



ecoresults

Waste Management Plan

2020-2159-WMP

Date: 6th November 2020

Address: 15 King Street, Dandenong

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Your EcoResults Consultant: Luana Linke

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WMP

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Tracking	Date	Revision	Description
	6 th November 2020	1	Original report issue

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Purpose & Scope of Report

EcoResults has been engaged as Waste Management Consultants for the proposed development at 15 King Street, Dandenong to ensure that the development meets current best practice and/or Local Council requirements with regards to waste management for general residential waste and recycling only.

- In preparing the Waste Management Plan (WMP), EcoResults has consulted with the City of Greater Dandenong website along with Sustainability Victoria’s Better Practice Guide (2019) regarding waste management aspects of the design.
- This WMP outlines how the development will manage waste during its occupation and operation.
- The Operator is responsible for waste management and collection in accordance with the Local Law, this WMP and any planning permit conditions.
- If circumstances in the area change, such as OH&S, road construction, inappropriate use, excessive waste, etc., a review of the Waste Management Plan and collection process may be required by the Responsible Authority and an updated Waste Management Plan will be required for approval.
- This report is limited to an assessment of the proposed development as drawn and specified by David Natale Design + Objects, 26.10.2020, provided to EcoResults.

Project Information

Project Info	Property Address	15 King Street, Dandenong
	Project Description	Residential development consisting of 15 apartments
	Local Authority	City of Greater Dandenong
	Operator	Owners Corporation
	Street Frontage	King Street
	Waste collection Point	Kerbside collection on King Street
	Client	David Natale

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Summary of Findings

Project Info	Waste Systems	Section
	The dwellings will generate an estimated 1,380L of garbage waste weekly	1
	The dwellings will generate an estimated 1,380L of recycled waste weekly	1
	The development will share 2 x 1,100L garbage bins and 2 x 1,100L recycling bins	2
	A bin room for storage of bin infrastructure has been provided in the basement	3
	Bin Users are responsible to sort their own waste and place garbage and recyclables in the correct bins located in the basement bin room	3
	All general waste bins will be collected weekly by private collection company	4
	All recycling bins will be collected weekly by private collection company	4
	Waste reduction strategy	5
	Plan implementation	6
BADS Clause 55.07-11 compliance statement	7	

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Section 1 | Estimated Waste Generation Rates

Waste	Apartments	
	Estimated Weekly General Waste	1,380L
	Estimated Weekly Recycling	1,380L

The above figures are based on Sustainability Victoria’s Better Practice Guide (2019) at:

- 1-bedroom apartments will generate a total of 80L garbage and 80L recycling per week.
 - There is a total of 6 x 1-bedroom apartments with an estimated 480L general waste and 480L recycling contributing to the above weekly generation rates.
- 2-bedroom apartments will generate a total of 100L garbage and 100L recycling per week.
 - There is a total of 9 x 2-bedroom apartments with an estimated 900L general waste and 900L recycling contributing to the above weekly generation rates.

Section 2 | Bin Infrastructure & Size

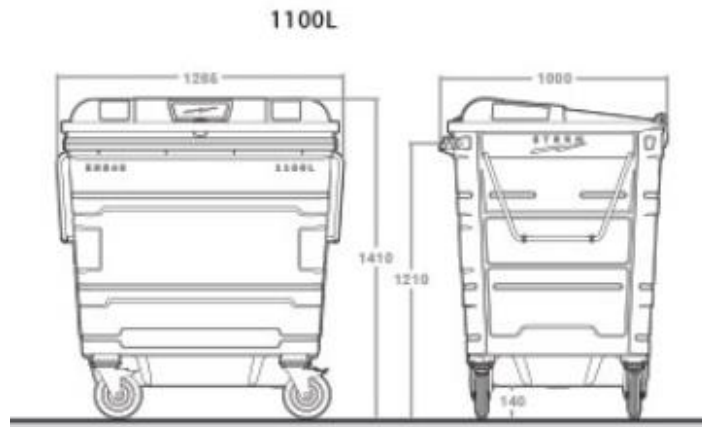
Bin Info	Waste Stream	No of bins	Vol (L)	Type Bin Size (mm)	Bin Lid Colour
	General Waste	2	1,100	1250L x 1080W x 1350H	Red
	Commingled Recycling	2	1,100	1250L x 1080W x 1350H	Yellow

Bin infrastructure as outlined:

- is to be provided by a private waste collection company contracted by the Operator. (See image 1 on next page)
- will be in accordance with mobile garbage bin best practice.
- must be clearly labelled, colour coded and have signage explaining service use and placement.
- is to feature rubber castors on the wheels to minimise noise during transfers.
- a suitable electronic bin tug (refer to example image 2 on next page) will be provided by the development for bin transfers from basement bin room to King Street kerbside. The electronic bin tug will be safely stored in the bin room.

