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ADVERTISED PLAN

Traffix Group

Waste Management Plan

Proposed Residential Development 437 St Kilda Road, Melbourne

Prepared for Cbus Property St Kilda Road Pty Ltd

July 2023

G33364R-02D (WMP)

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Document Control

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Table of Contents

1.	Introduction	1
2.	Proposal	1
3.	Waste Management Plan	2
3.1.	Waste Systems	2
3.2.	Management of Waste Streams	2
3.3. 3.3.1.	Waste Generation Considering Alternative Waste Streams	3 4
3.4. 3.4.1.	Waste Equipment (MGBs)	4 6
3.5.	Signage	7
3.6.	Waste Collection Arrangements and Vehicle Access	7
4.	Amenity Impacts	8
4.1.	Ventilation/Odour Prevention	8
4.2.	Noise Reduction	8
4.3.	Vermin Prevention & Litter Management	8
4.4.	Washing Facilities and Stormwater Pollution	8
5.	Ongoing Maintenance & Sustainability Initiatives	9
5.1.	Maintenance Management	9
5.2.	Waste Reduction Strategies	9
5.3.	Waste Management Rules10	0
5.4.	Monitoring and Review	0
5.5.	Occupational Health and Safety Risk Assessment10	0
6.	Contact Information	1

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List of Figures

Figure 1: Proposed Waste Areas & Pedestrian Access Route	6
Figure 2: Waste Signage Examples	7
Figure 3: Melbourne City Council's Waste Management Hierarchy	9

List of Tables

Table 1: Waste Streams	2
Table 2: Waste Generation Rates	3
Table 3: Expected Waste Generation for the Proposed Use - Eastern Core	4
Table 4: Expected Waste Generation for the Proposed Use - Western Core	4
Table 5: Expected Waste Generation – Splits per Stream	4
Table 6: Waste Bins and Collection Frequencies – Eastern Core	5
Table 7: Waste Bins and Collection Frequencies – Western Core	5
Table 8: Waste Bins and Collection Frequencies - Communal	5
Table 9: Bin Details and Colours	5
Table 10: Waste Area Requirements	6
Table 11: Supplier Contact Information	11

List of Appendices

Appendix A Development Plans

Appendix B Swept Path Diagrams

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1. Introduction

Traffix Group has been engaged by Cbus Property St Kilda Road Pty Ltd to prepare a Waste Management Plan for the Proposed Residential Development at 437 St Kilda Road, Melbourne.

This Waste Management Plan is intended to act as a guideline for the proposed development and may be subject to the ongoing updates, post-development.

2. Proposal

The proposal is for a residential development comprising 77 apartments including:

- 16 x two-bedroom apartments, and
- 61 x three or more bedroom apartments

Communal waste rooms are provided on ground floor adjacent both the eastern and western cores, with direct access provided to the loading dock.

Waste collection is proposed to be undertaken onsite within the loading dock on ground floor via Council collection using the 8.8m long waste collection vehicle.

Access to the on-site loading area for waste collection will be provided via the access to St Kilda Road.

A copy of the development plans prepared by BateSmart (dated January 2024) is attached at Appendix A.

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3.1. Waste Systems

The waste management systems of the proposed development comprise of the following components:

- · Immediate smaller bins within individual apartments for temporary storage of waste,
- A dual-chute system for residential garbage and recyclable waste at each building level, and
- Shared mobile garbage bins (MGBs) within the waste rooms at ground floor.

3.2. Management of Waste Streams

In accordance with the Victorian Government's *Circular Economy Policy: Recycling Victoria*, food organics green organics (FOGO) and glass waste have been considered separately to help reduce landfill at the source.

The waste generated by the proposed development will be separated and managed into the following waste streams:

- General Garbage Waste
- Food and Organics/Green Waste (FOGO)
- Glass Recycling (future operation)
- Recycling

The proposed management of each of the streams/systems is detailed below.

Table 1: Waste Streams

Waste Type	Waste Management
Garbage	Each dwelling shall be provided with plastic bins for temporary storage of general waste. Residents will place general landfill waste in tied plastic bags and dispose of bagged garbage in garbage chute in each level.
Recycling	Each dwelling shall be provided with plastic bins for temporary storage of recyclable items. Residents will dispose of recycling directly to recycling chute provided at each level.
FOGO	Each dwelling shall be provided with plastic bins for temporary storage of organic waste. Residents shall dispose of organics waste directly into the FOGO bins provided in the bin storage areas at ground floor.

