



# WASTE MANAGEMENT PLAN

PREPARED FOR  
St George Community Housing Limited (SGCH)

ON BEHALF OF  
Smith & Tzannes Architecture & Urban Planning

Residential Development

87-91 Nuwarra Rd  
Moorebank NSW 2170

25/01/2018

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## REVISIONS

Revision	Copy No.	Date	Prepared by	Reviewed by	Approved by	Remarks
A	1	13/10/2017	H Wilkes	A Armstrong	N Beattie	Draft
B	1	26/10/2017	H Wilkes	A Armstrong	N Beattie	Amendment
C	1	15/12/2017	H Wilkes	A Armstrong	N Beattie	Final
D	1	18/12/2017	H Wilkes	A Armstrong	N Beattie	Updated Plans
E	1	25/01/2018	H Wilkes	A Armstrong	N Beattie	Updated Plans

## DISTRIBUTION LIST

Recipient Name	Company	Revision
Britta Wingender	Smith & Tzannes Architecture	E
Angus Nguyen	St George Community Housing	E
Alex Soovoroff	Signature Project Management	E

## EXECUTIVE SUMMARY

This waste management plan covers the ongoing management of waste generated by the residential development located at 87-91 Nurwarra Rd Moorebank NSW.

Waste audit and management strategies are recommended for new developments to provide support for the building design and promote strong sustainability outcomes for the building. All recommended waste management plans will comply with council codes and any statutory requirements. The waste management plan has three key objectives:

- i. ***Ensure waste is managed to reduce the amount of waste and recyclables to land fill*** by assisting residents to segregate appropriate materials that can be recycled; displaying signage to remind and encourage recycling practices; and through placement of recycling and waste bins in the retail precinct to reinforce these messages.
- ii. ***Recover, reuse and recycle*** generated waste wherever possible.
- iii. ***Compliance*** with all relevant codes and policies.

To assist in providing clean and well-segregated waste material, it is essential that this waste management plan is integral to the overall management of the building and clearly communicated to residents and tenants.

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## GLOSSARY OF TERMS

TERM	DESCRIPTION
<i>Baler</i>	A device that compresses waste into a mould to form bales which may be self-supporting or retained in shape by wire ties and strapping
<i>Chute</i>	A ventilated, essentially vertical pipe passing from floor to floor of a building with openings as required to connect with hoppers and normally terminating at its lower end at the roof of the central waste room(s)
<i>Collection Area/Point</i>	The position or area where waste or recyclables are actually loaded onto the collection vehicle
<i>Compactor</i>	A Machine for compressing waste into disposable or reusable containers
<i>Composter</i>	A container/machine used for composting specific food scraps
<i>Crate</i>	A plastic box used for the collection of recyclable materials
<i>Garbage</i>	All domestic waste (Except recyclables and green waste)
<i>Hopper</i>	A fitting into which waste is placed and from which it passes into a chute or directly into a waste container. It consists of a fixed frame and hood unit (the frame) and a hinged or pivoted combined door and receiving unit
<i>Recycling</i>	Glass bottles and jars – PET, HDPE and PVC plastics; aluminium aerosol and steel cans; milk and juice cartons; soft drink, milk and shampoo containers; paper, cardboard, junk mail, newspapers and magazines
<i>Green</i>	Garden organics such as small branches, leaves and grass clippings, tree and shrub pruning, plants and flowers, and weeds
<i>L</i>	Litre(s)
<i>Liquid Waste</i>	Non-hazardous liquid waste generated by commercial premises that is supposed to be connected to sewer or collected for treatment and disposal by a liquid waste contractor (including grease trap waste)
<i>Mobile Garbage Bin(s) (MGB)</i>	A waste container generally constructed of plastic with wheels with a capacity in litres of 120, 240, 660, 1000 or 1100, 1500 or 2000
<i>Putrescible Waste</i>	Component of the waste stream liable to become putrid. Usually breaks down in a landfill to create landfill gases and leachate. Typically applies to food, animal and organic products.

