dowling-238-527570 Dowling-236-527568	1 1	238 236	Dowling Street	19.83 19.53	20.31 19.97	D D	Y	M M	P P	В В						
527566	Dowling-234-527566	1	234	Dowling Street Dowling Street	19.30	20.00	D	Y	M	P	В						
527563	Dowling-232-527563	1	232	Dowling Street	19.08	19.99	D	Υ	М	Р	В						
527560	Dowling-230-527560	1	230	Dowling Street	18.78	19.23	D	Υ	М	Р	В						
527557 573470	Dowling-228-527557 Forbes-009-573470	1	228 9	Dowling Street Forbes Street	18.57 2.01	19.17 2.40	D D	Y	M S	P S	В В						
573469	Forbes-007-573469	1	7	Forbes Street	2.01	2.38	D	Y	S	S	В						
528089	Forbes-038-068-528089	Abt 8	38-68	Forbes Street	2.00				_	_	-	Р	Plunkett Street Public School	2.13	3800	S	В
528087	Forbes-028-036-528087	1	28-36	Forbes Street	1.89	1.98	3	Υ	L	S	В						
528249 528084	Forbes-237-528249 Forbes-020-026-528084	1 + Garage	237	Forbes Street Forbes Street	42.59 2.02	43.14 2.40	3	Y	M M	P S	В В						
528084	Forbes-020-026-528084 Forbes-019-023-528082	1	19-23	Forbes Street Forbes Street	2.02	2.40	4	Y	L IVI	S	В						
528080	Forbes-017-528080	Nil	17	Forbes Street	1.89							С	SPS #17	2.53	90	S	Nil
528077	Forbes-013-528077	1	13	Forbes Street	2.05							С	Gallery	2.11	70	Р	В
525092 528075	Forbes-025-035-525092	8	25-35	Forbes Street	2.12	2.37	D	Υ	L	S	В	-	Tilbuny Hotal	2 1 4	450	P	n
528075 573471	Forbes-012-018-528075 Forbes-011-573471	1	012-018 11	Forbes Street Forbes Street	2.08 2.01	2.39	D	Υ	S	S	В	С	Tilbury Hotel	2.14	450	Ρ	В
528406	Francis-051-528406	1	51	Francis Street	16.96	17.11	D	Y	S	P	В						
528404	Francis-049-528404	1	49	Francis Street	16.92	17.23	D	Υ	S	P	В						
528403 528402	Francis-047-528403 Francis-045-528402	1 1	47 45	Francis Street Francis Street	16.83 16.74	17.15 17.18	D D	Y	S S	P P	<u>В</u> В						
528402	Francis-043-528402	1	43	Francis Street	16.74	17.18	D D	Y	S	P	В				1		
528400	Francis-041-528400	1	41	Francis Street	16.75	16.94	D	Y	S	P	В				<u> </u>		
528399	Francis-050-528399	1	50	Francis Street	16.67							С	St Vincent de Paul	15.46	440	S	В
528523 528607	Griffiths-013-015-528523 Harmer-011A-528607	1 1	13-15 11A	Griffiths Street Harmer Street	2.08 1.84	Inaccess	D	N	S	D	В	С	Kings Cross Garage	2.23	760	S	В
528607	Harmer-011A-528607 Harmer-011-528606	1	11A 11	Harmer Street Harmer Street	1.84	2.53	D	Y	S	P P	В						
616410	Liverpool-279-283-616410	1	279-283	Liverpool Street	24.29							С	Luxe Studios	24.84	490	S	В
529263	Liverpool-265-277-529263-1	1	265-277	Liverpool Street	23.44		D	N	М	S	В	С	The Grand Social Fashion	23.63	720	S	В

Second Second Person Sec	Floor Level	Survey (undertaken in 2012 o	as part of	Woolloo	mooloo Flood S	itudy)												
March Marc									RESIDE	NTIAL BUILDING	GS			NON RESIDENTIAL BUILDINGS				
	as on Council cadastre	Photograph name	number of		Street Name	Ground Level (m	<u>Habitable</u> <u>Floor Level</u>	(S) or Double storey	on the Ground	Small (S), Medium (M),	Construction Pier (P) or Slab (S) Other	Construction Brick, Stone or Rendered (B), Clad (C), Mixed	(Commercial = C, Industrial =		Floor Level (m	Floor Area	Construction Pier (P) or Slab (S) Other	Construction Brick, Stone or Rendered (B), Clad (C), Mixed
Dec			1		· ·			D	N	М	S		С				S	
Martine Mart			1										ŭ				•	
1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985							7.65 (Approx)	4	Υ	ı	S	B	C	Mariners Court Hotel	6.97	980	5	В
