Waste Management Plan (WMP) Template

Instructions: All development applications for residential flat buildings, shop top housing, mixed use development and multi dwelling housing proposing to use communal bins, must submit this template as an Appendix to the Statement of Environmental Effects, in accordance with Bega Valley Development Control Plan Chapter 5.17 Waste Management.

Fill in all fields in the template relevant to the development type. If any fields don't apply, enter "Not applicable" or "NA".

Section 1 – Development Details

WMP prepared by: _____

Date: _____

Site address: _____

Proposed development type: _____

Total number of dwellings: _____

Section 2 – Waste Generation

Note: *Applies to all developments that are proposing to use communal bins or that include a commercial component.*

Table 1: Residential Waste Generation Calculation

Instructions: Using the number of dwellings and estimated rate of waste generation provided in the table, calculate the total weekly residential landfill, recycling and FOGO waste generation for the development.

Number of dwellings	**Red Bin – Landfill** Rate: 70L/per dwelling/per week	**Yellow Bin – Recycling** Rate: 100L/per dwelling/per week	**Green Bin – FOGO** Rate: 25L/per dwelling/per week
_____ dwellings	x 70L = _____ L landfill waste per week	x 100L = _____ L recycling waste per week	x 25L = _____ L FOGO per week

Example: 24 dwellings X 70L landfill waste per week = 1,680L per week of waste generated

Table 2: Commercial Landfill Waste Generation Calculation

Instructions: Complete for developments incorporating a commercial use. To complete, refer to Appendix A of *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities* (EPA Commercial Guidelines). If the specific future use is unknown, use the following rates:

- Retail premises: 80L landfill waste/100sqm/day 80L recycling waste/100sqm/day
- Food and drink premises: 190L landfill waste/100sqm/day 190L recycling waste/100sqm/day

Business Type (e.g. Café, Butcher, Hairdresser,)	**Floor Area (Square Metres)**	**Average L landfill waste per 100sqm floor area per day**	**Proposed number of trading days per week**	**Estimated waste generated per week**
E.g. Butcher	50 sqm	185L*/100	5	50 x 185/100 x 5 = 462.5L
			Total	

* rate adopted from EPA Commercial Guidelines, Appendix A, Table 16

Table 3: Commercial Recycling Waste Generation Calculation

Instructions: Complete for developments incorporating a commercial use. To complete, refer to Appendix A of the *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities* (EPA Commercial Guidelines).

Business Type (e.g. Café, Butcher, Hairdresser)	Floor Area (Square Metres)	Average L recycling waste per 100sqm floor area per day	Proposed number of trading days per week	Estimated recycling waste generated per week
E.g. Butcher	50 sqm	100L*/100	5	50 x 100/100 x 5 = 250L
			Total	

* rate adopted from EPA Commercial Guidelines, Appendix A, Table 16

Table 4: Combined residential and commercial waste generation calculation

Instructions: Complete for shop top housing and mixed-use developments only. Transfer the total landfill, recycling and FOGO amounts from Tables 1, 2 and 3 to this table.

Land Use	Total landfill waste generated (L/week)	Total recycling waste generated (L/week)	Total FOGO waste generated (L/week)
Residential			
Commercial			NA

Section 3 – Collection Frequency, Size and Number of Bins

Table 5: Size and number of bins required calculation

Instructions:

- For shop top housing and mixed-use developments, transfer the totals from Table 4 to column 2 of this table.
- For residential only developments, transfer the totals from Table 1 to column 2 of this table.

	Total waste generated (L/week)	Collection frequency Yellow bin – fortnightly Red bin – fortnightly Green bin – weekly	Available bin sizes (Up to 6 dwellings) 140, 240L yellow bins 80, 140, 240L red and green OR (7 dwellings or more) 660L red and yellow bins	Number of bins required **(calculate and round up)** **= Total waste generated / Bin Size**
RESIDENTIAL	**Red Bin - Landfill**			
	E.g. 1,680L	Fortnightly service	240L	1,680L/240L = 7 bins per week 7 bins x 2 (fortnightly) = 14 bins
		Fortnightly		
	Yellow Bin – Recycling			
	E.g. 2,400L	Fortnightly service	240L	2,400/240L = 10 bins 10 bins x 2 (fortnightly) = 20 bins
		Fortnightly		
	Green Bin - FOGO			
	E.g. 600L	Weekly	240L	600L/240L = 3 bins

		Weekly		
COMMERCIAL	**Red Bin - Landfill**			
	E.g. 1,680L	Weekly	240L	1,680L/240L = 7 bins per week
		Weekly		
	Yellow Bin – Recycling			
	E.g. 2,400L	Weekly	240L	2,400/240L = 10 bins
		Weekly		

Section 4 – Demolition and Construction waste management

Describe on-site waste management and where it will be stored onsite during demolition and/or construction:

_____
_____
_____
_____

Demonstrate how adequate measures will be implemented to prevent litter from being blown from the site:

_____
_____
_____

Instructions: Referring to the NSW Waste Classification Guidelines – Part 1: Classifying waste, provide an overview of the potential wastes, their classification, expected volumes and avenues of disposal:

Waste type/classification	Description	Expected volume	Disposal method
Special waste			
Liquid waste			
Hazardous waste			
Restricted solid waste			
General solid waste (putrescible)			
General solid waste (non-putrescible)			

Note: Section 68 of the *Local Government Act 1993* provides an approval pathway for developers to erect hoardings and store skip bins on Council managed public land. Enquiries should be directed to Council.

