

# **DICKENS SOLUTIONS**

**(REF – 21265)**

## **WASTE MANAGEMENT PLAN**

### **ST. PAULS ANGLICAN CHURCH** **CARLINGFORD**

### **PROPOSED** **REFURBISHMENT EXISTING** **PLACE OF PUBLIC WORSHIP**

**@**  
**32-34 VICKORY AVENUE**  
**CARLINGFORD**

**DECEMBER 2021**

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# **PART 1 – OVERVIEW AND PROPOSAL**

## **1.1 INTRODUCTION**

This Waste Management Plan (WMP) describes in detail the manner in which all waste and other materials resulting from the construction and on-going operational use of the building on the site, are to be dealt with.

The aims and objectives of this WMP are to: -

- a) Satisfy all State and Local Government regulatory controls regarding waste management and minimisation practices;
- b) Promote the use of recyclable materials in the excavation, construction and on-going operation of the building;
- c) Maximise waste reduction, material separation, and resource recovery in all stages of the development;
- d) Ensure the design of waste and recycling storage facilities are of an adequate size, appropriate for the intended use of the building, hygienic with safe and manoeuvrable access;
- e) Ensure that the provision of waste and recycling services to the completed buildings are carried out in an efficient manner, which will not impact negatively on the health, safety and convenience of all stakeholders.

The land on which the development is proposed is located within The Hills Shire LGA

This WMP is prepared in accordance with: -

- The Hills Local Environment Plan,
- The relevant provisions of The Hills DCP, and associated waste management guidelines,
- All conditions of consent issued under the approved Development Application,
- The Better Practice Guideline for Waste Management and Recycling in Commercial and Industrial Facilities (as published by the NSW EPA – 2012), and,
- The objective of ensuring that all waste management facilities and collection services will provide an outcome that will be effective and efficient, as well as promote the principles of health, safety and convenience.

This Waste Management Plan has been prepared for a Development Application to be submitted to The Hills Shire Council, to refurbish an existing Place of Public Worship – the St Pauls Anglican Church, comprising of:

- Minor internal additions to the church building – new stairs in south western corner,
- Construction of a two (2) storey building attached to the church building to be used as an Administration Centre, with offices, meeting rooms, and ten (10) classrooms for ‘Sunday School’ activities and other social and religious activities associated with the functioning of the church, and,
- Associated parking, driveways, landscaping, servicing, and ancillary facilities.

This WMP is dated 7 December 2021.

## **1.2 PROJECT & PROPERTY DESCRIPTION**

This Waste Management Plan (WMP) has been specifically designed for the development described below: -

<b>PROJECT DESCRIPTION</b>	<b>Alt &amp; Add to existing Place of Public Worship</b>
<b>DETAILS</b>	<ul style="list-style-type: none"><li>- Church,</li><li>- Administration Centre,</li><li>- Meeting Rooms,</li><li>- Sunday School Classrooms,</li><li>- Associated services, and</li><li>- Infrastructure, amenities and facilities.</li></ul>
<b>PROPERTY DESCRIPTION</b>	<b>The development is to be constructed over an existing lot, known as Lot 34, in DP251044, No 32 Vickory Avenue, Carlingford</b>
<b>STREET ADDRESS</b>	<b>32 Vickory Avenue, Carlingford</b>
<b>AREA</b>	<b>6,321sqm (Survey)</b>
<b>LGA</b>	<b>The Hills Shire Council</b>
<b>PLANNING INSTRUMENTS</b>	<b>The Hills LEP The Hills Development Control Plan 2011</b>

## **1.3 PROPOSAL**

The proposal development includes the refurbishment to refurbish an existing Place of Public Worship – the St Pauls Anglican Church, Carlingford, comprising of:

- Minor internal additions to the church building – new stairs in south western corner,
- Construction of a two (2) storey building attached to the church building to be used as an Administration Centre, with offices, meeting rooms, and ten (10) classrooms for ‘Sunday School’ activities and other social and religious activities associated with the functioning of the church, and,
- Associated parking, driveways, landscaping, servicing, and ancillary facilities.

All waste and recycling services to the development will be provided by a licensed private waste and recycling collection contractor.

The project consists of: -

- a) Demolition works,
- b) Refurbishment and construction work,
- c) The provision of associated infrastructure, landscaping, driveways, concrete pathways and other elements of the development; and,
- d) The on-going use of the building.

## **PART 2 – DEMOLITION & CONSTRUCTION**

### **2.1 DEMOLITION – GENERALLY**

The demolition stage of the development comprises of the following activities, and involves:

- Demolition of existing building,
- Demolition and removal of existing non-load bearing walls and partitions,
- Demolition and removal of existing stairs,
- Demolition and removal of existing toilets and amenities, and any associated plumbing and drainage, and,
- The removal of other miscellaneous materials excess to construction requirements.

