



Liverpool Boys and Girls High School Upgrade Project  
Forbes St, Liverpool, NSW

**OPERATIONAL WASTE MANAGEMENT PLAN**

4/03/2025  
Report No. 5310  
Revision D

Client

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**School Infrastructure NSW (SINSW)**

<https://education.nsw.gov.au/>

Architect

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**NBRS Architecture**

<https://nbrs.com.au/>

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## GLOSSARY OF ABBREVIATIONS AND TERMS

TERM	DESCRIPTION
<i>Bin Lifter</i>	A device used to mechanically lift bins for the purpose of emptying them into larger bins and/or compactors.
<i>Bin Mover</i>	Either a handheld device (commonly referred to as a bin tug) or a ride-on device (typically a tractor or Class C vehicle with an attached bin trailer) used to facilitate the movement of bins across long distances or up ramps
<i>Bulk Bins</i>	Containers with a capacity greater than 1100L designed to be collected by a front-loading vehicle
<i>Bulky Waste</i>	Recycling items that are too large to be deposited into bins, including furniture, whitegoods, electronics and mattresses
<i>Collection Area/Point</i>	Designated area or point where bins are loaded onto the collection vehicle for servicing
<i>Comingled Recycling</i>	Waste stream for the recycling of plastic bottles, other plastics, paper, glass and metal containers
<i>Communal Bin Room</i>	A central, shared bin room accessible to all residents or staff to dispose of their waste stream
<i>DA</i>	Development Application
<i>DCP</i>	Development Control Plan
<i>EPA</i>	Environment Protect Authority
<i>FOGO</i>	Food Organics and Garden Organics
<i>General Waste</i>	All non-recyclable and non-hazardous waste that is sent to landfill
<i>HRV</i>	Heavy Rigid Vehicle
<i>Kerbside Collection</i>	A collection arrangement whereby bins are presented in a single row along the kerb and serviced by a collection vehicle on the street.
<i>L</i>	Litre
<i>LEP</i>	Local Environmental Plan
<i>Mobile Bins</i>	Containers with a capacity up to and including 1100L designed to be collected by a rear-loading vehicle
<i>Onsite Collection</i>	A collection arrangement whereby all bins are serviced by a collection vehicle within the property boundary, either in the building's basement or at grade and off-street.
<i>Owners Corporation</i>	An organisation or group of persons that is identified by a particular name and that acts, or may act, as an entity
<i>Paper/ Cardboard Recycling</i>	Waste stream for the recycling of paper and cardboard only.
<i>Recycling</i>	Waste stream that combines all recycling, including comingled recycling, paper/cardboard and metals.

<i>Source Separation Receptacles</i>	Communal containers used throughout the development for the day-to-day disposal of different waste streams
<i>Waste Stream</i>	A classification used to describe waste of a particular type (eg. food waste stream)
<i>WHS</i>	Workplace Health and Safety

## 1.0 ACKNOWLEDGEMENT OF COUNTRY

Elephants Foot Consulting (EFC) acknowledges that every project we work on takes place on First Peoples land. We recognise Aboriginal and Torres Strait Islander People as Traditional Custodians of this land. We pay respect to ancestors and Elders, past and present.

## 2.0 INTRODUCTION

This Operational Waste Management Plan has been prepared by Elephants Foot Consulting on behalf the NSW Department of Education (the **Applicant**) to assess the potential environmental impacts that could arise from the redevelopment of the Liverpool Boys High School and Liverpool Girls High School, at 18 Forbes Street, Liverpool NSW, 2170 (the **site**).

This report has been prepared to detail the operational waste management strategy for the school once operational.

This report accompanies a Review of Environment Factors that seeks approval for redeveloping the Liverpool Boys and Liverpool Girls High Schools into a single co-educational school, including:



- Construction and operation of a six-storey school building, including school hall and gymnasium;
- Associated parking and building services;
- Tree removal;
- Associated landscaping and play spaces;
- Augmentation of service infrastructure; and
- Associated off-site infrastructure works to support the school, including (but not limited to) services, kiss and drop point and pedestrian crossings.

Refer to the Review of Environmental Factors prepared by Ethos Urban for a full description of works.

### 2.1 SCOPE OF REPORT

This OWMP only applies to the **operational** phase of the proposed development; therefore, the requirements outlined in this OWMP must be implemented during the operational phase of the site and may be subject to review upon further expansion of, and/or changes to the development.

It is vital that this OWMP is integrated into the overall management of the building and is clearly communicated to all relevant stakeholders.

The waste management of the **construction** and **demolition** phases of the development are not addressed in this report. A construction and demolition WMP has been provided separately.

## 2.2 STATEMENT OF SIGNIFICANCE

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed development, it is determined that:

- The extent and nature of potential impacts are low, and will not have significant adverse effects on the locality, community and the environment;
- Potential impacts can be appropriately mitigated or managed to ensure that there is minimal effect on the locality, community.

## 2.3 REF DELIVERABLE REQUIREMENT REPORTING

The following table identifies the relevant REF items and where these are addressed in this report and the accompanying Construction and Demolition Waste Management Plan:

*Table 1: REF Requirements – Waste Management*

REF Requirement	Relevant Section of Report
Has a preliminary Operational Waste Management Plan been prepared to inform the REF that considers: <ul style="list-style-type: none"> <li>• the likely type and volume of waste generated by the activity?</li> </ul>	Section 6 & section 8 of this OWMP
<ul style="list-style-type: none"> <li>• opportunities to reuse and recycle waste in order to reduce waste sent to landfill?</li> </ul>	Section 6.5.5 of this OWMP
<ul style="list-style-type: none"> <li>• set out measures to handle and dispose of the waste including the number of bins, siting and size of the waste storage area, and truck access arrangements (including swept path diagrams to demonstrate access can be achieved in a forward direction)?</li> </ul>	Section 6, and section 13 of this OWMP
<ul style="list-style-type: none"> <li>• Council's waste management policies, if applicable?</li> </ul>	Section 4 of this OWMP
<ul style="list-style-type: none"> <li>• Conclude that appropriate arrangements can be put in place such that there would not be likely to have significant environmental affects?</li> </ul>	Section 2.2 of this OWMP
Does the REF summarise outcomes of the above and incorporate any mitigation measures identified in the above documents	Section 14 of this OWMP



## 2.4 REPORT CONDITIONS

The purpose of this report is to document an OWMP as part of a Review of Environmental Factors which is supplied by EFC with the following limitations:

- Drawings, estimates and information contained in this OWMP have been prepared by analysing the information, plans and documents supplied by the client and third parties including Council and other government agencies. The assumptions based on the information contained in the OWMP is outside the control of EFC,
- 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 management's approach to educating tenants regarding waste management operations and responsibilities,
- School Management will adjust waste management operations as required based on actual waste volumes (e.g. 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 is made that the OWMP reflects the actual outcome of the proposed waste facilities, services, and operations, and EFC will not be liable for plans or results that are not suitable for purpose due to incorrect or unsuitable information or otherwise,
- EFC offer no warranty or representation of accuracy or reliability of the OWMP unless specifically stated,
- Any manual handling equipment recommended in this OWMP 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,
- EFC cannot be held accountable for late changes to the design after the OWMP has been submitted to Council,
- EFC will provide specifications and recommendations on bin access and travel paths within the OWMP; however it is the architect's responsibility to ensure the architectural drawings meet these provisions,
- EFC are not required to provide information on collection vehicle swept paths, head heights, internal manoeuvring or loading requirements. It is assumed this information will be provided by a traffic consultant,
- Council are subject to changing waste and recycling policies and requirements at their own discretion.
- This OWMP is only finalised once the draft watermark has been removed. If the draft watermark is present, the information in the OWMP is not confirmed.