Section 5 – Final Comments/Additional Details

_____
_____
_____
_____
_____

Section 6 – Waste Management Plan Checklist

	Requirements		
Planning Stage			
A	**Initial planning**	**Completed**	**Not applicable**
A1	Have you consulted with Council to find out about the waste, recycling and FOGO collection services available, the bin types and collection vehicles used, and identified future service requirements?		
A2	Has onsite collection (recommended for developments resulting in 7 or more dwellings) been discussed with Council?		
A3	Have you considered using recycled materials in your construction?		
Design Stage – to be shown on drawings and/or in WMP		**Yes**	**No/NA**
B	**Separation and storage of waste, recycling and FOGO**		
B1	Does each residential unit have space inside to store at least two days segregated waste, recycling and FOGO?		
B2	Do the plans show that the bin storage area/s can accommodate the number and type of bins required for the development (including space for access and manoeuvring)?		
B3	Do the plans show that the communal storage area is suitably enclosed and covered to protect from inclement weather?		
B4	Do the plans show that the communal storage area is designed/located to discourage theft and vandalism and restrict unauthorised access to prevent illegal dumping?		
C	**Storage of other materials (Residential Flat Buildings only)**		
C1	Do the plans show that space for residential bulky waste storage has been allocated within the development?		
D	**Storage location**		
D1	Are bin storage areas located within 30m of all dwellings?		
D2	Are bin storage areas located adjacent/near a high pedestrian traffic area for easy access?		
D3	Do the plans show that bin storage areas are out of sight or screened from adjacent dwelling units, surrounding buildings and the street?		
E	**Waste collection points: kerbside (go to F if waste is proposed to be collected onsite)**		
E1	Are kerbside collection points clear of intersections, roundabouts or traffic-calming devices and busy arterial roads?		
E2	Do the plans demonstrate (with swept paths) that a heavy rigid vehicle (standard 22.5T GVM with 10.5m length, 2.5m width and 3.9m clearance) is able to access the collection point safely and easily (consider trees, overhanging buildings and low overhead powerlines)?		
E3	Do the plans show that the required number of bins can be presented for weekly collection in a single row at the kerbside directly in front of the subject site (without blocking footpaths or driveways) and with a minimum space of 0.5m between bins?		
E4	Is the bin transfer route between bin storage areas and collection points free of steps and less than or equal to 5% slope?		
E5	If the bin transfer route between bin storage areas and collection points is not free of steps and/or includes gradients of more than 5%, has a plan to manage this been provided as part of this WMP?		
F	**Waste collection points: onsite (if service provided)**		
F1	Have onsite collection point(s) been identified so that:		
	a) Collection vehicles will not interfere with access by other public road or driveway users during collections?		

	b) Collection vehicles have safe access to collection points and adequate clearance, manoeuvring and turning space throughout the building or site?		
	c) Collection vehicles have no (or minimal) need to reverse?		
	d) There is clear vision of oncoming traffic as collection vehicles leave the property?		
	e) Collection point(s) are located on a level surface away from gradients and vehicle ramps?		
F2	Are access driveways of adequate strength to support heavy rigid vehicles?		
F3	Are access driveways and internal roads designed in accordance with AS 2890.2?		
F4	Do the plans demonstrate (with swept paths) that a heavy rigid vehicle (standard 22.5T GVM with 10.5m length, 2.5m width and 3.9m clearance) is able to access the collection point safely, with adequate clearance, manoeuvring and turning space throughout the building or site?		
G	**Transfer of bins to the collection point**		
G1	Is the transfer route a minimum of 2.5m wide and made of a hard surface?		
G2	Is the bin transfer route free of steps and less than or equal to 5% slope?		
G3	If the transfer route between bin storage areas and collection points is not free of steps and/or includes gradients of more than 5%, has a plan to manage this been provided as part of this WMP?		
H	**WHS**		
H1	Has a preliminary risk assessment and hazard analysis been carried out on the proposed waste services and design layout?		
H2	Has the design been modified to eliminate or minimise wherever possible the identified risks?		
I	**Noise**		
I1	Has the development design included measures to minimise noise associated with the use and servicing of the waste management facilities?		
J	**Odour**		
J1	Does the design incorporate ventilation for enclosed waste storage areas that complies with the relevant codes and standards?		
K	**Hygiene**		
K1	Have storage areas been designed to prevent the entry of vermin?		
K2	Are there facilities for cleaning and draining bins in communal storage areas?		
L	**Amenity**		
L1	Does the design of waste storage areas blend in with the development?		
M	**Security**		
M1	Are bin storage areas including access routes sufficiently lit to allow their use after dark?		
N	**Signage and Education**		
N1	Are there suitable waste and resource recovery signs?		
N2	Have requirements for WHS signs been identified?		
O	**Ongoing Management**		
O1	Will a building manager/caretaker and/or gardener be employed to look after waste, recycling and FOGO?		