1927			1	1			7.03 (Approx)	<u> </u>	·		<u> </u>	<u> </u>	С	Gallery	2.16	100	S	В
	522872		1		Nicholson Street				Υ	S	Р	В						
			1	_					· ·	_								
			1							_								
	_		1	_					Y									
Commonwealth Comm			1						Y	S	Р							
Section Control Cont			-							_	·	_						
								D	Y	3	Р	В						
Major Micros Mi			-		Nicholson Street													
1938			1	+														
Color	-		1 1				2.39	U	Y	5	5	R	P	Juanita Nielson Community Centre	2,07	700	S	R
Gold Michaelmo 604 1379 1 25 Michaelmo 604 1371 1 27 Michaelmo 604 1371 27 28 0 7 5 5 0							2.39	D	Υ	S	S	В		Sommany sente				
2325 Monthern 042 57985 1 24 Monthern street 200 2.37 0 V S S B			-	_					· ·	_								
												_						
Second Column Second Colum									Y									
Second Printer-000-2583-258 1 2 Printer-100-258-258 1 1 Printer-100-258-258 1 1 Printer-100-258-258 1 Printer-100-258-258 1 Printer-100-258-258 1 Printer-100-258-258 1 Printer-100-258-258 1 Printer-100-258-258 Printer-10			_	_			2.50		·			D	1	Substation #104	2.00	80	S	В
1	523530		1	011-025	Palmer Street	2.33							С	Storage King	2.32	820	S	В
Symbol S			-				10.16		,,				С	Together Creative	18.31	60	S	В
Salayara			1				18.46	4	Y	L	5	В	C	Café Pacifico Mexican Cantina	13 53	330	S	R
Solid Miley-QRE9-3033040		<u>'</u>	1	_			17.19	D	Υ	M	Р	В	C	Care i acirico iviexican cantina	15.55	330	<u> </u>	Ь
Sample S	530440		1	89-91	Riley Street	12.89							С	Food Society	12.16	420	S	В
Sa3596 Riley-065-53346 Nil 5.456 Riley-free 1.592 Vacant			1						Y	S	·							
S33846 Niley-Q45-056-33384		•	1	_					Y	L S	_							
5,039,55 5,039,56 1			_		· · · · · · · · · · · · · · · · · · ·			D	·	<u> </u>	'	D	С	Hertz Car Rental	12.12	Nil	S	
Sandard Riley-041-503084			1										С					В
Sagara S			1	1				2		D.4	D.						_	
Sadas Riley-002-004-Sadas 1 2 Riley Street 4.94 5.37 3 Y 1 S B C The Villa 5.37 390 S B								3	N	M	Р	В		<u>'</u>			•	
Sa30374 Riley-014-530374 1 14 Riley Street 5.60 5.88 D Y S P B P City of Sydney Building 5.75 1.70 S B S30373 Riley-012-530375 1 12 125 Riley Street 16.84 16.94 5.50 N L S B C City European Auto 16.94 400 S B S30372 Riley-012-530377 1 119 Riley Street 16.84 16.94 16.93 S N L S B C City European Auto 16.94 400 S B S30372 Riley-012-530377 1 119 Riley Street 16.84 16.94 S N L S P B C City European Auto 16.94 400 S B S S S S S P Riley 112-125-530377 S P Riley-112-530377 S Riley-012-530377 S Riley-012-530377 S Riley-012-530377 S Riley-012-530377 S Riley-012-530377 S Riley-012-530377 S Riley-112-530377 S Riley-012-530377 S				1	· · · · · · · · · · · · · · · · · · ·		5.37	3	Υ	L	S	В						
Sadary S			1	16				D	•	S	Р	В						
Sailang			1				5.98	D	Y	S	Р	В		0, 60 1 0 11		470		
S30372 Riley-012-530372 1 12 Riley Street 5.57 5.97 D Y S P B			1 1		· · · · · · · · · · · · · · · · · · ·		16 94	ς	N	ı	ς	R	'				_	
Sandry S				+						-				, Laropeum nato	10.54	.50	<u> </u>	
Sall Seale CQ24-S31138	530471	Riley-119-530471	1	119	Riley Street						·	_						
Salidar Seale-022-531136																		
531134 Seale-020-531134 2 20 Seale Street 17.73 17.87 D Y M P B C Elephant Café and Bar and Backpach 5.21 5.00 P B 531132 Seale-018-531132 1 18 Seale-Street 20.65 20.93 D Y M P B C Elephant Café and Bar and Backpach 5.21 560 P B 531393 Stanley-050-058-514597 1 3.45 Stanley Inc. 12.63 12.88 3 Y L S B Elephant Café and Bar and Backpach 5.21 560 P B 531459 Stanley-065-531459 1 65 Stanley Street 15.79 15.71 D Y M P B C Restaurant - available for lease 1 6 Stanley-Street 15.27 15.47 D Y M P B C Restaurant - available for lease 110 P B 531450	-		1 1															