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## INTRODUCTION

The following waste management plan pertains to the residential development located at 87-91 Nurwarra Rd Moorebank NSW. This waste management plan is an operational waste management plan and will address the phases of the completed development.

For the purpose of this report the proposed development will consist of:

- One building with 5 levels.
  - 42 units in total.

All figures and calculations are based on area schedules as advised by our client and shown on architectural drawings.

## LIVERPOOL CITY COUNCIL

The assessment of waste volumes is an estimate only and will be influenced by the development's management and occupant's attitude to waste disposal and recycling.

The residential waste and recycling will be guided by the services and acceptance criteria of the Liverpool City Council. The residential waste and recycling will be collected by council.

## OBJECTIVES

- Minimise waste generation and disposal to landfill with careful source separation, reuse and recycling
- Avoid the generation of waste through design, material selection and building practices
- Ensure efficient storage and collection of waste and quality design of facilities

## REQUIREMENTS

Access – Ensure waste systems are easy to use and collection vehicles are able to access buildings to safely remove waste and recycling;

Safety – Ensure safe practises for storage, handling and collection of waste and recycling;

Pollution Prevention – Prevent stormwater pollution that may occur as a result of poor waste storage and management practises;

Noise Minimisation – Provide acoustic insulation to the waste service facilities or residential units adjacent to or above chutes, waste storage facilities, chute discharge, waste compaction equipment and waste collection vehicle access points;

Ecologically Sustainable Development (ESD) – Promote the principles of ESD through resource recovery and recycling leading to a reduction in the consumption of finite natural resources;

Hygiene – Ensure health and amenity for residents, visitors and workers in the Liverpool Council.

Noise minimisation – minimise noise during use by residents and collection of waste and recyclables.



## GENERATED WASTE VOLUMES

The assessment of projected waste volumes is a calculated estimate only and will be influenced by the development's management and occupant's waste disposal and recycling practices.

## CONSTRUCTION AND DEVELOPMENT WASTE

The head contractor will be responsible for removing all construction-related waste offsite in a manner that meets all authority requirements. Please refer to the separate waste management plan submitted for construction waste as part of the Development Application.

## BUILDING MANAGER/WASTE CARETAKER

All waste equipment movements are to be managed by the building manager/cleaners at all times; residents will only transport their waste to their allocated communal waste room.

The building manager/cleaner duties include, but are not limited to, the following:

- Organising, maintaining and cleaning the general and recycled waste holding areas (Frequency will depend on waste generation and will be determined based upon building operation);
- Transporting of bins as required;
- Organising both garbage and recycled waste pick-ups as required;
- Cleaning and exchanging all bins;
- Ensure site safety for residents, children, visitors, staff and contractors;
- Abide by all relevant OH&S legislation, regulations, and guidelines;
- Assess any manual handling risks and prepare a manual handling control plan for waste and bin transfers; and
- Provide to staff/contractors equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management activities

***NOTE:** It is the responsibility of the building manager to monitor the number of bins required for the development. As waste volumes may change according to the development's management and occupants' attitudes to waste disposal and recycling, bin numbers and sizes may need to be altered to suit the building operation.*

## REPORTING

It is recommended that building management ensure that all waste service providers submit monthly reports on all equipment movements and weights of any waste and recycling products removed from the development. Regular reviews of servicing should take place to ensure operational and economic best practise and to assist with sustainability reporting.

## EDUCATION

Building management is responsible for creating and managing the waste management education process.

Educational material encouraging correct separation of garbage and recycling items must be provided to each resident. This should include the correct disposal process for bulky goods (old furniture, large discarded items, etc.) It is recommended that information is provided in multiple languages to support correct practises and minimise the possibility of contamination in the collective waste bins.

It is also recommended that the owners' corporation website contain information for residents to refer to. Information should include:

- Recycling and garbage descriptions (Council provides comprehensive information);
- How to dispose of bulky goods and any other items that are not garbage or recycling; and
- Residents' obligations to WHS and building management.

