



## WASTE MANAGEMENT PLAN

Proposed School Addition Development  
Baird Street  
North Fawkner

**ADVERTISED  
PLAN**

FOR

**DARUL ULUM COLLEGE OF VICTORIA**

9 June 2022

File 419A

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Issue	Date	Prepared by	Checked by	Status
A	10 May 2022	MD	JD	Draft
A	9 June 2022	MD	JD	Final

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Any enquiries regarding the use of this report should be directed to:

**NORTHERN ENVIRONMENTAL DESIGN PTY LTD**

ABN 811 621 207 92

ACN 162 120 792

155 Cameron Parade

Watsonia North VIC 3087

Australia

M: 0401 231 476

W: [nedesign.net.au](http://nedesign.net.au)

E: [info@nedesign.net.au](mailto:info@nedesign.net.au)

## 1. INTRODUCTION

Northern Environmental Design has been engaged by Darul Ulum College of Victoria to prepare a waste management plan for the proposed medical centre at Baird Street, North Fawkner.

This report was based on plans provided by Design Core Architects Pty Ltd:

Drawing No.	Description	Revision	Date
TP000	Cover	A	May 2022
TP001	Site plan existing	A	May 2022
TP002	Site plan proposed	A	May 2022
TP003	Development summary	A	May 2022
TP100	Existing/demolition plan	A	May 2022
TP101-102	Proposed floor plans	A	May 2022
TP103	Roof plan	A	May 2022
TP200	3D	A	May 2022
TP201-202	Elevations & sections	A	May 2022
TP203	Isometric	A	May 2022
TP300	Section	A	May 2022
TP400	Shadow diagram	A	May 2022

- Discussions and correspondence with:
  - Design Core Architects Pty Ltd

## 2. BUILDING CONSTITUENTS

The proposed development comprises the following:

Level	Development
Ground Floor	Reception, offices, classroom, kitchen & toilets
First Floor	Offices, classroom, toilets & staffroom

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### 3. WASTE CALCULATION & WASTE MANAGEMENT SYSTEM

#### 3.1 Estimated Garbage & Recycling Generation

Commercial Waste	Total Area	Garbage	FOGO	Commingled Recycling
School Addition	1657 m <sup>2</sup>	0.360	0.220	0.580
<b>Total (m<sup>3</sup>/wk uncompactd)</b>		<b>0.360</b>	<b>0.220</b>	<b>0.580</b>
<b>Total (L/wk uncompactd)</b>		<b>360</b>	<b>220</b>	<b>580</b>

Note: Waste generation rates are based on Sustainability Victoria waste calculator.

#### 3.2 Bin Schedule & Collection frequency

Waste Source	Waste Stream	Bin Qty	Bin Litres	Collection Frequency	Area m <sup>2</sup> per Bin
School Addition	Garbage	1	360	1/Weekly	0.36
	FOGO	1	240	1/Weekly	0.52
	Comm. Recycling	1	660	1/Weekly	0.75
	Glass	1	80	1/Weekly	0.20
<b>Total Net Bin Storage Area (excludes circulation)</b>					<b>1.83 m<sup>2</sup></b>

Note:

- Developer shall provide the bins either purchased from a supplier or leased from the collection contractor.
- Subject to stakeholders' preference/capability (and as built constraints), bin sizes and quantities can be changed. Also, recyclables can be either commingled or split into bins for separate recycling streams.

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#### 3.3 Collection Services

Collection of waste will be undertaken by the private contractor within school premises. No new private contractor will be used as there is already a current waste arrangement)

#### 3.4 Location, Equipment & System used for managing waste

The waste management system is summarised as follows:

- Tenancy receptacles at work/amenity areas
- Collection bins (Kept within the bin area)
- The bin area will be screened.

The waste-streams are listed below:

**Garbage:** For collection purposes, garbage shall be stored within collection bins.

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**Recycling:** All recyclables shall be commingled into one type of collection bin (glass, steel, aluminium, PET, HDPE containers and paper/cardboard)

**Garden Waste:** All garden waste is to be removed by the gardening contractors at the time of the garden maintenance.

**Compost:** At this development, composting is considered impractical as there would be minimal onsite demand for compost.

**Other Waste Streams:** The disposal of hard/electronic/liquid waste and home detox (paint/chemicals), etc shall be organised with the assistance of the operator and the appropriate contractor.

**E-Waste:** Occupants will be required to dispose of their E-waste at their nearest drop-off point. Nearest e-waste recycling drop-off point can be found on Planet Ark's Recycling Near You at: <https://recyclingnearyou.com.au/electrical> .