531132 Seale-018-531132 1 18 Seale Street 20.65 20.93 D Y M P B C Elephant Café and Bar and Backpac 5.21 560 P B 531393 Stanley-003A-005-531393 1 3A-5 Stanley Stanley Stanley-065-531459 1 65 Stanley Stanley-065-531459 1 65 Stanley Stanley-065-531459 1 65 Stanley Stanley-065-531459 1 63 Stanley Street 15.37 15.71 D Y M P B B - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <			2								'							
531393 Stanley-003A-005-531393 1 3A-5 Stanley Inches Stanley Street 15.49 15.87 D Y M P B C Canal Control of Stanley Street 15.49 15.87 D Y M P B C Canal Control of Stanley Street 15.49 15.87 D Y M P B C Canal Control of Stanley Street 15.47 D Y M P B C Restaurant - available for lease 110 P B 531454 Stanley-062-531456 1 61 Stanley Street 15.27 15.47 D Y M P B C Restaurant - available for lease 110 P B 531452 Stanley-062-531450 1 61 Stanley Street 15.19 15.50 D Y M P B C Restaurant - available for lease 110 P B 531448 Stanley-059-531445 1 58 Stanley Street 15.10 <td>531132</td> <td>Seale-018-531132</td> <td>1</td> <td></td> <td>Seale Street</td> <td>20.65</td> <td></td> <td>D</td> <td>Υ</td> <td>М</td> <td>Р</td> <td>В</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	531132	Seale-018-531132	1		Seale Street	20.65		D	Υ	М	Р	В						
531459 Stanley-065-531459 1 65 Stanley Stanley Stanley Street 15.49 15.87 D Y M P B C Canada (a) C Canada (a) C Stanley-062-531454 1 63 Stanley Street 15.27 15.47 D Y M P B C Restaurant - available for lease 110 P B 531454 Stanley-062-531454 1 62 Stanley Street 15.27 15.47 C C Restaurant - available for lease 110 P B 531452 Stanley-061-531452 1 61 Stanley Street 15.32 15.93 D Y M P B C Restaurant - available for lease 110 P B 531452 Stanley-061-531452 1 59 Stanley Street 15.19 15.50 D Y M P B C Restaurant - available for lease 110 D Y M P B C							12.00		.,				С	Elephant Café and Bar and Backpac	5.21	560	Р	В
531456 Stanley-063-531456 1 63 Stanley Street 15.37 15.71 D Y M P B C Restaurant - available for lease 110 P B 531454 Stanley-062-531454 1 62 Stanley Street 15.27 15.47 C Restaurant - available for lease 110 P B 531452 Stanley-061-531452 1 61 Stanley Street 15.32 15.93 D Y M P B C Restaurant - available for lease 110 P B 531452 Stanley-061-531452 1 61 Stanley Street 15.19 15.90 D Y M P B C Restaurant - available for lease 110 P B 531450 Stanley-059-5314450 1 59 Stanley Street 15.00 15.10 D Y M P B C C C C C C C C C <t< td=""><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>				1						-								-
531454 Stanley-062-531454 1 62 Stanley Street 15.27 15.47 Image: Control of the control o	-				· · · · · · · · · · · · · · · · · · ·													
531450 Stanley-059-531450 1 59 Stanley Street 15.19 15.50 D Y M P B G C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C </td <td>531454</td> <td>Stanley-062-531454</td> <td>1</td> <td>62</td> <td>Stanley Street</td> <td>15.27</td> <td>15.47</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>С</td> <td>Restaurant - available for lease</td> <td></td> <td>110</td> <td>Р</td> <td>В</td>	531454	Stanley-062-531454	1	62	Stanley Street	15.27	15.47						С	Restaurant - available for lease		110	Р	В
