

WAVERLEY- WOOLLAHRA

Local Emergency Management Plan

2021



Part 1 – Administration

Authority

The Waverley-Woollahra Local Emergency Management Plan (EMPLAN) has been prepared by the Waverley-Woollahra Local Emergency Management Committee in compliance with the State Emergency & Rescue Management Act 1989.

APPROVED



Chair

Waverley-Woollahra Local Emergency Management Committee

Dated:

18/13/22

ENDORSED



Chair

Sydney Metropolitan Regional Emergency Management Committee

Dated:

18/13/22

Version Control

Document	Approval Date	Endorsed by REMC	Comment
EMPlan 2016	17/11/17 – Field	17/11/17	Initial EM Plan
EMPlan 2018	21/09/18	11/10/18	New Risk Table & Community Profile from 2016 Census data
EMPlan 2021	11/06/2021 (LEMC)		Updated community context data

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Purpose

Details arrangements for, prevention of, preparation for, response to and recovery from emergencies within the Local Government Area(s) covered by this plan.

It encompasses arrangements for:

- emergencies controlled by combat agencies;
- emergencies controlled by combat agencies and supported by the Local Emergency Operations Controller (LEOCON);
- emergency operations for which there is no combat agency; and
- circumstances where a combat agency has passed control to the LEOCON.

Objectives

The objectives of this plan are to:

- define participating organisation and Functional Area roles and responsibilities in preparation for, response to and recovery from emergencies;
- set out the control, co-ordination and liaison arrangements at the Local level;
- detail activation and alerting arrangements for involved agencies; and
- detail arrangements for the acquisition and co-ordination of resources.

Scope

The plan (public and restricted components) describes the arrangements at Local level to prevent, prepare for, respond to and recover from emergencies and also provides policy direction for the preparation of Sub Plans and Supporting Plans:

- Arrangements detailed in this plan are based on the assumption that the resources upon which the plan relies are available when required; and
- The effectiveness of arrangements detailed in this plan are dependent upon all involved agencies preparing, testing and maintaining appropriate internal instructions, and/or standing operating procedures.

Principles

The following principles are applied in this plan:

- a) The Emergency Risk Management (ERM) process is to be used as the basis for emergency planning in New South Wales. This methodical approach to the planning process is to be applied by Emergency Management Committees at all levels.
- b) Responsibility for preparation, response and recovery rests initially at Local level. If Local agencies and available resources are not sufficient they are augmented by those at Regional level.
- c) Control of emergency response and recovery operations is conducted at the lowest effective level.
- d) Agencies may deploy their own resources from their own service from outside the affected Local area or Region if they are needed.
- e) The Local Emergency Operations Controller (LEOCON) is responsible, when requested by a combat agency, to co-ordinate the provision of resources support. EOCONs would not normally assume control from a combat agency unless the situation can no longer be contained. Where necessary, this should only be done after consultation with the Regional Emergency Operations Controller (REOCON) and agreement of the combat agency and the appropriate level of control.
- f) Emergency preparation, response and recovery operations should be conducted with all agencies carrying out their normal functions wherever possible.
- g) Prevention measures remain the responsibility of authorities/agencies charged by statute with the responsibility.

Test and Review Process

The Waverley-Woollahra Local Emergency Management Committee (LEMC) will review this Plan every three (3) years, or following any:

- activation of the Plan in response to an emergency;
- legislative changes affecting the Plan; and
- exercises conducted to test all or part of the Plan.

References

This plan is not to be read in isolation to associated NSW Legislation, policy, plans, sub-plans and supporting plans.

Part 2 – Community Context

Annexure A – Community Profile

General

The areas covered by this Plan are those suburbs and localities within the boundaries of the Waverley and Woollahra Local Government Areas (LGA). The (combined) area is approximately 21 km² and is located in Sydney's eastern suburbs. The area contains 19 suburbs and 5 other localities. Neighbouring LGAs are Randwick and City of Sydney.

The area has a large residential population and distribution, however the suburb of Bondi Junction holds substantial commercial and retail centres; Bondi is a popular tourist location and the northern aspects of the LGA borders the Sydney harbour

Suburbs and *localities* include:

Bellevue Hill	<i>Charing Cross</i>	<i>HMAS Watson</i>	<i>Rose Bay North</i>
<i>Ben Buckler</i>	Darling Point	North Bondi	Tamarama
Bondi	<i>Diamond Bay</i>	Paddington	Vaucluse
Bondi Beach	Double Bay	Point Piper	Watsons Bay
Bondi Junction	Dover Heights	Queens Park	Waverley
Bronte	Edgecliff	Rose Bay	Woollahra

The LGAs have a combined total population of 131,000 people¹, with a population density of 6,300 people per square km (63 people per hectare). According to Destination NSW the current population increase is just over 1% per annum .

In addition to residential and working population, approximately 2.7 million people travel into the area per annum to visit various tourist locations and commercial business areas such as Bondi² and Double Bay. During the summer period population swells occur due to shopping, special events, evening functions and overnight stays. A number of Consulates are also located in the Woollahra LGA.

There are four major commercial precincts located at:

- **Bondi Junction** - which has over 39,000 people on average passing through the area each day and is the primary retail centre for the area. It includes Bondi Junction Plaza, Carousel, and Eastgate shopping centres, Eastern Suburbs Railway/Bus Interchange and numerous office blocks.
- **Double Bay** – has over 2,000 people on average working in the area each day. Double Bay contains about 24,000m² of retail floor space and about 37,000m² of non-retail floor space. The major industries of employment are retail, accommodation and food services. It also

¹ 2016 Census Data

² <http://www.destinationnsw.com.au/wp-content/uploads/2013/01/Bondi-Visitor-Profile-YE-Dec-2016.pdf?x15361>

contains significant health care services such as general practice, dental and specialist medical services.