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Image 1: 1,100L MGB



source: www.torowasteequipment.com.au/product/mobile-bins-mgb/

Image 2: Example of electronic bin tug



source: www.sitecraft.net.au

Section 3 | Bin Storage Area & Waste Sorting

A bin room with adequate space for manoeuvring of bins has been provided in the basement and is noted on the plans (refer to floorplans and image 3 on next page). Residents will share 2 x 1,100L general waste bins and 2 x 1,100L recycling bins. An electronic bin tug to transfer bins during waste collection will be safely stored in the bin room. The bin room is convenient and easy to access by residents including those with limited mobility. It is also adequately lighted and ventilation to prevent offensive odours.

Each apartment has been provided with adequate internal storage areas to enable the separation of waste and recyclables.

The operator or person assigned by them will be responsible to:

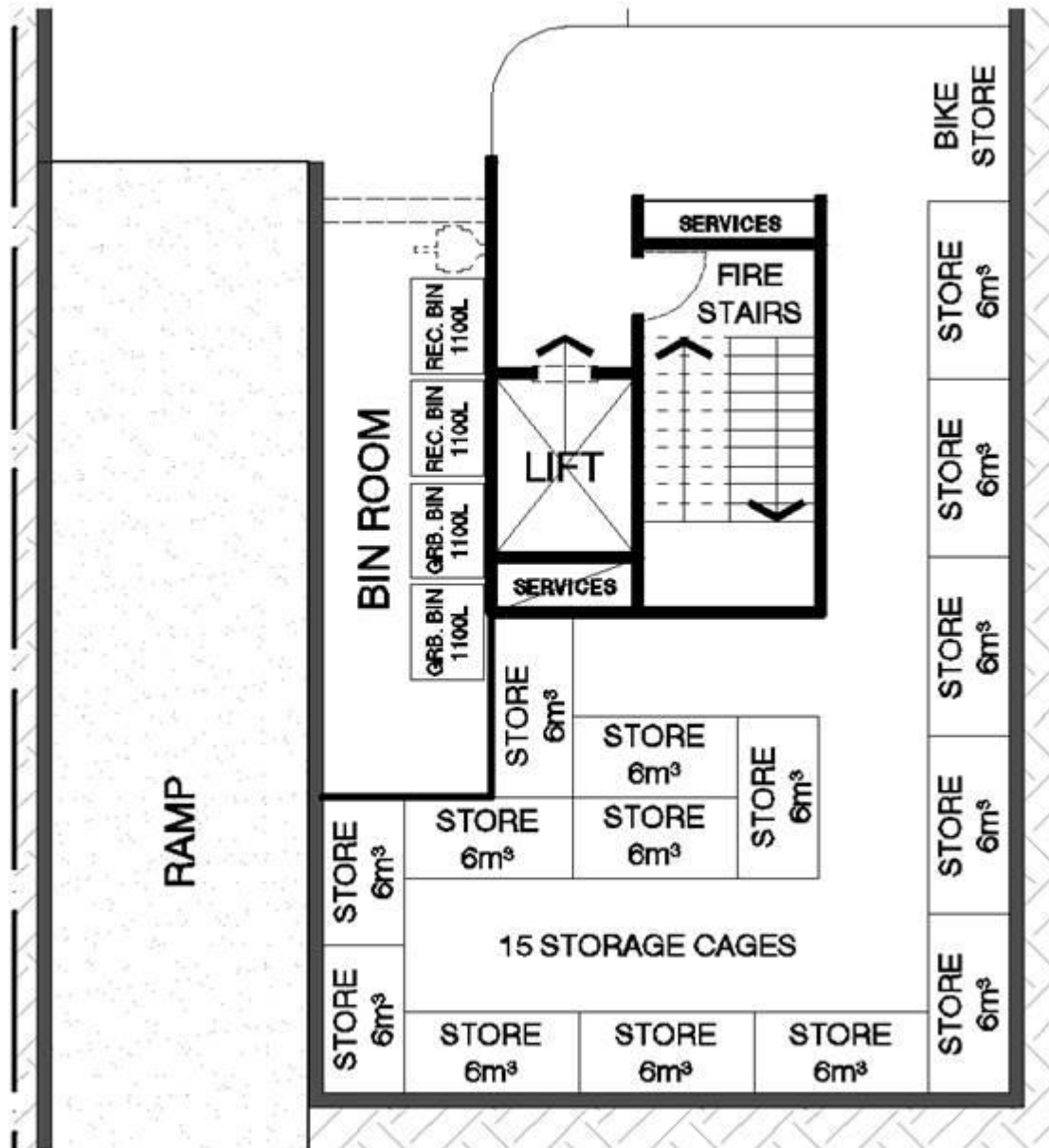
- keep bins and bin room maintained in a clean and tidy condition.
- secure the bin area, prevent over filling of bins and removing any site litter or spillages.
- secure and maintain the electronic bin tug.
- ensure adequate precautions are taken to prevent attracting vermin.
- maintain lighting within basement and bin room.
- arrange for regular cleaning of bins by a private cleaning company.
- arrange a minimum of one e-waste/hard waste collection per year for the development through a private company or council, and well inform tenants of the dates and collection details.
 - Due to the Victorian Government ban on e-waste in landfills from July 2019 across Victoria. E-Waste must be taken to a local drop-off point or collection arranged. For example, the Hampton Park Resource and Recovery Precinct at 274 Hallam Road, Hampton Park.
 - No hard waste shall be placed on kerbside unless by council booking.
 - Refer to <https://greaterdandenong.com/section/1675/waste-and-recycling> for more information, which should be passed on to the bin users.

