

8 – 16 Watt Street, Gosford

Mixed Use Development

WASTE MANAGEMENT PLAN

26/06/2020

Revision B – Issue

Executive Summary

This Waste Management Plan (WMP) is to accompany a concept EIS submission, that provides a proposed operation management for the proposed development. The requirements outlined in this document may be reviewed at a later stage depending on further expansion or changes to the development proposal.

The demolition and construction phases of the proposed development have not been included in this report. These aspects of the development will be undertaken by a separate contractor.

Revision Table

Revision	Date	Description
B	26.06.20	Issue

Residential Waste Management

The rates below have been referenced under Gosford City DCP 2018, chapter 8.6, Waste and Recycling in conjunction with Chapter 7.2 of GDCP 2013.

Waste and Recycling generation rates:

Residential Flat buildings:

General Waste: 1 x 140 L / per unit / weekly collection
= 140 L / unit / week

Recycling Waste: 1 x 120 L / per unit / fortnightly collection
= 240 L per unit / fortnight

Boarding House / Student Accommodation

General Waste: 1 x 60 L / per occupant / weekly collection
= 60 L / occupant / week

Recycling Waste: 1 x 20 L / per occupant / fortnightly collection
= 40 L per occupant / fortnight

Estimated Total Waste Generation

The following table indicates the level of waste generated by the residential component of the development

ILUs

Stage	Building no.	No. of units / occupants	General Waste Generation (L / week)	Total General Waste	Recycling Waste Generation (L / Week)	Total Recycling Waste
2	Tower 2	52	140	7,280	120	6,240
Collections and equipment	Garbage bin size			1100		1100
	Bins per week			7		6
	Collections per week			1		1
Waste Rooms	Chute discharge			1 x diverter		1 x diverter

Student Accommodation

Stage	Building no.	No. of units / occupants	General Waste Generation (L / week)	Total General Waste	Recycling Waste Generation (L / Week)	Total Recycling Waste
1b	Tower 1b	192	60	11,520	40	7,680
Collections and equipment	Garbage bin size			1100		1100
	Bins per week			11		7
	Collections per week			1		1
Waste Rooms	Chute discharge			1 x diverter		1 x diverter

Household Waste

Each tower core will be fitted with a chute and diverter system. The recycling and garbage waste will be discharged into 2 x 1100 MGBs for each chute. The waste will then be transferred for collection to the main collection area.

Hotel Waste Generation

Waste and Recycling generation rates:

Hotel Rooms:

General Waste: 1 x 5 L / per bed space / weekly collection
= 5 L / bed / week

Recycling Waste: 1 x 1 L / per bed space / fortnightly collection
= 2 L per bed / fortnight

Stage	Building no.	No. of units / occupants	General Waste Generation (L / week)	Total General Waste	Recycling Waste Generation (L / Week)	Total Recycling Waste
1A	Tower 1a	128 keys	5	1,280	1	256
Collections and equipment	Garbage bin size			1100		1100
	Bins per week			1		1
	Collections per week			2		2
Waste Rooms	Main Bin Storage Room	Approx. 8m2				

Retail Waste Management

Calculations are based on generic figures – waste generation amounts may differ according to tenants waste management practice. It is assumed the Hotel, retail and commercial waste will be collected by a private contractor, allowing for flexibility.

Retail Waste Table

	Building no.	NLA (m2)	General Waste Generation (L / 100M2 /day)	Total General Waste (L / week)	Recycling Waste Generation (L / 100M2 /day)	Total Recycling Waste (L / week)
	Food and Beverage	1000	240	16890.0	240	16890.0
	General Retail	6200	50	21700.0	50	21700.0
	Existing General Retail	1400	50	4900	50	4900
TOTAL				43490		43490
Collections and equipment	Garbage bin size			1100		1100
	Bins per week			13		13
	Collections per week			3		3
Waste Rooms	Main Bin Storage Room	Approx. 50m2				

Commercial / Education / Conference Waste Total

It is assumed a 5-day working week for commercial tenants.

Waste and Recycling generation rates:

Offices, education building, Conference:

General Waste: 1 x 10 L / per 100m² floor area / day

= 50 L / per 100m² floor area / week

Recycling Waste: 1 x 10 L / per 100m² floor area / day

= 50 L / per 100m² floor area / week

	Building no.	NLA (m2)	General Waste Generation (L / 100M2 /day)	Total General Waste (L / week)	Recycling Waste Generation (L / 100M2 /day)	Total Recycling Waste (L / week)
	Commercial	50,525	10	25262.5	10	25262.5

	Existing Commercial	11,600	10	5800	10	5800
	Education	2080	10	1040	10	1040
	Conference	2080	10	1040	10	1040
TOTAL				33142.5		33142.5
Collections and equipment	Garbage bin size			1100		1100
	Bins per week			10		10
	Collections per week			3		3
Waste Rooms	Main Bin Storage Room	Approx. 40m2				

Total Waste Collection Requirements

Total Bins Required

	Bins Required (1100L)	Space
Residential	31 Additional chute per tower core in stage 1B and 2	60m2 Diverter chute x 2
Hotel	2	10m2
Retail	26	40m2
Commercial	20	40m2
Total	79	150m2

Waste Room areas

Location	Waste Room	Equipment Req'd	Allocated Area
Main Collection	In basement	79 x 1100 MBGs 42 x 1100 MBG General Waste 37 x 1100 MBG Recycling Waste	500m2
Discharge Room	On each level attached to a core for Tower 1b and tower 2	2 x 1100 MBGs (1 x general waste, 1 x recycling waste)	10m2
Bulky Goods Storage			20m2
BOH	Area to be		

	allocated for hotel, retail and commercial bins		
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Requirements for truck access will be in accordance with Central Coast Councils waste vehicle allowance:

Typical Council Garbage Truck used for Domestic Waste Collection	
Length overall	12.5 metres
Width overall	2.5 metres
Operational height	4.0 metres
Travel height	4.0 metres
Weight (vehicle and load)	22.5 tonnes
Turning Circle	25.0 metres

