

ADVERTISED PLAN

18-24 Scott Street, Dandenong Waste Management Plan



240430WMP001A-F
16 December 2024

onemilegrid

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1 INTRODUCTION

onemilegrid has been requested by Scott St Dandenong Pty Ltd to prepare a Waste Management Plan for the proposed residential development at 18-24 Scott Street, Dandenong.

The preparation of this management plan has been undertaken with due consideration of the Sustainability Victoria Better Practice Guide for Waste Management and Recycling in Multi-unit Developments and relevant Council documentation.

2 POLICIES, STRATEGIES AND GUIDELINES

2.1 Recycling Victoria – Best Practice Waste Management

Best Practice Waste Management is an initiative designed to reduce the amount of waste generated, through encouraging a change of behaviour and action on waste management and moreover recycling.

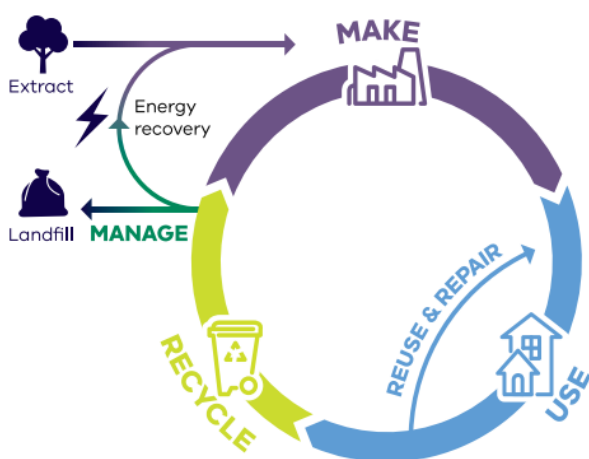
The benefits of reducing waste generation are far reaching and have been identified as significantly important by Council and the Victorian Government.

Recycling Victoria: A New Economy is a policy and 10-year action plan, prepared by the Victoria Government, to “deliver a cleaner, greener Victoria, with less waste and pollution, better recycling, more jobs and a stronger economy”.

Four overarching goals have been identified in order to achieve a circular economy in relation to waste, as below:

1. MAKE – Design to last, repair and recycle;
2. USE – Use products to create more value;
3. RECYCLE – Recycle more resources;
4. MANAGE – Reduce harm from waste and pollution.

Figure 1 Resource Flows in a Circular Economy



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2.2 Sustainability Victoria

Sustainability Victoria has developed the Guide to Better Practice for Waste Management and Recycling in Multi-unit Developments to improve waste management practices and increase recycling in MUDs.

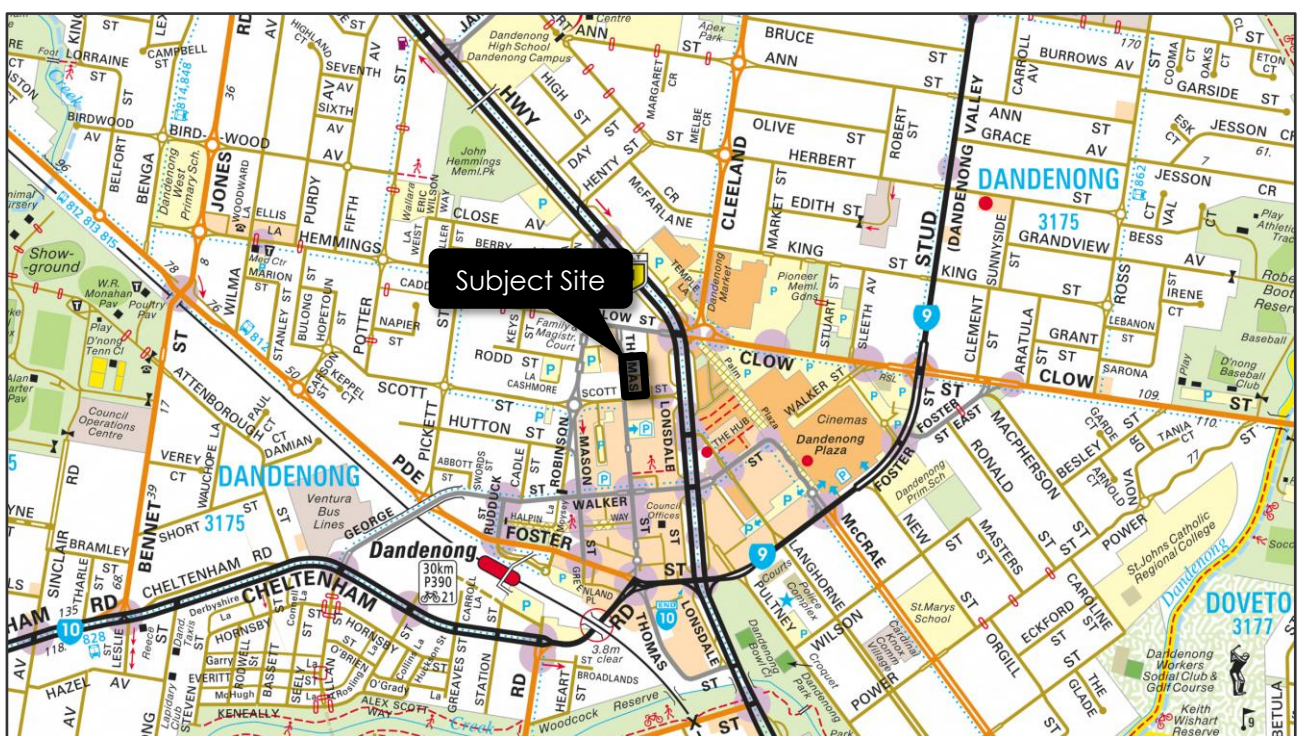
This guide is a stand-alone resource providing guidance for architects, building designers, developers, building managers, residents, planners, and waste management officers to incorporate effective waste and recycling systems into all stages of a development's life.