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437 St Kilda Road, Melbourne

Waste Type	Waste Management
Glass Waste	Each dwelling shall be provided with plastic bins for temporary storage of glass items. Residents will dispose of glass directly into glass bins provided in the bin storage areas at ground floor.
Hard Waste	Residents shall dispose of hard waste including used furniture and white goods with the assistance of the property manager via a private contractor. A hard waste area is provided within the waste room of western core on ground floor for temporary storage of any hard rubbish.
E-Waste	Residents shall dispose of any e-waste including batteries, phones, computers etc. into the E-waste bin provided in the bin storage area at ground floor in the western core. E-waste must not be disposed in landfill.
Charity Goods	Residents will dispose of any charity goods into the charity bin provided inside the residential waste room on ground floor in the western core. Alternately, residents can dispose of any charity goods at the local op shops or donation bins.

3.3. Waste Generation

The proposed land use has been assessed against the waste generation rates specified under the *City of Melbourne Guidelines for Waste Management Plans*.

Table 2 sets out the expected waste generation for the Proposed Residential Development.

Table 2: Waste Generation Rates

Waste Source	Garbage	Recycling	
Two-bedroom Dwelling	100L/dwelling per week	100L/dwelling per week	
Three or more bedroom Dwelling	120L/dwelling per week	120L/dwelling per week	

Due to the setback provided to the building, the proposal includes 2 separate bin storage areas at ground floor with chutes provided at both the east and western cores. A third storage area will be provided at Ground floor providing residential access to alternative waste streams.

An estimate of the total waste generated by the proposed development for each bin room/core is provided in Table 3 and Table 4.

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Table 3: Expected Waste Generation for the Proposed Use - Eastern Core

Waste Source	No.	Garbage	Recycling
Two-bedroom Dwelling	8	800 L per week	800 L per week
Three or more bedroom Dwelling	20	2,400 L per week	2,400 L per week
TOTAL WASTE GENERATED		3,200 L per week	3,200 L per week

Table 4: Expected Waste Generation for the Proposed Use - Western Core

Waste Source	No.	Garbage	Recycling
Two-bedroom Dwelling	8	800 L per week	800 L per week
Three or more bedroom Dwelling	41	4,920 L per week	4,920 L per week
TOTAL WASTE GENERATED		5,720 L per week	5,720 L per week

3.3.1. Considering Alternative Waste Streams

In accordance with the Victorian Government's Circular Economy Policy: Recycling Victoria, food organics green organics (FOGO) and glass waste have been considered separately to help reduce landfill at the source or help separate commingled recycling.

Based on the City of Melbourne Guidelines for Waste Management Plans, approximately 25% of garbage waste from residential uses are organics. Approximately 30% of the recycling waste comprises of glass waste.

Based on the above proportions, the proposed residential development will generate the following waste volumes for each stream as shown in Table 5.

Waste Room Location	No.	Garbage		Recycling	
		General	FOGO	Comingled	Glass
Eastern Core	28 dwellings	2,400 L	800 L	2,240 L	960 L
Western Core	49 dwellings	4,290 L	1,430 L	4,004 L	1,716 L
Combined	77 dwellings	6,690 L	2,230 L	6,244 L	2,676 L
TOTAL WASTE GENERATED		8,920 L / week		8,920 L / week	

Table 5: Expected Waste Generation - Splits per Stream

3.4. Waste Equipment (MGBs)

Based on the determined waste generation, Table 6 to Table 8 provide a summary of the nominated waste storage area provisions and the frequency of collection.





Table 6: Waste Bins and Collection Frequencies – Eastern Core

Waste Stream	Waste Volume (L/week)	Bin Capacity	No. of Bins Required	Collection Frequency (per week)
Garbage	2,400 L	660L	2	2
Recycling	2,240 L	660L	2	2

Overall, the proposal requires 4 x 660L bins in the waste room located in the eastern core.

Table 7: Waste Bins and Collection Frequencies - Western Core

Waste Stream	Waste Volume (L/week)	Bin Capacity	No. of Bins Required	Collection Frequency (per week)
Garbage	4,290 L	1,100L	2	2
Recycling	4,004 L	1,100L	2	2

Overall, the proposal requires 4 x 1100L bins in the waste room located in the western core.

Table 8: Waste Bins and Collection Frequencies - Communal

Waste Stream	Waste Volume (L/week)	Bin Capacity	No. of Bins Required	Collection Frequency (per week)
FOGO	2,230 L	240L	5	2
Glass	2,676 L	660L	2	2
		240L	1	

Overall, the proposal requires 2 x 660L bins and 6 x 240L bins in the communal waste room for alternative waste streams.

Further details regarding the waste equipment required for the proposed development are detailed in Table 9.

Table 9: Bin Details and Colours

Waste Stream	Bin Capacity	Dimensions (H x W x D) ^{Note 1}	Bin Lid Colour Note 2	Bin Body Colour ^{Note 2}
Garbage	660L 1,100L	1,200 x 1,260 x 780mm 1,330 x 1,240 x 1,070mm	Red	
Recycling	660L 1,100L	1,200 x 1,260 x 780mm 1,330 x 1,240 x 1,070mm	Yellow	Dark Green
FOGO	240L	1,060 x 585 x 730mm	Light Green	
Glass	660L 240L	1,200 x 1,260 x 780mm 1,060 x 585 x 730mm	Purple	
Note 1. Bin capacity and dimensions are provided as an indicative dimension, sourced from Bin Supplier, 'Sulo'. Note 2. Bin lid and body colours are based on the bin colour scheme set out by Melbourne City Council.				