531448 Stanley-058-531448 1 58 Stanley Street 15.00 15.10 D Y M S B Image: Control of the cont	-	-			· '													
531447 Stanley-057-531447 1 57 Stanley Street 15.16 15.49 D Y M P B G Stanley Stanley Stanley Street 1.00 Stanley Street 14.87 14.97 D Y M S B G Stanley Street 1.00 P B 531445 Stanley-055-531445 1 55 Stanley Street 15.07 S Y M P B C Kalantzis Lawyers 15.41 70 P B 531443 Stanley-053-531443 1 53 Stanley Street 15.06 15.40 D Y M P B S S 5 5 5 6 15.06 15.40 D Y M P B S 5 6 5 5 6 5 6 5 7 8 7 8 8 8 8 8 8 8 8 8 8 8											•							-
531446 Stanley-056-531446 1 56 Stanley Street 14.87 14.97 D Y M S B E E Stanley Stanley Stanley Stanley Street 15.07 P B 531445 Stanley-055-531445 1 55 Stanley Street 15.07 S Y M P B S Stanley Stanley Stanley Street 15.41 70 P B 531440 Stanley-051-531440 1 51 Stanley Street 15.08 15.43 D Y M P B S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S			-									_						
531443 Stanley-053-531443 1 53 Stanley Street 15.06 15.40 D Y M P B B Stanley Stanley Stanley Stanley Street 1 51 Stanley Street 15.08 15.43 D Y M P B S S S S S S		Stanley-056-531446			,	14.87			Υ		S							
531440 Stanley-051-531440 1 51 Stanley Street 15.08 15.43 D Y M P B B			1	+									С	Kalantzis Lawyers	15.41	70	Р	В
			1 1		· '													
JOURNILL ON THE PROPERTY OF TH	531440	Stanley-051-531440 Stanley-049-531439	1	49	Stanley Street	15.08	15.43	D	Y	M	<u>Р</u>	В						

Floor Level S	Floor Level Survey (undertaken in 2012 as part of Woolloomooloo Flood Study)																
								RESIDE	NTIAL BUILDING	GS		NON RESIDENTIAL BUILDINGS					
Parcel Tag as on Council cadastre	<u>Photograph name</u>	Total number of buildings	Street Number	Street Name	Indicative Ground Level (m AHD)	Lowest Habitable Floor Level (m AHD)	Single (S) or Double storey	Do people live on the Ground Floor (Y or N)	House Size - Small (S), Medium (M), Large (L)	Floor Construction Pier (P) or Slab (S) Other	Wall Construction Brick, Stone or Rendered (B),	Type (Commercial = C, Industrial = I, Public = P)	<u>Name and Nature of</u> <u>Use/Business</u>	Lowest Floor Level (m	Approximate Floor Area (m²)	Floor Construction Pier (P) or Slab (S) Other	Wall Construction Brick, Stone or Rendered (B),
(GIS Tag)							<u>(D)</u>			<u>describe</u>	Clad (C), Mixed (M)			AHD)		<u>describe</u>	Clad (C), Mixed (M)
596915	Stanley-047-596915	1	47	Stanley Street	15.12	15.44	D	Υ	М	Р	В						
596914	Stanley-045-596914	1	45	Stanley Street	15.21	15.48	D	Υ	M	Р	В						
531707	Thomson-008-531707	1	8	Thomson Street	38.50	39.14	3	Υ	М	Р	В						
531711	Thomson-016-531711	1	16	Thomson Street	38.63	39.45	D	Υ	М	Р	В						
531710	Thomson-014-531710	1	14	Thomson Street	38.63	39.42	D	Υ	М	Р	В						
531709	Thomson-012-531709	1	12	Thomson Street	38.60	39.42	D	Υ	М	Р	В						
531708	Thomson-010-531708	1	10	Thomson Street	38.55	39.44	D	Υ	М	Р	В						
634063	Victoria-075-634063	1	75	Victoria Street	25.77	23.78	3	Υ	М	S	В						
632506	Victoria-065-632506	1	65	Victoria Street	24.22	22.51 (Approx	4	Υ	М	S	В						
532144	Victoria-171-173-532144	1	171-173	Victoria Street	32.00							С	Piccadilly Hotel	32.41	480	S	В
532136	Victoria-169-532136	1	169	Victoria Street	31.92							С	Golden Apple	30.12	150	S	В