It outlines essential points of consideration when designing a waste management system for medium or high-density residential, mixed-use, and precinct-scale developments, with some guidance and better practice options applicable to a broader range of developments.

3 EXISTING SITE CONDITIONS

The [subject site](#) is addressed as 18-24 Scott Street, Dandenong, and is located on the north side of Scott Street, approximately 80 m west of Lonsdale Street as shown in Figure 2.

Figure 2 Site Location



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The subject site occupies a total area of approximately 836 m² and has road frontages to Scott Street, Lois Lane and McQuade Lane of 20 metres each.

The subject site is currently vacant however it is being utilised for informal off-street parking, with vehicle access available from McQuade Lane and Lois Lane.

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4 PROPOSED DEVELOPMENT

It is proposed to develop the subject site for the purposes of a thirteen-storey residential development comprising a total of 86 apartments catering for affordable and social housing.

The apartment mix is to consist of 54 one-bedroom apartments and 32 two-bedroom apartments between levels L1 – L12, whilst multi-level ground and podium parking is proposed on the lower levels.

Two separate car parking areas are proposed on-site comprising a ground floor car park and a podium car park over two levels. Vehicle access to each of the car parks is proposed from the rear of the site via Lois Lane. The ground floor car park includes a double-width roller door which provides direct access to the car parking aisle, whilst the podium parking level is accessed via a separate single-width ramp in the northwest corner of the site.

5 WASTE MANAGEMENT

5.1 General

It is proposed to utilise a private contractor to manage the collection and disposal of all waste streams associated with the development.

Bins will be stored within a dedicated bin storage room on the ground floor level of the development. The waste collection vehicle, will enter the basement and prop adjacent the bin store, from where the bins will be transferred directly to the waiting truck for emptying. The bins will be returned to the bin storage area immediately following collection.

A dual chute system will be utilised, separating garbage and recyclables. Residents will be responsible for disposing of recyclables or bagged garbage into the appropriate waste chutes located on each floor of the development, or directly into the appropriate bins located within the bin storage room.

The building manager will be responsible for rotating bins within the bin storage room to ensure the bins do not overflow.

The collection location and expected transfer route is shown in Figure 3.

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5.2.3 Recycling

The commingled recycling stream is a mixed material stream consisting of paper, cardboard, cans, plastics, and glass (where not collected as part of a separate glass collection service) and is one of the four primary waste streams identified by Recycling Victoria and forms part of the standard commercial collection system.

5.2.4 Glass Recycling

It is understood that Greater Dandenong City Council will transition to separate glass recycling by 2027, and at that time, it is recommended that this Waste Management Plan, and the private waste collection, be updated to include separate glass recycling.

