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# **OPERATIONAL WASTE MANAGEMENT PLAN**

# WILTON JUNCTION, NSW 2571

New Primary School at Wilton Junction

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#### Introduction

This Operational Waste Management Plan has been prepared to support a Review of Environmental Factors (REF) for the NSW Department of Education (DoE) for the construction and operation of the new primary school at Wilton Junction (the activity).

The purpose of the REF is to assess the potential environmental impacts of the activity prescribed by State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP) as "development permitted without consent" on land carried out by or on behalf of a public authority under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). The activity is to be undertaken pursuant to Chapter 3, Part 3.4, Section 3.37A of the T&I SEPP.

This document has been prepared in accordance with the Guidelines for Division 5.1 assessments (the Guidelines) by the Department of Planning, Housing and Infrastructure (DPHI) as well as the Addendum Division 5.1 guidelines for schools. The purpose of this report is to define the management and production of waste produced during ongoing operation of the primary school.



## **Site Description**

The current street address is 200 Fairway Drive, Wilton, 2571, NSW. The site forms part of the northern portion of Lot 1063 in Deposited Plan 1289197) that was previously subdivided by Landcom. The site is approximately 3.4ha hectares in size and is located within Wilton Junction which is part of the North Wilton Precinct.

As a result of precinct wide rezonings, the surrounding locality is transitioning from a semi-rural residential area to a highly urbanised area with new low to medium density residential development with supporting services. North Wilton Precinct is approximately 85km south-west of the Sydney CBD, 30km north-west of Wollongong and 30km southwest of Campbelltown-Macarthur Strategic Centre. The precinct is located on the interchange with the Hume Highway, which connects the Southern Highlands with the Sydney metropolitan region to the northeast and Canberra to the south-west.

The proposed school site does not currently have road access, however Landcom is expected to deliver the road network and surrounding public domain network in accordance with DA/2022/1279/1. Proposed Road 14 located on the eastern boundary of the site will ultimately provide future access to the site. The site contains several patches of remnant native vegetation particularly within the northern portion of the site. The central part of the site has been predominantly cleared and consists of grassland. An aerial photograph of the site is provided at **Figure 1**.

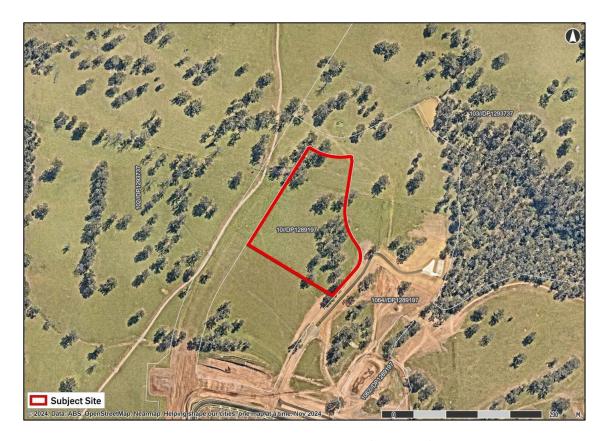


Figure 1: Aerial Photograph of the Site (Urbis, 2024)



# **Proposed Activity Description**

The proposed activity is for the construction and operation of a new primary school at Wilton Junction which will accommodate up to 552 students and 35 staff. Additionally, the proposal includes an integrated pre-school which will capacity for up to 60 students and 7 staff. In total, the new school will support up to 612 students and 42 staff.

The new school includes general and support learning spaces, a library, administrative areas and a staff hub. Core facilities include a standalone school hall and canteen, two carparks, and a sports court.

Specifically, this proposal includes the following:

- Construction of a 3-storey learning hub which includes:
  - 24x General Learning Spaces
  - 3 x Support Learning Spaces
  - Staff hub including administrative areas and library.
  - Integrated public pre-school.
- Standalone hall and COLA with outside of school hours care (OSHC).
- Associated landscaping including sports court and separate outdoor play space for the preschool.
- Associated site utilities and services including installation of new 1500 kVA padmount substation and a new main switchboard.
- Main car park to the south of the site with 33 car spaces (including one accessible space).
- Separate car park for pre-school located to the north of the school with 18 spaces (including one accessible space).
- Main school pedestrian entrance proposed off Road 14.
- Earthworks.

