

St Matthews Catholic School Mudgee – Secondary Campus

Draft Waste Management Plan



Rev No.	Status	Date	Comments
1	DRAFT	21/04/2020	

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Appendices

Appendix A – Waste Management Site Plan

Appendix B – Waste Management Plan during Construction
(Extract from Construction Site Integrated Management Plan)

1 Project Details

DEVELOPMENT DETAILS

Project Details St Matthews Catholic School Mudgee – Secondary Campus

Address: Corner of Broadhead and Bruce Road
Mudgee

Existing Buildings and other structures currently on the site Nil – Greenfield Site

Description of proposed development The proposed development will incorporate a high school, chapel and associated external areas including ovals, hardstand car parks and landscaping.

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 or Safework NSW.

2.0 Council Requirements

This WMP has been prepared having regard for the specific waste management objectives of the NSW Waste Avoidance and Resource Recovery Strategy 2014- 21 Guidelines, which are:

- *Avoid and reduce waste generation;*
- *Increase recycling;*
- *Divert more waste from landfill;*
- *Manage problem wastes better;*
- *Reduce litter; and*
- *Reduce illegal dumping*

Further the Environment Protection Authority (EPA) and other Council's guidelines have been used to guide waste generation rates and options for waste management and collection.

3.0 Demolition

As this is a greenfield site; no demolition works are proposed.

4.0 Construction

4.1 Waste Generation

TYPE OF WASTE GENERATED	REUSE	RECYCLE	DISPOSAL	COMMENT
	Estimate Volume (m ³)	Estimate Volume (m ³)	Estimate Volume (m ³)	Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to
Excavation material	4000m ³	-	-	Top soil will be stockpiled and reused on- site. Other excavated fill material will be stockpiled and reused as fill on-site

TYPE OF WASTE GENERATED	REUSE	RECYCLE	DISPOSAL	COMMENT
	Estimate Volume (m ³)	Estimate Volume (m ³)	Estimate Volume (m ³)	Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to
Gyprock / Cladding	-	100m ³	-	Transferred to <i>Waste recycling centre (location TBC)</i>
Concrete	-	40m ³	-	Any excess concrete will be retained in the truck and reused offsite.
Masonry (Hebel Block/ Bricks / Pavers)	-	35m ³	-	Transferred to <i>Waste recycling centre (location TBC)</i>
Tiles (roof)	-	-	-	Development will incorporate metal roofing

Metal (roofing / framing / façade)	-	20m ³	-	Transferred to Waste recycling centre (location TBC)
Glass	-	-	-	All glass will be made to order
Furniture	-	-	-	Not at this stage.
Fixtures / fittings	-	-	-	Fixtures will be made to order.
Floor coverings	-	15m ³	8.6m ³	Transferred to Waste recycling centre (location TBC)
Packaging (used pallets / pallet wrap)	-	10m ³	15.5m ³	Pallets will be transferred to a Material Recovery Facility or sent back. Wrap and packaging will be a transferred
Garden organics	6m ³	-	-	Organics will be ordered to size in accordance with the
Containers (cans / plastic / glass)	-	7m ³	-	Containers will be a transferred to Waste recycling centre (location
Paper / cardboard	-	7.5m ³	-	Transferred to Waste recycling centre (location TBC)
Residual waste	-	-	85m ³	Residual waste will be transferred to Waste recycling centre (location
Hazardous / special waste (specify)	-	-	-	No hazardous materials will be utilised in the construction.
Other	-	-	-	Not applicable

4.2 Waste Management

Waste management during demolition and construction will be provided as part of a construction management plan included as part of the construction certificate process. This is included at the end of this report.

4.3 Waste Avoidance and Reduction

- All fixtures and fittings will be made to measure;
- All materials will be ordered in accordance with a bill of quantities;
- Recycled materials will be utilised where ever possible;
- Measures will be taken to ensure the construction contractor is aware of the waste management procedures and adheres to appropriate guidelines.
- Salvage materials for recycling and reuse during the construction process; and
- The remaining waste to be transported to a recognised builders recycling yard or waste facility.

5.0 Ongoing Operation

5.1 Waste Generation

The tables below show the expected waste generation from the proposed development of the school and associated development.

The waste generation rates were taken from Randwick City Council Waste Management Guidelines as they provide a comprehensive range of uses and rates.

Waste for the school has been determined on a per student basis of 0.5L per student per day (recycling) and 1.5L per student per day (general waste). Waste associated with the Chapel building has been determined on a per square metre basis utilising Randwick Council guidelines for places of worship.

