

Waste Management Plan

488 Murray Road,
Preston VIC

18/06/2024



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Waste Management Plan (WMP)

Proposed Mixed-Use Development

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PURPOSE OF THE WASTE MANAGEMENT PLAN

The purpose of the waste management plan (WMP) is to:

- Demonstrate the development of an effective waste management system that is compatible with the design of the development (residential or commercial) and the adjacent built environment. An effective waste management system is hygienic, clean and tidy, minimises waste going to landfills, and maximises recycling
- Provide a waste management system that is supported by scaled drawings to ensure the final design and construction are compliant with the WMP and are verifiable
- Form a document that achieves effective communication of the waste management system so that all stakeholders can be properly informed of its design, and the roles and responsibilities involved in its implementation
- Stakeholders are defined (but not limited to): owners, occupiers, body corporate, property managers/real estate agents, Council, neighbours and collection contractors

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INTRODUCTION

Fratel Consulting Services has been engaged to undertake a Waste Management Plan for the mixed-use development located at 488 Murray Road, Preston.

We have reviewed the plans for the proposed development and have, where necessary, undertaken research in the relevant field of waste management.

SITE DESCRIPTION

The proposed site is located at 488 Murray Road, Preston. The site is currently occupied by a building which is proposed to be partly demolished prior to the construction of the proposed development. It is located within an established residential area approximately 10km north of the Melbourne CBD.

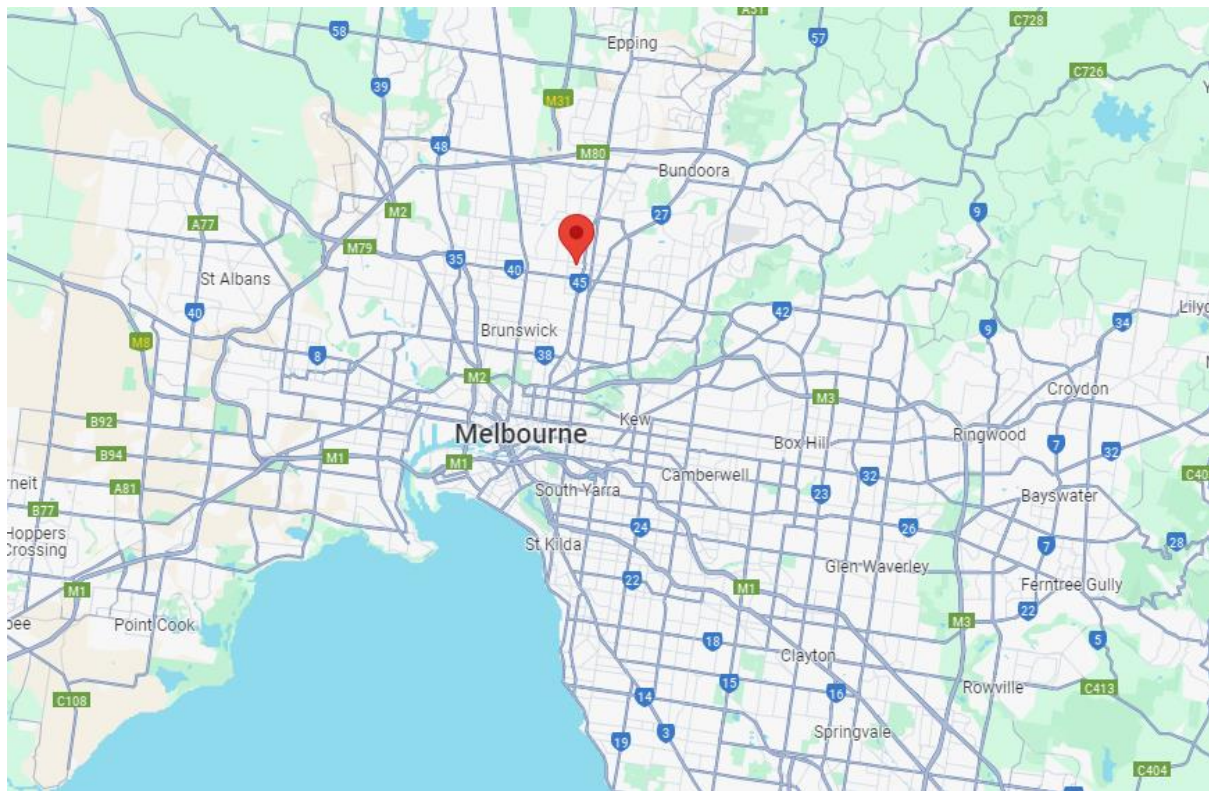


Figure 1: Location of the proposed development in Preston in relation to Melbourne CBD (Source: Google Maps)

PROPOSED DEVELOPMENT

The proposal consists of the development of the site into a double storey mixed-use building with a restaurant on the ground floor and a proposed 3-bedroom residential dwelling on the first floor. The area of the site is approximately 247.3m².