- **Charring Cross** – is a major intersection within the Waverley LGA. There are two main roads that are intersecting which are Carrington and Bronte Roads. There are over 30 retail business and 3 licences premises being Charing Cross Hotel, Robin Hotel and Bronte RSL. Each of these establishments could possibly accommodate 2,000 patrons at one time. This is a major bus route linking Bondi Junction with city, Bronte Beach and Randwick.
- **Edgecliff** – is a busy bus/rail interchange that houses an underground car park and commercial centre and is surrounded by high rise apartments.

In common with other metropolitan Local Government Councils both Woollahra and Waverley consist of:

- Low to high density residential areas
- Commercial and industrial areas
- Major open spaces and protected reserves
- Topographical features and attractions including coastal cliffs, beaches, lowlands
- Tourism and local attractions including sports venues
- Major secondary education facilities

Suburbs closer to Sydney City LGA include terrace houses and narrow streets that are subject to traffic congestion, restricted space due to parked cars and may pose access issues for emergency vehicles.

Topography

The topography of the area is dominated by a series of ridges and slopes. The main ridge extends from Point Piper through Bellevue Hill. This ridge falls away to Double Bay in the west and Rose Bay in the east. The area to the north of Rose Bay rises quite steeply to South Head.

The most impressive feature of Waverley-Woollahra LEMC area is the coastline which consists of headlands, beaches, sand dunes and undulating topography.

There are two suburbs located on headlands along Sydney Harbor that have limited number of access/egress roads. Those suburbs are:





- Point Piper
- Watsons Bay settlement on South Head and including HMAS Watson

Waverley is flanked by several large portions of open space. The most significant of these are Moore Park, Queens Park and Centennial Park. Not far from Bondi Junction is Cooper Park and further north Royal Sydney Golf links occupies land in the band of formerly unstable sand between Rose Bay and Bondi. On the north and south points of the Eastern Suburbs peninsula are the Sydney Harbour and Botany Bay National Parks. The Pacific Ocean is on the eastern boundary and includes Bondi Beach, Tamarama Beach and Bronte Beach.





Climate

Waverley and Woollahra's temperatures vary from averages of 18 – 26 degrees Celsius in summer and 8 – 17 degrees Celsius in winter. Summer can rise to over 40 degrees Celsius.





SUMMER

	Dec	Jan	Feb
 Maximum temp °C	25.9	26.7	26.5
 Minimum temp °C	17.6	19.0	19.1
 Avg rainfall mm	72.8	93.8	114.3
 Avg rainy days	7.7	8.1	8.6





AUTUMN

	Mar	Apr	May
 Maximum temp °C	25.4	23.0	20.2
 Minimum temp °C	17.6	14.3	11.0
 Avg rainfall mm	120.7	105.0	95.3
 Avg rainy days	9.5	8.3	8.3

WINTER

	Jun	Jul	Aug
 Maximum temp °C	17.7	17.2	18.4
 Minimum temp °C	8.8	7.3	8.2
 Avg rainfall mm	124.8	69.2	75.6
 Avg rainy days	8.9	6.6	6.7

SPRING

	Sep	Oct	Nov
 Maximum temp °C	20.7	22.7	24.2
 Minimum temp °C	10.6	13.4	15.6
 Avg rainfall mm	59.7	70.1	79.5
 Avg rainy days	6.8	7.8	8.3

Land Use

The Waverley-Woollahra LEMC area encompasses the foreshore of the entrance to Sydney Harbour and the coastline of the Pacific Ocean to the east. Both providing expansive beaches, rock outcrops and open lands for leisure activities. Apart from Bondi Junction and smaller suburban retail strips the LGAs are predominantly low to medium-density residential in nature, though it also includes major arterial roads, two railway stations, 2 bus interchanges, bus stops, harbour wharves, one Australian Navy establishment, and other open space areas

Waverley is a denser urban area than Woollahra and the primary land use is residential. Waverley/Woollahra does not have any land zoned for industrial purpose, but has a strong commercial and employment base with the Bondi Junction sub-regional commercial centre.

Waverley is bound by the cliffs of Dover Heights, Bondi Beach, Tamarama Beach and Bronte Beach, extending to Waverley Cemetery and up to Bondi Junction.

Population and People

Detailed Profiles by LGA are available on the Waverley and Woollahra Council websites.

There are significant population areas situated along the coastal fringe and have exposure to coastal threats. However, the largest two suburbs within the LEMC area are Paddington and Bellevue Hill which both lie in the Woollahra LGA.

The total population is not evenly distributed across the suburbs as suburb land area and topography contribute to significant differences. These statistics assist emergency managers in determining the numbers of residential persons likely to have been impacted by the emergency

Though Woollahra LGA is slightly larger in geographical area than Waverley LGA it records 40% less resident density per m². The average household size is 2.3 persons.

Language

Waverley and Woollahra LGAs are some of the most multicultural areas in NSW. Over 43,000 residents or nearly 1 in 3 were born overseas. One in five households speak a language other than English at home.