532130	Victoria-165-167-532130	1	165-167	Victoria Street	31.69		5	N	L	S	В	С	Doughboy & Express Food Catering	29.13	340	S	В
532123	Victoria-163-532123	1	163	Victoria Street	31.63	32.39	3	Υ	M	S	В						
532119	Victoria-161-532119	1	161	Victoria Street	31.59	29.86 (Approx	3	Υ	М	S	В						
532114	Victoria-159-532114	1	159	Victoria Street	31.52	29.81	4	Υ	L	S	В						
532111	Victoria-157-532111	1	157	Victoria Street	31.46	29.12 (Approx	4	Υ	L	S	В						
532107	Victoria-155-532107	1	155	Victoria Street	31.38							С	Ms Gs Restaurant	31.41	120	S	В
532004	Victoria-123-125-532004	1	123-125	Victoria Street	30.21							С	Mezalona Ristorante Italiano	27.39	290	S	В
532000	Victoria-119-121-532000	1	119-121	Victoria Street	30.14	28.73	4	Υ	L	S	В						
531998	Victoria-117-531998-Rear	1	117	Victoria Street	11.93	14.41	11	Υ	L	S	В						
531981	Victoria-101-115-531981	Abt 8	101-115	Victoria Street	27.37	27.70	12	Υ	L	S	В						
599219	William-077-083-599219	1	77-83	William Street	13.73		4	N	L	S	В	С	First Blood	14.09	300	S	В
599218	William-073-075-599218	1	73-75	William Street	13.27							С	Thrifty Car Rental	13.44	250	S	В
599231	William-061-071-599231	1	61-71	William Street	12.57							С	Hertz Car Rental, Food Store, Archit	7 (Basem	330	S	В
606332	William-060-070-606332	1	60-70	William Street	12.59		13	N	L	S	В	С	Paramount Apartments (Restauran	12.63	850	S	В
599235	William-053-059-599235	1	53-59	William Street	12.68							С	Goldstein Catering Equipment	2 (Basem	450	S	В
600939	William-052-058-600939	1	52-58	William Street	12.80		7		L	S	В	С	"Peejays" Commercial Offices	12.83	820	S	В
599241	William-051-599241	1	51-51A	William Street	12.79							С	Currently vacant	12.93	80	S	В
599243	William-047-049-599243	1	47-49	William Street	12.94							С	Hotel William	13.00	270	S	В
533234	Yurong-058-533234	1	58	Yurong Street	19.19							С	Chiston-Browne-Crossley Solicitors	19.19	80	Р	В
533232	Yurong-056-533232	1	56	Yurong Street	20.05							С	Prentice Jaruin Lawyers	20.44	80	Р	В
533230	Yurong-054-533230	1	54	Yurong Street	19.72	20.19	D	Υ	М	Р	В		·				
533228	Yurong-052-533228	1	52	Yurong Street	19.29	17.66	3	Υ	М	Р	В						
533210	Yurong-004-016-533210	1	004-016	Yurong Street	12.89							С	Omnilab media	13.42	1300	S	В
533213	Yurong-022-533213	1	22	Yurong Street	13.60							С	Luce Plan Costanza	14.87	1260	S	В
533212	Yurong-020-533212	1	20	Yurong Street	12.66		4	Υ	L	S	В	С	Museum Lodge	12.85	460	S	В

Floor Level Survey (undertaken in 2014 as part of Woolloomooloo Floodplain Risk Management Study)

.cor Ecver Si	urvey (undertaken in 2	oz-ras part oj		. iooapiaiii Ni	J. Management		TAL BUILDING		NON-RESIDENTIAL BUILDING
Parcel Tags	Photo Name	Street Number	Street Name	Easting (m)	Northing (m)			Type Commercial (C)	Additional Comments
532479	3 Waratah St.png	3	Waratah Street	336101.0	6250427.0	4.86	5.44	Residential(R)	
530783			Roslyn Gardens	336055.0	6250421.0		5.98		Ground Level Top of Driveway Roslyn Gardens
			Roslyn Gardens	336096.0	6250408.0			Residential	Ground Level Rear Property -Parking Area
530765			Roslyn Gardens	336092.0	6250493.0		11.93	Residential	Entrance Fover level(Lowest Habiable Level Inaccessible)
528013			Evans Road	336136.0	6250477.0		6.88	Residential	
532478			Waratah Street	336095.0	6250457.0		6.80	Residential	
532481			Waratah Street	336111.0	6250444.0		6.00	Residential	Entrance Foyer level