### 3.0 SITE DESCRIPTION

The site is located at 18 Forbes Street, Liverpool, within the Liverpool Local Government Area (LGA). The site is legally described as Lot 1 DP1137425 and has a total area of approximately 74,973m<sup>2</sup>.

The site comprises a broadly rectangular portion of land which currently contains the existing Liverpool Boys High School, Liverpool Girls High School, and the Gulyangarri Public School, which commenced operations in January 2024 and is located to the east of the wider site.

The site's western portion contains Liverpool Boys High School and Liverpool Girls High School. Liverpool Girls High School in the site's southwest comprises three, two-storey buildings. Liverpool Boys High School in the site's northwest, comprises approximately four, two-storey buildings, with adjacent at-grade carparking and various sports courts.

#### 3.1 DEVELOPMENT OVERVIEW

The proposed development falls under the LGA of Liverpool City Council. Liverpool Boys High School and Liverpool Girls High School will merge to create a co-educational institution serving both boys and girls. The new school, Liverpool Boys and Girls High School, is expected to accommodate 2,000 students.

The school is situated adjacent to an existing primary school. The high school and primary school will share a bin area and collection facilities. But the waste operations of each school will be separate and the collection contracts will also be separate.

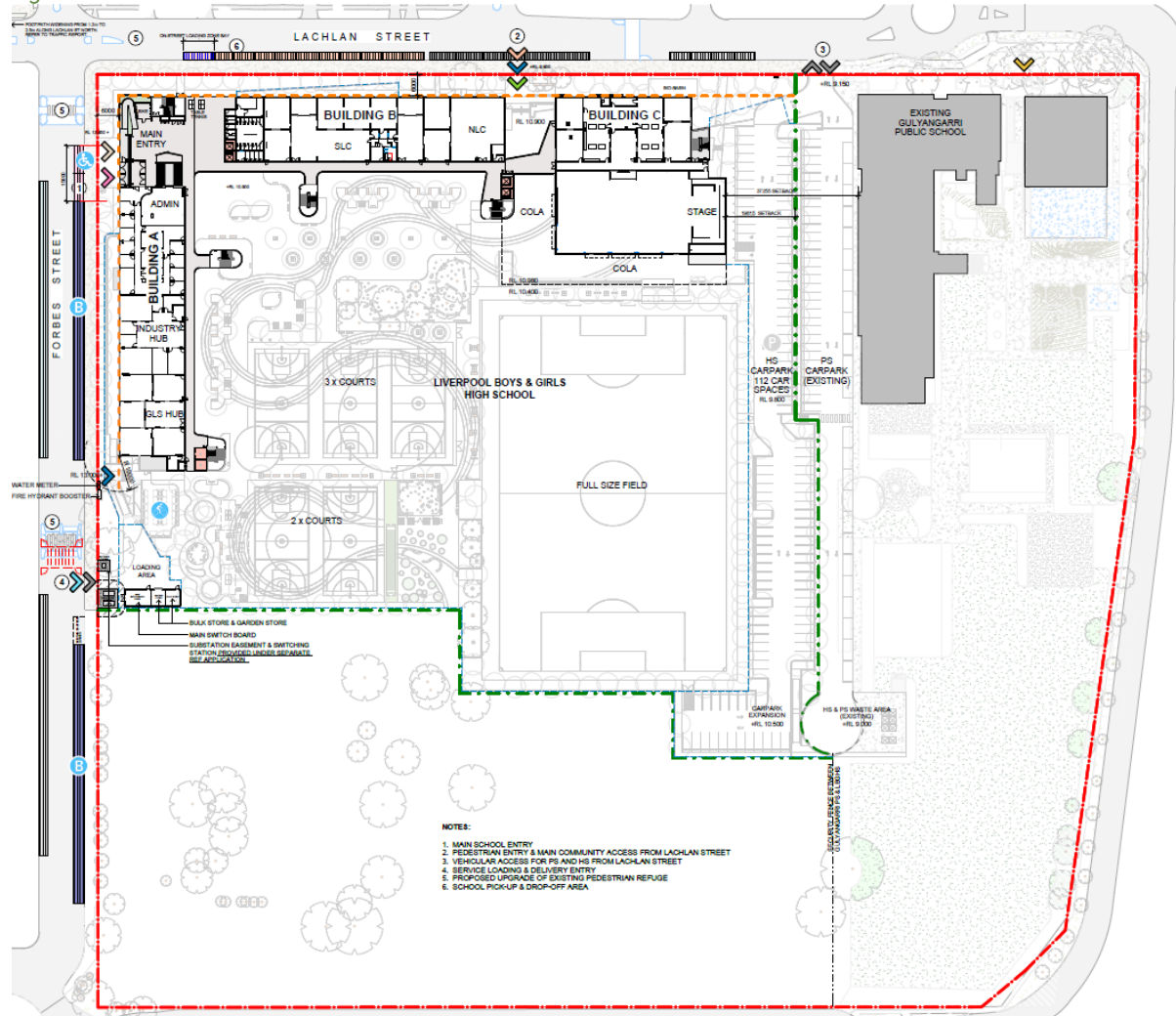
It is understood that Stage 2 will consist of Primary School Expansion, however it will not increase the operational capacity, i.e the number of students attending the school. Therefore the waste areas should remain suitable upon completion of stage 2.

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

## 3.2 SITE LOCATION

The site is located at Forbes St Liverpool, as shown in Figure.1 (boundaries are indicative only). The site has frontages to Lachlan St, Forbes St and Burnside Dr, with vehicle access via Lachlan St.

Figure 1: Site Location



Source: NBR Architects, Drawing LBGHS-NBR-00-ZZ-DR-A-0201 Rev 2, February 2025 – Site Plan

## 4.0 LEGISLATION & GUIDANCE

Waste management and resource recovery regulation in Australia is administered by the Australian Constitution, Commonwealth laws, and international agreements. State and territory governments maintain primary responsibility for controlling development and regulating waste. The following legislation has been enacted in New South Wales and provides the lawful underpinnings of this OWMP.

- NSW Environmental Planning & Assessment Act 1979
- NSW Protection of the Environment Operations Act 1997
- NSW Waste Avoidance & Resource Recovery Act 2001

At the local level, councils or Local Government Areas (LGAs) require OWMPs to be included in new development applications. This OWMP is specifically required by:

- Liverpool Development Control Plan 2008
- Liverpool Local Environmental Plan 2008

The primary purpose of a Development Control Plan (DCP) is to guide the planning process according to the aims of the corresponding local environmental plan (LEP). The DCP must be read in conjunction with the provisions of the relevant LEP.

Information provided in this OWMP comes from a wide range of waste management guidance at the local, state, and federal levels. The primary sources of guidance include:

- NSW Better Practice Guide For Resource Recovery In Residential Developments 2019
- NSW Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012
- NSW Waste Avoidance and Resource Recovery (WARR) Strategy 2014-2021
- NSW Waste Classification Guidelines 2014
- Australia's National Waste Policy 2018

## 5.0 SCHOOL WASTE MANAGEMENT

The following section outlines best practice waste management for the development, including waste generation estimates and waste disposal and collection procedures.