Over 50 languages are spoken by residents other than English with Russian, Spanish, Portuguese, French, Mandarin, Hebrew and Italian languages dominating.

English as a second language - Proficiency

Of those that speak English as well as another language there are 1,865 people that state that they do not speak English at all or very well. Specification of language sets and locations within this group is unknown. However of those the greater majority have partners, children or family that do speak English.

This informs emergency managers on the probable effectiveness public safety information has when distributed in the English language. It also assists with decisions related to what interpretation services may be required during emergencies and also effective public education strategies outside of emergency situations.

Age Groups

The average age of the population in Woollahra is 39 and Waverley 35. Waverley LGA has a greater number of persons in the 20-35 age bracket which are primarily clustered in the Bondi suburbs. Woollahra LGA proportionally has an elder population with greater number of persons above 60 than Waverley suburbs. Waverley has 6,000 residents over 70 years and Woollahra 7,000.

These statistics assist in identifying indicative levels of resilience, dependency or self-help able to be undertaken by the affected population. It also assists in informing public education programs.

Need for Assistance

This informs emergency managers when considering evacuations, ongoing welfare of persons and additional assistance personnel during emergency situations.

- 1990 of Waverley's population reported a need for assistance
- 1438 of Woollahra's population reported a need for assistance

Number of Motor Vehicles per Dwelling

NSW Evacuation Guidelines makes recommendation that evacuees be encouraged to make their own way to a safer location, seek accommodation and assistance from family and friends or insurance companies where possible.

Emergency management planning and response considers the ability of people to be able to move under their own resources or are reliant upon other transport modes. This potentially places reliance upon public transport or the emergency management arrangements to facilitate movement.

- 17.2% of Waverley residences do not have available private transport.
- 12.7% of Woollahra residences do not have available private transport

Connectivity

This informs the public information strategies related to electronic methods used and probable community access related to public information.

- 7.9% of residences in Waverley inform of no connectivity.
- 5.9% of residences in Woollahra inform of no connectivity.

Private Dwellings

Approximately 1/3 of the residential population resides in multi-storey buildings.

- 31.8% of Waverley residents and 30.7% of Woollahra residents live in medium density housing
- 51.4% of Waverley residents and 48.1% of Woollahra residents live in high density housing
- 15.1% of Waverley residents and 19.9% of Woollahra residents live in separate dwellings.

Commuter Profile

A significant majority of commuters travel to work utilising private vehicles. Bus and rail transport modes are equally utilised outside of private vehicles. Any possible interruption to road or rail transport routes is a consideration for emergency managers and responders.

Commercial/Retail Premises

Woollahra has 11 commercial/retail precincts.

- Double Bay
- Rose Bay – Old South Head Road
- Rose Bay - New South Head Road
- Rose Bay- Plumber Road
- Oxford Street Paddington
- Five Ways Paddington
- Edgecliff
- Bellevue Hill
- North Queens Street Woollahra
- Vacluse
- Watsons Bay

Waverley has 10 commercial/retail precincts.

- Bronte Beach
- McPherson Street
- Charing Cross
- Bondi Junction
- Bondi Road
- Bondi Beach
- Bondi Terminus
- Rose Bay Village
- Rose Bay North
- Dover Heights

Industrial

None

Education Facilities

Approximately 6,500 school students attending- 24 schools located within the designated area. These schools consist of:

- Kambala is an Early Learning Centre to year 12 Independent Anglican girls' school, located in Rose Bay.
- Kincoppal-Rose Bay, is a is non-selective co-educational primary school and a girls only high school for approximately 905 students from kindergarten to Year 12, including 146 boarders.
- Cranbrook is an Anglican independent day and boarding school for boys, Pre-school to Year 12.
- The Scots College is an independent Presbyterian day and boarding school for boys, and currently caters for approximately 1800 students from Kindergarten to year 12, including 250 Boarders from years 5 to 12
- Reddam House is a co-educational, non-denominational school for children from Kindergarten through to Year 12.
- Ascham Primary has more than 1,200 girls enrolled with over 110 boarders across Years 7 to year 12, in five boarding houses
- Bellevue Hill Public is a co-educational school catering for children from kindergarten to year 6
- Double Bay Public School is a co-educational school catering for children from kindergarten to year 6
- Paddington Public School is a co-educational school catering for children from kindergarten to year 6
- Rose Bay Public is a co-educational school catering for children from kindergarten to year 6
- Waverley College...has approximately 800 boy students attending from year 7 - 12
- St Catherine's Girls' School...has approximately 800 girl students attending from year K-12
- St Charles School...has 500 boys and girls students attending from K - 6
- Rose Bay Secondary High School has approximately 1,000 boys and girl students from year 7-12
- Bondi Public School has 515 boys and girls attending from year K-6
- Bondi Beach Public School has 528 boys and girls attending from K-6
- Waverley Public School has 214 boys and girls attending from K-6
- Bronte Public School has 374 boys and girls attending from K-6

- Clovelly Public School has 545 boys and girls attending from K-6
- St Clairs Secondary has 474 girls attending from year 7-12
- Montessori Primary School has 200 boys and girls attending from K-6
- Kessortora Torah College has 500 boys and girls attending from age's year 2 – 18
- Moriah Secondary Collage has 750 boys and girls attending from K-12
- Reddam House Secondary College has 750 boys and girls attending from K-12

Average Age of Dwellings

The period in which suburbs were established and average age of dwellings can inform emergency managers about secondary hazards that may occur as a consequence of an emergency situation or hazard impact. This allows emergency responders and managers opportunity to provide appropriate public safety advice and prioritise appropriate actions and activities.