530856			Roslyn Gardens	336044.0	6250388.0		10.50	Residential	Entrance Foyer level
330030			Roslyn Gardens	336082.0	6250374.0		10.50	Residential	Level at Rear of Property
530857			Roslyn Gardens	336041.0	6250374.0			Residential(R)	Roslyn Gardens Street Level
330037			Roslyn Gardens	336062.0	6250353.0		3.70	Residential(R)	Floor level at Base of Building
530974			Roslyn Street	335864.0	6250366.0		33.49	` '	Tiodi level at base of building
530905			Roslyn Gardens	336029.0	6250344.0		6.00	R	Lowest Floor Level Rear Building
530968			Roslyn Street	335936.0	6250219.0	24.29	25.50	Church	Floor Level Church First Floor
330306			Roslyn Street	335943.0	6250941.0		21.00	Church	Floor Level 2 Storey Building Rear Property
F20720							9.20	R	
528730			Ithaca Road	336155.0	6250708.0	8.00			Floor Level at Southern Side-RL 7.0 GND LVL at Rear
528732			Ithaca Road	336147.0	6250694.0		13.40	R	placed and person that AT P
F0000			Ithaca Road	336168.0	6250699.0		7.50	R	Floor Level Bottom Unit AT Rear
528004			Esplanade	336201.0	6250775.0		3.90	R	
533153			Wylde Street	335790.0	6251230.0		18.27	R	
			Wylde Street			20.49		R	Entrance Foyer Level
531810			Victoria Street	335699.0	6251066.0		17.40	R	
524760	21C Billyard Ave png		Billyard Avenue	335996.0	6250776.5		17.26	Residential(R)	Onslow Street Frontage
524760			Billyard Avenue	336053.0	6250813.0		6.40	R	Billyard Avenue Frontage
524767			Billyard Avenue	336005.5	6250885.0	10.47	10.63	R	
524776			Billyard Avenue	336013.5	6250875.0		8.00	R	RL 8.00 Floor Level at Front Doorway
524787		42	Billyard Avenue	336107.5	6250786.5	5.27	4.30	R	RL 4.3 Floor level South Entrance to Main House
		42	Billyard Avenue	336138.5	6250771.5	4.68		R	Garage Entrance Near Intersection Ithaca
		42	Billyard Avenue	336090.5	6250795.0	5.60		R	Entrance Western End Billyard Ave Frontage
528727		2A	Ithaca Road	336155.0	6250750.0	4.44	5.50	R	
		2A	Ithaca Road	336180.0	6250756.0	3.00	3.00	R	Rear Levels At No.2A
532022		141	Victoria Street	335609.0	6250595.0	30.61	27.70	Commercial©	Basement Level of Terrace-RL31.20Ground Floor
532024		141A	Victoria Street	335609.0	6250594.0	30.70	27.70	С	Basement Level of Terrace-RL31.20Ground Floor
532030		145-153	Victoria Street	335604.0	6250558.0	31.30	31.29	С	
532157		178	Victoria Street	335613.0	6250485.0	32.53	32.85	С	
532159			Victoria Street	335613.0	6250479.0		34.30	С	
532150			Victoria Street	335590.0	6250472.0		32.76	С	
532156			Victoria Street	335589.0	6250465.0		32.82	С	
532161			Victoria Street	335588.0	6250457.0		33.33	С	
532173			Victoria Street	335586.5	6250449.5	33.25	34.04	C	
532175			Victoria Street	335585.5	6250442.0		34.05	C	
532173			Victoria Street	335585.0	6250440.0		34.00	С	
529624			McElhone Street	335507.5	6250581.5	8.90	9.20	Residential(R)	
323024			McElhone Street	335506.5	6250575.0		9.40	R R	
			McElhone Street	335506.0	6250574.0		9.72	R	
			McElhone Street	335505.0	6250566.5	9.33	10.01	R	
532931				335505.0	6250566.5		10.01	R R	
			Windeyer Street						
532932			Windeyer Street	335527.0	6250563.0		10.71	R C/B	
525911	107 Coth - dual Ct		Cathedral Street	335043.0	6250554.5		4.77	C/R	
	107 Cathedral Street.png		Cathedral Street	335042.0	6250554.5	4.61	4.94	C/R	
525915			Cathedral Street	335046.5	6250553.5	4.56	4.74	C/R	