The proposed site plan is attached as Figure 2.



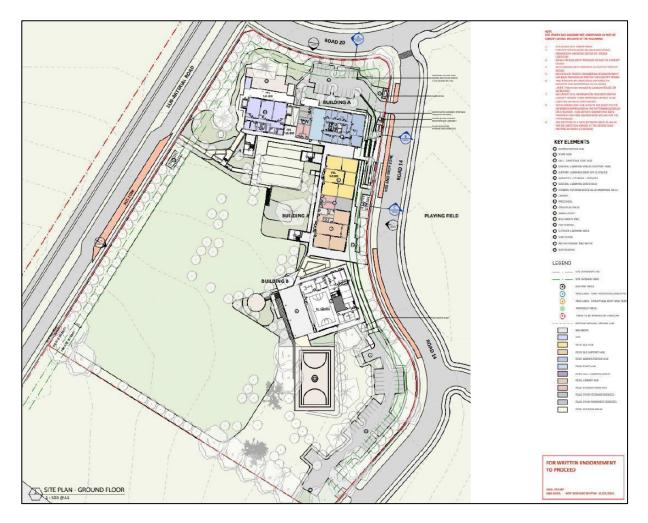


Figure 2: Proposed Site Plan (PTW, 2025)

In the course of preparing this WMP, the subject site and its environs have been inspected, plans of the activity examined, and all relevant council requirements and documentation collected and analysed.

This WMP has been prepared based on the following information:

- Architectural Plans provided by PTW Architects;
- NSW Department of Education Waste Handbook;
- NSW EPA Better Practice guide for resource recovery in residential developments.



## **Background and Existing Conditions**

The current street address is 200 Fairway Drive, Wilton, 2571, NSW. The site forms part of the northern portion of Lot 1063 in Deposited Plan 1289197 that was previously subdivided by Landcom. The site is approximately 3.4ha in size and is located within Wilton Junction which is part of the North Wilton Precinct.

As a result of precinct wide rezonings, the surrounding locality is transitioning from a semi-rural residential area to a highly urbanised area with new low to medium density residential development with supporting services. North Wilton Precinct is approximately 85km south-west of the Sydney CBD, 30km north-west of Wollongong and 30km southwest of Campbelltown-Macarthur Strategic Centre. The precinct is located on the interchange with the Hume Highway, which connects the Southern Highlands with the Sydney metropolitan region to the northeast and Canberra to the south-west.

The proposed school site does not currently have road access, however Landcom is expected to deliver the road network and surrounding public domain network in accordance with DA/2022/1279/1. Proposed Road 14 located on the eastern boundary of the site will ultimately provide future access to the site. The site contains several patches of remnant native vegetation particularly within the northern portion of the site. The central part of the site has been predominantly cleared and consists of grassland.



## **Proposed Activity**

The proposed activity consists of the construction of a new primary school at Wilton Junction. The site is currently vacant, so no demolition is required. The final activity will have a total area for up to 612 students and 42 staff. The site plans are shown below in **Appendix A**.

# **Anticipated Waste Generation, Storage and Collection**

#### **Ongoing Waste Generation**

The Wollondilly DCP does not contain waste generation rates from schools or child care centres. There is little published information about the amount of waste and recycling typically produced by schools, and the published rates vary widely:

- NSW EPA Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities (2012) – General Waste 7 litres per 100m<sup>2</sup> per day, Recycling 0 litres per student per day (based on one school)
- 2. NSW EPA Better Practice Guide for Resource Recovery in Residential Developments, Appendix F (2019) Primary Schools General Waste 15 litres per student per day, Recycling 20 litres per student per day, Childcare General Waste 5 litres per student per day, Recycling 5 litres per student per day
- 3. Randwick City Council Waste Guidelines (2015) General waste 1.5 litres per day per student, Recycling 0.5 litres per day per student
- 4. City of Sydney Guidelines for Waste Management in New Developments (2017) General community facilities 20L General, 50L Recycling, 5L Food per 100m<sup>2</sup>, Child care with kitchen 20L General, 50L Recycling, 50L Food per 100m<sup>2</sup>
- 5. City of Melbourne Guidelines for Waste Management Plans (2021) General waste 0.5 litres of waste per student per week, Recycling 0.5 litres of recycling per student per week.