Paddington is the oldest area within the Woollahra Municipality dating back to the mid 1800's

Tourism

Both LGAs rely heavily on tourism, local and international origins. There are a number of facilities and attractions that cause significant influxes of people into the area with estimated population increases of 893,000 visitors per annum or more.

Per annum, Waverley LGA can receive over:

- 867,000 domestic visitors
- 148,000 overnight visitors
- 1,600,000 international visitors

Per annum, Woollahra LGA can receive over:

- 39,000 day visitors
- 96,000 overnight visitors
- 9,000 international visitors

These visitors are attracted to tourist attractions including:

- Westfield, Bondi Junction
- Bondi Beach
- Tamarama Beach
- Bronte Beach
- Coastal Walk from Bondi Beach to Waverley Cemetery
- The harbour foreshore
- Hermitage Walk – Sydney Harbour National Park
- The Gap
- Double Bay
- Oxford Street Paddington

Population and Demographics - Table 1

Suburb	Pop ^a	Median Age	Population in the Work Force	Mode of transport (to Work)		Family Composition			Dwellings						No Internet		Indigenous Persons
				Public	Private Vehicle	Avg children /family	One Parent Family	Couple with Child Dependents	Avg persons /dwelling	Avg Age of Dwellings	Separate House	Semi-detached, terrace house, townhouse etc	Flat, unit, apartment etc	Sole Occupant	No Vehicle	No Internet	
Bellevue Hill	10,765	36	5,359 49%	4,299	2,704	1.9	281 3%	1,021 9%	2.5		1,399	209	2,061	916 8%	371	297 3%	41
Bondi	9,614	33	5,531 57%	1,861	2,098	1.7	225 2%	700 7%	2.1		388	459	2,990	1,247 13%	896	595 6%	38
Bondi Beach	10,748	33	6,773 63%	2,346	2,438	1.6	262 2%	698 6%	2		258	588	3,795	1,650 15%	1,233	552 5%	45
Bondi Junction	8,660	35	4,893 54%	1,821	1,338	1.7	267 3%	648 7%	2.1		358	966	2,162	1,232 14%	1,024	535 6%	27
Bronte	6,827	37	3,896 54%	879	1,718	1.8	165 2%	830 12%	2.5		911	408	1,106	630 9%	296	259 4%	32
Darling Point	3,919	47	2,063 53%	553	802	1.5	95 2%	258 6%	1.9		136	191	1,549	807 21%	251	237 6%	9
Double Bay	4,887	38	2,584 55%	838	972	1.7	152 3%	341 7%	2.1		298	204	1,454	680 14%	338	30 1%	9
Dover Heights	3,940	39	1,980 50%	280	1,226	2	102 2%	608 15%	2.9		858	190	273	238 6%	83	79 2%	3
Edgecliff	1,881	38	1,192 60%	481	334	1.4	45 2%	111 6%	1.8		38	160	778	450 23%	258	3 0.1%	0
North Bondi	8,581	34	4,756 55%	1,254	2,213	1.8	222 3%	1,000 12%	2.4		890	758	1,522	853 10%	522	76 1%	19
Paddington	12,134	35	7,377 61%	2,030	2,266	1.6	275 2%	952 8%	2.1		323	3,139	1,564	1,847 15%	1,187	23 0.2%	29
Point Piper	1,404	48	612 43%	74	339	1.7	43 3%	98 7%	2.3		148	29	300	137 10%	29	3 0.2%	4
Queens Park	2,930	38	1,542 53%	392	610	1.8	93 3%	386 13%	2.5		395	392	290	266 9%	153	51 2%	17
Rose Bay	9,401	37	4,966 53%	1,191	2,409	1.7	311 3%	1,051 11%	2.3		885	347	2,453	1,057 11%	510	70 0.1%	17
Tamarana	1,450	35	832 57%	228	349	1.6	32 2%	120 8%	2.3		104	85	331	118 8%	77	5 0.3%	3
Vaucluse	9,051	39	4,328 48%	672	2,497	1.9	262 3%	1,283 14%	2.8		1,579	387	1,077	827 7%	200	96 1%	27
Watsons Bay	918	35	467 51%	52	150	1.9	21 2%	92 10%	2.4		132	40	88	82 9%	25	11 1%	0
Waverley	4,253	38	2,076 49%	648	821	1.7	165 4%	384 9%	2.2		277	406	859	539 13%	355	24 0.5%	30
Woollahra	7,180	40	3,897 54%	1,149	1,497	1.7	231 3%	671 9%	2.1		502	1,110	1,464	1,104 15%	547	22 0.3%	9