### 5.1 WASTE GENERATION ESTIMATES

The NSW EPA's *Better Practice Guide for Resource Recovery in Residential Developments* (2019) has been referenced to calculate the total number of bins required for the school. Calculations are based on generic general waste and recycling generation rates. It is assumed that the waste and recycling generation rates for Secondary Schools from the NSW EPA's *Better Practice Guide for Resource Recovery in Residential Developments* for educational facilities are in error and should actually reflect weekly generation per student.

The following table shows the estimated volume (L) of general waste and recycling that will be generated by the high school.

Table 2: Estimated General Waste and Recycling Volumes – Secondary School

Name Of Generation Rate	No. of Students	General Waste Generation Rate (L/student/week)	Generated General Waste (L/week)	Recycling Generation Rate (L/student/week)	Generated Recycling (L/week)
Secondary School	2000	20	40000	15	30000
Bins & Collections		General Waste Bin Size (L)	1100	Recycling Bin Size (L)	1100
		General Waste Bins per Week	36.4	Recycling Bins per Week	27.3
		General Waste Collections per Week	3	Recycling Collections per Week	3
		<b>Total General Waste Bins Required</b>	<b>13</b>	<b>Total Recycling Bins Required</b>	<b>10</b>

## 5.2 SCHOOL BIN SUMMARY

Based on the estimated waste and recycling volumes generated by the high school, the recommended bin quantities and collection frequencies are as follows:

**General Waste:** 13 x 1100L bins collected **3 x weekly**

**Recycling:** 10 x 1100L bins collected **3 x weekly**

Bin sizes, quantities, and/or collection frequencies may be modified by the school manager once the proposed development is operational. School management will be required to negotiate any changes to bins or collections with the collection service provider. Seasonal peak periods should also be considered.

The general waste and general recycling can be further divided into more specific waste and recycling streams to increase recovery. The general waste stream can be separated into landfill waste, food waste and soft plastics recycling. The general recycling can be divided into comingled recycling, glass recycling and refundable containers. It is recommended that the further separation of waste streams is conducted once the site is operational to best reflect the operations of the site and the proportion of each waste stream generated. It is recommended that annual waste audits are conducted to help understand the composition and total volumes of each waste stream generated during operation.

## 5.3 SCHOOL WASTE DISPOSAL PROCEDURES

The waste storage area will be located on the ground level, near the loading area. The Bin Storage Area will contain 1100L mobile garbage bins (MGBs) for the collection of the waste and recycling. Access to this area will be restricted to groundskeepers, waste collection staff, and cleaners. All transportation of waste and recycling must be coordinated with the groundskeeper or cleaners.

In each room and across the campus grounds, appropriately labeled bins of around 20L capacity will be provided for waste and recycling. These bins will be placed in convenient locations, particularly in areas with high waste generation such as the classrooms, offices, restrooms and others. It will be the responsibility of students, staff, and visitors to dispose of

their waste and recycling into the appropriate bins. The groundskeeper and cleaners will monitor the capacity of the bins to prevent overflowing.

The cleaners will circulate throughout the campus after hours and empty the waste and recycling receptacles situated throughout the school. They will then transport the waste and recycling to the bulk bins in the Bin Storage Area and dispose of the waste and recycling into the appropriate bins.

## **5.4 SCHOOL WASTE COLLECTION PROCEDURES**

A private waste contractor will be engaged to service the general waste and recycling bins as per an agreed collection schedule. This report assumes that general waste and recycling are collected three times a week.

On the day of service, a private waste collection vehicle will enter the site from Lachlan St. and park in the loading bay. The collection staff will collect the bins from the Bin Storage Area. Once the bins are serviced, the collection vehicle will exit the site onto Lachlan St in a forward direction.

## **5.5 OTHER SCHOOL WASTE MANAGEMENT CONSIDERATIONS**

Based on operations of the school, the following waste management practices are recommended.

### **5.5.1 WASHROOM FACILITIES**

Washroom facilities should be supplied with collection bins for paper towels (if used). The cleaners will empty the washroom bins as required. Sanitary bins for female restroom facilities must also be arranged with an appropriate contractor.

### **5.5.2 PRINTING & PHOTOCOPYING ROOMS**

It is recommended that rooms designed for printing or photocopying be provided with an area for the interim storage of paper receptacles, as well as separate receptacles for used toner and/or printer cartridges for recycling. The cleaners or nominated staff are responsible for monitoring these receptacles and ensuring that items are collected and recycled by an appropriate contractor.

### **5.5.3 E-WASTE**

E-waste (electronic waste) refers to any equipment containing printed circuit boards. It must not be disposed of in standard garbage or recycling bins as it can be detrimental to the environment. E-waste can contaminate soils, groundwater and the atmosphere if not disposed of correctly.

A 240L MGB will be provided in the office area for the collection of e-waste. E-waste is a waste stream that is generated infrequently. It will be the school managers' responsibility to arrange collections with an appropriate e-waste recycling service when the designated bin is full.

### **5.5.4 BULKY & SPECIAL WASTE**

School management is responsible for managing bulky waste. Staff should contact the School Groundskeeper when there is furniture or other large items that are broken or no longer required. Reusable furniture should be labelled and kept in storage or donated to a charitable

organisation. Non-reusable furniture will be removed from the school ground and disposed of at an appropriate recycling facility.

### 5.5.5 LIQUID WASTE

Liquid wastes such as cleaning products, chemicals, paints, solvents, and motor and cooking oil will be stored in a secure room and enclosed by a low wall intended to contain any liquid spillage or inundation to other areas. Liquid waste will be drained to a grease trap, in accordance with legislation and the requirements of State government authorities and agencies. Further information can be provided by the Services Consultant.

### 5.5.6 PROBLEM WASTE

The school manager is responsible for making arrangements for the disposal and recycling of problem waste streams with an appropriate contractor. Problem wastes cannot be placed in the general waste stream as they can have adverse impacts to human health and the environment if disposed of in landfill. School manager or the groundskeeper must be informed when disposing of problem waste streams.

Problem waste streams include:

- Chemical Waste
- Liquid wastes
- Toner cartridges
- Lightbulbs
- Batteries

### 5.5.7 FUTURE WASTE AND RECYCLING STREAM SEPARATION

To design the Bin Storage Area and waste facilities in the site, all possible waste and recycling streams have been grouped together into 'general waste' and 'general recycling'. This is to ensure the waste facilities have adequate capacity to manage total volumes of waste and recycling streams, regardless of the management of waste and recycling during operation.

Once the school is operational, the school management can choose to separate the general waste stream and the general recycling stream into more specific recyclable waste streams. This allows the site's waste management system to have greater potential to divert waste from landfill and contribute to wider environmental sustainability.

The more waste streams that are separated, the more complex the waste management strategy becomes. In turn, it is likely to increase operational cost, manual input of the caretaker and cleaners as well as the level of engagement required by all stakeholders involved in waste management. Therefore, it is recommended that the decision to separate and manage any additional waste streams comes from the school management, once the school is operational, and is directed by the operational experience and needs of the school.