Schools are also encouraged to separate paper and cardboard and FOGO (food organics/garden organics) from the waste stream (<a href="https://education.nsw.gov.au/teaching-and-learning/curriculum/sustainability/teaching-and-learning/waste">https://education.nsw.gov.au/teaching-and-learning/curriculum/sustainability/teaching-and-learning/waste</a>) to maximse recovery rates.

Taking these rates and guidelines into consideration and based on experience, the following waste generation rates are proposed (**Table 1**) below.

**Table 1: Waste Generation Rates** 

Type of Premises	General Waste	Paper and Cardboard	Other Recyclables	FOGO
Schools: Primary	2L/child /day	2L/child /day	2L/child /day	1L/child /day



## **Waste within Overall Development**

Using the garbage and recycling generation rates above and the total of children detailed above in **Table 1**, the following can be calculated:

#### Primary School and Preschool (612 Students, 5 days/week)

- General Waste = 6,120L per week (uncompacted);
- Paper and Cardboard = 6,120L per week (uncompacted);
- Recycling Waste = 6,120L per week (uncompacted);
- FOGO (food organics/garden organics) = 3,060L per week (uncompacted).

Given that a significant volume of the recyclable stream will be paper and cardboard it is suggested to have dedicated MGBs for this waste. This will maximise recycling rates for the primary school.

# Mobile Garbage Bin (MGB) Requirements

The waste will be housed within a purpose-built screened storage area adjacent to the carpark of the proposed primary school (**Figure 3** on page 12) and segregated from public access.

Based on the waste generation rates detailed above and the separate paper and cardboard bins, the following set of MGBs will be provided.

#### MGB Requirements

- 6 x 1,100L General Waste MGBs collected weekly;
- 6 x 1,100L Paper and Cardboard MGB collected weekly;
- 6 x 1,100L Recycling Waste MGBs collected weekly;
- 3 x 1,100L FOGO collected weekly.

The following **Table 2** illustrates the typical dimensions of the MGBs.

**Table 2: Typical MGB Dimensions** 

Size	Height (mm)	Width (mm)	Depth (mm)
1,100L	1,470	1,370	1,245



## **Waste Storage Area**

A dedicated waste storage area will be located adjacent to the carpark on the southern side of the proposed activity. The MGBs will be stored on a hardstand area and will be fully screened to minimise any impacts to visual amenity.

Consideration has been given to the requirements for waste storage areas of commercial developments, as described in the 'Wollondilly Shire Council – DCP- V5 – Commercial and Community Use'. This includes the following:

- A completed Site Waste Minimisation and Management Plan (SWMMP) complying with the template in Appendix A of the NSW Office of Environment and Heritage's Model Waste must accompany an application for commercial buildings greater than 500m² in GFA or any commercial development that is likely to produce hazardous waste products. (COMPLIANTno hazardous waste will be produced)
- There must be convenient access from each tenancy and/or larger waste producing area of the development to the waste/recycling storage room(s) or area(s). There must be step-free access between the point at which bins are collected/emptied and the waste/recycling storage room(s) or area(s). (COMPLIANT)
- Every development must include adequate waste/recycling storage area(s) to accommodate all relevant waste management processes and storage. (COMPLIANT)
- Special arrangements for storage, collection and disposal of medical and hazardous waste must be detailed in the Site Waste Minimisation and Management Plan (SWMMP). (N/A)
- Waste/recycling storage areas must not be visible from outside of the building or by patrons.
   (COMPLIANT)

The following **Figure 3** (on the next page) is a scaled diagram of the MGBs within the main waste storage area.