Note: % in relation to suburb population rounded to nearest whole number

Population Age Group by Suburb - Table 2

Suburb	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
Bellevue Hill	647	594	667	729	660	956	946	784	710	710	691	609	642	451	296	221	187	217
Assistance Dependent	4	7		9	6	5		7					14	17		46		56
Bondi	566	328	276	282	697	1,458	1,492	978	731	481	409	380	381	284	290	193	185	203
Assistance Dependent	0	10		6	6	6		15		16		35		25		65		71
Bondi Beach	617	317	227	239	832	1,887	1,928	1,387	841	503	447	347	333	246	194	156	131	116
Assistance Dependent	7	3		6		8		10		20		24		22		54		41
Bondi Junction	483	339	289	284	609	1,233	1,031	777	597	475	467	412	416	305	275	209	229	231
Assistance Dependent	5	7		3	6	6		5		7		20		20		68		84
Bronte	496	422	358	297	318	547	695	668	572	553	471	337	356	237	165	131	107	98
Assistance Dependent	0	12		0	3	7		0		12			9	25		36		32
Darling Point	171	124	105	79	151	326	379	302	223	235	238	240	300	266	204	163	172	239
Assistance Dependent	0	3		0	0	0		4		0			4	13		33		68
Double Bay	228	194	181	212	303	508	466	346	322	284	258	233	293	217	192	138	142	169
Assistance Dependent	0	6		3	0	3		4		3		5				28		61
Dover Heights	247	278	304	260	255	202	176	271	287	290	331	263	234	164	111	86	89	91
Assistance Dependent	6	6		3	3	5		0		3		7		6		14		34
Edgecliff	90	49	36	32	109	285	286	181	118	99	99	81	111	92	77	64	71	100
Assistance Dependent	0	0		0	0	0		4		3		0		8		18		48
North Bondi	738	534	361	323	469	886	1,059	939	753	573	456	357	374	229	176	119	103	133
Assistance Dependent	7	6		6	6	0		4		15		15		15		22		49
Paddington	743	461	323	341	805	1,600	1,535	1,307	1,021	790	640	547	656	526	347	190	153	153
Assistance Dependent	6	9		0	0	6		20		22		19		25		39		48
Point Piper	49	60	74	49	75	90	74	83	71	100	99	126	121	113	49	53	51	64
Assistance Dependent	0	0		0	0	3		0		3		6		3		7		18
Queens Park	258	196	147	137	133	168	232	257	280	204	198	160	186	119	91	80	40	43
Assistance Dependent	0	0		0	0	0		5		4		6		12		21		21
Rose Bay	678	482	495	441	485	786	907	851	654	607	508	476	554	442	297	255	241	242
Assistance Dependent	4	12		7	6	0		9		10		25		24		75		99
Tamarama	99	51	55	46	79	151	263	180	134	104	85	58	42	34	25	18	10	17
Assistance Dependent	0	4		0	0	0		3		0		5		0		4		12
Vaucluse	595	608	691	722	469	390	507	613	657	714	685	522	518	417	277	232	191	243
Assistance Dependent	3	17		6	5	6		9		9		15		22		57		103
Watsons Bay	53	73	49	77	122	36	42	59	79	57	59	45	48	27	31	15	19	29
Assistance Dependent	0	0		3	0	0		0		3		3		0		3		8
Waverley	308	213	158	185	198	310	423	400	360	286	195	188	182	146	137	137	147	282
Assistance Dependent	0	0		0	0	4		9		5		31		51		103		178
Woollahra	408	341	290	234	386	640	621	576	525	486	414	399	465	395	316	209	193	284
Assistance Dependent	0	8		7	0	0		6		13		16		17		46		91

Transport Routes and Facilities

- Edgecliff Railway Station and bus interchange - New South Head Road Edgecliff
- Bondi Junction Railway Station and bus interchange - Grafton Street Bondi Junction

Transport Emergency Plans

Requested from Waverley Local Area Command

Road Link Information

Major Road Links
Bondi Junction Bus and Rail Interchange
Syd Einfeld Drive
Bondi Road
Carrington Road
York Road
Oxford Street
Bronte Road
Campbell Parade
Old South Head Road
Military Road
New South Head Road
Victoria Road
Hopetoun Avenue
Edgecliff Road

Rail Link

- Edgecliff Railway Station, New South Head Road, Edgecliff
- Bondi Junction Railway Station, Grafton Street, Bondi Junction

Economy and Industry

- The Gross Regional Product for Waverley was \$4.901 billion in the year ending June 2020, with the largest industry being Retail Trade
- The Gross Regional Product for Woollahra is estimated at \$5.01 billion with the largest industry being Health care and Social Assistance

Community Dependencies

- Public Transport
- Aged care
- Refer Vulnerable Facilities Attachment in Part 3 – Restricted Section

Annexure B – Hazards and Risks Summary

A Local Emergency Risk Management (ERM) Study was undertaken by the Waverley Woollahra Local Emergency Management Committee on 19th July 2018. The LEMC identified the following hazards as having risk of causing loss of life, property, utilities, services and/or the community's ability to function within its normal capacity. These hazards have been identified as having the potential to create an emergency. The Risk Management Study utilised the National Emergency Risk Assessment Guidelines Practice Guide, 2015.