5.2.5 Container Deposit Scheme (CDS)

On 1 November 2023, Victoria's Container Deposit Scheme (CDS) commenced, which marked a significant milestone towards Victoria achieving its Circular Economy goal.

The CDS rewards Victorians with a 10 c refund for all eligible cans, cartons and bottles that are returned. Most aluminium, glass, plastic, and liquid paperboard (carton) drink containers, between 150 mL and 3 L are eligible, with a 10 c mark provided on the drink container label, often located near the barcode. Container lids are able to be kept on, as they can also be recycled.

There are multiple ways to receive the 10 c refund, including vouchers, which can be spent at participating shops, cash, electronic payment, and the option to donate the refund to charities and community groups.

The eligible containers can be returned to several different types of container refund points, in many locations across Victoria, with the number of locations expected to continue to grow. Typical refund points include the following:

- Reverse Vending Machines (RVMs) – Typically located in shopping centre and supermarket car parks, eligible containers are inserted into the machine, where the containers are scanned and verified;
- Depots – Larger refund points which typically offer a walk-in or drive-through services to get containers counted and refunded on the spot. Best suited for larger loads;
- Over the counter (OTC) – Some small businesses or organisations provide over-the-counter services, which essentially work like a miniature depot; and
- Pop-ups – Zone operators may offer pop-up services or events, that will have set times and locations that drinks containers can be returned.

The locations of the CDS refund points are provided at <https://cdsvic.org.au/locations>.

Residents should be encouraged to contribute to the CDS to regularly take containers to a refund point.

5.2.6 Green Waste

Given the nature of the proposed development and dwellings (being multi-unit/multi-level), it is expected that green waste generation will be minimal or negligible, and therefore a green waste collection service is not expected to be required.

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5.2.7 Hard Waste

Hard waste services will also be provided by the private contractor, under the management of the Owners Corporation. Hard waste will be stored within individual dwellings between collections, and placed within the bin room prior to scheduled collections. Owing to the limited space within the bin room to accommodate large items, it may be necessary to stagger hard waste collections.

To minimise the number of collections it is recommended that the Owner's Corporation manage combined collections for residents. Regardless, hard waste services will be provided by the private contractor on an as-needs basis.

Additional to the above, hard waste may be disposed of independently by residents, at Council's Recycling Centre/Transfer Station.

5.2.8 Electronic Waste (E-Waste)

E-waste includes all manner of electronic waste, such as televisions, computers, cameras, phones, household electronic equipment, batteries and light bulbs. E-waste contains valuable materials that can be recovered and reused such as tin, nickel, zinc, aluminium, copper, silver and gold.

On 1st July 2019, the disposal of E-waste to landfill was banned by the Victorian Government.

A large number of e-waste collection points are available in Victoria and private contractors are equipped with the resources to undertake E-waste collections

E-waste must be taken by residents to the appropriate collection centre, as described below:

- Planet Ark operate a number of e-waste recycling drop-off locations throughout Victoria (<https://recyclingnearyou.com.au/electrical>);
- Officeworks stores accept small amounts of personal E-waste;
- Aldi stores accept batteries; and
- Some Bunnings Warehouse stores accept batteries.

Additional recycling locations are provided at www.recyclamate.com.au, or <https://recyclingnearyou.com.au/>.

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6 WASTE GENERATION

6.1 Sustainability Victoria Recommended Rates

Waste generation rates published within Sustainability Victoria's "Better Practice Guide for Waste Management and Recycling in Multi-unit Developments" suggest the following rates for multi-unit developments:

Table 1 Sustainability Victoria Recommended Rates – Residential

Dwelling Size	Garbage	Recycling and Paper
1-bedroom or studio apartment	80 L	80 L
2-bedroom apartment	100 L	100 L

In relation to residential dwellings, Sustainability Victoria indicates that approximately 35% of garbage is made of food waste, therefore, the provision of organics waste collection can result in a reduction in garbage generation by 35%.

Subsequently, the weekly waste generations rates for each dwelling type is detailed in Table 2.

Table 2 Weekly Waste Generation Rates

Component	Garbage / Week	Organics / Week	Recycling / Week
1-bedroom apartment	52 L	28 L	80 L
2-bedroom apartment	65 L	35 L	100 L

6.2 Waste Generation

Based on the Sustainability Victoria waste generation rates, the following weekly waste generation detailed in Table 3 is expected.