As identified in NSW Department of Education *Educational Facilities Standards and Guidelines Requirement DG02 (2.7.2)* the waste streams that can be managed at schools are as follows;

- Food Organics and Garden Organics
- Comingled Container Recycling
- Paper & Cardboard Recycling
- Container Deposit Scheme Recycling
- Soft Plastic Recycling
- General Waste



- Other waste streams such as batteries, e-waste, coffee cups

The school management can choose which waste streams are handled in the waste management strategy at any time by assessing the composition of waste and recycling generated in operation as well as the costs/benefits at that time.

The successful separation of the waste streams is significantly impacted by the behaviors of the waste generators and the key personnel who look after the waste management systems. The managers of the waste system will be the school management and grounds keeper.

The following are the key responsibilities required for successful ongoing source separation. These responsibilities should be taken into consideration when assessing whether to introduce the separation and management of more waste streams.

**Responsibilities of the waste stream generator:**

- Correctly identify the waste type.
- Place the waste item into the correct bin.
- Pending on waste item, partially dismantle waste item into different stream types (e.g. empty food waste into organics, lid into recycling and main container into landfill)
- Make sure the recyclables are not contaminated prior to disposing them

**Responsibilities of the key staff managing the waste systems:**

- Provide source separation bins in convenient locations.
- Monitor contamination of waste streams.
- Organize contracts with collection and recycling services of all waste streams.
- Educate waste stream generators on an ongoing basis
- Provide signage on all bins.
- Monitor and correct any issues.
- Implement feedback mechanisms

If any additional waste stream is introduced during operation, the school management would be responsible for setting up and maintaining the waste stream management procedures. Including;

- The provision of appropriate source separation bins around the campus.
- The update all waste related signage and waste management education material.
- The introduction of the collection bins of the waste stream in the Bin Storage Area.
- The reduction to the number of bins (or size of bins) for the general waste or general recycling stream being diverted.
- Engaging a specialist contractor to collect the bins and recycle the waste stream.
- Ensuring the collection timetables minimise conflicts with the loading area.
- Educating all staff and students on the new procedures, including which items are accepted in each bin.
- Establishing a monitoring system for evaluating the effectiveness of the new waste stream management procedures



Separation of food waste and soft plastic recycling streams will reduce the volume of general waste. Therefore, it is assumed that the number of general waste bins would go down by the corresponding number of food waste bins and or/soft plastic bins.

Separation of comingled recycling, paper & cardboard recycling and items refundable under the container deposit scheme will reduce the volume of general recycling. Therefore, it is assumed that the number of general recycling bins would go down by the corresponding number of comingled, paper & cardboard and refundable container bins introduced.

In addition, as identified in *NSW Department of Education's Educational Facilities Standards and Guidelines Requirement DG02 (2.7.2)*, during operation the school management can implement measures to reduce the volumes of waste generated by;

- Examining all processes to determine where wastes are produced and to devise measure for waste prevention or reduction.
- Devising ways of recycling waste with students so they too can share in the savings (for example rewards for students who reduce waste).
- Partnering with other organisations to assist with waste minimisation.
- Keep track of changes and improvements
- Reusing drums, cartridges and containers where possible
- Selling or donating usable waste materials to other organisations.

## 6.0 STAKEHOLDER ROLES & RESPONSIBILITIES

The following table outlines the primary roles and responsibilities of the respective stakeholders:

*Table 3: Stakeholder Roles and Responsibilities*

Roles	Responsibilities
School Management	<ul style="list-style-type: none"> <li>• Coordinate the waste strategy within the site.</li> <li>• Ensure all waste service providers submit monthly reports on all equipment movements and waste quantities/weights.</li> <li>• Organise internal waste audits/visual assessments on a regular basis.</li> <li>• Manage any non-compliances/complaints reported through waste audits.</li> </ul>
School Management or Grounds Keeper	<ul style="list-style-type: none"> <li>• Coordinate general waste and recycling collections</li> <li>• Clean and transport bins as required.</li> <li>• Organise replacement or maintenance requirements for bins.</li> <li>• Organise, maintain and clean bin storage areas.</li> <li>• Prevent storm water pollution by taking necessary precautions (secure bin rooms, prevent overfilling of bins).</li> <li>• Provide staff/contractors with equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management.</li> <li>• Assess any manual handling risks and prepare a manual handling control plan for bin transfers.</li> <li>• Ensure site safety for staff, children, visitors and contractors; and</li> <li>• Ensure effective signage, communication and education is provided to occupants, maintenance staff, and cleaning contractors.</li> <li>• Organise bulky goods collection when required; and</li> <li>• Monitor Electronic waste storage and collection</li> <li>• Investigate and ensure prompt clean-up illegally dumper waste materials.</li> </ul>
Cleaners, Staff and Students	<ul style="list-style-type: none"> <li>• Dispose of all garbage and recycling in the allocated MGBs provided;</li> <li>• Ensure adequate separation of garbage and recycling; and</li> <li>• Compliance with the provisions of Council and the WMP</li> </ul>
Private Waste Collection Contractor	<ul style="list-style-type: none"> <li>• Provide a reliable and appropriate bin collection service.</li> <li>• Provide feedback to school managers regarding contamination of recyclables; and</li> <li>• Work with school managers to customise waste systems where possible.</li> </ul>
Gardening/Landscaping Contractor	<ul style="list-style-type: none"> <li>• Remove all garden organics generated during gardening maintenance activities for recycling at an offsite location.</li> </ul>

## 7.0 SOURCE SEPARATION

Better practice waste management includes the avoidance, reuse, and recovery of unwanted items, which can be achieved through source separation. The table below outlines what is typically included in various waste streams and how they can be managed. Refer to your local council for a list of accepted materials. Planet Ark can be accessed online to find other facilities that recover unwanted items.

*Table 4: Operational Waste Streams*

Waste Stream	Description	Typical Destination	Waste Stream Management
<b>General Waste</b>	The remaining portion of the waste stream that is not recovered for re-use, processing, or recycling. May include soft plastics, food scraps, polystyrene, etc.	Landfill	Waste should be bagged before placing in in designated general waste bins.
<b>Recycling</b>	A mixture of items that are commonly recycled usually segregated through a MRF. Typically include food and beverage containers (e.g. aluminium, glass, steel, hard plastics, cartons). Also included cardboard and paper products.	Resource Recovery Centre	Recycling must not be bagged, and instead should be placed loosely in the designated recycling bins.  Cardboard should be flattened before placing in the designated recycling bin.
<b>Garden Organics</b>	Garden organics consists of unwanted organic materials that are easily biodegradable and/or compostable (e.g. lawn clippings, branches)	Resource Recovery Centre	Landscape Maintenance Contractors will remove the garden organics from site during scheduled maintenance.
<b>Secure Documents</b>	Secure documents are printed paper materials that contain sensitive information.	Recycling Facility	Secure documents are placed in allocated secure document bins. Private contractor removes bins from site.
<b>Electronic Waste (e-waste)</b>	Discarded e-waste, electronic components and materials such as computers, mobile phones, keyboards, etc.	Resource Recovery Centre	A location should be dedicated to the storage of e-waste. When a suitable amount has been accumulated, it is the responsibility of the school management to coordinate the collection of e-waste with a suitable recycling service.
<b>Bulky Waste Items</b>	Items that are too large to place into general rubbish collection. This includes disused and/or broken furniture, mattresses, white goods, etc.	Resource Recovery Centre or Landfill	A location should be dedicated to the storage of bulky waste. When a suitable amount has been accumulated, it is the responsibility of the school management to coordinate the collection of bulky waste with a suitable recycling service.
<b>Sanitary Waste</b>	Feminine hygiene waste generated from female bathrooms.	Incineration or Landfill	Sanitary bins are serviced by sanitary waste contractor.
<b>Other</b>	Other recyclable items that require special recovery may include ink cartridges, batteries, chemical waste, fluorescent tubes, etc.	Resource Recovery Facility	The school management arranges collection by appropriate recycling services when required.