## RESIDENTIAL WASTE PLAN

Liverpool City Council's *Development Control Plan* has been referenced to calculate the total number of bins required for the residential units. Please note that calculations are based on generic figures; waste generation rates may differ according to the residents' waste management practice.

**Table 1: Calculated Waste Generation – Residential**

	# Units	Waste Calculation (L/unit/week)	Generated Waste (L/week)	Recycling Calculation (L/unit/week)	Generated Recycling (L/week)
	42	120	5040	120	5040
<b>TOTAL</b>	<b>42</b>		<b>5040</b>		<b>5040</b>

## BIN SUMMARY

The following assumptions have been taken into consideration:

- Garbage and recycling are stored in the Communal Waste Room on the Ground Level; and
- Number of bins have been rounded up for best operational outcome.

Using the assumptions stated, the required capacity and quantity of garbage and recycling bins have been calculated and tabulated respectively in below using the council's provided bin allocation specifications.

Waste: 8x 660L MGBs Collected **Weekly**  
Recycling: 8x 660L MGBs Collected **Weekly**

**TOTAL BINS: 8 (garbage) + 8 (recycling) = 16 x 660L MGBs**

NOTE: Subject to the stakeholders preference/capability (and as built constraints), bin sizes and quantities may be changed. As waste volumes may change according to the development's type, bin numbers and collection frequencies may be altered to suit the building operation.

## WASTE MANAGEMENT

The waste is to be disposed of in 660L MGB and recycling is to be disposed of in 660L MGBs located in the communal residential waste room on the Ground Level. The occupants will be responsible for emptying their waste and recycling into the appropriate bins.

The distance from each unit to the communal waste area does not exceed 30m. (See APPENDIX A.1– Ground Level Communal Waste Rooms)

Council will service the bins from the kerbside of Nurwarra Rd

## WASTE HANDLING

### WASTE

All residents of each building will be supplied with a collection area in each unit (generally in the kitchen, under bench or similar alternate area) to deposit garbage and collect recyclable material suitable for one days storage. Residents should wrap or bag their waste. Bagged waste should not exceed 3kg in weight or 35cm x 35cm x 35cm in dimension.

### RECYCLING

***Recycling must not be bagged.*** It is recommended that residents use a crate or dedicated bin for collecting recyclables within the allocated residential space provided to ensure correct separation.

### TEMPORARY STORAGE OF BULKY GOODS

Council states that a room or caged area must be allocated for the storage of discarded residential bulky items. The allocated space must be a minimum of 6m<sup>3</sup> with a minimum height of 2m. This area should be made available close to the collection area. It is envisaged that bulky goods will be managed by the appointed waste caretaker/s. Residents will be required to liaise with building management regarding all bulky goods movements.

It is recommended that donations to charitable organisations be encouraged. Clean, sound furniture and household goods etc. are highly sought after to provide for the disadvantaged. Donations will be arranged with the assistance of the building manager/caretaker.

### OTHER WASTE STREAMS

Disposal or recycling of electronic, liquid waste and home detox (paint/chemicals etc.) will be organised with the assistance of the building caretaker. These items must not be placed in waste or recycling bins due to safety and environmental factors. Recyclable electronic goods include batteries, equipment contained printed circuit boards, computers, televisions, fluorescent tubes and smoke detectors.

Residents should be directed to Council's comprehensive website for further information.

### COMPOSTING

A space for composting and worm farming is recommended to be made available for all residents in a communal facility or in small private courtyards (see APPENDIX C.2 for Typical Worm Farm

*Specifications*). Residents may also choose to purchase and install apartment style compost bin where practical and self-manage these systems (*see APPENDIX C.3 and APPENDIX C.4 for Typical Compost Bins*). Two systems have been included for consideration however there are a variety of compost systems available at hardware stores.

## COMMON AREAS

The lobbies and circulation areas will be supplied with suitably branded waste and recycling bins, where considered appropriate. Building management will monitor use and ensure bins are exchanged and cleaned. These areas generate negligible waste however garbage and recycling receptacles should be placed in convenient locations.