Bin users will be responsible to:

- sort their own waste and transfer their garbage and recyclables from their apartment and place within the appropriate bins located in the basement bin room.
 - The bin room located in the basement is safe and easily accessible for residents living on either floor via the lift or stairs.
- ensure commingled recycling (mixed recycling), which includes plastics coded 1-7, glass, aluminium, tin cans, milk and juice cartons, paper including magazines and newspaper, cardboard in small amounts and folded down and placed within the correct bin. No plastic bags are to be deposited in the recycle bins.
- sort and separate waste items such as e-waste, white goods, domestic volumes of household paints, household batteries, florescent tubes and mixed globes.
 - e-Waste and hard waste items must not be put in the garbage or recycling bins, these items should be taken to a local drop-off point or kept aside to be privately collected in a collection arranged by the Operator or person assigned by them.

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Image 3: Bin room and bin infrastructure in basement.



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Section 4 | Collection Arrangements

	Waste Stream	Collection Frequency	Collection Method
Collection	General Garbage	Weekly	Private Collection
	Commingled Recycling	Weekly	Private Collection

The Operator or person assigned by them will be responsible to:

- arrange a private waste collection company to collect the garbage and recycling a minimum of once weekly from the site.
- ensure that the frequency of collection is adequate to prevent overfilling of bins.
- arrange by a private contractor to maintain landscaping, the private contractor will be required to remove any green waste generated.

The Private Waste Collection Company will be responsible to:

- arrange a suitable sized waste truck to collect garbage and recycling waste bins.
- take bins from the basement bin room to waste truck on King Street for collection and returning them to the same position when emptied
 - an electronic bin tug will be required to transfer the bins to kerbside for collection. Unless it can be arranged with the private waste collection company to provide the tug, it will be provided by the development.
 - the waste truck should have sufficient safety equipment to ensure it can manoeuvre in a safe manner without harm to pedestrians or property.
- have a driver and a jockey so that the driver can stay with the vehicle at all times during the waste pick up.
- endeavour not to block the road at any time, and ensure the waste truck is parked in a safe manner.
- clean up any spillage that may occur as a result of collection.
- complete a JSA (Job Safety Analysis) before collection commences. This JSA will be provided to all contract staff who are assigned to collect waste from the site.
- observe Section 5 of the Victorian EPA Noise Control Guideline Publication 1254 (see below) to protect the acoustic amenity of the development and surroundings.

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Victorian EPA Noise Control Guideline Publication 1254 October 2008 (excerpt)

The main annoyance produced by domestic refuse collections occurs in the early morning (i.e. before 7:00am). Therefore, if possible, routes should be selected to provide the least impact on residential areas during that time. Collection of refuse should be restricted to the following criteria:

- Collection occurring once a week should restrict to: 6am to 6pm Monday to Saturday
- Collections occurring more than once a week should be restricted to the hours: 7am to 6pm Monday to Saturday
- Compaction should only be carried out while on the move
- Bottles should not be broken up at the point of collection
- Routes which service entirely residential areas should be altered regularly to reduce early morning disturbance
- Noisy verbal communication between operators should be avoided where possible.