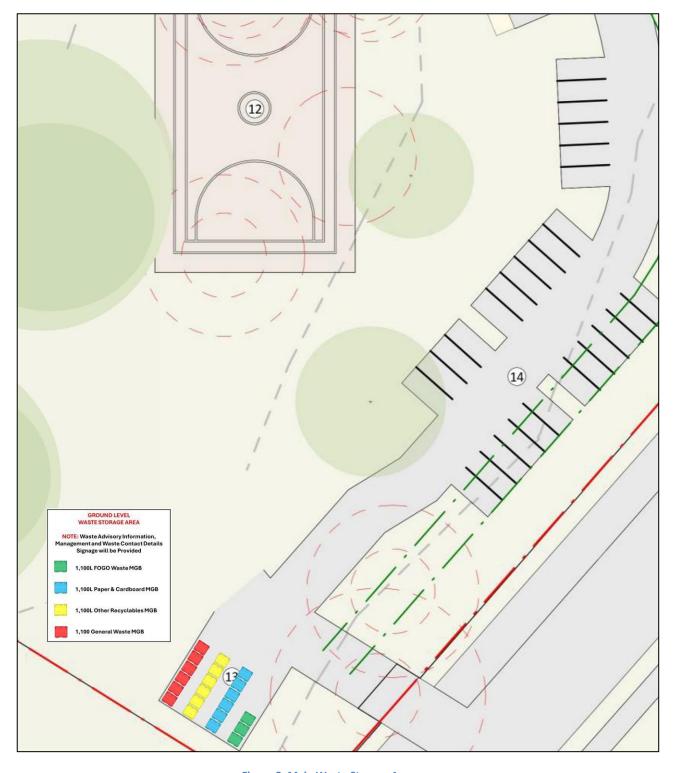


Figure 3: Main Waste Storage Area



# **Waste Signage**

Appropriate colour coded signage will be provided in the waste storage areas and waste bins across the primary school. These will be displayed in a prominent position to assist staff when depositing their waste. In particular, signage will include educational material from Council and address items that are acceptable or not acceptable based on Council's requirements. The following **Figure 4** (below) are examples of signage from the Wollondilly Shire Council's website.



Figure 4: Waste Signage

In addition, the NSW EPA Bin Trim guide (shown in **Appendix B**) can be used in the facility for educational purposes and to assist with waste reduction strategies.



# **Waste Storage Area Screening**

There will be a dedicated structure constructed for the separate storage of both general, recyclables and paper & cardboard MGBs adjacent to the carpark. This will ensure the MGBs are screened from public view to reduce visual impacts, and the design of the structure will be in keeping with the overall activity.

The structure will have impervious walls and floor graded to a drain connected to the sewer with a mesh sediment trap. The structure will have a minimum 10% opening to ensure passive ventilation.

The following **Figure 5** shows an example of the structure that will be constructed.



Figure 5: MGB Screening



## **Waste Collection**

The waste collection service will be provided by a private contractor. The MGBs will be collected onsite adjacent to the waste storage area.

The waste will be collected using a rear loading MRV that will enter the activity from Road 14 and park next to the waste storage area. The bins will be moved by the waste contractor from the waste storage area for emptying, and back to the waste storage area once emptied.

Once the waste collection is complete the MRV will perform a three-point turn and exit the activity in a forward direction and continue along Road 14.

To ensure the safety of children onsite and to avoid disturbances in the operation of the primary school the commercial waste collection provider will be required to collect waste outside the hours of 7am to 9am and 4pm to 6pm on Monday to Friday which are the expected child pick up and drop off times.



# **Waste Receival Across the Primary School**

Waste receptacles will be placed across the primary school for the disposal of waste by students and staff. The receptacles will provide for the source separation of general, recyclable, paper & cardboard. These bins will be required in class and activity areas, staff rooms, amenities and across the playgrounds.

Maintenance staff will be required to bag and empty these bins on a daily basis and to transport the waste to the main storage area in preparation for collection.

Given the distance of the main waste storage area from the main buildings and the volume of waste a big tug or similar vehicle will be required to assist with rubbish collection. The following **Figure 6** (below) shows an example of a bin tug.



Figure 6: Bin Tug



# **Amenity**

#### Noise

The only noise generated from the waste management at the property will be that of the MGBs being wheeled to/from the waste storage area and emptied. Any other noise related to the waste management will be kept to a minimum.

#### **Security/Communication Strategy**

All MGBs will be secured within the ground level waste storage area.

All staff will receive detailed documentation detailing all necessary requirements for safe waste management and handling including all relevant contact information.

#### Ventilation

The waste storage area will be constructed to have sufficient ventilation.

#### **Cleaning Facilities**

Management will be responsible for keeping the MGBs clean.