## 8.0 EDUCATION

The school management is responsible for developing and implementing a comprehensive waste management education program. This program will focus on educating staff, cleaners, and students about the importance of proper waste separation and disposal practices.

To support this initiative, educational materials that promote correct sorting of garbage and recycling should be provided to all personnel (staff, cleaners) and students. These resources will include clear guidelines on how to identify recyclable materials and the importance of minimizing contamination in waste and recycling bins.

Additionally, it is recommended that the school explore and adopt programs designed to teach students about recycling and resource recovery. Such programs can integrate hands-on activities, projects, and curriculum components that engage students in sustainable practices. By incorporating these educational initiatives into daily school operations, the overall waste generation can be reduced.

### 8.1 SIGNAGE

Signage and education are essential components to support best practice waste management including resource recovery, source separation, and diversion of waste from landfill.

Signage should include:

- Clear and correctly labelled bins,
- Instructions for separating and disposing of waste items. Different languages should be considered,
- Locations of, and directions to, the waste storage areas with directional signs, arrows, or lines,
- The identification of all hazards or potential dangers associated with the waste facilities, and
- Emergency contact information should there be issues with the waste systems or services in the building.

School management is responsible for waste room signage including safety signage. Appropriate signage must be prominently displayed on doors, walls and above all bins, clearly stating what type of waste or recyclables is to be placed in each bin.

All signage should conform to the relevant Australian Standards.

## 9.0 POLLUTION PREVENTION

School 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:

- Promoting adequate waste disposal into the bins
- Securing all bin rooms (whilst affording access to staff/contractors)
- Prevent overfilling of bins, keep all bin lids closed and bungs leak-free
- Taking action to prevent dumping or unauthorised use of waste areas
- Require collection contractor/s to clean up any spillage when clearing bins

## 10.0 BIN WASHING

The bins will be cleaned by the groundskeeper and/or cleaners periodically to ensure hygiene and minimise odour.

Bin washing can occur within the bin rooms, using the room clean down facilities (i.e tap connection and drain). Alternatively, a specialist bin washing contractor can be engaged to clean the bins to an agreed schedule. The specialist bin contractor would collect the bins from the bin holding area and clean the bins with their specialised vehicle.

## 11.0 BIN MOVING PATHS

Minimal movement of bins is anticipated for this site, as bins are to be collected directly from their storage location. The grounds keeper will be responsible for any transportation of bins that does occur.

The cleaners are responsible for the transportation of bins from their designated operational locations to the collection area when full and returning them once emptied to resume operational use. Typically waste and recycling is transported using trollies containing other cleaning equipment.

Any movement of bins should minimise manual handling where possible, as bins become heavy when full. The school manager must assess manual handling risks and provide any relevant documentation to key personal.

The routes along any bin moving paths should;

- Allow for a continuous route that is wholly within the property boundary.
- Be free from obstruction and obstacles such as steps and kerbs.
- Be constructed of solid materials with a non-slip surface
- Be A minimum of 300mm wider than the largest bin used onsite.
- If bins are moved manually, the route must not exceed a grade of 1:14.
- If a bin moving device is used, the route cannot exceed the maximum operating grade of the device. This is typically a grade of 1:4, however this will vary depending on the model of bin moving device acquired for the site.

## 12.0 WASTE ROOMS

The areas allocated for waste storage and collection areas are detailed in the table below and are estimates only.

To design the school's bin storage area, all possible waste and recycling streams have been grouped together into 'general waste' and 'general recycling', as detailed in the table below. This is to ensure the waste facilities have adequate capacity to manage total volumes of waste and recycling streams, regardless of the management of waste and recycling during operation. At any time during the operation of the school, at the school management's discretion, the waste streams separated from the 'general waste' or 'general recycling' streams can be adjusted general waste and general recycling can be separated into any of the following waste streams:

### General Waste:

- Food waste and Garden Organics
- Soft Plastic Recycling
- Waste (landfill disposal only)

### General Recycling:

- Comingled Container Recycling
- Paper & Cardboard Recycling
- Container Deposit Scheme Recycling

As further separation of waste streams will reduce the volume of general waste or general recycling, it is assumed that the number of general waste bins or general recycling bins would go down by the corresponding number of bins. Thus, the space within the bin storage area required to store the bins should remain consistent.

It is recommended that the High School bins and Primary School bins are physically separated using caging so that only authorised personnel can access the respective bins. This is to ensure that the high school waste streams and primary school waste streams are kept completely separate, and the cost associated with waste management are accurately allocated to each school.

Table 5: Waste Areas

Waste Room Type	Equipment	Estimated Area Required (m <sup>2</sup> )
Bin Storage Area	<p><b><u>High School</u></b>  <b>General waste:</b> 13 x 1100L Bins  <b>Recycling:</b> 10 x 1100L Bins</p> <p><b><u>Primary School</u></b>  <b>General waste:</b> 5 x 1100L Bins  <b>Recycling:</b> 7 x 1100L Bins</p>	>100

The "estimated area required" in the table above has been calculated based on equipment requirements and/or bin dimensions with an additional 90% of bin GFA factored in for

manoeuvrability. Other factors such as the shape of the room, position of the chutes, configuration of the equipment, access needs and position of the door may impact the size of the room required. Thus, a smaller or larger room size may also be suitable for purpose, as long as the room can accommodate the required equipment with adequate access.

The following table provides further waste room requirements.

*Table 6: Waste Room Requirements*

Waste Room Type	Waste Room Requirements
Bin Storage Area	<ul style="list-style-type: none"> <li>• Bins should be arranged so that all bins are accessible. Bins are not to be placed in front of one another or in such a way as to restrict access to the other bins for use.</li> <li>• Rooms must be well ventilated either naturally or mechanically in accordance with AS1668.4.2012</li> <li>• Cleaning facilities such as hose hock and drainage for odour and hygiene control must be provided.</li> <li>• All doorways and passageways facilitating the movement of bins items should be 1.5 times larger than the largest bin. For 1100L bins a doorway width of 1900mm is recommended.</li> </ul>

## 13.0 CONSTRUCTION REQUIREMENTS

Waste Area construction must comply with the minimum standards as outlined in the *Liverpool Development Control Plan 2008*, in order to minimise odours, deter vermin, protect surrounding areas, and make it a user-friendly and safe area.

The *NSW Better Practice Guide For Resource Recovery In Residential Developments (2019)* also states that better practice bin storage areas should achieve more than the minimum compliance requirements, which are as follows:

- Ensuring BCA compliance, including ventilation. Where required, ventilation system must comply with AS1668.4-2012 The use of ventilation and air conditioning in buildings.
- Ensuring storage areas are well lit (sensor lighting preferred) and have lighting available 24 hours a day.
- Provision of bin washing facilities, including taps for hot and cold water provided through a centralised mixing valve. The taps must be protected from bins and be located where they can be easily accessed even when the area is at bin capacity.
- Floor constructed of concrete at least 75mm thick.
- Floor graded so that any water is directed to a sewer authority approved drainage connection to ensure washing bins and/or waste storage areas do not discharge flow into the stormwater drain.
- Provision of smooth, cleanable and durable floor and wall surfaces that extend up the wall to a height equivalent to any bins held in the area.
- Ensuring ceilings are finished with a smooth-faced non-absorbent material capable of being cleaned.
- All surfaces (walls, ceiling and floors) finished in a light colour.