The bins shall be stored onsite within the bin area which is sufficient to accommodate the garbage & recycling bins specified in this report. However, should the proposed waste system fail to cope, the operator shall make the necessary operational adjustments

## Bin Details

Capacity (litres)	Height (mm)	Depth (mm)	Width (mm)	Empty Weight (Kg)	Average * Gross Weight (Kg)
80	770	700	480	6	20
240	1040	640	570	13	45
360	1100	770	680	20	45
660	1215	560	1340	50	100

Note:

- \* = Average Gross Weight is based on domestic waste studies. More weight expected for wet or compacted waste

## AS 4123.7-2006 Plastic Bin Colour Coding

Bin	Garbage	FOGO	Recycling
<b>Lid colour</b>	Red	Green	Yellow/Blue
<b>Body colour</b>	Green	Green	Green

Note: For private bins, AS4123.7 bin colours can be adopted. Private bins shall be labelled to identify the waste generator and site address.

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## 4. ACCESS TO WASTE FACILITIES

### Commercial tenants' Access

A waste contract already exists for the school and will incorporate the waste arrangement for the proposed building.

Staff and Students shall dispose their waste into collection bins located throughout the development

### Contractor's Access and collection arrangement

- A private contractor shall collect waste within school premises using current waste arrangement.
- A dedicated staff shall transfer bins/waste between the development and the bin enclosure (based on current waste arrangement) in coordination with truck arrival (bins shall not be left on the street longer than necessary).
- For improved safety and so as not to affect traffic flow, waste collections and bin transfer will be carried-out during off-peak traffic periods. Waste shall be between the following hours:
  - Monday to Saturday – 10.00am and 3.00pm; and
  - Sundays and Public Holidays – 10.00am and 3.00pm

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## 5. AMENITY

### 5.1 Noise Minimisation

- Collection bins shall feature a plastic lid and body with rubber castors for quiet rolling during transfers.
- Local laws shall be observed for all operations in public areas and roads.

### 5.2 Ventilation, vermin-prevention & washing

Waste areas will feature:

- Ventilation in accordance with Australian Standard AS1668
- All bins have secure fitting lids that are vermin proof
- Impervious flooring (smooth, slip-resistant and appropriately drained)
- For hygienic reasons, bins will be washed (when required) to remove waste-smear and odour. It is the operator's responsibilities via the body corporate to clean. Appropriate facilities will be provided to facilitate the washing and cleaning of bin)

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### 5.3 Design & Aesthetics of waste storage area

- The design and construction of waste facilities and equipment will conform to the Building Code of Australia, Australian Standards and Local Laws.
- Waste will be placed within the bins and stored in designated onsite areas hidden from external views.
- The facilities will be suitably illuminated.
- Waste facilities will be constructed of durable material and finishes and maintained to ensure that the aesthetic of the development is not compromised

## 6. MANAGEMENT OF WASTE STORAGE FACILITIES

### 6.1 Arrangements for litter reduction

The residents shall be responsible for:

- Preventing overfilled bins, keeping lids closed
- Promoting adequate waste disposal into the bins to avoid waste dumping
- Securing the bin enclosure
- Requiring the collection contractor to clean-up any spillage that might occur when clearing bins

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### 6.2 Protection of Equipment from theft & vandalism

The operator will be responsible to protect the equipment from theft and vandalism.

The following initiative will be including:

- Label the bins according to property address
- Secure the waste storage area (bin enclosure)

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### 6.3 Signage & education on use of services

All bins and bin area will be clearly marked as to their proper use. The operator will provide appropriate signage for the bins and bin storage area. Council can provide appropriate signage design.

Educational material and “house rules” will be provide to users and staff. These will include:

- Advise them to sort and recycle waste with care to reduce contamination of recyclables
- Advise them what type of hard waste is allowed
- Inform them about waste management system and the use/location of associated equipment
- Improve facility management results

### 6.4 Ongoing Management & Maintenance

It is the responsibility of the operator/body corporate to maintain all waste areas and components, to the satisfaction of users, staff and relevant authority.

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

### 6.5 Supplementary information

The operator and waste collector shall observe all relevant OH&S legislation, regulations, and guidelines. The relevant entity shall define their tasks and:

- Comply with Worksafe Victoria's Occupational Health and Safety Guidelines for the Collection, Transport and Unloading of Non-hazardous Waste and Recyclable Materials (June 2003).
- Assess the Manual Handling Risk and prepare a Manual Handling Control Plan for waste and bin transfers (as per regulatory requirements and Victorian COP for Manual Handling).
- Obtain and provide to their staff/contractors equipment manuals, training, health and safety procedures, risk assessments, and adequate personal protective equipment (PPE) to control/minimise risks/hazards associated with all waste management activities.