The construction stage of the development comprised of the following activities, and involves:

- Construction of new administrative centre and outdoor courtyard internal walls to create new tenancies,
- Provision of new amenities, toilets, and associated plumbing and drainage,
- Associated carpentry and joinery work,
- Tiling and specialist services,
- Electrical and IT services, communication provisions, cabling, and,
- Masonry, brickwork, and finishing.

All activities associated with removal and disposal of materials excess to the construction process will be processed and or disposed of at an approved facility or facilities. It is considered that the majority of materials involved in both the demolition and construction processes have the ability to be reused or recycled.

All materials used that are not required to be incorporated into it, shall be recycled, reused or disposed of in accordance with the requirements of the Protection of the Environment Operations Act (1997). It will be the developer's overall responsibility to ensure compliance in this regard.

Additionally, during both stages, every effort will be made to reduce and minimise the amount of building materials excess to construction.

Mobile Bins of an appropriate size will be located on site for the collection of food scraps, beverage containers, and other waste generated on site by workers.

### **2.2 CONSTRUCTION – RECYCLING, REUSE & DISPOSAL DETAILS**

The following Table (Table 1- Processing and Disposal details – Materials Excess to Construction) on page 6 details prescribe the manner in which all materials surplus to the construction of the building will be dealt with, and includes: -

- a) An estimate of the types, volumes and weight of materials and recyclables to be generated;
- b) The estimated total percentage of waste surplus to construction to be reused or recycled; and,
- c) Destination and reuse details.

**TABLE 1 – PROCESSING AND DISPOSAL DETAILS –  
DEMOLITION & MATERIALS EXCESS TO CONSTRUCTION**

Waste Type	Volume (Sqm)	Weight (Tonne)	Estimated % to be Recycled	Destination & Reuse
Excavation material	125.0	11,250.00	75%-90%	All materials to be processed off site at a licensed facility that is approved to accept the material specified.
Timber	5.0	2.40	80%-90%	
Concrete	20.0	48.00	55%-75%	
Bricks	12.5	12.50	80%-90%	
Tiles	2.0	1.50	80%-90%	
Metal	5.0	1.75	75%-90%	
Glass	5.0	0.50	50%-60%	
Furniture	Nil	N/A	N/A	
Fixtures and fittings	5.0	1.75	80%-90%	
Floor coverings	Nil	N/A	N/A	
Packaging, Pallets	Nil	N/A	N/A	
Garden organics	Nil	N/A	N/A	
Containers	Nil	N/A	N/A	
Paper/cardboard	5.0	0.25	80%-90%	
Residual waste	135.0	135.00	NIL	
Hazardous Waste	Nil	N/A	N/A	
Other (specify)	N/A	N/A	N/A	

It is noted that the quantities of materials detailed above are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, and any other unforeseeable activities associated with the construction works.

Notwithstanding any of the above, the developer will provide Council with all details in relation to any major variations in this regard.

The facilities and agencies that receive the materials listed above are to be a facility or agency that is licensed to accept the materials specified.

The developer understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The developer will keep a written record of all documentation associated with the transportation, disposal and processing of all materials associated with the demolition of all structures on site as well as materials excess to construction.

Based on the above information, it is anticipated that between 75% and 85% of all materials excess to construction needs will be able to be recycled or re-used, well above the Council's required targets.

### **2.3 LICENSED WASTE MANAGEMENT AND RECYCLING FACILITIES.**

The facilities nominated below are appropriately licensed to receive the materials nominated in Table 1 of Part 2.3 on page 7.

1. Blacktown Waste Services, 920 Richmond Road, Marsden Park.  
Tel 9835 4544
2. Bingo Industries, 3-5 Duck Street, Auburn, or 38 McPherson Street, Banksmeadow.  
Tel 1300 424 646
3. Brandown, Lot 9 Elizabeth Drive, Kemps Creek.  
Tel 02 9826 1256
4. Jacks Gully Waste Management Centre, Richardson Road, Narellan.  
Tel 1300 651 116
5. Lucas Heights Waste Management Centre, New Illawarra Road, Lucas Heights.  
Tel 1300 651 116
6. Suez Eastern Creek Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112

The facilities and agencies that receive the materials listed above are, licensed and generally able, to accept the materials specified.

The appointed contractor understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The appointed contractor is under no obligation to use any nominated facility or agency, but should any alternative arrangements be made, it will be the developers' responsibility to ensure that all demolished materials removed from the site are disposed of, or processed, appropriately.