### 13.1 ADDITIONAL CONSIDERATIONS

- Waste room floor to be sealed with a two-pack epoxy;
- All corners coved and sealed 100mm up, this is to eliminate build-up of dirt;
- Tap height and light switch 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 finished floor level;
- Optional automatic odour and pest control system installed
- If 660L or 1100L bins are utilised, 2 x 820mm (minimum) double-doors must be used;
- All personnel doors are hinged, lockable and self-closing;
- Conform to the Building Code of Australia, Australian standards and local laws; and
- Childproofing and public/operator safety shall be assessed and ensured
- 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. Mechanical exhaust systems shall comply with AS1668.4.2012 and not cause any inconvenience, noise or odour problem; or
  - Naturally - permanent, unobstructed, and opening direct to the external air, not less than one-twentieth (1/20) of the floor area.



## 14.0 MITIGATION MEASURES

The following table summarised the mitigation measures related to operational waste management.

Table 7: Operational Waste Mitigation Measures

Project Stage <i>Design (D)</i> <i>Construction (C)</i> <i>Operation (O)</i>	Mitigation Measure	Relevant Section this Operational Waste Management Plan
O	Implement recycling programs to recover valuable materials from waste. Recycling conserves natural resources, reduces energy consumption, and lowers greenhouse gas emissions, helping to create a circular economy.	Section 5 and Section 5.5.7
O	Conduct education program to inform stakeholder about proper waste disposal and the benefits of reducing waste. This is to help the correct implementation of the waste strategy and reduces contamination in recycling streams.	Section 8
O	Schools Management to oversee waste management to ensure proper management and disposal of all waste streams. Effective waste management minimizes environmental contamination.	Section 5, Section 6, Section 7
O	Groundkeeper to minimise dispersion of site litter and prevent stormwater pollution to avoid impact to the environment and local amenity:	Section 9

## 15.0 USEFUL CONTACTS

EFC does not warrant or make representation for goods or services provided by suppliers.

### LOCAL COUNCIL

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Liverpool Council Customer Service      Ph: (02) 8711 7000      E: [lcc@liverpool.nsw.gov.au](mailto:lcc@liverpool.nsw.gov.au)

### PRIVATE WASTE COLLECTION PROVIDER

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Capital City Waste Services	Ph: 02 9599 9999	E: <a href="mailto:service@ccws.net.au">service@ccws.net.au</a>
Sydney Waste	Ph: 02 8661 0031	
Waste Clear	Ph: 1300 525 352	E: <a href="mailto:admin@wasteclear.com.au">admin@wasteclear.com.au</a>

### BIN MOVING DEVICE SUPPLIERS

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Elephants Foot Equipment	Ph: 1300 435 374	E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>
Sitecraft	Ph: 1300 363 152	E: <a href="mailto:sales@sitecraft.com.au">sales@sitecraft.com.au</a>

### BALER SUPPLIERS

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Elephants Foot Equipment	Ph: 1300 435 374	E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>
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### ORGANIC DIGESTERS AND DEHYDRATORS

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Elephants Foot Equipment	Ph: 1300 435 374	E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>
Waste Master	Ph: 1800 614 272	E: <a href="mailto:hello@wastemasterpacific.com.au">hello@wastemasterpacific.com.au</a>

### COOKING OIL CONTAINERS AND DISPOSAL

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Cookers	Ph: 1300 882 299	E: <a href="mailto:info@cookers.com.au">info@cookers.com.au</a>
Auscol	Ph: 1800 629 476	E: <a href="mailto:sales@auscol.com">sales@auscol.com</a>

### ODOUR CONTROL

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Elephants Foot Equipment	Ph: 1300 435 374	E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>
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### SOURCE SPERATION BINS

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Method Recycling	Ph: 0499 890 455
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### BINS AND BIN EQUIPMENT

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Elephants Foot Equipment	Ph: 1300 435 374	E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>
SULO	Ph: 1300 364 388	E: <a href="mailto:sulosales@pactgroup.com">sulosales@pactgroup.com</a>

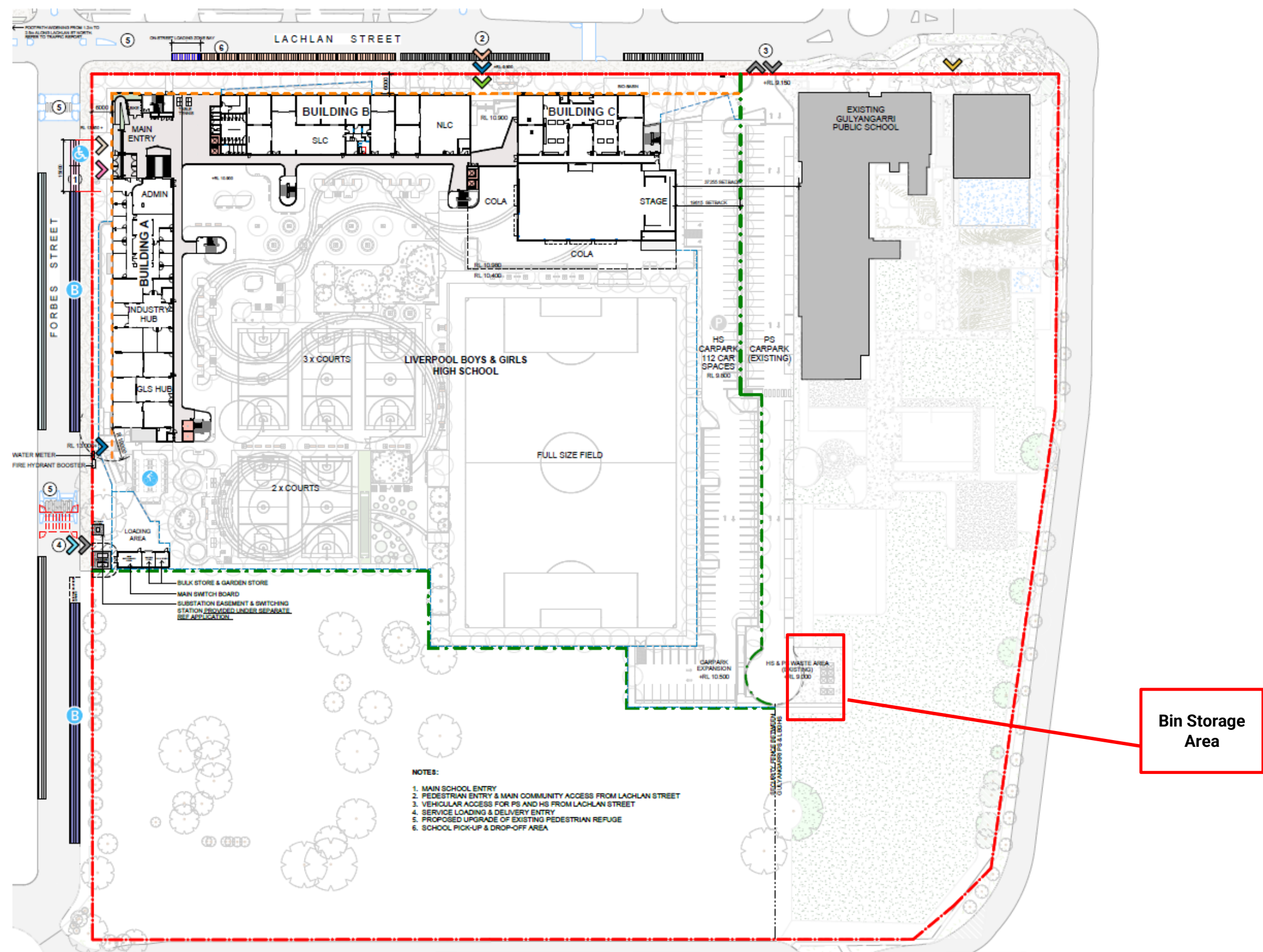
### CHUTES, COMPACTORS AND EDIVERTER SYSTEMS