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TYPES OF WASTE GENERATED

The following types of waste are most commonly generated within a residential and commercial development:

- General landfill rubbish;
- Recyclables such as glass, paper, cardboard, cartons, plastics with ID Codes 1 to 7, steel & aluminium cans;
- Compostable organic material (food scraps);
- Hard rubbish such as broken furniture and large objects; and
- Sundry waste types such as electronic waste.

This list of waste types to be separately treated is expected to expand by 2030 in line with the Victoria State Government's Recycling Victoria Policy. This will include separate treatment of FOGO and glass waste for a 4-stream system.

WASTE GENERATION RATES

Listed below are the waste generation estimates for the development in accordance with the Sustainability Victoria guidelines based on Melbourne City generation rates.

For each dwelling as per SV's guidelines and Melbourne City generation rates:

Space type	Rubbish Generation	Comingled Recyclables	FOGO Waste*
Indiv. Dwelling	80 L/week	120 L/week	45 L/week*
Restaraunt	528 L per 100m ² per day	132 L per 100m ² per day	200 L per 100m ² per day

* Based on the audit carried by Sustainability Victoria it was found that approximately 35% of the garbage bin is made of food waste.

Separate Glass Waste

The development will also be provided with an allocation for a future glass stream service. This is to be in line with the State of Victoria's recycling targets for 2030. **The allocation for one future shared 240L bin for glass will be provided within the dedicated bin storage area.** Glass collection services will be required to be provided once it is compulsory to start offering the service.

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Based on the proposed restaurant of 140m² assumed to be running six days per week, and dwelling, the total waste generated by the development is therefore:

Total Development	Rubbish Generation	Comingled Recyclables	Food Waste
First floor Dwelling	80 L/week	120 L/week	45 L/week*
Ground floor restaurant	4,436 L/week	1,108L/week	1,680L/week
Total Waste generation	4,516L/week OR 1,129L/ Four times a week	1,228L/week OR 307L/ Four times a week	1,725L/week OR 432L/ Four times a week
Proposed Bin Types to accommodate the total waste generation	660L x 2	360L x 1	240L x 2
Collection Frequency	Four times per week (Private collection)	Four times per week (Private collection)	Four times per week (Private collection)

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BIN TYPES

Below are the types of bins that the private contractor will provide with the common dimensions:

Bin Storage Type	Capacity	Colour	Waste Type	Comments
	240L x 1	Purple lid green body	Glass waste	The average dimensions are: Height 1.06m, Width 0.585m, Depth 0.73m Total floor area required: 0.42m ² /bin
	240L x 2	Green lid green body	FOGO	The average dimensions are: Height 1.06m, Width 0.585m, Depth 0.73m Total floor area required: 0.42m ² /bin
	360L x 1	Yellow lid green body	Recyclables	The average dimensions are: Height 1.1m, Width 0.68m, Depth 0.848m Total floor area required: 0.57m ² /bin
	660L x 2	Red lid green body	Garbage	The average dimensions are: Height 1.2m, Width 1.26m, Depth 0.78m Total floor area required: 0.98m ² /bin

The private waste contractor once engaged will provide the bins for the development.

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SIGNAGE & COMMUNICATION STRATEGY

Signage is required at communal bin storage areas to encourage correct recycling and reduce waste going to landfill. Appropriate signage will be made available by the private contractor for the Owners Corporation to install (such as on the underside of the bin's lid). These visual prompts (such as Figure 2 below) will assist in the proper disposal of the different types of waste.



Figure 2: Example signage from the Sustainability Victoria waste signage library.

Printable signage can be found on Sustainability Victoria's website:

<http://www.sustainability.vic.gov.au>.

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WASTE STORAGE

2 x 660L bins for general rubbish (shared), 2 x 240L bins for food waste (shared) and 1 x 360L bins for recycling will be provided for the development by Private Contractor. Additional space will be allocated for 1 x 240L bins for the future dedicated glass stream. Shared bins are proposed, and occupants will not be allowed to request individual bins for these streams.

All shared bins will be stored in dedicated carpark area. This will make it easy to store and roll out the bins to their respective collection point on the collection day. The proposed storage area will be appropriately screened to protect visual amenities.