Table 3 Expected Weekly Waste Generation

Component	No. Dwellings	Garbage / Week	Organics / Week	Recycling / Week
1-bedroom apartment	54	2,808 L	1,512 L	4,320 L
2-bedroom apartment	32	2,080 L	1,120 L	3,200 L
Total	86	4,888 L	2,632	7,520

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7 WASTE DISPOSAL AND COLLECTION REQUIREMENTS

7.1 Bin Provision and Specifications

It is proposed to utilise a private waste contractor, providing weekly garbage, organic, and recycling waste collection services for the proposed development.

Based on the expected waste generation per dwelling, the following bin provision is required.

Table 4 Bin Provision

Stream	Waste / Week	Bin Size	Collection Freq.	Bins Required
Garbage	4,888 L	1,100 L	3 x Weekly	2 bins
Organics	2,632 L	240 L	3 x Weekly	4 bins
Recycling	7,520 L	1,100 L	3 x Weekly	3 bins
Total				9 bins

Typical bin specifications for each bin size are provided in Table 5, and bins are to be colour coded to the Australian Standard (AS4123) as shown in Table 6.

Table 5 Bin Specifications

Capacity	Width	Depth	Height	Area
240 litres	0.60 m	0.75 m	1.10 m	0.45 m ²
1,100 litres	1.25 m	1.10 m	1.35 m	1.38 m ²

Table 6 Bin Colours

Stream	Colour
Garbage	Red lid and dark green or black body
Commingled Recycling	Yellow lid and dark green or black body
Organics	Light Green lid and dark green or black body

7.2 Bin Storage

As indicated in Figure 3, it is proposed to provide a bin storage area on the ground floor level adjacent the car park.

The layout of the bin storage area is shown in Figure 4, which demonstrates that the area is capable of accommodating the required bins, as calculated in Table 4.

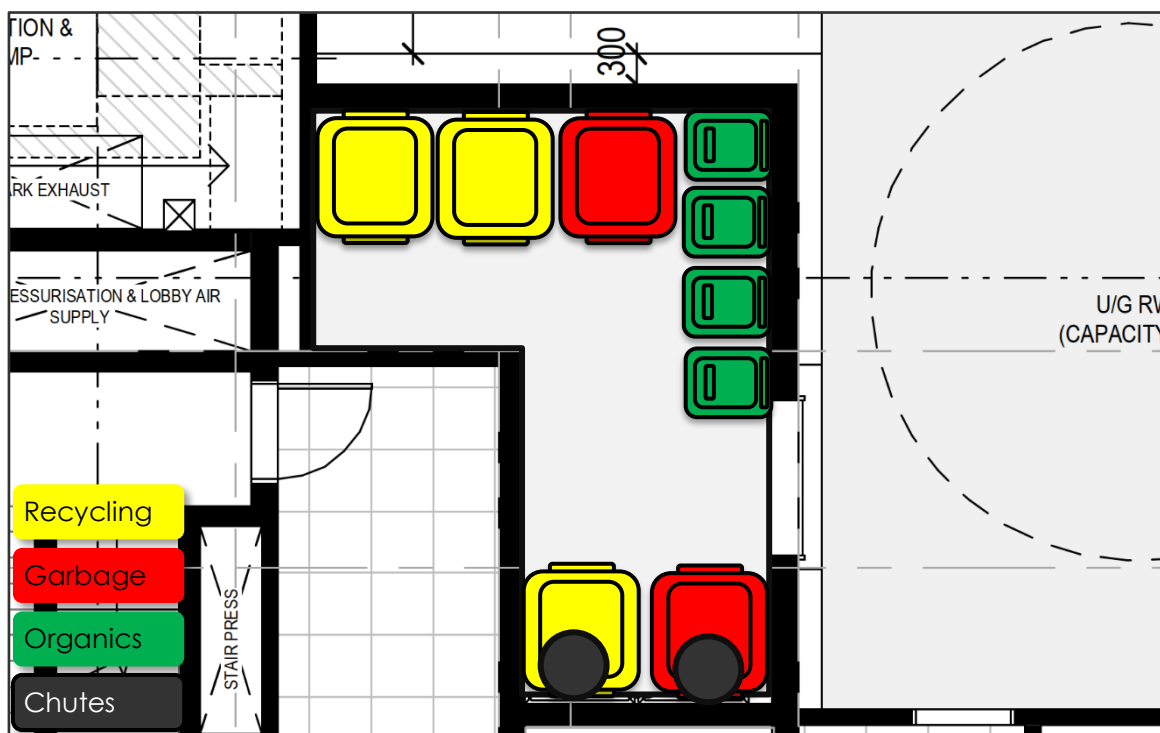
Some additional area is also provided within the bin storage room to allow for the temporary storage of bulk items and packaging, under the control of the Owners Corporation.