## GREEN WASTE

If green waste is generated by the buildings landscaped areas, it will be collected and removed from site by the maintenance contractor during scheduled or arranged servicing of these areas.

## WASTE ROOM AREAS

The Communal Waste Room must hold all of the waste and recycling bins required weekly. This room must be large enough so that all bins can be safely accessed at all times. This room must also be easily accessible to all residents and residents must not walk more than 30m from their unit to dispose of their waste and recycling. A bin wash down area is provided in this area (see APPENDIX A.1).

The areas allocated for Communal Residential Waste Room and Bulky Goods Room are detailed in Table 2 below.

**Table 2:** *Waste Room Areas*

Location	Waste Room Type	Equipment	Estimated Area (m <sup>2</sup> )
Ground Level	Communal Waste Room	8x 660L MGBs (waste) 8x 660L MGBs (recycling)	31
Ground Level	Bulky Goods Room		5

## COLLECTION OF WASTE

### RESIDENTIAL

Council will collect the residential waste and recycling.

On collection days, the building manager will present the bin on the kerbside of Nuwarra Rd.

The collection vehicle will service the bins from the kerbside.

After servicing is complete, the building manager will return the bin to the waste room as soon as possible, on the same day as servicing. The bins will be return to the arrangement where all bins are accessible at all times.

### COLLECTION AREA

The collection areas will need to be reviewed by a traffic consultant to confirm that collection can occur the waste from the kerbside of Nurwarra Rd. This information and supporting drawings will be provided separate to this report.

## GARBAGE ROOMS

### CONSTRUCTION REQUIREMENTS

The garbage room will be required to contain the following facilities to minimise odours, deter vermin, protect surrounding areas, and make it a user-friendly and safe area:

- Waste room floor to be sealed with a two pack epoxy;
- Waste room walls and floor surface is flat and even;
- All corners coved and sealed 100mm up, this is to eliminate build-up of dirt;
- For residential: a hot and cold water facility with mixing facility and hose cock must be provided for washing the bins;
- Any waste water discharge from bin washing must be drained to sewer in accordance with the relevant water board. (Sydney water);
- Tap height of 1.6m;
- Storm water access preventatives (grate);
- All walls painted with light colour and washable paint;
- Equipment electric outlets to be installed 1700mm above floor levels;
- The room must be mechanically ventilated;
- Light switch installed at height of 1.6m;
- Waste rooms must be well lit (sensor lighting recommended);
- Optional automatic odour and pest control system installed to eliminate all pest types and assist with odour reduction – this process generally takes place at building handover – building management make the decision to install;
- All personnel doors are hinged and self-closing;
- Waste collection area must hold all bins – bin movements should be with ease of access;
- Conform to the building code of Australia, Australian standards and local laws; and
- Childproofing and public/operator safety shall be assessed and ensured

### SIGNAGE

The building manager/caretaker is responsible for waste room signage including safety signage (see *APPENDIX B.2*). Appropriate signage must be prominently displayed on walls and above all bins, clearly stating what type of waste or recyclables is to be placed in the bin underneath.



## VENTILATION

Waste and recycling rooms must have their own exhaust ventilation system either;

- Mechanically - exhausting at a rate of 5L/m<sup>2</sup> floor area, with a minimum rate of 100L/s minimum; or
- Naturally - permanent, unobstructed, and opening direct to the external air, not less than one-twentieth (1/20) of the floor area

Mechanical exhaust systems shall comply with AS1668 and not cause any inconvenience, noise or odour problem.