Consequence Table³

ELEMENTS	CONSEQUENCES				
	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC
People	NONE OR ISOLATED cases of injuries that do not require medical intervention Nil or less than 20 people displaced and able to be self sufficient.	ISOLATED cases of minor injuries & first aid treatment Small number of people displaced (20 to 100) and requiring very little assistance.	ISOLATED cases of serious injury (hospitalisation) & medical treatment cases. Small to moderate number of people displaced (100 to 1000) and/or requiring some assistance.	MULTIPLE cases of life threatening & serious injuries (hospitalisation) Moderate to large number of people displaced (1000 to 3000) and/or requiring assistance.	WIDESPREAD cases of: Multiple deaths or life threatening or serious injuries. >3000 people displaced & requiring assistance or long term support.
Property	NONE OR ISOLATED cases of minor damage to property that can be repaired by owners or without emergency agency assistance.	ISOLATED cases of minor damage to property that requires emergency agency assistance.	ISOLATED cases of moderate damage to property requiring external assistance to repair.	MULTIPLE cases of major damage to property or isolated cases of total loss.	WIDESPREAD cases of major damage and complete loss of properties.
Infrastructure	NONE OR ISOLATED cases of minor damage to infrastructure that can be repaired by owners and does not disrupt service/supply	ISOLATED cases of minor damage to infrastructure that disrupts supply/service to very few individual properties	ISOLATED cases of failure of service delivery or supply affecting some parts of the community	MULTIPLE cases of failure of service delivery or supply affecting large parts of the community	WIDESPREAD cases of long term failure or loss of significant infrastructure, service delivery or supply
Environment	NONE OR ISOLATED cases of very short term impact on the environment not requiring human intervention	ISOLATED cases of medium term impact on the environment not requiring human intervention	ISOLATED cases of impact on the environment requiring human intervention	MULTIPLE cases of intermediate impact on the environment requiring human intervention	WIDESPREAD cases of intermediate or long term impact on environment requiring human intervention
Economic	NONE OR ISOLATED cases of impact on industry without causing economic losses beyond insurance capability	ISOLATED cases of very short term impact on industry without causing economic losses beyond insurance capability	ISOLATED cases of impact on industry causing some economic losses beyond insurance recovery capability	MULTIPLE cases of impact on industry causing economic losses beyond insurance recovery capability	WIDESPREAD cases of impact on industry causing major economic losses
Animals	NONE OR ISOLATED cases of stock/Companion animals injured or displaced and able to be cared for by owners	ISOLATED cases of stock/companion animals injured or displaced and able to be cared for by owners	ISOLATED cases of stock/companion animals injured or displaced and external assistance required	MULTIPLE cases of stock/companion animals dead, injured or displaced and external assistance required	WIDESPREAD cases of stock/companion animals dead, injured or displaced and external assistance required

³ Central Metropolitan Region EM PLAN, November 2017

Risk Management Table⁴

CONSEQUENCE LEVEL							
LIKELIHOOD ⁵	Historical		Insignificant	Minor	Moderate	Major	Catastrophic
	Once or more per year	Almost Certain	Medium	Medium	High	Extreme	Extreme
	Once per 10 years	Likely	Low	Medium	High	Extreme	Extreme
	Once per 100 years	Unlikely	Low	Low	Medium	High	Extreme
	Once per 1000 years	Rare	Very Low	Low	Medium	High	High
	Once per 10,000 years	Very Rare	Very Low	Very Low	Low	Medium	High
	Once per 100,000 years	Extremely Rare	Very Low	Very Low	Low	Medium	High

⁴ Qualitative Risk Level Matrix, National Emergency Risk Assessment Guidelines Practice Guide, Australian Institute for Disaster Resilience, 2015, p.41⁵ Likelihood level, Risk Analysis, National Emergency Risk Assessment Guidelines Practice Guide, 2015, p.39

Waverley-Woollahra LEMC Risk Assessment Table (2021)

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency	Consequence Management Guide
Agricultural Disease (Animal/Animal)	An agriculture/horticulture incident that results, or has potential to result, in the spread of a communicable disease or infestation.	Unlikely	Minor	Low	Department of Primary Industries	
Coastal Erosion	Localised or widespread damage to built environment	Rare	Minor	Low	NSW SES	
Communicable Disease (Human/Animal)	Pandemic illness that affects, or has potential to affect, large portions of the human or animal population	Unlikely	Major	High	Department of Health	Pandemic CMG
Dam/Reservoir Failure	A dam/reservoir is compromised that results in localised or widespread flooding.	Rare	Moderate	Medium	Sydney Water NSW SES	Flood CMG
Earthquake	Earthquake of significant strength that results in localised or widespread damage.	Rare	Catastrophic	High	LEOCON	Earthquake CMG
Explosion	Explosion caused as a result of an incident or accident.	Unlikely	Major	High	LEOCON (Unless an act of terrorism)	Explosion CMG
Fire (Bush or Grass)	Major fires in areas of bush or grasslands.	Unlikely	Insignificant	Low	F&R NSW	

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency	Consequence Management Guide
Fire – Major Structural	Serious industrial, structural, commercial or residential fire in complexes, warehouses, vulnerable facilities, high rise, medical facilities	Likely	Moderate	High	F & R NSW	Major Structural Fire CMG
Flood (Flash)	Heavy rainfall causes excessive localised flooding with minimal warning time	Likely	Minor	Medium	NSW SES	Flood CMG
Hazardous Materials Release	Hazardous material released as a result of an incident or accident.	Rare	Minor	Low	F & R NSW	
Heatwave	A sequence of abnormally hot conditions having the potential to affect a community adversely.	Likely	Moderate	High	SECON	Heatwave Sub Plan
Infrastructure / Utilities Failure	Failure of services resulting in utilities, communications or infrastructure failure in the public domain and between emergency services	Unlikely	Moderate	Medium	LEOCON	Infrastructure Failure CMG
Landslip / Subsidence	Landslip / subsidence resulting in significant or widespread damage.	Rare	Moderate	Medium	LEOCON	Landslip CMG
Storm - Severe	Severe storm with accompanying lightning, hail, wind, and/or rain that causes severe damage and/or localised flooding.(includes tornado)	Likely	Moderate	High	NSW SES	Storm CMG