3.4.1. Waste Area and Access

The proposed development provides three waste rooms on ground floor. Access to the waste room will be via the lift/stairs and the internal pedestrian paths, as required.

The waste area and access route are illustrated at Figure 1.



Figure 1: Proposed Waste Areas & Pedestrian Access Route

Table 10 details the waste area requirements based on the waste equipment proposed.

Table 1	0: Was	ste Area	Requirements
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Waste Equipment	Bin Area	Bin Quantity	Net Waste Area Required	Waste Area Provided	
Eastern Core					
660L	0.98 m ²	4	3.92 m ²	~7.5 m ²	
Western Core	Western Core				
1100L	1.33 m ²	4	5.32 m ²	~16m ²	
Communal Storage					
660L	0.98 m ²	2	1.96 m ²	17m ²	
240L	0.43 m ²	6	2.58 m ²	~1711-	
Hard waste	3-4 m ² 5.5 m ²				
Charity	1 m ²			1 m ²	

Based on the above, sufficient space is provided for on-site waste store for storage of waste/bins and associated shifting of bins.



437 St Kilda Road, Melbourne

3.5. Signage

Appropriate signage in accordance with Sustainability Victoria will be displayed on the bins and within the waste area, as illustrated in Figure 2.

The signage will help guide and encourage resident of the proposed residential development to dispose of waste correctly into the appropriate waste streams.



Figure 2: Waste Signage Examples

3.6. Waste Collection Arrangements and Vehicle Access

It is proposed that waste collection will occur on-site within the ground floor loading dock. Council will collect the waste via an 8.8 metre waste vehicle (nominal 4.0 metre height along travel path).

The collection vehicle will utilise the loading dock to undertake a three-point turn and prop whilst the bins are emptied and exit the site in a forward direction. Waste collection will be undertaken during off peak periods to minimise disruptions to residential traffic.

Traffix Group has provided advice to the project architect to accommodate vehicle access of the 8.8 metre waste collection vehicle at ground floor. A minimum headroom clearance of 4.0 metres is to be provided at the waste vehicle collection point as required under the City of Melbourne guidelines.

Swept path diagrams demonstrating vehicle access of the 8.8 metre long waste vehicle entering and exiting the site in a forward direction is attached at Appendix B.

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4. Amenity Impacts

It is the responsibility of the building management to carry out the ongoing maintenance of all waste areas to minimise the following amenity impacts:

4.1. Ventilation/Odour Prevention

For developments using forced ventilation or air-conditioning system, adequate ventilation will be provided within the bin store areas in accordance with AS1668.2 to ensure waste-related odours are minimised.

Waste areas will be frequently cleaned to prevent the retainment of odours.

4.2. Noise Reduction

The waste facilities will comply with BCA and AS2107 acoustic requirements. Private waste collection will follow Council's and EPA guidelines to ensure acoustic impact is minimised.

Collection days and times will be determined following the confirmation of a specific private waste collection contractor by the building management. Waste collection time should comply with the EPA Noise Control Guidelines (Publication 1254):

Domestic Waste Collection

- Collections occurring once a week should be restricted to the hours 6am 6pm Monday to Saturday,
- Collections occurring more than once a week should be restricted to the hours 7 am —6 pm Monday to Saturday

It is proposed that waste collection will occur outside the morning and afternoon peak hours for the residents in accordance with EPA Noise Control Guidelines.

4.3. Vermin Prevention & Litter Management

Waste areas will be secured to prevent any unauthorised use. Waste areas will be monitored by the property manager to ensure that bins are not overfilled and any spillage resulting from waste collection is appropriately addressed. All access doors and bin lids will be kept closed at all times to prevent vermin access to the waste areas.

4.4. Washing Facilities and Stormwater Pollution

Appropriate washing facilities including water supply and hose will be provided for the regular washing of the bins and waste area by the property manager. Washing facility provided will be connected to the sewerage for drainage to prevent any stormwater pollution.





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Waste Management Plan

437 St Kilda Road, Melbourne

5. Ongoing Maintenance & Sustainability Initiatives

5.1. Maintenance Management

Further to the occupation of the proposed development, it is the responsibility of the property manager for the ongoing operation and maintenance of the Waste Management Plan.

The property manager will ensure that maintenance work and upgrades are carried out on the waste areas and components of the waste system. When required, the property manager will engage an appropriate contractor to conduct maintenance services, replacements, or upgrades.