## STORM WATER PREVENTION & LITTER REDUCTION

Building management shall be responsible for the following to minimise dispersion of site litter and prevent stormwater pollution to avoid impact to the environment and local amenity:

- Promote adequate waste disposal into the bins;
- Secure all bin rooms (whilst affording access to staff/contractors);
- Prevent overfilling of bins, keep all bin lids closed and bungs leak-free;
- Take action to prevent dumping or unauthorised use of waste areas; and
- Ensure collection contractors clean-up any spillage that may occur when clearing bins

## ADDITIONAL INFORMATION

Transfer of waste and all bin movements require minimal manual handling therefore the operator must assess manual handling risks and provide any relevant documentation to building management. If required, a bin-tug, trailer or tractor consultant should be contacted to provide equipment recommendations. Hitches may require installation to move multiple bins to the collection area. Council must be informed of any hitch attachments required to be installed on bins.

## LIMITATIONS

The purpose of this report is to document a Waste Management Plan as part of a development application and is supplied with the following conditions:

- Drawings, estimates and information contained in this waste management plan have been prepared by analysing the information, plans and documents supplied by you and third parties including Council and government information. The assumptions based on the information contained in the WMP is outside the control of EFRS;
- The figures presented in the report are an estimate only – the actual amount of waste generated will be dependent on the occupancy rate of the building/s and waste generation intensity as well as the building managements approach to educating residents and tenants regarding waste management operations and responsibilities;
- The building manager will make adjustments as required based on actual waste volumes (if waste is greater than estimated) and increase the number of bins and collections accordingly;
- The report will not be used to determine or forecast operational costs or prepare any feasibility study or to document any safety or operational procedures;
- The report has been prepared with all due care however no assurance or representation is made that the WMP reflects the actual outcome and EFRS will not be liable to you for plans or outcomes that are not suitable for your purpose, whether as a result of incorrect or unsuitable information or otherwise;
- EFRS offer no warranty or representation of accuracy or reliability of the WMP unless specifically stated;
- Any manual handling equipment recommended should be provided at the recommendation of the appropriate equipment provider who will assess the correct equipment for supply;
- Design of waste management chute equipment and systems must be approved by the supplier.

## USEFUL CONTACTS

Elephants Foot Recycling Solutions does not warrant or make representation for goods or services provided by suppliers.

### **Liverpool City Council Customer Service**

Phone: 1300 362 170

Email: [icc@liverpool.nsw.gov.au](mailto:icc@liverpool.nsw.gov.au)

### **SULO MGB (MGB, Public Place Bins, Tugs and Bin Hitches)**

Phone: 1300 364 388

### **CLOSED LOOP (Organic Dehydrator)**

Phone: 02 9339 9801

### **ELECTRODRIVE (Bin Mover)**

Phone: 1800 333 002

Email: [sales@electrodrive.com.au](mailto:sales@electrodrive.com.au)

### **RUD (Public Place Bins, Recycling Bins)**

Phone: 07 3712 8000

Email: [Info@rud.com.au](mailto:Info@rud.com.au)

### **CAPITAL CITY WASTE SERVICES**

Phone: 02 9359 9999

### **REMONDIS (Private Waste Services Provider)**

Phone: 13 73 73

### **SITA ENVIRONMENTAL (Private Waste Services Provider)**

Phone: 13 13 35

### **NATIONAL ASSOCIATION OF CHARITABLE RECYCLING ORGANISATIONS INC. (NACRO)**

Phone: 03 9429 9884

Email: [information@nacro.org.au](mailto:information@nacro.org.au)

### **PURIFYING SOLUTIONS (Odour Control)**

Phone: 1300 636 877

Email: [sales@purifyingsolutions.com.au](mailto:sales@purifyingsolutions.com.au)

