

Waste Management Plan

638 Pittwater Road, Brookvale NSW 2100

June 2025





Type of Assessment: Waste Management Plan Site Location: 638 Pittwater Road, Brookvale NSW 2100 Prepared for: Tony Chirillo Prepared by: APEX Engineers ABN 52 487 919 980

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1. Introduction

APEX Engineers were engaged by Tony Chirillo to provide a Waste Management Plan as part of the development application for the proposed mixed-use, multi-unit development located at 638 Pittwater Road, Brookvale NSW 2100.

2. Basis of Assessment

2.1 Aim

This report shall outline the ongoing waste management strategies to be adopted by the proposed development.

2.2 Site Description and Local Road Network

The subject site (located at 638 Pittwater Road in Brookvale) is zoned as Business Development (B5) and is bound by 3 roads; Pittwater Road to the west, Orchard Road to the south and Charlton Lane to the east. At the site frontage, Pittwater Road includes two traffic lanes and a bus lane in each direction (with a posted speed limit of 60 km/hr) and is a part of the A8 arterial route linking Mona Vale to North Sydney. Both Orchard Road (with a posted speed limit of 50 km/hr) and Charlton Lane are local roads. Orchard Road includes left-in/left-out access from/to Pittwater Road.

Figure 1 Highlights the site location from an aerial perspective.

2.3 Proposal Characteristics

The proposed development includes the following components;

- 60 residential units (39 x 1 bed units + 15 x 2 bed units + 6 x 3 bed units).
- A commercial unit totalling 1,425 square metres of GFA (across ground and basement level 1).
- 2 ground-level retail units totalling 130 square metres of GFA.
- Total of 152 car parking spaces (across three basement levels) with access off Charlton Lane.
- 2 service vehicle bays (within ground level) with access off Orchard Road.





Figure 1: Location of the Subject Site



3. On-Going Waste Management Plan

3.1 Waste Generation Levels and Bin Requirements

Waste generation levels and bin requirements have been determined with reference to the Warringah Waste Management Plan (2010).

3.1.1 Residential Component

Appendix 1 of the Warringah Waste Management Plan (2010) stipulates the number of bins to be allocated for multi-unit residential developments, based on the number of dwellings. Considering the proposed development which includes 60 residential units, 46 x 240L bins are required for the residential component of the development.

3.1.2 Commercial Component

Table 1 of the Warringah Waste Management Plan (2010) provides waste and recycling generation rates for ongoing operations of various land uses. For Offices¹, the following rates are provided:

- <u>Garbage:</u> 10L per 100m² floor area/day; and
- <u>Recyclable Material:</u> 10L per 100m² floor area/day.

Applying the above rates to the total GFA of the proposed commercial unit (being 1,425 sqm), the following maximum garbage and recycling accumulation levels (based on respective collection frequencies) have been obtained (it is noted that the commercial unit was assumed to operate every day of the week, for conservative assessment purposes):

- <u>Garbage:</u> 10L per 100m² floor area/day x 1,425 m² x 7 days= 997.50L (once a week collection)
- <u>Recyclable Material</u>: 10L per 100m² floor area/day x 1,425 m² x 14 days = 1,995L (once a fortnight collection)

¹ It is noted that the commercial unit of the proposed development is assumed to be an office



As per the above, for the commercial component of the development, it is recommended to provide 5 x 240L (total capacity of 1,200L) bins for garbage and 9 x 240L (total capacity of 2,160L) bins for recyclable material.

3.1.3 Retail Component

Table 1 of the Warringah Waste Management Plan (2010) provides waste and recycling generation rates for ongoing operations of various land uses. For Shops, the following rates are provided:

•	<u>Garbage:</u>	50L per 100m ² floor area/day; and
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• <u>Recyclable Material:</u> 25L per 100m² floor area/day.

Applying the above rates to the total GFA of the 2 ground level retail units (130 square metres), the following maximum garbage and recycling accumulation levels (based on respective collection frequencies) have been obtained (it is noted that both retail units have been assumed to operate every day of the week, for conservative assessment purposes):

- <u>Garbage</u>: 50L per 100m² floor area/day x 130 m² x 7 days = 455L (once a week collection)
- <u>Recyclable Material:</u> 25L per 100m² floor area/day x 130 m² x 14 days = 455L (once a fortnight collection)

As per the above, for the retail component of the development, it is recommended to provide $2 \times 240L$ (total capacity of 480L) bins for garbage and $2 \times 240L$ (total capacity of 480L) bins for recyclable material.



3.2 Communal Waste Enclosure Sizes

The dimensions of the above-mentioned 240L bins are considered to be 585mm wide by 730mm long, as per the below figure extracted from Appendix 1 of the Warringah Waste Management Plan (2010).



Figure 2: 240L Bin Dimensions

From the above-identified dimensions, it was established that each bin requires a minimum area of 0.43m². Locations of communal bin storage rooms are shown in **Figure 3**. The anticipated bin configurations (to scale) within each room, are illustrated in **Figures 4**, **5** and **6**.

As per these figures, the proposed two residential bin storage rooms are capable of accommodating a total of 48×240 L bins (max. capacity of 46 bins required) and the commercial/retail bin storage room is capable of accommodating 18×240 L bins.





Figure 3: Location of Communal Bin Storage Rooms



Figure 4: Scaled Bin Diagram for Commercial/Retail Bin Storage Room





Figure 5: Scaled Bin Diagram for Residential Bin Storage Room 1



Figure 6: Scaled Bin Diagram for Residential Bin Storage Room 2



4. Collection

4.1 Residential Bins

The waste collection service for the residential component of the proposed development will be provided by the Council (through Council waste contractor). It is noted that general waste will be collected weekly while recyclable material will be collected every fortnight. The subject site is located in Council Zone 1 and the collection day is on Thursday.