Hazard	Risk Description	Likelihood Rating	Consequence Rating	Risk Priority	Combat / Responsible Agency	Consequence Management Guide
Structural Collapse	Collapse of bridge / building owing to structural failure or impact from external/internal event of other hazards /incidents.	Rare	Major	High	F&R NSW (USAR) LEOCON	Major Structural Collapse CMG
Transport Emergency (Air)	Aircraft crashes resulting in large number of fatalities, injuries and/or damage to property.	Unlikely	Minor	Low	LEOCON	
Transport Emergency – Rail, Road, Water	A major rail incident involving people being trapped on trains. A major vehicle accident disrupting arterial roads for extended periods, or accident that results in significant environmental damage.	Rare	Major	High	LEOCON	Transport Emergency CMG
Tsunami	A tsunami wave of magnitude that presents a risk to land and marine elements.	Rare	Minor	Low	NSW SES	

Annexure C – Local Sub Plans, Supporting Plans and Policies

Responsibility for the preparation and maintenance of appropriate sub and supporting plans rest with the relevant Combat Agency Controller or the relevant Functional Area Coordinator.

Any sub/supporting plans are developed in consultation with the Waverley-Woollahra LEMC and the community.

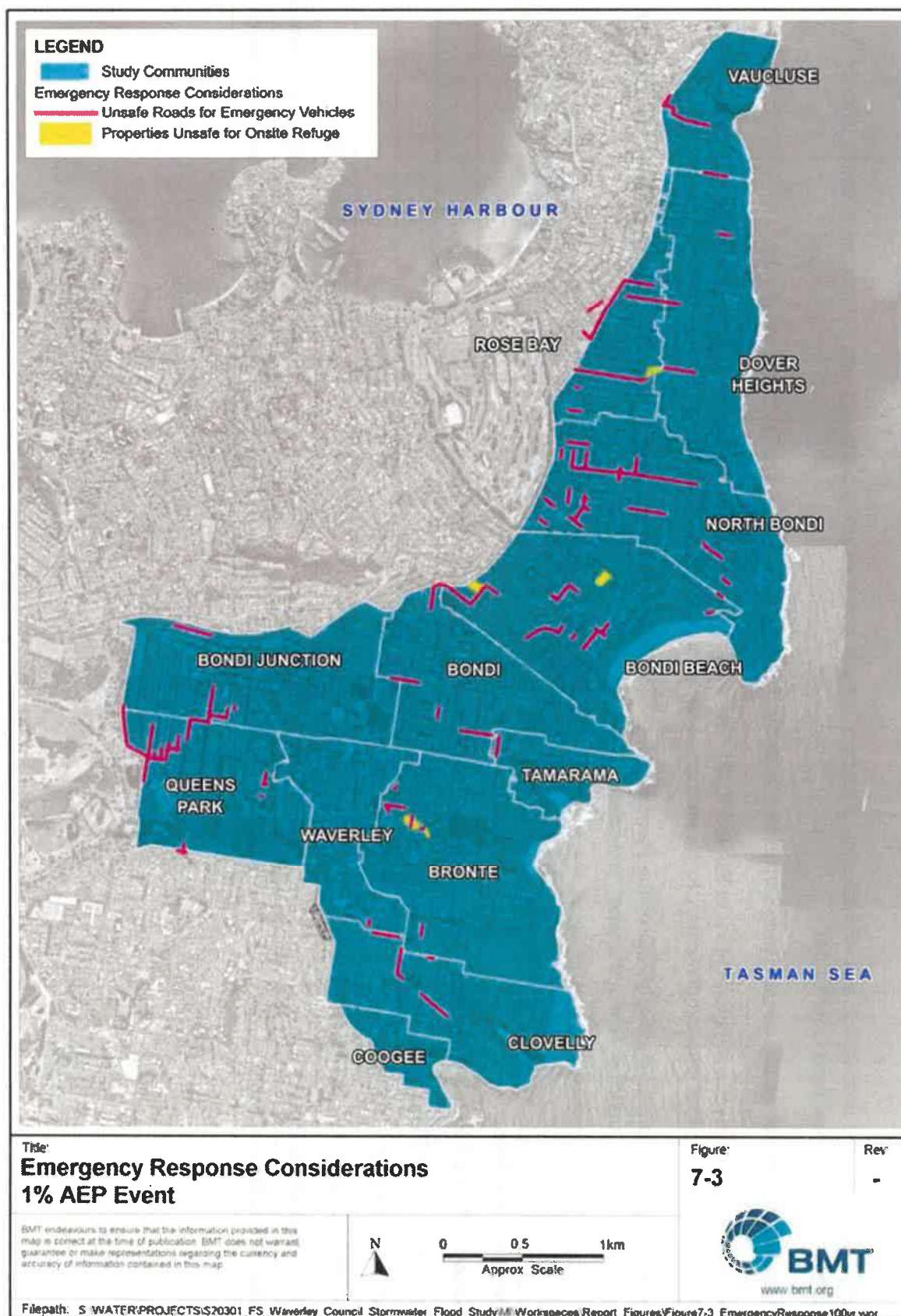
The plans listed below are supplementary to this EMPLAN. The sub/supporting plans have been endorsed or supported by the LEMC and are determined as compliant and complementary to the arrangements listed in this EMPLAN.

These plans are retained by the LEMO or the responsible agency on behalf of the LEMC and public release versions are available (where applicable) on the Council or relevant agency Website.