**NOTE:** It is recommended that the waste area should consist of: **(1)** Impervious coated/treated walls and ground surface, while **(2)** Tap and hose (hose cock must be protected from the waste containers) for use of cleaning the MGBs and waste area.

#### **Prevention of Vermin**

Staff will be advised to not overfill the bins so that the lids are closed at all times.



#### Miscellaneous

#### **Composting Facility**

No consideration has been given to a composting facility at this time.

#### Waste Storage (Internal)

It is recommended that sufficient space be provided in each class/activity room, staff room, amenities and across the playgrounds for the interim storage of at least one day's worth of garbage and recyclables.

#### **Green/Food Waste**

Any green waste will be managed by a private contractor.

It is proposed that food waste be disposed of with the general waste. A FOGO system can be implemented at a later date, if required.

#### **Bulky Hard Waste**

Building management is required to organise with a private waste contractor for collection of bulky hard waste from their premises as required. This consists of waste items such as old furniture and large packaging that are too large to dispose of in the MGBs.

#### E-Waste

Recyclable electronic goods include batteries, equipment containing printed circuit boards, computers, televisions, fluorescent tubes, and smoke detectors. E-Waste will be placed in impermeable surface containers and collected by a registered E-Waste Re-Processor as required.



# **Mitigation Measures**

The following mitigation measures (**table 3**) are recommended to minimise the environmental impacts of waste during the operation of the school.

**Table 3: Mitigation Measures** 

Project Stage	Mitigation Measure	Reason for Mitigation Measure	Section of Report
Operation	The waste management measures outlined in the Operational Waste Management Plan (January 2025) shall be implemented.	To maximise the source separation and recovery of recyclable materials, and minimise amenity impacts from waste management.	Whole Report
Operation	The waste bin area will have an impervious floor and walls, be screened and ventilated.	To minimise the risk to groundwater, litter, odours and visual amenity from the waste storage area.	Waste Storage Area, Waste Storage Area Screening, Amenity

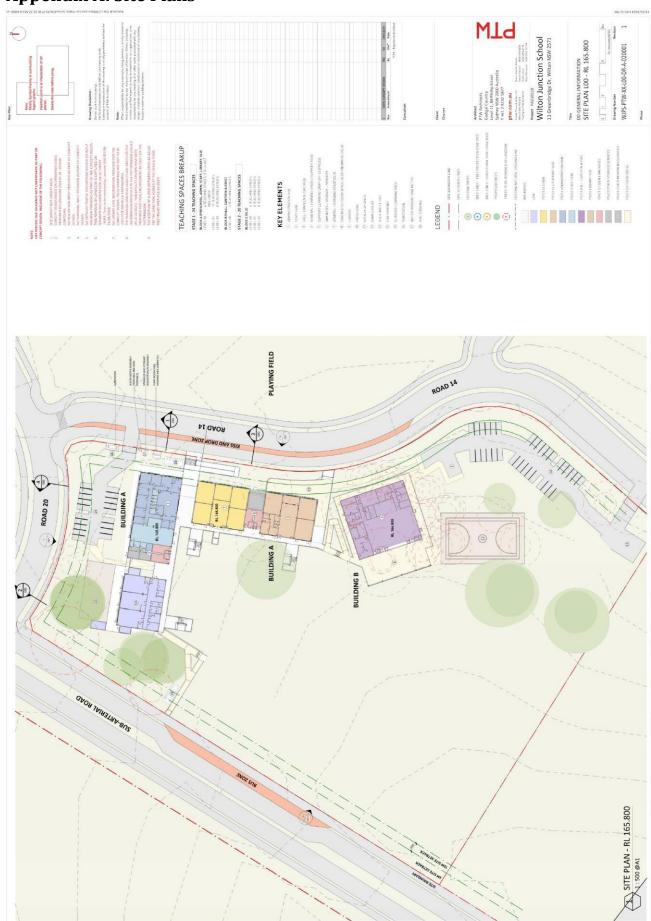
#### Conclusion

The NSW Department of Education will ensure sound operational management principles are adhered to ensuring the waste produced by the new school are minimised as much as practicable and that all Council requirements are met. Subject to the adoption of the mitigation measures in this waste management plan the construction of the proposed new school will not have significant environmental impacts from the perspective of waste. It is considered that:

- 1. The extent and nature of potential impacts of waste management are low and will not have significant impact on the locality, community and/or the environment; and
- 2. Potential impacts can be appropriately mitigated or managed to ensure that there is minimal impact on the locality, community and/or the environment.