Section 5 | Waste Reduction Strategy

The operator is to promote the observance of the Vic Government's "Getting Full Value" 2013 Waste and Resource Recovery Policy and encourage residents to observe the Environment Protection Act 1970 and Sustainability Victoria's guidelines including:

- Observing the waste hierarchy (in order of preference) as follows:
 - i) waste avoidance
 - ii) reuse
 - iii) recycle
 - iv) recovery of energy
 - v) treatment
 - vi) containment
 - vii) disposal
- Participating in council programs for waste minimisation
- Establishing waste reduction and recycling targets; including periodic waste audits, keeping records, and monitoring of the quantity of recyclables found in general waste bins
- Sharing results of these audits/targets with residents/staff
- Waste management rules or guidelines should be prepared outlining relevant components of the Waste Management Plan
- These should be adopted by the Owner's Corporation and displayed at the point(s) where residents access disposal facilities.
- They should include safe operation policies and procedures.

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Section 6 | Plan Implementation

All operators will be responsible to implement this Waste Management Plan. It is recommended that the operator review this WMP six months after occupancy, and each year thereafter to incorporate any changes to legislation or the local law.

A revision of the plan may also be required if it is not being implemented to the satisfaction of council with respect to:

- Compliance with planning permit conditions or the General Local Law; or
- The maintenance of health and amenity standards.

Section 7 | BADS Clause 55-07-11 Waste and Recycling Objectives Response

Clause 55-07-11 | Objectives

- To ensure dwellings are designed to encourage waste recycling.
- To ensure that waste and recycling facilities are accessible, adequate, and attractive.
- To ensure that waste and recycling facilities are designed and managed to minimise impacts on residential amenity, health, and the public realm.

Clause 55-07-11 | Standard B45

Under Clause 55.07-11 (Waste and recycling objectives), Standard B45 applies, which includes the following requirements:

- Waste and recycling enclosures which are:
 - Adequate in size, durable, waterproof and blend in with the development.
 - Adequately ventilated.
 - Located and designed for convenient access by residents and made easily accessible to people with limited mobility.
- Adequate facilities for bin washing. These areas should be adequately ventilated.
- Collection, separation and storage of waste and recyclables, including where appropriate opportunities for on-site management of food waste through composting or other waste recovery as appropriate.
- Collection, storage, and reuse of garden waste, including opportunities for on-site treatment, where appropriate, or off-site removal for reprocessing.
- Adequate circulation to allow waste and recycling collection vehicles to enter and leave the site without reversing.
- Adequate internal storage space within each dwelling to enable the separation of waste, recyclables, and food waste where appropriate.

Waste and recycling management facilities should be design and managed in accordance with a Waste Management Plan approved by the responsible authority and:

- Be designed to meet the best practice waste and recycling management guidelines for residential development adopted by Sustainability Victoria.
- Protect public health and amenity of residents and adjoining premises from the impacts of odour, noise and hazards associated with waste collection vehicle movements.

Compliance statement

This WMP includes all requirements of Standard B45, and therefore complies with Clause 55.07-11.

Development will comply if this WMP is fully implemented

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Legal Statement

This Waste Management Plan (WMP) has been prepared by EcoResults as part of a Planning Permit Application or a Condition of a Planning Permit and is to be used strictly for Town Planning purposes. It is not to be used as part of any feasibility study or costing process, to document safety or operation procedures, or to forecast operational costs. The purpose of the report is to assess waste management during the operation of the development once complete and does not include waste management during the demolition and construction stage.

The waste production estimates given herein, and the actual waste production may vary, depending on a variety of factors beyond the control of the developer, designer or EcoResults, which factors include but are not limited to occupant disposition toward waste and recycling, and the residents handling of waste management. If actual waste volumes are greater than those estimated herein, the number of bins and/or collections per week should be increased accordingly. Any variation to the design or construction of the development will deem this WMP void unless the variations are assessed by EcoResults. Please contact EcoResults if there are any questions or variations that are required.

This WMP is limited to general waste and recycling from residential uses only. This WMP does not provide advice in relation to the storage, disposal or collection of toxic chemicals, liquids or gases, hazardous materials, contaminants, or pollutants, including but not limited to the storage, disposal or collection of sharps, or surgical, clinical, anatomical, cytotoxic, pharmaceutical, or hazardous waste. For advice regarding waste streams of this nature, the commercial operator of the facility will need to consult a Waste Contractor who is qualified and/or accredited to store, collect and/or dispose of the relevant waste stream, as well as any relevant state and local regulations, standards and laws.

EcoResults is not responsible for any loss or damage arising directly or indirectly from the use of this WMP:

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