DCP REQUIREMENTS	RECYCLABLES	GENERAL WASTE	GREEN WASTE
High School - 680 Students			
Amount generated (L per day)	340 L	1,020 L	Green waste will be reused on site or removed by a landscape contractor.
Amount generated (L per week)	1,700 L based on a 5 day week	5,100 L based on a 5 day week	
Chapel – 205 m²			
Amount generated (L per day)	20.5 L	102.5 L	Green waste will be reused on site or removed by a landscape contractor
Amount generated (L per week)	41 L based on usage of the facility 2 days per week	205 L based on usage of the facility 2 days per week	
Total Waste and Bins			
Total amount generated (L per week)	1,741L	5,305 L	Green waste will be reused on site or removed by a landscape contractor
Total number and size of bins	2 x 660L recycling bins Collected twice weekly	4 x 660L recycling bins Collected twice weekly	

5.2 Waste Storage

WASTE STORAGE REQUIREMENTS	
Area for storage of bins	For waste storage and management, it is proposed to use 660L bins, the location of the main storage and collections points will not change.
Green Waste	As detailed above, green waste will be removed by a landscaping contractor as required or reused on site as mulch.
Food / Organic Waste	It is also envisaged that the school, as part of their waste and recycling education will introduce an area for organic waste to be recycled and reused as compost on the site.
Specialised Waste	Due to the different school subjects, such as science, woodwork, metalwork and art, there may be some specialised waste generated. The need for this specialised waste will be managed and disposed of separately as required by the EPA and other safety
Bulky Waste	The school will be responsible for the disposal of waste that is too bulky to fit within their bins. Although this scenario is unlikely due to the size of the waste and recycling bins, a specialised contractor or site manager can dispose to a recognised waste facility if required.
Floor area required for manoeuvrability	The storage area has been designed to accommodate bins of the proposed size. This area incorporates sufficient room for safe bin lifting (with the use of a mechanical bin lift) and collection.
Height required for manoeuvrability	Provides sufficient overhead clearance, for bin lifters to transfer waste to collection point.
Comment	<p>Recycle: This development will provide adequate recycling bins to meet the minimum recycle requirements.</p> <p>Waste: This development will provide adequate waste bins to meet the minimum waste requirements.</p>

5.3 On-going Waste Removal Procedures

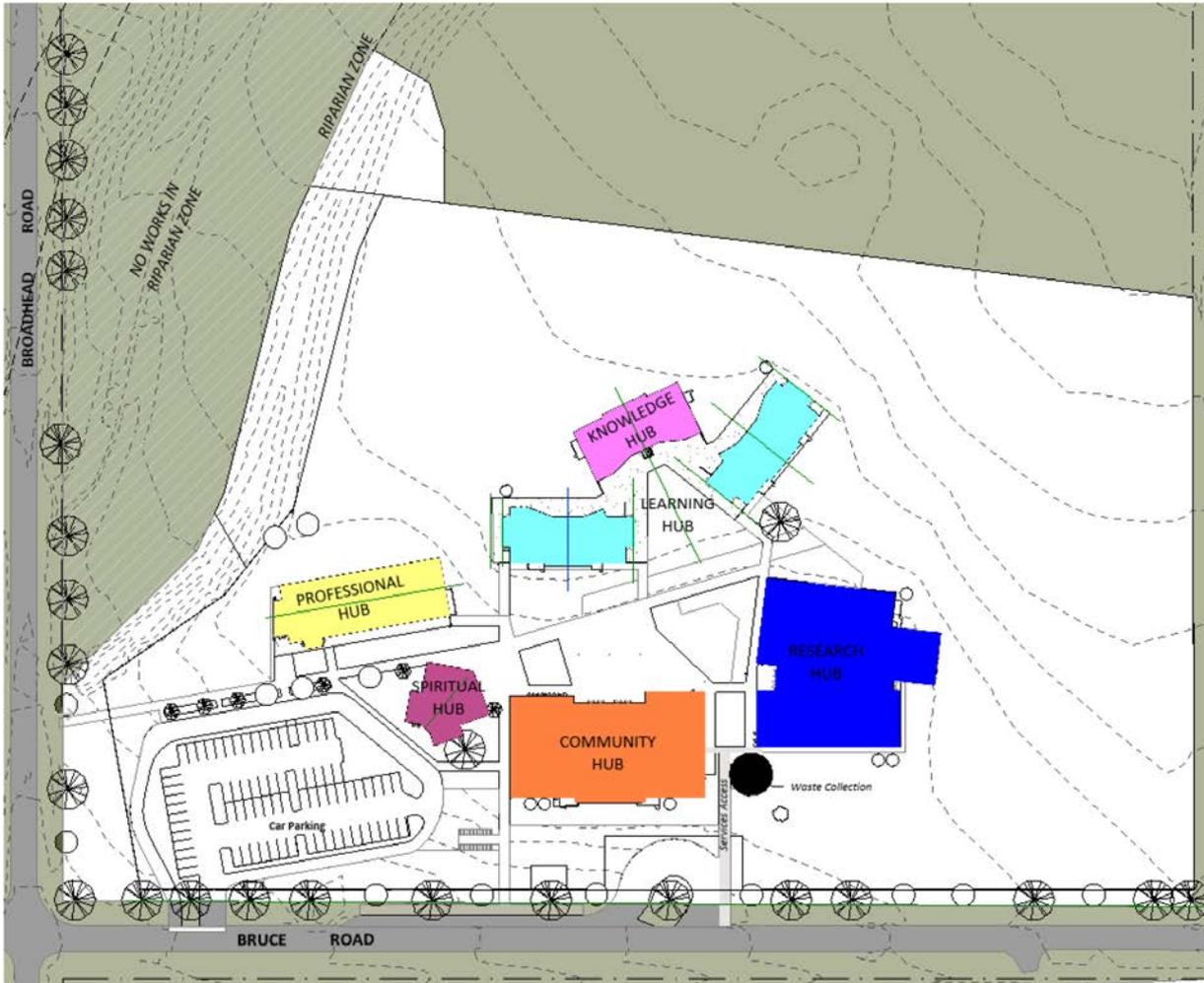
- 5.3.1 Specialised staff / Cleaners will be allocated with the responsibility of transporting the general waste and recycling from the classrooms, canteen and playground areas to the small waste storage areas scattered around the campus which include the 240L bins.
- 5.3.2 These 240L bins will then be collected by the site manager who will transport them to the central waste collection point and emptied into the applicable bins.
- 5.3.3 The general and recycled waste will then be collected by the identified waste contractor from the designated collection point. The collection point will be the same as the central storage area so the large bins do not need to be moved.
- 5.3.4 Details of the waste storage and collection points are shown on the architectural plans in Appendix A.
- 5.3.5 **Maintenance:** Management and cleaners shall be responsible for the maintenance of signage, the security of the waste storage areas.
- 5.3.6 **Hygiene:**
- o The site manager / cleaners should provide regular bin cleaning. This should include a specialised filtration service to ensure pollutants are collected and appropriately disposed in accordance with EPA Guidelines. A specialised contractor can be employed if required in this regard.
 - o A bin cleaning area has been provided.