### **Elephants Foot Recycling Solutions (Chutes, Compactors and eDiverter Systems)**

44 – 46 Gibson Avenue

Padstow NSW 2211

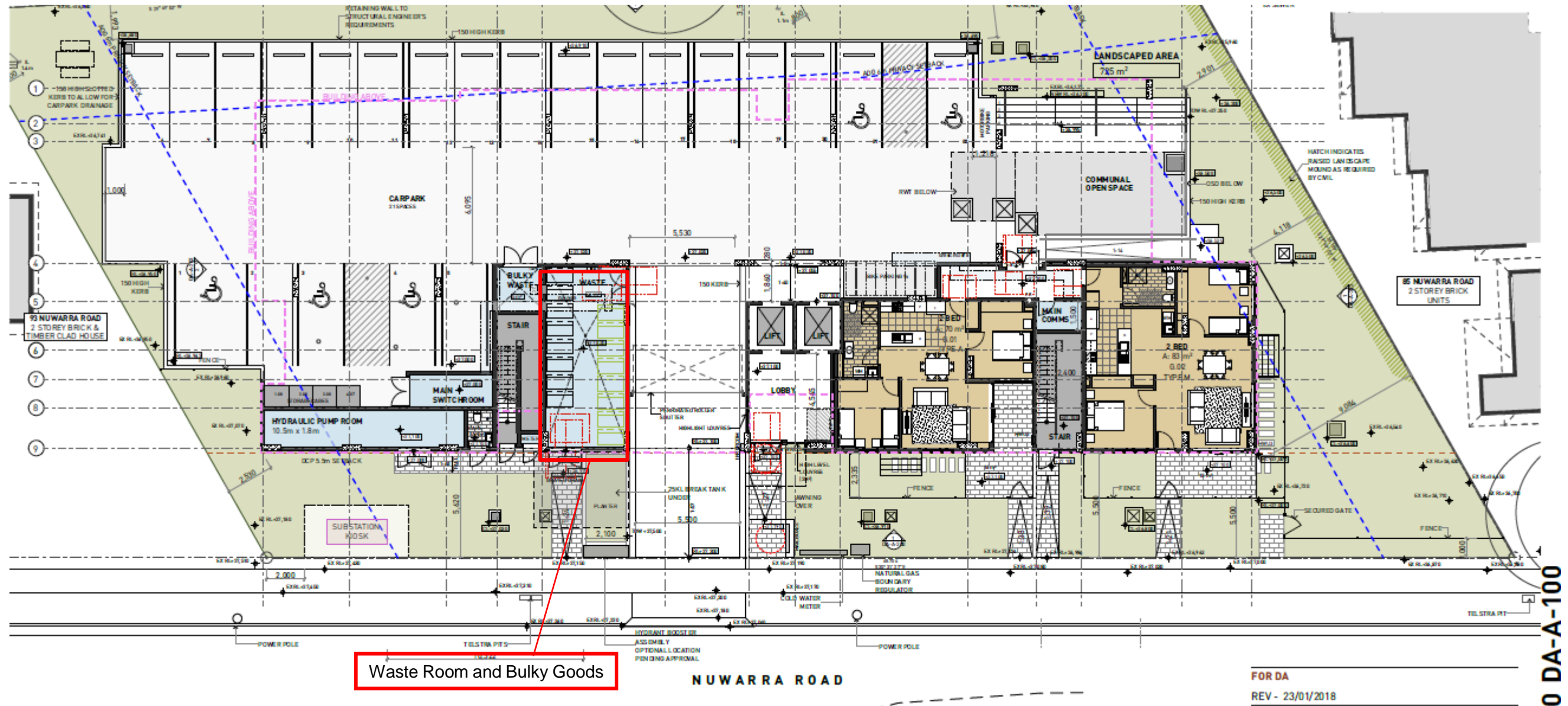
Free call: 1800 025 073

Email: [natalie@elephantsfoot.com.au](mailto:natalie@elephantsfoot.com.au)

## APPENDICES

### APPENDIX A DRAWING EXERPTS

#### APPENDIX A.1 GROUND LEVEL COMMUAL WASTE ROOM AND BULKYGOODS ROOM



Source: Smith and Zannes, 87-91 Nurwarra Rd Moorebank, Level 0 (Ground Level), Drawing No SD-A-SK2001 Jan2018

