



Appendix A: Waste Management Plan Template

Information on this form is collected by council for administrative and assessment purposes. It will be used by council staff and other government agencies for the purpose of assessing the application and will be made available for public access. To protect the applicant and the owner(s) privacy, personal details are recorded only on the Part B - Application Detail and Owner(s) Consent form which is not published. It is the applicant's responsibility to ensure other documents do not contain any personal or financial information.

1. PROJECT DETAILS (All Developments)

Address of development

Lot X Stage 1 Narara Ecovillage 25 Research Rd NARARA

Existing buildings and other structures currently on the site

N/A

Description of proposed development

Proposed new prefabricated residence

This development achieves the waste objectives set out in the DCP. The details on this form are the provisions and intentions for minimising waste relating to this project. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as council, OEHL or WorkCover NSW.

Prepared By
(in Block Letters)

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Date

24/05/17

2. DEMOLITION (All Types of Developments)

Address of development: _____

Refer to Section 7.2.13 of the DCP for objectives regarding demolition waste.

most favourable  least favourable

	Reuse	Recycling	Disposal	
Type of waste generated	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Specify method of on-site reuse, contractor and recycling outlet and /or waste depot to be used
Excavation material				
Timber (specify)				
Concrete				
Bricks/pavers				
Tiles				
Metal (specify)				
Glass				
Furniture				
Fixtures and fittings				
Floor coverings				
Packaging (used pallets, pallet wrap)				
Garden organics				
Containers (cans, plastic, glass)				
Paper/cardboard				
Residual waste				
Hazardous/special waste e.g. asbestos (specify)				
Other (specify)				

3. CONSTRUCTION (All Types of Developments)

Address of development: _____

Refer to Section 7.2.14 of the DCP for objectives regarding construction

most favourable



least favourable

	Reuse	Recycling	Disposal	
Type of waste generated	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Specify method of on site reuse, contractor and recycling outlet and/or waste depot to be used
Excavation material	50 m3			If suitable used on site as fill under driveway slabs and paved terraces
Timber (specify)	3 m3	3 m3		Reuse on site as mulch if not treated
Concrete		3 m3		Delivered to Recycled Concrete Products West Gosford for crushing
Bricks		4 m3		Delivered to Recycled Concrete Products West Gosford for crushing or re-sale
Tiles		1 m3		Delivered to Recycled Concrete Products West Gosford for crushing
Metal (specify)		2 m3		Sent to Fairhaven Services Point Clare for salvaging
Glass				
Plasterboard (offcuts)		2 m3		Sent to REGYP Kurnell through NEV recycling scheme
Fixtures and fittings				If complete sent to Building Recyclers Depot Warnervale
Floor coverings		0.5 m3		Only timber - if suitable sent to Building Recyclers Depot Warnervale
Packaging (used pallets, pallet wrap)		4 m3	1.5 m3	Timber, cardboard, hard plastic to NEV recycling scheme, soft plastic to Council collection
Garden organics		1.0 m3		Used in NEV central compost or as mulch to common gardens
Containers (cans, plastic, glass)		0.5 m3		Recycled through central collection with NEV recycling scheme
Paper/cardboard		1 m3		Saved for mulch for common gardens or recycled through NEV recycling scheme
Residual waste			1 m3	Collected through NEV central collection point for collection by Council
Hazardous/special waste (specify)				

4. ONGOING OPERATION (Residential, Multi Unit, Commercial, Mixed Use and Industrial)

Address of development: _____

Show the total volume of waste expected to be generated by the development and the associated waste storage requirements.

	Recyclables		Compostables	Residual waste*	Other
	Paper/ cardboard	Metals/ plastics/glass			
Amount generated (L per unit per day)					
Amount generated (L per development per week)					
Any reduction due to compacting equipment					
Frequency of collections (per week)					
Number and size of storage bins required					
Floor area required for storage bins (m2)					
Floor area required for manoeuvrability (m2)					
Height required for manoeuvrability (m)					

* Current "non-recyclables" waste generation rates typically include food waste that might be further separated for composting.

5. CONSTRUCTION DESIGN (All Types of Developments)

Outline how measures for waste avoidance have been incorporated into the design, material purchasing and construction techniques of the development (refer to Section 7.2.14 of the DCP):

Materials

Most of the fill under the driveway slab and paving will be salvaged from the excess spoil left over from excavation. Recycled bricks will be used for all subfloor, foundation and retaining walls laid in lime mortar to allow for ease of disassembly. External paving will also use recycled bricks or pavers.