5.4 Education

- 5.4.1 Intelligible signage will be erected in the garbage storage areas to identify which bins should be used for different waste and recyclable materials in accordance with the Councils waste minimisation policy.
- 5.4.2 Appropriate staff and cleaners will be supplied with a copy of this waste management plan to inform them on the concepts of waste minimisation and recycling.
- 5.4.3 Appointed staff members and cleaners will monitor the waste areas and report to school / site management on any issues that require rectification.

Appendices

Appendix A – Waste Management Site Plan



Black circle indicates waste storage & collection area

Appendix B – Waste Management Plan during Construction
*Construction Site Integrated Management Plan**(Extract from***CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN****PRIOR TO CONSTRUCTION**

- This site specific waste management plan has been developed to address the disposal of waste / excess building material during the construction period. This will be updated during the project and will be available onsite during construction.

DURING CONSTRUCTION

- Effluent from the amenities for which the North is responsible will be discharged into pump out tanks of suitable capacity which will be pumped out by Contractor. Pit toilets are not permitted.
- Littering or dumping of unwanted waste or disposal of surplus construction materials including bitumen, asphalt or concrete, or permitting such activities on any land on or around the site, is not permitted.
- Appropriate receptacles will be provided for the depositing of litter and other waste materials, and their contents disposed off site at a suitable waste disposal/recycling station on a regular basis.
- All waste disposals will occur in accordance with the Protection of Environment Operations Act and Regulations and Office of Environment & Heritage Waste Classification Guidelines 2008.
- All wastes generated by the project will be beneficially reused, recycled or directed to a waste facility lawfully permitted to accept the materials.
- The work site would be left clean and free of debris and other rubbish at the end of the works.
- Waste management practices for the project would follow the resource management hierarchy principles embodied in the Waste Avoidance and Resource Recovery Act 2001.
- Environmental induction to address resource and waste management and recycling issues. Include in induction
- Concrete waste to be recovered and where possible sent to a recycling center.
- Weekly inspection shall be carried (NCB010) out to ensure the work site is satisfactory.
- No burying of wastes permitted on-site.
- No contaminated material shall be used in any earthworks
- All loads of rubbish removed shall be securely covered to ensure no spillage.
- North Constructions will be treating waste for recycling. Specific points include:
- During construction waste bins will be used to separate waste to be recycled, minimising landfill.
- Off cuts and waste that are able to will be reused on site or returned to supplier where possible.
- All waste will be removed from site during and on completion of works.