## APPENDIX B LIVERPOOL CITY COUNCIL SPECIFICATIONS

### APPENDIX B.1 BIN DIMENSIONS AND SPECIFICATIONS

Bin Types	Bin Allocation for Proposed Units- Weekly Service	Bin Allocation for Proposed Units- Twice weekly Service	Truck Required To Service Bin
240 litre mobile bin*	1 per 2 units	1 per 4 units	Side lift
360 litre mobile bin**	1 per 3 units	1 per 6 units	Side lift
660 litre bulk plastic bin	1 per 6 units	1 per 12 units	Rear Lift
1100 litre bulk plastic bin	1 per 9 units	1 per 18 units	Rear Lift
1m3 metal bin	1 per 8 units	1 per 16 units	Front lift
1.5m3 metal bin	1 per 13 units	1 per 26 units	Front lift
3 m3 metal bin	1 per 25 units	1 per 50 units	Front lift
4.5m3 metal bin	1 per 38 units	1 per 76 units	Front lift

Waste Storage area or enclosure must be of sufficient size to cater for the required number of bins. Below are the dimensions and footprint for each type of bin available. When designing waste storage areas, consideration needs to be also made for accessing and manoeuvring of bins.

Bin Receptacle	Length (mm)	Width (mm)	Height (mm)	Bin Footprint (m <sup>2</sup> /bin)
140L	640	535	920	0.27
240L	730	580	1060	0.42
360L	865	650	1100	0.42
660L	1420	780	1210	1.16
1100L	1420	1100	1270	1.71
1m <sup>3</sup>	1740	1100	1100	0.99
1.5m <sup>3</sup>	2040	1250	1220	1.46
3m <sup>3</sup>	2040	1650	1590	2.10
4.5m <sup>3</sup>	2040	1995	1830	3.20

## APPENDIX B.2 SIGNAGE FOR WASTE & RECYCLING BINS

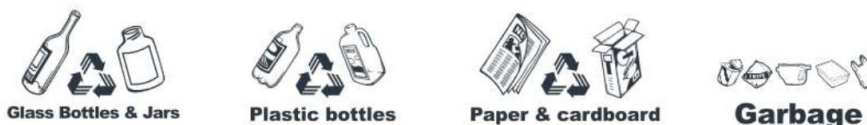
### WASTE SIGNS

Signs for garbage, recycling and organics bins should comply with the standard signs promoted by the Department of Environment and Heritage.

Example wall posters



Example bin lid stickers



### SAFETY SIGNS

The design and use of safety signs for waste rooms and enclosures should comply with AS1319 Safety Signs for Occupational Environment. Safety signs should be used to regulate and control safety behaviour, warn of hazards and provide emergency information, including fire protection information. Below are some examples. Each development will need to decide which signs are relevant for its set of circumstances and service provided.

Examples of Australian Standards:



Australian Standards are available from the SAI Global Limited website ([www.saiglobal.com](http://www.saiglobal.com)).

Source: *Better Practice Guide to Waste Management in Multi-Unit Dwellings*, 2008, DECC

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Offices in Victoria & Queensland – **Toll Free:** 1800 025 073

## APPENDIX B.3 TYPICAL COLLECTION VEHICLE INFORMATION

Vehicle	Length	Width	Height	Servicing height	Weight (loading)	Turning Radius
Side	9.5m	2.5m	3.5m	3.5m	23.0t	Kerb to kerb 10.3m Wall to Wall 11.0m
Rear	9.9m	2.5m	3.4m	3.4m	22.5t	Kerb to kerb 10.5m Wall to Wall 11.5m
Front	10.2m	2.5m	4.3m	6.4m	27.5t	Kerb to kerb 12.3m Wall to Wall 13.2m



## APPENDIX C WASTE MANAGEMENT EQUIPMENT SPECIFICATIONS

### APPENDIX C.1 TYPICAL BIN MOVER



#### Typical applications:

- Move trolleys, waste bin trailers and 660litre/1100 litre bins up and down a ramp incline. Ideal for Apartment Buildings (to move waste bins located at a basement level to road level).
- Quiet, smooth operation with zero emissions and simple to use, no driver's licence required