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Elephants Foot Chute Solutions	Ph: 1300 435 374	E: <a href="mailto:chutes@elephantsfoot.com.au">chutes@elephantsfoot.com.au</a>
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## APPENDIX A: ARCHITECTURAL PLANS

APPENDIX: A.1 PROPOSED SITE PLAN



Source: NBR Architects, Drawing LBGHS-NBR-00-ZZ-DR-A-0201 Rev 2, February 2025 – Site Plan

## APPENDIX B: PRIMARY WASTE MANAGEMENT PROVISIONS

## APPENDIX: B.1 TYPICAL BIN SPECIFICATIONS


### Mobile bins

Mobile bins come in a variety of sizes and are designed for lifting and emptying by purpose-built equipment.

Mobile bins with capacities of up to 1700L must comply with *AS4123.6-2006 Mobile waste containers* which specifies standard sizes and sets out the colour designations for the bodies and lids of mobile waste containers indicating the type of materials they are used to collect.

The most common bin sizes are provided below, although not all sizes are shown. The dimensions are a guide only and differ slightly between manufacturers. Some bins have flat or domed lids and are used with different lifting devices. Refer to *AS4123.6-2006* for further details.

Table G1.1: Average dimension ranges for two-wheel mobile bins




Bin capacity	80L	120L	140L	240L	360L
Height (mm)	870	940	1065	1080	1100
Depth (mm)	530	530	540	735	820
Width (mm)	450	485	500	580	600
Approximate footprint (m <sup>2</sup> )	0.24	0.26–0.33	0.27–0.33	0.41–0.43	0.49
Approximate weight (kg)	8.5	9.5	10.4	15.5	23
Approximate maximum load (kg)	32	48	56	96	Not known

**Wheelie bin**

Sources include Sulo, Single Waste, Cleanaway, SUEZ, just wheelie bins and Perth Waste for two-wheel mobile bins

Table G1.2: Average dimension ranges for four-wheel bulk bins



Bin capacity	660L	770L	1100L	1300L	1700L
Height (mm)	1250	1425	1470	1480	1470
Depth (mm)	850	1100	1245	1250	1250
Width (mm)	1370	1370	1370	1770	1770
Approx footprint (m <sup>2</sup> )	0.86–1.16	1.51	1.33–1.74	2.21	2.21
Approx weight (kg)	45	Not known	65	Not known	Not known
Approx maximum load (kg)	310	Not known	440	Not known	Not known

**Dome or flat lid container**

Sources include Sulo, Signal Waste, Cleanaway, SUEZ, Just Wheelie Bins and Perth Waste

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

## APPENDIX: B.2 SIGNAGE FOR WASTE AND RECYCLING BINS

### Waste signs

Signs and educational materials perform several functions including:

- informing residents why it is important to recover resources and protect the environment
- providing clear instructions on how to use the bins and services provided
- alerting people to any dangers or hazards within the bin storage areas.

All waste, recycling and organic bins should be Australian Standard colours and clearly and correctly labelled, such as by a sticker on the lid and/or the body of the bin.

Communal bin storage areas should be clearly signposted with signs outlining how to correctly separate waste into the bins provided. The local council responsible for waste services may be a good source of signs and posters and can advise on what signs are suitable.

Information on who to contact to find out more about the recycling and/or other resource recovery services in the building should also be displayed in communal areas, such as on a noticeboard.

The Planet Ark website also has resources available free of charge for use by businesses and councils. These signs can be found at [businessrecycling.com.au/research/signage.cfm](https://businessrecycling.com.au/research/signage.cfm)

Figure I1.1: Examples of waste wall posters (EPA supplied)



Figure I1.2: Examples of bin lid stickers (EPA supplied)



Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority



## Problem waste signs

The EPA has also produced a range of images and signs that can be used for problem wastes, such as fluoro globes and tubes, household and car batteries, e-waste and smoke detectors. To access these resources, contact the NSW EPA. Some examples are shown below.

Figure I2.1: Problem waste signs



## Safety signs

The use of safety signs for waste resource recovery rooms must comply with *AS1319 Safety signs for occupational environments*. Safety signs must be used to regulate and control safety related to behaviour, warn of hazards and provide emergency information, including fire protection information. Suitable signs should be decided for each development as required.

Figure I3.1: Example safety signs



Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority



## APPENDIX: B.3 EXAMPLE COLLECTION VEHICLE INFORMATION

### General

Appropriate heavy rigid vehicle standards should be incorporated into the road and street designs in new developments where onsite collections are proposed. Road and street designs must comply with relevant Acts, regulations, guidelines, and codes administered by Austroads, Standards Australia, NSW Roads and Maritime Services, WorkSafe NSW and any local council traffic requirements.

Applicants and building designers should consult with councils and other relevant authorities before designing new roads or streets and access points for waste collection vehicles to establish specific design requirements.

**Table H4.1: Australian Standards for turning circles for medium and heavy rigid class vehicles**

Vehicle class	Overall length (m)	Design width (m)	Design turning radius (m)	Swept circle (m)	Clearance (travel) height (m)
Medium rigid vehicle	8.80	2.5	10.0	21.6	4.5
Heavy rigid vehicle	12.5	2.5	12.5	27.8	4.5

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

### Large collection vehicles

Waste collection vehicles may be side-loading, rear-loading, front-lift-loading, hook or crane lift trucks. Vehicle dimensions vary by collection service, manufacturer, make and model. It is not possible to provide definitive dimensions, so architects and developers should consult with the local council and/or contractors.

The following characteristics represent typical collection vehicles and are provided for guidance only. Reference to *AS2890.2 Parking facilities: off-street commercial vehicle facilities* for detailed requirements, including vehicle dimensions, is recommended.

**Table B2.1: Collection vehicle dimensions**

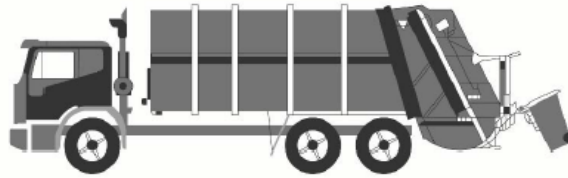
Vehicle type	Rear-loading	Side-loading*	Front-lift-loading	Hook truck	Crane truck
Length overall (m)	10.5	9.6	11.8	10.0	10.0
Width overall (m)	2.5	2.5	2.5	3.0	2.5
Travel height (m)	3.9	3.6	4.8	4.7	3.8
Operational height for loading (m)	3.9	4.2	6.5	3.0	8.75
Vehicle tare weight (t)	13.1	11.8	16.7	13.0	13.0
Maximum payload (t)	10.0	10.8	11.0	14.5	9.5
Turning circle (m)	25.0	21.4	25.0	25.0	18

\* The maximum reach of a side arm is 3 m.