Furthermore, the bin storage room is located appropriately for access by residents, and is secured from the common areas.

The bin storage room shall be ventilated, and shall be cleaned regularly by the operator or waste collection contractor, to minimise odour.

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Figure 4 Bin Storage Room Layout



7.3 Waste Chute Rooms

Waste Chute Rooms are located on each level of the apartment building. The waste room will include dual chutes and a self-closing door to ensure that odours do not permeate into the lobby. The waste chutes terminate in a separate area to the organic waste bins, to ensure the safety of organic waste bin users.

The following general rules apply when using the waste chutes:

- General household rubbish (essentially kitchen & bathroom rubbish) is the **ONLY** waste that should be placed in the garbage chutes;
- All rubbish must be securely bagged & tied before placing down the garbage chute;
- NO glass, cardboard, open food containers, plastic or papers is to be placed down the garbage chute; **use the recycling chute**;
- Recyclable materials should not be bagged before placing down the recycling chute; and
- No rubbish is to be left on floor in the waste chute room.

7.4 Bin Usage

Residents will bag and dispose of garbage in the provided bins, located in the bin storage room.

Residents will transport and dispose of recyclables (non-bagged) in the provided bins, located in the bin storage room. Cardboard boxes should be flattened, and containers rinsed and cleaned prior to disposal in the provided bins.

Food and organic waste is to be taken in compostable food waste bags to be placed in the dedicated FOGO bins.

Once commenced, glass recycling shall be disposed of in the appropriate bin provided.

7.5 Bin Collection

Bins will be stored within a dedicated bin storage room on the ground floor level of the development. The waste collection vehicle, will enter the basement and prop adjacent the bin store, from where the bins will be transferred directly to the waiting truck for emptying. The bins will be returned to the bin storage area immediately following collection.

Swept path diagrams showing the movements of the waste collection vehicle are attached in Appendix A.

7.6 Bin Cleaning

The Owners Corporation shall ensure that the shared residential bins are kept in a clean state, to minimise odours and to discourage vermin. This may include regular cleaning by a third party, cleaning by the waste contractor, bin swapping by the waste contractor, or maintenance by residents.

Where cleaning is to be undertaken on-site, it should only occur in a designated bin cleaning area, provided with a drain connected to sewer.

7.7 Signage

To avoid contamination between garbage streams, bin lids will be colour coded in accordance with the Australian Standard (AS4123), to ensure the bin type is easily distinguishable. Furthermore, bins should include typical signage (preferably on the bin lid) to reinforce the appropriate materials to be deposited in each bin. Example signage is shown in Figure 5 below.

Figure 5 Example Waste Signage



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8 MANAGEMENT

8.1 General

In relation to the proposed development, recycling is of key importance, and in this regard, the Owners Corporation shall encourage residents to participate in minimising and reducing solid waste production by:

- Promoting the waste hierarchy, which in order of preference seeks to:
 - + Avoid waste generation in the first place;
 - + Increase the reuse and recycling of waste when it is generated;
 - + Recover, treat or contain waste preferentially to; and
 - + Its disposal in Land Fill (which is least desirable).
- Providing information detailing recyclable materials to ensure that non-recyclable materials do not contaminate recycling collections;
- Providing information regarding safe chemical waste disposal methods and solutions, including correct battery and electronics disposal methods;
- Encouraging composting for residents; and
- Providing tips for recycling and reusing waste, including encouraging the disposal of reusable items in good condition via donations to Opportunity Shops and Charities.

8.2 Resident Information

To ensure all residents are aware of their responsibilities with regard to waste and bin management, an information package will be provided by the Owners Corporation to all residents, including the following information:

- A copy of this Waste Management Plan;
- Methods and techniques for waste reduction and minimisation;
- Information regarding bin collection days and requirements;
- Resident responsibilities with regard to bin usage, storage, and collection; and
- Resident responsibilities with regard to litter and waste removal from the common property.