All ongoing costs are to be fully met by the future occupant of the building.

5.2. Waste Reduction Strategies

The property manager will be responsible to encourage residents of the proposed residential development to reduce waste disposal and recycle materials based on the waste management hierarchy set out by Sustainability Victoria.



The hierarchy is detailed at Figure 3 below.

Figure 3: Melbourne City Council's Waste Management Hierarchy

Additionally, the property manager can set targets and measures to reduce garbage going to landfill and increase recycling and choose to participate in Council's waste programs to promote sustainability initiatives.

5.3. Waste Management Rules

It will be the responsibility of the property manager to ensure all residents are provided with the relevant information and materials regarding the waste management system and sustainability strategies of the proposed development.

Relevant information will be provided at the waste areas to ensure that all users will operate and maintain safe practice when utilising the waste facilities.

5.4. Monitoring and Review

This Waste Management Plan should be monitored and reviewed on a regular basis to ensure that it meets the regulatory requirements and the expected waste generation rates outlined in Section 3.3. The property manager will be responsible for monitoring the Waste Management Plan. Where required, the property manager should undertake a waste audit to identify any modifications and/or improvements to the waste management system.

5.5. Occupational Health and Safety Risk Assessment

Further to the occupation of the residential development, the property manager will ensure the waste collection arrangements comply with the relevant occupational health and safety (OH&S) guidelines including WorkSafe Victoria's Occupational Health and Safety Guidelines for the Collection, Transport and Unloading of Non-hazardous Waste and Recyclable Materials (June 2003).

Additionally, the property manager will ensure the nominated private contractor completes a risk assessment, provides staff training and implements safety procedures to address the risks associated with waste management activities, including manual bin handling, bin transfers and cleaning of waste equipment.

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6. Contact Information

Table 11 provides a list of common waste collection service contractors and waste equipment suppliers. The property manager is not obligated to procure goods/services from the following suppliers and reserves the right to choose their own preferred suppliers.

Traffix Group does not make representations for the goods/services provided by the suppliers listed below.

Table	11:	Supplier	Contact	Information
rubic		Supplier	contact	monnation

Service Type	Business Name	Phone	Website
	Citywide Waste	03 9261 5000	www.citywide.com.au
	Cleanaway	13 13 39	www.cleanaway.com.au
Private Waste Collectors	Veolia	13 29 55	www.veolia.com/anz
	JJ Richards	03 9794 5722	www.jjrichards.com.au
	Waste Wise Environmental	1300 550 408	www.wastewise.com.au
	Kartaway	1300 362 362	www.kartaway.com.au
	iDump	1300 443 867	www.idump.com.au
	Waste Ninja	1300 648 088	www.wasteninja.com.au
E-Waste Collection	TechCollect	1300 229 837	www.techcollect.com.au
Equipment	Sulo Australian (bin supplier)	03 9357 7320	www.sulo.com.au
Supplier	Mr Wheelie Bin (bin supplier)	03 9912 2850	www.mrwheeliebin.com.au
	Wastech Engineering (compactors & chutes)	1800 465 465	www.wastech.com.au
	Elephants Foot (compactors & chutes)	1300 435 374	www.elephantsfoot.com.au
	ASI JD MacDonald (chutes)	1800 023 441	www.jdmacdonald.com.au
	Eco-safe Technologies (odour control system)	1300 135 039	www.eco-safe.com.au
Bin	The Bin Butlers	1300 788 123	www.thebinbutlers.com.au
Services	WBCM Environmental Australia	1300 800 621	www.wbcm-aust.com.au

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Appendix A

Development Plans

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Do not scale drawings - refer to figured dimensions only. Any discrepancies shall immediately be referred to the architect for clarification.

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 18/08/23
 ISSUED FOR TOWN PLANNING
 BS
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 Rev
 Date
 Description
 Initial
 Checker

437 ST KILDA RD

General Arrangement Plan Level GF



 Status
 TOWN PLANNING

 Scale
 1 : 200
 @ A1

 Drawn
 AW
 Checked
 JH

 Project No.
 M12185
 Plot Date
 3001/2024 452:10 PM

ot Date 30/01/2024 4:52:10 PM

BIM



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Appendix B

Swept Path Diagrams

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VEHICLE PROFILE

WASTE COLLECTION ACCESS - 8.8m MRV



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REV	DATE	NOTES
Α	16/08/2023	TOWN PLANNING
В	02/02/2024	RFI

DESIGNED BY D. NEGI CHECKED BY J. COSSINS J. COSSINS J. WALSH

437 ST. KILDA ROAD, MELBOURNE PROPOSED RESIDENTIAL USE DEVELOPMENT GENERAL NOTES: BASE PLANS PREPARED BY BATESSMART DATED 16/01/2024

FILE NAME: G33364-01 SHEET NO.: 03



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