Sources: JJ Richards, SUEZ, MacDonald Johnson, Cleanaway, Garwood, Ros Roca, Bingo and Edbro. Figures shown represent the maximum dimensions for each vehicle type.

### Rear-loading collection vehicles

These vehicles are commonly used for domestic waste collections from MUDs and RFBs and sometimes for recycling. They can be used to collect waste stored in mobile bins or bulk bins, particularly where bins are not presented at the kerbside. They are also used for collecting bulky waste.



Rear-loading waste collection vehicle

### Side-loading collection vehicles

This is the most commonly used vehicle for domestic waste, recycling and organics collections. It is only suitable for collecting mobile bins up to 360L in capacity.



Side-loading waste collection vehicle

### Front-lift-loading collection vehicles

These vehicles are commonly used for collecting commercial and industrial waste. They can only collect specially designed front-lift bulk bins and not mobile bins.



Front-lift-loading waste collection vehicle

### Small collection vehicles

Typically, councils and their contractors operate with large collection vehicles (heavy rigid class vehicles) because they carry greater payloads and allow for more cost-effective collection services. Some councils, or their contractors, may have smaller collection vehicles in their fleet. Early discussion with the council is important to confirm this, but it should not be assumed that the council will have access to small collection vehicles.

The waste management systems and the location of the collection point should always be designed so that the council can provide the standard domestic waste service.

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

## **APPENDIX C: SECONDARY WASTE MANAGEMENT PROVISIONS**

## APPENDIX: C.1 EXAMPLE HANDHELD BIN MOVERS

**movexx**  
smart electric tugs

### MOVEXX T2500 BIN MOVER BATTERY ELECTRIC

Movexx T2500 Tow Tug is an extremely user friendly battery powered mobile towing unit that is ideal for applications where trolleys and rolling objects need to be moved from one place to another simply, efficiently and without physical effort. Some standard features included are: battery indicator, on board battery charger, battery, adjustable handle, dual speed and electric brake.

These units are fitted with an electromagnetic brake system for use on ramps and slopes

#### Features

- Electromagnetic brake for use on ramps and slopes
- Adjustable height handle



SPECIFICATION				
MODEL	DIMENSIONS (MM)	OPTIONS	PULL - PUSH CAPACITY (KG)	BATTERY
T2500-D	511 (w) x 757 (l)	* Centre mount 2x 240 lt. wheelie bin attachment	2500	AGM batteries 2x 85AH up to 8 hrs continuous operation
TOWING CAPACITY - ON FLAT GROUND ( all models)		TOWING CAPACITY - SLOPE ( all models)		
Towing up to 4x 660 lt. Wheelie Bin		Towing up to 2x 660 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)		
Towing up to 4x 1100 lt. Wheelie Bin		Towing up to 1x 1100 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)		
**Electromagnetic brake for use on ramps and slopes				



Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - [www.sitecraft.net.au](http://www.sitecraft.net.au)



## APPENDIX: C.2 EXAMPLE SOURCE SEPARATION RECEPTACLES




In order to assist with education and the correct usage of bins, SINSW provide bins that are aligned to the Australian standard colours for waste management. Black/green base bins are used with different coloured lids:








- Red = General waste/landfill – non-recyclable materials
- Yellow = Co-mingled recycling- containers, drink bottles, cans
- Blue = Paper recycling – paper and cardboard products
- Green = Organic waste – compostable materials

There is currently no standard colour for Return and Earn or soft plastics. We recommend that a consistent colour scheme is used throughout NSW schools to aid students if they change schools.

SINSW recommends that white is used for Return and Earn and orange for soft plastics (where soft plastics are collected).








### 3.3 Recommended bin infrastructure by school area

	Bin type	Primary	Secondary	# bins
CLASSROOM		24L Murfe stackable bins: General waste: red Paper and cardboard: blue		1 per type per classroom
		7L organic food scraps caddy	Organic caddies not provided as no sip and crunch!	1 per classroom (primary only)
PLAYGROUND		80 or 120L wheelie bins: General waste: red Co-mingled: yellow OR Return and Earn: white		1 per 75-100 students OR 1 per common area

	Bin type	Primary	Secondary	# bins
OFFICE/STAFFROOM	 	40 or 60L MultiSort bins: General waste: red Paper and cardboard: blue Co-mingled: yellow Return and Earn: white Note: Murfe bins may be more suitable in smaller areas		1 per type per office or staffroom
		7L organic food scraps caddy		1 per office / staffroom
LIBRARY		40/60L MultiSort bins: General waste: red 60/90L MultiSort bins: Paper and cardboard: blue		1 of each type by area
CANTEEN		40/60L MultiSort bins: General waste: red Paper and cardboard: blue		1 of each type by area
	 	Organic food waste: 7L food scraps caddy OR 23L depending on the volume of waste generated. More than 23L is not recommended due to the weight of organic waste.		Up to 2










## 8.6 Bin specifications

Bin type	Image	Volume	Dimensions	Type	EdBuy order codes
Organic caddy bins		7L	H 235mm W 225mm D 225mm	Small caddy bin	WAST1024
Organic caddy		23L	H 450mm W 400mm D 320mm	Large caddy bin	WAST1110
Murfe stackable bins		24L	H 320mm W 295mm D 380mm	Red Blue Yellow	WAST1001 WAST1007 WAST1003
MultiSort bins		40L	H 495mm W 325mm D 405mm	Dark grey base Red lid Blue lid Yellow lid White lid Orange lid	WAST1101 WAST1103 WAST1105 WAST1104 Not currently available Not currently available
MultiSort bins		60L	H 670mm W 290mm D 520mm	Dark grey base Red lid Blue lid Yellow lid White lid Orange lid	WAST1091 WAST1092 WAST1094 WAST1093 WAST1097 WAST1099
MultiSort bins		90L	H 785mm W 290mm D 520mm	Dark grey base Blue lid	WAST1100 WAST1094
Wheelie bins		120L	H 920mm W 561mm D 481mm	Red Blue Yellow Green White Orange	tba



## 8.7 Bin liners

Bin type	Image	Volume	Bin colour	Descriptor	EdBuy order codes
Organic caddy bins		7L	Green	8L compostable bag	BAGS2800
Organic caddy		23L	Green	30L compostable bag	BAGS2801
Murfe stackable bins		24L	Red Blue Yellow	54L natural 54L natural	BAGS2600 Not required BAGS2600
MultiSort bins		40L	Red Blue Yellow White Orange	54L natural 54L natural 54L natural 54L natural	BAGS2600 Not required BAGS2600 BAGS2600 BAGS2600
MultiSort bins		60L	Red Blue Yellow White Orange	75L natural 75L natural 75L natural 75L natural	BAGS2574 Not required BAGS2574 BAGS2574 BAGS2574
MultiSort bins		90L	Blue		Not required
Wheelie bins		120L	Red Blue Yellow Green White Orange	240L natural 240L natural	Cleaner supplied Not required BAGS2578 No liner (use insert) BAGS2578

Source: Waste Handbook, A Practical Guide to Introducing Waste Separation into Schools, October 2023, NSW Government