All the 240L residential bins will be presented at the kerbside of Orchard Road and Charlton Lane on the collection day. The waste collections will be undertaken by the Council contractor by parking the waste truck at the kerbside, at site frontage on Orchard Road and Charlton Lane.

4.2 Commercial and Retail Bins

Commercial and Retail bins will be collected by a private contractor (to be engaged by the operator). It is noted that general waste will be collected weekly while recyclable material will be collected every fortnight.

The private waste contractor shall use a 6.4m long small rigid vehicle or an equivalently sized vehicle to access the site's loading bay (which has been designed in accordance with AS 2890.2, to adequately accommodate the manoeuvres by a 6.4m small rigid vehicle).

5.1 Green Waste

The Owners Corporation shall employ a gardener (private contractor) to maintain the communal garden area. It will be the responsibility of the gardeners to remove any green waste as required.

5.2 Responsibility

The development's management shall employ a person, to maintain the bin storage areas. This will involve using the provided facilities to clean the enclosure and bins.



Management shall also be responsible for Council/private waste contractor dealings, including, but not limited to:

- Ordering initial bins;
- Ordering replacements or additional bins;
- Organising Council collections for the residential component and private waste contractor collections for the commercial/retail components: and
- Organising Council clean-ups (for bulky waste) or other special services.

Prior to moving in, management shall provide residents with information regarding the adopted waste management system.

5. Specific Requirements

The following table provides a list of specific requirements for ongoing waste management, as outlined in Chapter 4 (On-going waste management for three or more dwellings) of the Warringah Council - Waste Management Guidelines (2016) document. It is noted that the subject development shall comply with Sections 4.2, 4.3, 4.4, 4.5 and 4.6 in the above document.

Requirement	Compliance/Comments		
4.2. Waste Storage Area Design Requirements			
All Waste Storage Areas will:	Proposed bin storage areas		
a) Be a designated area to accommodate	offer sufficient space to		
Council's allocated number of waste and recycling	accommodate the required		
containers.	number of bins.		
b) Have a practical layout, be free of obstructions	Additional vegetation bins can		
and have only 90-degree angle corners.	also be accommodated within		
c) Have a floor area capable of storing the	the proposed bin storage		
number of bins outlined in Appendix A.	areas (as the scaled bin area		

Table 1: Summary	of Compliance v	with Specific	Requirements
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d) Accommodate 1 x 240L vegetation bin for	diagrams show, there is ample
every 200m ² of landscaped open space on the	spare capacity in each storage
site.	room).
e) Be graded and drained to a Sydney Water	All bin rooms are capable of
approved drainage system.	complying with design
f) Be serviced by an easily accessible water tap.	requirements during CC stage.
The tap must not obstruct aisles, access ways and	
placement of bins.	
g) Be cement rendered and coved (smooth	
rounded corners) at the floor and wall	
intersections.	
h) Be clear of any service and utilities	
infrastructure and related activities.	
i) Be capable of being kept clean and tidy at all	
times.	
j) Be in accordance with the BCA, relevant AS and	
legislation detailed in Chapter xii of the Waste	
Management Guidelines.	
4.3. Waste Storage Area location requirement	ts
The Waste Storage Area must be:	All waste storage rooms are
a) At street level and permit easy, direct and	compliant and are capable of
convenient access for the residents, Council and	complying with these
Council's waste contractors.	requirements at CC stage.
b) Clear of any obstructions and security devices.	
c) Incorporated entirely within the site boundary	
and, if it is an external structure, be designed to	
reduce visual impact and clutter.	
d) No closer than 3m from any dwelling openings.	
e) Clear of any entry points to stormwater	



systems and prevent waste water from entering	
any stormwater system.	
4.4. Pathway, access and door requirements	
The pathway and access between the Waste	All bin rooms are compliant
Storage Area and Collection Point will be:	and are capable of complying
a) Solid, concrete, continuous, non-slip and clear	with these requirements at CC
of any obstructions and steps.	stage.
b) A maximum ramp gradient of 1 in 8.	
c) Hazard free and not via a pathway withvehicular traffic.d) A minimum width of 1200mm.	All bin rooms offer sufficient aisle width (>1200mm) as per the scaled bin area diagrams.
 Any doors fitted on the Waste Storage Area, pathway and access will be: e) A minimum width of 1200mm. f) Able to be latched in an open position. g) Unobstructed by any locks and security devices. h) Openable in an outward direction. 	All bin storage rooms include at least one door wider than 1200mm. Other requirements can be complied with during the CC stage.
4.5. Bulky goods waste storage area requiren	nents
To assist with the storage of goods for Council	The proposed 60 dwellings
clean-ups, where the development exceeds 10	require 24 square metres of
dwellings, a bulky goods waste storage area must	bulky goods storage area.
be provided that will be:	Provision has been made for
a) A minimum of 4m ³ per 10 dwellings fit for the	separate storage spaces
purpose of storing bulky goods.	within the basement parking
b) A room or caged area separate from the Waste	level.
Storage Area.	



c) Incorporated entirely within the site boundary			
and not visible to the public			
4.6. Kerbside (on-street) waste collection requirements			
For developments with 3 – 80 dwellings, the	The residential waste storage		
pathway and access between the Waste Storage	rooms are located at a		
Area and property boundary must be a maximum	distance <6.5m from the		
distance of 6.5m.	property boundary (from		
	Orchard Road and Charlton		
	Lane).		

6. Summary

We trust that the information provided within this report sufficiently outlines the ongoing waste management strategy to be adopted by the proposed mixed-use development.

Should Council require further information or clarification, please contact the undersigned.

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