## 7. CONTACT INFORMATION

The following includes a complimentary listing of collection contractors and equipment suppliers. The stakeholders will not be obligated to procure goods/services from these companies. Northern Environmental Design does not warrant or make representations for the goods/services provided by these suppliers

**WasteWise Environmental** (Private waste collector)

Ph 93591555

**SITA Environmental Solutions**

(Private waste collector)

64-84 Water Close, Hampton Park VIC 3976

Ph 8795 2000

**JJ Richards & Sons Pty Ltd**

(Private waste collector)

50 Elliot Road, Dandenong VIC 3175

Ph 9794 5722

**VISY Waste Management Integrated Solutions**

(Private waste collector)

Lot 2, 46-48 Dohertys Road, Laverton VIC 3025

Ph 9369 7477

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## 8. LIMITATIONS

This waste management plan is based on the following conditions

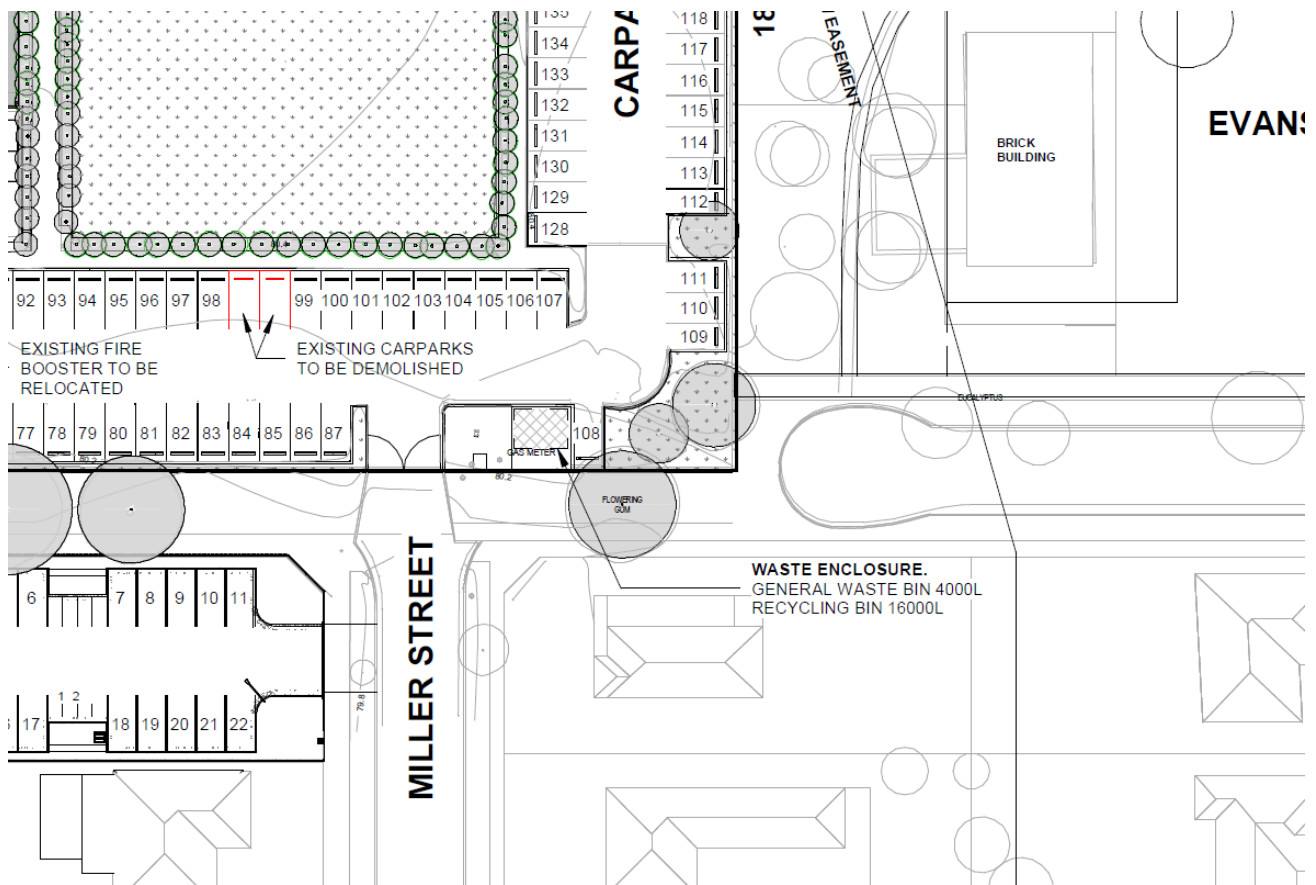
On-going use of the premises. Does not include demolition or construction stages.

Figures and calculations are based on drawings and information supplied by Design Core Architects Pty Ltd.

Waste volume figures are estimates only and will be influenced by the tenant resident and operator's disposition toward waste disposal and recycling and by the development's occupancy rate. The operator shall make adjustments, as required, based on actual waste volumes (if actual waste volume is greater than estimated, then the number of bins can be increased).

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## APPENDIX 1: LOCATION OF BINS



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