8.3 Noise Control

It is noted that with the bin storage and collection area being situated within the basement car park, disturbance to residents during waste collection will be minimal. Regardless, to minimise the disturbance to residents during waste collection, the collection should follow the criteria specified by the EPA, as below:

- Collections occurring once a week should be restricted to the hours 6:00am to 6:00pm, Monday to Saturday;
- Collections occurring more than once a week should be restricted to the hours 7:00am to 6:00pm, 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 that service entirely residential areas should be altered regularly to reduce early morning disturbance; and
- Noisy verbal communication between operators should be avoided where possible.

9 PLANNING SCHEME REQUIREMENTS – CLAUSE 58.06-3

Clause 58.06-3 of the Greater Dandenong Planning Scheme identifies the waste and recycling objectives for Apartment Developments, including:

- 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.

In particular, Standard D24 indicates that developments should include dedicated areas for:

- 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 designed and managed in accordance with a Waste Management Plan approved by the responsible authority and:

- Be designed to meet the better practice design options specified in Waste Management and Recycling in Multi-Unit Development (Sustainability Victoria, 2019).
- Protect public health and amenity of residents and adjoining premises from the impacts of odour, noise and hazards associated with waste collection vehicle movements.

10 OCCUPATIONAL HEALTH & SAFETY RESPONSIBILITIES

The Owners Corporation shall ensure compliance to all relevant OH&S regulations and legislation, including the Worksafe Victoria Guidelines for Non-Hazardous Waste and Recyclable Materials.

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11 CONTACT INFORMATION

11.1 Council

Greater Dandenong City Council

Phone: (03) 8571 1000 (Customer Service)

Web: www.greaterdandenong.com

11.2 Contractors

ASI JD MacDonald

Services: Waste collection and management equipment

Phone: 1800 023 441

Web: www.jdmacdonald.com.au

Email: enquiry@asjdmacdonald.com.au

CSC Waste & recycling

Services: Private contractor

Phone: 1300 499 927

Web: www.cscwaste.com.au

Email: info@cscwaste.com.au

Urban Waste

Services: Private contractor

Phone: 0429 309 269

Web: www.urbanwaste.com.au

Email: info@urbanwaste.com.au

Cleanaway

Services: Private contractor

Phone: 131 339

Web: www.cleanaway.com.au/

JJ Richards & Sons

Services: Private contractor including bin tugs

Phone: (03) 9703 5222

Web: www.jjrichards.com.au

Email: operations.melbourne@jjrichards.com.au

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WasteWise

Services: Private contractor
Phone: 1300 550 408
Web: www.wastewise.com.au

BioPak (Organic Waste Compost Service)

Services: Private contractor
Phone: 1300 246 725
Web: www.biopak.com.au/compost-service

11.3 Equipment

OzChutes (waste chutes, diverters, carousels, compactors)

Phone: (03) 9716 7557
Web: www.ozchutes.com.au
Email: sales@ozchutes.com.au

11.4 Others

Sustainability Victoria

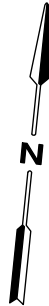
Services: Sustainable Waste Management initiatives and information
Phone: 1300 363 744 (Energy, Waste and Recycling)
Web: www.sustainability.vic.gov.au
Email: info@sustainability.vic.gov.au

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Appendix A Swept Path Diagram

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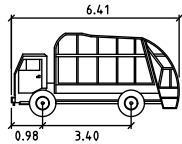




ENTRY MANOEUVRES
- - - - - DESIGN VEHICLE SWEEP PATHS SHOWN DASHED
· · · · · 300mm CLEARANCE ENVELOPE SHOWN DOTTED

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EXIT MANOEUVRES
- - - - - DESIGN VEHICLE SWEEP PATHS SHOWN DASHED
· · · · · 300mm CLEARANCE ENVELOPE SHOWN DOTTED



WASTE MINI LOADER meters
Width : 6.41
Track : 3.40
Lock to Lock Time : 4.0
Steering Angle : 33.6



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Scale
1:500 @ A3



Drawing Title 18-24 SCOTT STREET, DANDENONG VEHICLE SITE ACCESS - GROUND SWEEP PATH ANALYSIS		
Designed CM	Approved VG	Melway Ref 90 D7
Project Number 240430	Drawing Number SPA101	Revision A