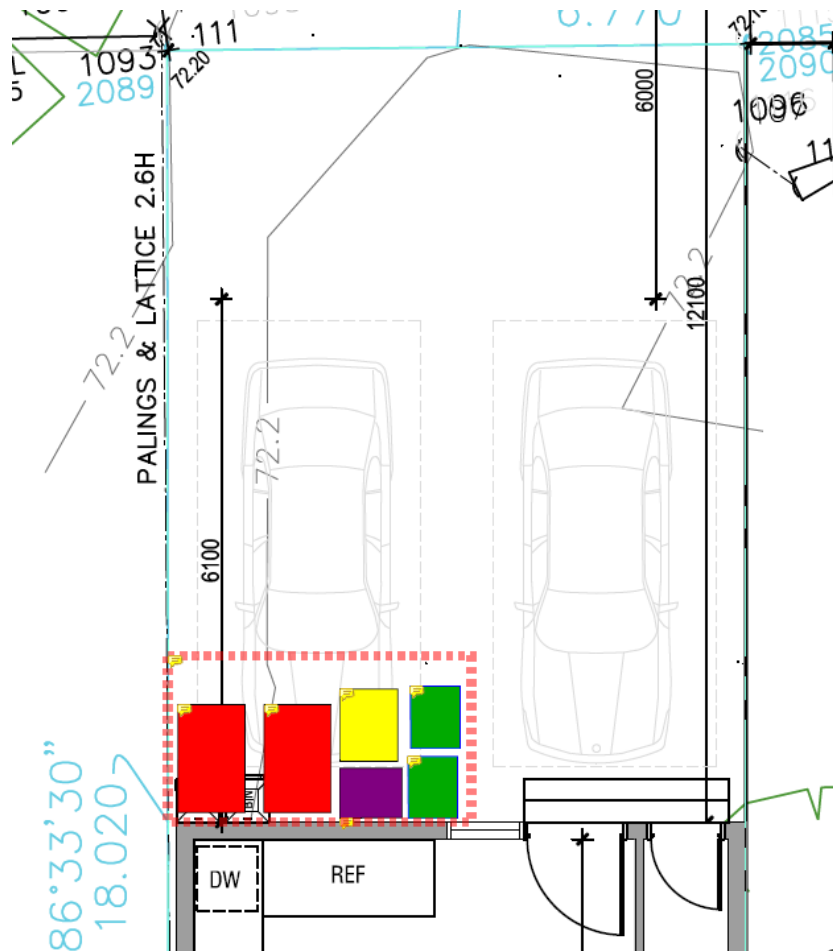


Figure 3: Bin location example within the garage

Access to a tap for bin wash-down will be provided near the storage area along with a drain connecting all wastewater from the wash-down directly to the sewer to avoid any contamination of the stormwater drain.

The storage area will be Naturally ventilated. Which will help reduce odours related to the waste. The staff, cleaner or building manager will ensure that the bin storage area remains clean and clear to avoid attracting vermin and maintain easy access.

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WASTE COLLECTION & DISPOSAL

Private collection is proposed for the development as collection will occur from the rear laneway. The private collection will be provided at the expense of the owner of the land.

The collection will be made directly from the rear laneway. The private waste contractor will enter the rear laneway in reverse and park near the site. The private contractor will roll out the bins to the truck and put the bins back in the storage area once empty. The truck will then exit the site in a forward direction. The building manager/ cleaner/ staff will therefore need to ensure that the private contractors have access to the bin storage on collection day by leaving the garage door open.

The collection will require three separate trucks, one each for general rubbish, recyclables and food waste.

The collection will occur outside of peak traffic hours and will be in accordance with EPA and the City of Darebin requirements, to minimise any traffic disturbance for staff or visitors entering or exiting the site.

Collection of each waste stream will occur 4 times a week. Glass waste will be collected once a week.

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OTHER WASTE TYPES

The private contractor will provide hard waste collection. The method and frequency of collection will be confirmed once the private contractor is engaged.

E-Waste has been banned from landfill since 1st July 2019. Occupants will be required to dispose of their E-waste at their nearest drop-off point. The nearest e-waste recycling drop-off point can be found on Planet Ark's *Recycling Near You* at <https://recyclingnearyou.com.au/electrical>.

Other Recycling Options

The following recycling options may also be useful:

Waste Exchange Database: Allows communication between generators of waste and potential recyclers.

Ziilch: Simple online recycling of unwanted goods.

Freecycle: A non-profit portal for exchanging unwanted goods for free.

Reverse Art Truck Inc.: A non-profit organisation that collects seconds and factory offcuts for reuse as art materials. Free pick up.

Ozrecycle: Another way to give and get things for free instead of sending them to landfill.

FreeTreasure: Free Treasure is developing to become one of Australia's best communities to find free stuff.

The Sharehood: Helps you share resources within your neighbourhood.

Other recycling services such as St Vincent de Paul, Brotherhood of St Laurence, The Smith Family and The Salvation Army accept a range of household items.

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PREVENTATIVE MEASURES

Disposal Procedures

Residents/Occupants/Cleaners are to ensure that all internal general rubbish bin bags are tied up securely before being placed in the bins. They will also ensure that recyclables are placed in the yellow-lidded bins in a way that minimises potential litter and overflow (for example crushing boxes, cans and plastic bottles).

Maintenance

As a minimum, Residents/Occupants/Cleaners will be required to keep the bins neatly placed in their garages. To further reduce the risk of litter, Residents / Occupants/ Cleaners will be asked to make sure bins are not overfilled and to keep the lids closed. The above measures will minimise the dispersion of site litter and the risk of vermin. The resident will be required to conduct periodic maintenance of their bins such as wash-downs and any necessary repairs/replacements will need to be organised with the private contractor.

SUMMARY

Correct implementation and resident induction to the WMP will ensure that all waste streams are correctly disposed of and sorted into their proper bins. Proper bin management will ensure that all waste is stored & collected efficiently and effectively without compromising the amenity, capacity and tidiness of the storage areas. The private contractor will supply the bins and will be responsible for bin collection four times a week for all streams (rubbish, recyclables, FOGO). Glass waste will be collected once a week.

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