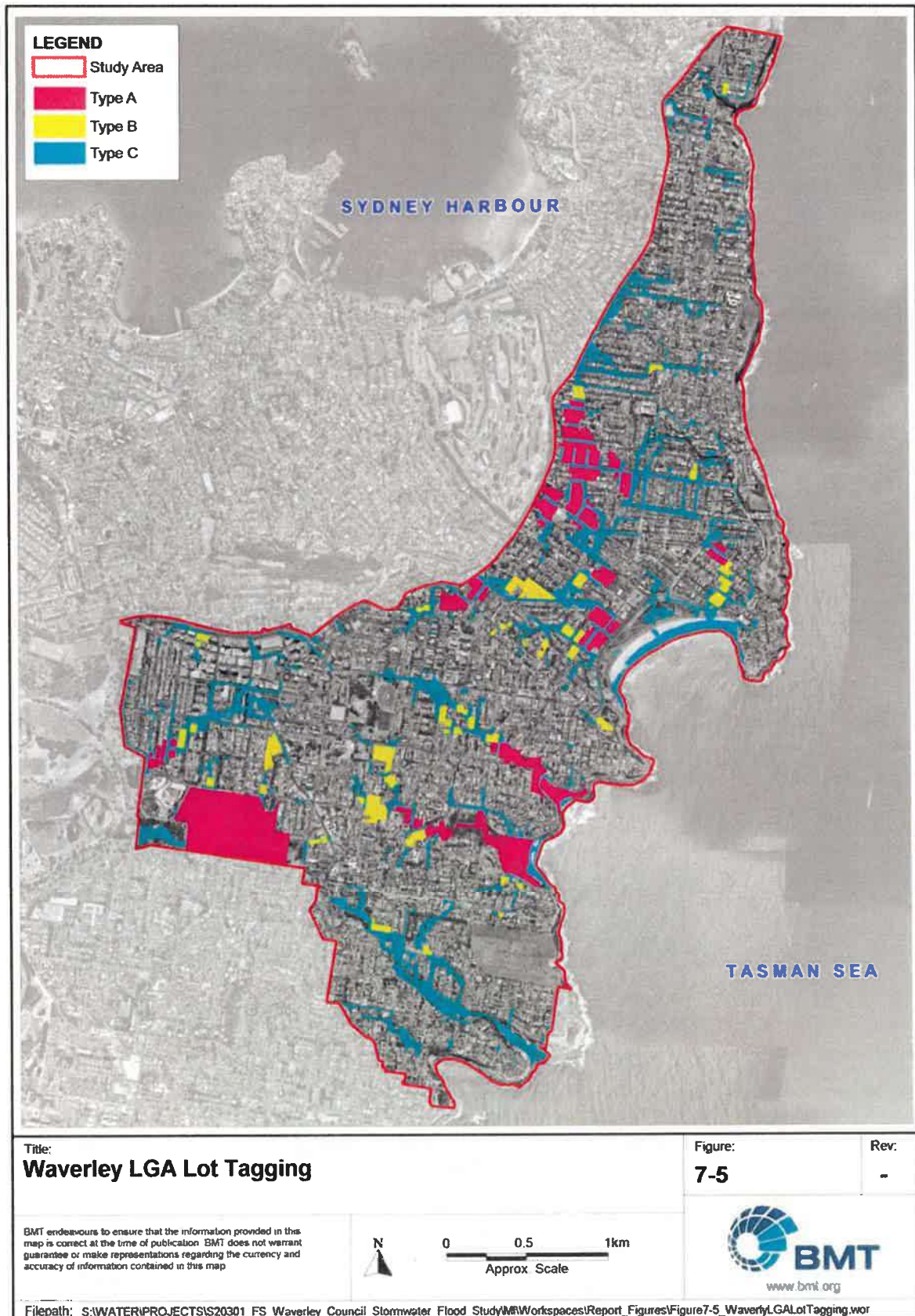
Plan/Policy	Purpose	Combat / Responsible Agency
Queens Park Plan	Requested from Centennial Parks Trust	Other
National Parks & Wildlife Plan	Requested from National Parks Trust	Other
Waverley Flood Plain Map	See Attached	Other
Woollahra Flood Plain Map	See Attached	Other
South East Sydney LHD Health Plan	Health Coordination Plan	South East Sydney LHD
State Heat Wave Plan	State Wide Coordination	State Emergency Operations Controller
NSW State Storm Plan	Action Plan for major storms	State Emergency Operations Controller

Waverley Council

Roads unsafe for emergency vehicles & properties unsafe for refuge during a major storm event



Flood Study Area and Flood Affected Properties





Annexure D – Consequence Management Guides (CMG)

Consequence management guides have been produced to assist emergency managers and agencies to address the initial response and initial recovery aspects of an actual or imminent emergency situation. Details within the CMGs are restricted and retained in confidence by the LEMC.

The following is a list of consequence management guides that have been produced for hazards that have been rated Moderate or require significant coordination and therefore require pre-operational planning.

- | | |
|----|--|
| 1 | Earthquake CMG |
| 2 | Explosion CMG |
| 3 | Fire – Major Structural |
| 4 | Flood CMG |
| 5 | Infrastructure Failure |
| 6 | Landslip / Subsidence / Rockfall |
| 7 | Pandemic |
| 8 | Storm |
| 9 | Structural Collapse – Building / Bridge |
| 10 | Transport Emergency – Road, Rail, Marine & Transport Hub |
| 11 | Utilities – Electrical-Communications - Water |

Part 3 – Restricted Operational Information

Not for public distribution