The polyester insulation used in the roof and the lightweight walls is 100% recycled from PET bottles.

The timber flooring in the kitchen, hallway and living room and the decking will be made from recycled hardwood.

The Weathertex cladding is made from timber waste from the sawmilling process.

Mos of the lioght fittings will be second hand fixtures salvaged from demolition and local salvage yards. Sanitary fixtures and bathroom fittings will be sourced as second hand where possible. the kitchen and other joinery will be made from second hand or re-purposed cabinets, board and fittings where possible. As the majority of wall and floro amteirals will be purchased in bulk and because a lot of the fixctures and fittings will be second hand then packaging will be significantly reduced.

Lifecycle

Colorbond roof sheeting will have 30 year warranty and 20 years for the Colorbond gutters and downpipes. The MGO board and Weathertex cladding will each have a 20 year warranty. The roof sheeting and framing will all be screw fixed to allow for disassembly and recycling at end of life or when renovations occur. Similarly the Weathertex cladding will also be screw fixed and can be easily removed and be available for re-use. All structural steel work shall be bolt connected not welded and so can be easily disassembled for recycling. Recycled bricks used foundation and retaining walls will be laid in lime mortar to allow for ease of demolition and cleaning for re-use. Rammed earth and hempcrete can be broken up and used as fill or re-mixed for re-use. Bricks laid in lime mortar can be easily cleaned and re-used.

Detail the appropriate needs for the ongoing use of waste facilities including the transfer of waste between the residents or tenancy units, the servicing of waste location and frequency of waste transfer and collection. If truck access is required then engineering details are required.

An on-site compost bin and worm farm will process all vegetative food waste and some green waste. A

four bin sorting facility will be provided within the house which will allow greenwaste for compost and

worm farm to be separated and for residual waste to be separated from recyclable waste.

Residual and recycled waste will be taken to the central collection point in Narara Ecovillage

6. PLANS AND DRAWINGS (All Developments)

The following checklists are designed to help ensure WMP are accompanied by sufficient information to allow assessment of the application.

Drawings are to be submitted to scale, clearly indicating the location of and provisions for the storage and collection of waste and recyclables during:

- demolition
- construction
- ongoing operation.

Demolition

Refer to Section 7.2.13 of the chapter for specific objectives and measures.

Do the site plans detail/indicate?:

	Tick Yes
Size and location(s) of waste storage area(s)	
Access for waste collection vehicles	
Areas to be excavated	
Types and numbers of storage bins likely to be required	
Signage required to facilitate correct use of storage facilities	

Construction

Refer to Section 7.2.15 – 7.2.19 of the chapter for specific objectives and measures.

Do the site plans detail indicate?:

	Tick Yes
Size and location(s) of waste storage area(s)	✓
Access for waste collection vehicles	✓
Areas to be excavated	✓
Types and numbers of storage bins likely to be required	✓
Signage required to facilitate correct use of storage facilities	✓

Ongoing Operation

Refer to Section 7.2.15 – 7.2.19 of the chapter for specific objectives and measures.

Do the site plans detail indicate?:

Tick Yes	
Space	N/A
Size and location(s) of waste storage areas	N/A
Recycling bins placed next to residual waste bins	N/A
Space provided for access to and the manoeuvring of bins/equipment	N/A
Any additional facilities	N/A
Access	
Access route(s) to deposit waste in storage room/area	N/A
Access route(s) to collect waste from storage room/area	N/A
Bin carting grade not to exceed 10% and travel distance not greater than 100m in length	N/A
Location of final collection point	N/A
Clearance, geometric design and strength of internal access driveways and roads	N/A
Direction of traffic flow for internal access driveways and roads	N/A
Amenity	
Aesthetic design of waste storage areas, including being compatible with the main building/s and adequately screened and visually unobtrusive from the street	N/A
Signage – type and location	N/A
Construction details of storage rooms/areas (including floor, walls, doors, ceiling design, sewer connection, lighting, ventilation, security, wash down provisions, cross & longitudinal section showing clear internal dimensions between engaged piers and other obstructions, etc)	N/A