#### Features:

- Up to 1 Tonne on a ramp surface (depending on ballast and incline)
- Anti-rollback system on slopes
- Foot print: 1548L x 795W x 1104H (handle in the drive position)
- Pin Hitch is standard however alternate hitching options may be available to suit your specific application (e.g. tow ball)

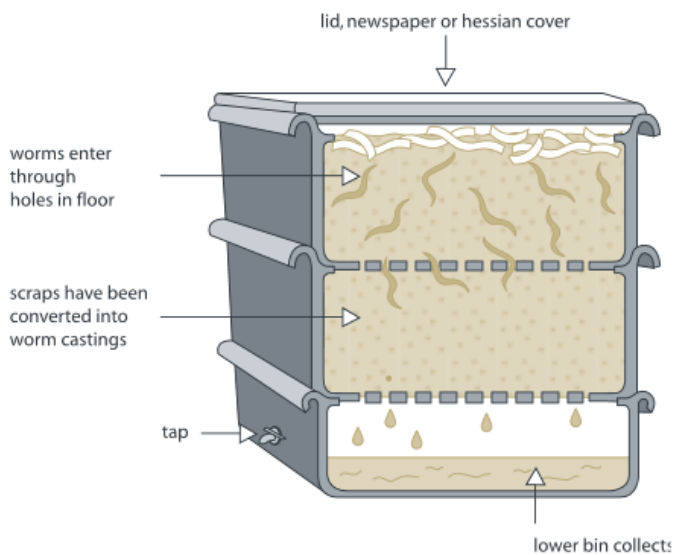
#### Safety Features:

- Intuitive paddle lever control
- Stops and repels the unit if activated when reversing.
- Site assessment recommended to assess ramp incline steepness (*See Useful Contacts*)



## APPENDIX C.2 TYPICAL WORM FARM SPECIFICATIONS

### Worm farms



Space requirements for a typical worm farm for an average household:

Height – 300mm per level

Width – 600mm

Length – 900mm

There are many worm farm arrangements.  
The above dimensions are indicative only.

SOURCE: *Department of Environment and Climate Change NSW 2008, Better Practice Guide for Waste Management in Multi-Unit Dwellings*

### APPENDIX C.3 TYPICAL APARTMENT STYLE COMPOST BINS

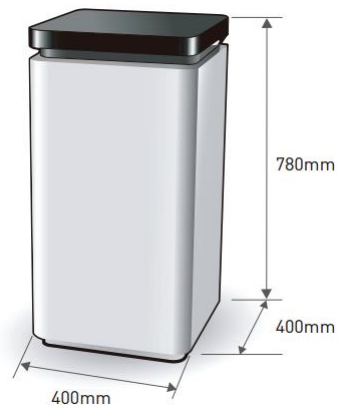


Apartment Style Compost bin – available from hardware stores

Suitable for:

- Vegetables
- Coffee grounds and filters
- Tea and tea bags
- Crushed eggshells (but not eggs)
- Nutshells
- Houseplants
- Leaves
- Cardboard rolls, cereal
- Boxes, brown paper bags
- Clean paper
- Shredded newspaper
- Fireplace ashes
- Wood chips, sawdust,
- Toothpicks, burnt matches
- Cotton and wool rags
- Dryer and vacuum cleaner lint
- Hair and fur
- Hay and straw

## APPENDIX C.4 ELECTRIC ORGANIC COMPOST BIN



### Product Specifications

Decomposition Method	Fermentation by microorganisms
Decomposition Capacity	2 metric tonnes per year* (4 kg per day*)
Rating	220–240 V 50/60 Hz – 1.1 A
Decomposition Time	24 hrs
Operating Temperature	0C and 40C.**
Deodorisation Method	Nano-Filter system
Maximum Power	210 W
Power Usage	Average 1 kwh per day
Weight	21 kgs
External Dimensions	w 400 mm d 400 mm h 780 mm

\* Food Waste Handling Capacity – based on an optimal operating environment.

\*\* Ambient temperature range of area where unit may be installed.

SOURCE: *Closed Loop Domestic Composter* – See Useful Contacts