525919			Cathedral Street	335083.0	6250548.0		5.04	Residential(R)	
525921			Cathedral Street	335089.0	6250547.0		5.05	R	
525922			Cathedral Street	335094.0	6250546.0		5.09	R	
525925			Cathedral Street	335100.0	6250545.0		5.08	R	
627794			Cathedral Street	335120.0	6250562.0		4.67	R	
627795			Cathedral Street	335125.0	6250562.0		4.72	R	
525934		128	Cathedral Street	335138.0	6250560.0	4.47	4.65	R	
530389		53	Riley Street	334943.0	6250431.0	8.86	9.30	Commercial(C)	
530392			Riley Street	334940.0	6250415.0	9.39	9.63	С	
			Riley Street	334915.5	6250415.0	1	7.71	С	Doorway Busby Lane
		22-01	Micy Street	334313.3	0230 113.0		,., _	· ·	Doorway basby Lanc
526648			Crown Street	335097.0	6250702.5		4.43	Residential(R)	Doorway Busby Earle

Floor Level Survey (undertaken in 2014 as part of Woolloomooloo Floodplain Risk Management Study)

	urvey (undertaken in 2			•			TAL BUILDING		NON-RESIDENTIAL BUILDING
Parcel Tags	Photo Name	Street Number	Street Name	Easting (m)	Northing (m)			Type Commercial (C)	Additional Comments
	Photo Name		Crown Street	Easting (m)	Northing (m)				Additional Comments
526715	04.0 01 1			335011.0	6250307.0		14.88	С	
526717	91 Crown Street.png		Crown Street	335010.0	6250304.0		14.88	C C	
526827			Crown Street	334967.0	6250053.0		21.54	Residential(R)	
527584			Dowling Street	335451.0	6250318.0	27.75	27.86	Industrial	McElhone Street Frontage Electricity Substaion
			Dowling Street	335448.0	6250319.0	23.70		Industrial	Brougham Lane Level
531393			Stanley Lane	334894.0	6250226.0	13.77	13.84	Residential(R)	Apartment 4
		3A-5	Stanley Lane	334889.0	6250227.0	13.33	13.45	R	Apartment 3
		3A-5	Stanley Lane	334884.5	6250227.5	13.24	13.26	R	Apartment 2
		3A-5	Stanley Lane	334880.0	6250228.0	12.75	12.89	R	Apartment 1
531434		41-43 Stan		334832.0	6250170.0		17.04	Commercial(C)	Levels at Rear of Properrty
615041			Stanley Street	334844.0	6250212.0		14.93	C	
627788	52-54 Stanley Street.pi		Stanley Street	334870.0	6250204.0		15.42	C	
531449	32 3 i Stainey Street.pt		Stanley Street	334889.0	6250200.0	15.16	15.42	C	
531451			Stanley Street	334891.0	6250200.5	15.20	15.43	С	
533226								C	Floor Lovel at Door of Dvilding
			Francis Street	334832.0	6250165.0		15.51	_	Floor Level at Rear of Building
528396			Francis Street	334828.0	6250134.5	17.90	19.90	Residential(R)	
529286			Liverpool Street	335082.0	6249977.0	29.16	29.42	R/C	
524844			Boomerang Place	334867.0	6250395.0		13.31	Residential(R)	William Street Entrance Foyer
			Boomerang Place	334912.0	6250465.0		6.21	Residential(R)	Rear Lane Garage Entrance
		1	Boomerang Place	334914.5	6250460.0		6.39	Residential(R)	Rear Lane Fire Door Entrance
		1	Boomerang Place	334916.0	6250453.0		6.81	Residential(R)	Rear Lane Fire Door Entrance
530381			Riley Street	334956.5	6250508.5	6.24	6.10	Commercial(C)	
528483			Grantham Street	335758.0	6251141.0	20.70	19.80	Residential(R)	Entrance Foyer Level
611874			Grantham Street	335763.0	6251166.0	21.83	21.02	Residential(R)	Entrance Foyer Level-No.5 Stanford Hall
598056	2 Bourke St.png		Bourke Street	335302.0	6250931.0	2.04	2.23	Commercial(C)	Woolloomoolloo Hotel
525095	2 Bourke St.png		Bourke Street	335266.0	6250834.0		2.02	Commercial(C)	Eastern Distributor Offices
525126			Bourke Street	335239.0	6250681.0		2.02		Eastern Distributor Offices
							2.22	С	n .