# **Appendix A: Site Plans**





# Appendix B: Bin Trim Guide







# How to halve your waste

Food waste fils at no st 30% of the average waste bin of a typi call childcare centre or preschool. Paper, cardboard and plastic occupy at least another 25%. That means over half the contents of the bin could be recovered instead of going to landfil.

In NSW, millions of dollars-worth of food is thrown away each month, while 100,000 people go hungry, a quarter of them children. We can make simple changes that can savé time, save money, help others and stop edible food going to landfil. Busi resses in NSW coul dreco ver an additional 140,529 tonnes of food waste or prevent 281 million meals from going to landfil each year <sup>2</sup>.

Fifty-three per cent of businesses agree that efficent waste and recycling gives them a competitive edge<sup>3</sup>.

Forty per cent of businesses believe that being able to tell customers and clients that they recycle as much as possible helps them win and retain business<sup>3</sup>.

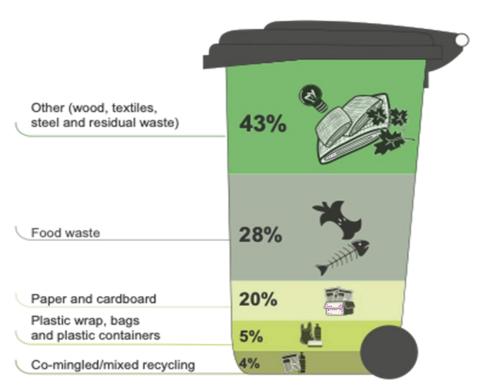


#### Quick fact

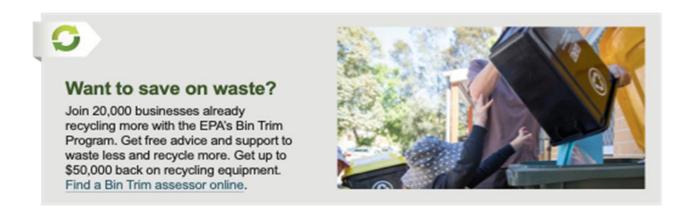
Each year a typical childcare centre or preschool generates up to 7.25m³ of waste per employee or 0.26m³ of waste for every 1m² of flor space ¹.



# Contents of a typical waste bin in a preschool or childcare centre



Typical waste profile of a preschool or childcare centre (% weight of waste generated)1



2



# What you can do

#### Avoid - how can you do it?

- Encourage parents and children to bring reusable containers for lunch and snack items.
- Encourage children to use reusable drink bottles. Offer to refill drink bottles when required.
- Use alternatives to paper towels in bathrooms.
- Encourage children to eat healthy fruit and vegetables rather than packaged foods.
- Improve catering stock control by ordering exactly what is needed.
- Consider more frequent ordering of smaller quantities of fresh produce to minimise spoilage.
- Seek regular feedback on menu items and serving sizes. Adjust menu offerings to suit children's preferences and appetites.
- <u>Love Food Hate Waste</u> has easy-to-follow advice on how to reduce your business food waste.

#### Reduce - how can you improve on it?

- Use emails, websites and text messages to communicate with parents, instead of paper notices.
- · Set your printer to print double sided.
- · Buy in bulk to reduce the quantity of packaging.
- · Buy detergents in bulk and decant into smaller containers.
- Keep your work and play areas clean, tidy, labelled and organised.
- Check the temperatures and the seals on fridges and freezers regularly to keep food fresher for longer. Maintain correct temperatures: fridge 3-4°C and freezer less than minus 18°C.
- · Keep dry storage areas dry and clean.
- Rotate stock maintain a firt in firs out system e
- · Check food labels regularly: 'use-by' and 'best-by' dates
- Consult your local council Environmental Health Office or the <u>NSW Food Authority</u> for specificadivi ce on food storage techniques to avoid spoilage and preserve food-safe conditions.