525289			Bourke Street	335198.0	6250074.0				No Access
525358			Bourke Street	335120.0	6249955.0		29.30	Residential(R)	Courtyard at Rear
530496			Riley Street	334900.0	6250052.5	18.92	19.21	R	
530485			Riley Street	334892.0	6250122.0	17.33	17.65	Residential(R)	
530393		58	Riley Street	334942.0	6250309.0	12.16	12.46	Commercial(C)	
530394		60	Riley Street	334941.0	6250302.0	12.40	12.54	С	
530398		62-64	Riley Street	334939.0	6250292.0	12.52	12.69	С	
632547			Riley Street	334937.0	6250279.0	12.82	12.97	С	
530434			Riley Street	334933.0	6250253.0		14.21	С	
530448			Riley Street	334913.0	6250136.0		17.17	С	
530454			Riley Street	334910.0	6250229.0		13.80		Floor Level At Rear of Building(Watters Gallery)
530454			Riley Street	334912.0	6250246.0		15.00	C	Vacant Lot
530461							15 16	_	Vacant Lot
			Riley Street	334907.0	6250212.0		15.16	Residential(R)	Control Deadless Factor 5 1
528011			Esplanade	336178.0	6250789.5	2.05		Road	Centre Roadway Eastern End
			Esplanade	336229.0	6250770.0			Road	Centre Roadway Western End
531705			Thomson Street	335213.0	6250091.0	38.44	39.14	Residential(R)	
531718			Thomson Street	335204.0	6250036.0		39.72	Residential(R)	
528246			Forbes Street	335244.5	6250053.0	42.35	42.35	R	
528253		239	Forbes Street	335243.0	6250042.0	42.78	42.95	R	
599174	1 Crown Lane.png		Crown Lane	334974.0	6250314.0	12.72	12.85	Commercial(C)	
532782			William Street	334991.0	6250337.0		14.51	Commercial(C)	
514454			Lincoln Crescent	335260.0	6251170.0		2.87	Industrial(I)	Ausgrid Electricity Substation No.1600
525358			Liverpool Street	335123.0	6249970.0	32.70	33.12	Residential(R)	7.000.00 2.000.000, 00000000111012000
525358			Liverpool Street	335123.0	6249971.0		31.39	R/C	
529291			Liverpool Street	335112.0	6249972.0		31.34	R/C	Deep Countries An
			Liverpool Street	335109.0	6249972.5	30.91	31.10	R/C	Rear Courtyard Area
			Liverpool Street	335105.0	6249973.0		30.75	R/C	
			Liverpool Street	335100.0	6249974.0		30.43	R/C	
			Liverpool Street	335096.0	6249975.0	29.95	30.10	R/C	
		2-293	Liverpool Street	335090.0	6249975.5	29.60	29.86	R/C	
			Liverpool Street	335086.5	6249976.0		29.63	R/C	
529286			Liverpool Street	335082.0	6249977.0		29.42	R/C	
323200			Liverpool Street	335078.0	6249977.0		29.11	R/C	
529186			Liverpool Lane	335036.0	6250036.0		24.50	Residential(R)	
523539			Palmer Street	335151.0	6250639.0		3.07	R	
523706		191-193	Palmer Street	335054.0	6250051.5	25.90	26.00	R	

Floor Level Survey (undertaken in 2014 as part of Woolloomooloo Floodplain Risk Management Study)

						RESIDENT	TAL BUILDING	NON-RESIDENTIAL BUILDING			
Parcel Tags	Photo Name	Street Number	Street Name	Easting (m)	Northing (m)	Indicative	Lowest Habitable	Type Commercial (C)	Additional Comments		
523755	219 Palmer Street.png	219	Palmer Street	335009.0	6249955.0	24.85	24.85	Commercial(C)	Rear of Building Intersection Langley Street/Kings Lane		
		219	Palmer Street	335036.0	6249949.5	29.64	29.96	С	Front Building Palmer Street		
533141		24	Woods Lane	335024.0	6250055.0	23.27	23.62	Residential(R)			
527818		72	Elizabeth Bay Road	336135.7	6250626.0	20.85	20.90	R			
527819		74	Elizabeth Bay Road	336146.5	6250621.7	19.78		R			
531277		2-4	Sir John Young Cre	335175.0	6250780.0	3.84	4.20	R			
531279		6	Sir John Young Cre	335154.5	6250774.0	3.86	4.59	R			
531280		8	Sir John Young Cre	335152.0	6250771.5	3.85	4.47	R			
531281		10	Sir John Young Cre	335148.0	6250768.0	3.85	3.91	R			
531284		22-40	Sir John Young Cre	335111.0	6250730.0	4.40	4.40	R			
516978		60-72	Sir John Young Cre	335062.0	6250620.0	3.66	1.64	R	Lower Basement Floor Level Each Unit-RL4.57 Ground Floor Crown Street Frontage		
523068	•	18	Onslow Avenue	335026.0	6250712.5	23.85	24.20	Residential(R)	Foyer Level Front Entrance		
	·	18	Onslow Avenue	335026.0	6250712.5		18.10	R	Ground Level Side/Rear Building		
523076	28 Onslow Avenue.png	28	Onslow Avenue	336092.5	6250654.0	25.26	25.42	R	Entrance Door Level		