#### Reuse - how can you use it again?

- Reuse plastic bottles, cardboard rolls, paper and boxes for craft activities.
- Encourage children to come up with ideas to reuse waste products and packaging.
- · Reuse large cardboard boxes for storage.

#### Recycle - how can you do more?

- Ask your waste/recycling service provider how they can help you
  to recycle more. Many have services to educate staff, parents and
  children and also signage to support your recycling program.
- · Set up a bin separation system for the kitchen and classroom areas.
- Use compost bins or large in-vessel composters to process food organics on site. This not only reduces the volume of waste but also creates a useful soil enhancer (compost).



# Illawarra Area Childcare reduces food waste

Across its 11 Early Childhood Education and Care centres, Illawarra Area Childcare stopped 8 tonnes a year of food wabte from going to landfil.

The group received an EPA
Bin Trim rebate to help
purchase commercial worm
farms, compost bins and
small food separation bins.
The compost bins and worm
farms provide a unique
learning opportunity for both
the staff and children at the
centres.

Children were appointed to Recycling Rangers, Compost Commandoes, Worm Warriors and Garden Gnomes to help look after the system. Join Bin Trim now.





- Use worm farms (or vermiculture systems) as a fun way for children to get involved in 'recycling' their organic fruit and vegetable scraps.
- Create a vegetable garden and use the compost, worm liquid or worm castings to enhance the soil.
- Organise for food waste to be collected by a commercial contractor for transport to a processing facility.
- · Collect all soft plastics and take them to REDcycle for recycling
- · Recycle more packaging materials.
- Make sure any staff, contractors, caterers and cleaners follow your recycling program and that they put materials in the correct bins.
- Install clear recycling signs in the bin room, staff areas, stock rooms, and in the kitchen.
- · Keep bins and bin rooms clean and uncluttered.
- You are responsible for making sure your waste is transported to a
  facility that is lawfully able to accept that type of waste. Make sure you
  understand your responsibilities under the law.

# What else can you do?

- Gain commitment from your senior managers and catering staff to reduce waste and increase recycling.
- Appoint a staff champion to drive your waste reduction and recycling program.
- · Appoint student recycling champions or monitors.
- Get the children involved in <u>regularly checking</u> the amount and type of waste that is in the waste and recycling bins.
- Incorporate recycling, composting and gardening into the education program.
- Work with your staff, parents and children to put together a plan to improve your waste and recycling.
- Reward staff, parents and children for reducing waste, recycling more and using the correct bins.

# How can you get more information?

Contact the EPA Business Recycling Unit, Waste and Resource Recovery. Phone: 131 555 | Email: info@environment.nsw.gov.au

#### References

<sup>1</sup>EPA (unpub.), 'Final Report and Attachments: Industry Specific Data Analysis of Bin Trim Round 1, 2016', Environment Protection Authority, Sydney.

<sup>2</sup> EPA 2015, *Disposal-based Audit Commercial and Industrial Waste Stream in the Regulated Areas of New South Wales – Main Report*, NSW Environment Protection Authority, Sydney

(www.epa.nsw.gov.au/resources/warrlocal/150209-disposal-audit.pdf).

<sup>3</sup> EPA 2016, Social Research on Small to Medium Entreprises (SME) Waste and Recycling: Summary Benchmark Study, NSW Environment Protection Authority, Sydney

(www.epa.nsw.gov.au/resources/waste/small-medium-business-recycling-research-160139.pdf)



# Worm farms save tonnes at early learning centres

Guardian Early Learning
Centres in Sydney have
saved 5 tonnes of footh waste
from going to landfil each
year. With assistance from an
EPA Bin Trim rebate, worm
farms were installed at 10
care centres. Join Bin Trim
now.





# Find a recycler

Visit BusinessRecycling.com.au or phone the Business Recycling Hotline on 1300 763 768 to fin a recycling service to suit your business. Use the Planet Ark resource on choosing the right recycler.

#### Photos

page 1: Wallaroo Children's Centre, Nathaniel Marsh, TVU Productions; page 2: Wallaroo Children's Centre, Nathaniel Marsh, TVU Productions; page 3: Wallaroo Children's Centre, Nathaniel Marsh, TVU Productions; page 4: Shutterstock image

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