## **PART 3 – ON GOING USE OF BUILDING**

### **3.1 OBJECTIVES**

1. To ensure that the storage, amenity and management of waste is sufficient to meet the needs of the development.
2. To ensure that all waste management activities are carried out effectively and efficiently, and in a manner that promotes the principles of health, safety and, convenience.
3. To promote waste minimisation practices.

### **3.2 ASSUMPTIONS**

In preparing this proposal, the following assumptions have been made: -

1. The proposal development includes the refurbishment to refurbish an existing Place of Public Worship – the St Pauls Anglican Church, comprising of:
  - a) Minor internal additions to the church building – new stairs,
  - b) Construction of a two (2) storey building attached to the church building to be used as an Administration Centre, with offices, meeting rooms, and ten (10) classrooms for ‘Sunday School’ activities and other social and religious activities associated with the functioning of the church, and,
  - c) Associated parking, driveways, landscaping, and ancillary facilities.
2. An existing Waste Storage Area (WSA) is provided for the development and is located on the north-eastern side of the site as indicated on the Architectural Drawings.
3. All mobile waste and recycling bins required for the on-going operation of the development will be stored within the confines of the WSA at all times.
4. A licensed private waste collection contractor will provide all waste and recycling services the development.
5. All waste and recycling services will take place from Trigg Avenue, where the bins will be presented for servicing to a waiting collection vehicle.
6. All commercial waste and recycling services will be provided by a licensed private waste and recycling contractor.
7. All waste and recycling generation rates have been calculated in accordance with the Better Practice Guide for Resource Recovery in Residential Buildings (Cultural and Recreational Buildings) as they do not appear to be covered in Council’s waste management guidelines.
8. The Church will appoint a Caretaker who will be responsible for ensuring that all waste management activities are carried out in accordance with this WMP.

### **3.3 WASTE HANDLING & MANAGEMENT**

Appropriate waste and recycling receptacles will be provided at strategic location over the site for patrons and parishioners to deposit their waste and recycling material into.

The Caretaker will be responsible for transferring the waste and recycling material from these receptacles in to the respective bins in the Waste Storage Area.

Appropriate signage will be erected in a prominent place within each unit to assist all patrons and parishioners to ensure that all waste and recyclable material is placed into the appropriate bins.



### **3.4 PROVISION OF COMMERCIAL WASTE & RECYCLING SERVICES**

#### **3.4.1 Waste and Recycling Collection Service Provider Details**

A licensed private waste and recycling contractor will provide all general waste and recycling services to the building.

#### **3.4.2 Details of Mobile Containers**

In relation to the size and design of the waste and recycling mobile bins, the following technical information is provided in relation to indicative bin sizes that may be used for a development of this type: -

<b>CONTAINER TYPE</b>	<b>HEIGHT (metres)</b>	<b>DEPTH (metres)</b>	<b>WIDTH (metres)</b>
240 litre mobile container	1.080	0.735	0.585
1100 litre mobile container	1.470	1.070	1.240

#### **3.4.3 Waste & Recycling – Service Requirements**

Waste and recycling services will be provided to all units in accordance with the provisions of this WMP.

All waste and recycling materials will be stored in approved receptacles of an appropriate size as specified in this WMP.

The lids of the bins shall be closed at all times to reduce litter, stormwater pollution, odour and vermin.

#### **3.4.4 Commercial Land Uses – Waste & Recycling Generation Rates**

All waste and recycling generation rates have been calculated in accordance with the Better Practice Guide for Resource Recovery in Residential Buildings (Cultural and Recreational Buildings) as they do not appear to be covered in Council's waste management guidelines, as detailed below:

- Waste Generation Rates – 5-litres per 100 square metres of floor space per day; and,
- Recycling Generation Rates – 10-litre pers 100 square metres of floor area per day.

**TABLE 1 – FORMULA FOR CALCULATION WASTE & RECYCLING GENERATION RATES FOR COMMERCIAL LAND USES**

<b>SERVICE</b>	<b>LAND USE</b>	<b>WASTE &amp; RECYCLING GENERATION RATES</b>
<b>Waste</b>	Church and Ancillary Land Uses	5.0 litres per 100m <sup>2</sup> of floor area per day
<b>Recycling</b>	Church and Ancillary Land Use	10.0 litres per 100m <sup>2</sup> of floor area per day
<b>Waste</b>	Educational and Training	5.0 litres per 100m <sup>2</sup> of floor area per day
<b>Recycling</b>	Educational and Training	10.0 litres per 100m <sup>2</sup> of floor area per day

#### **3.4.5 Details of Commercial Land Uses**

The Church will occupy the entire site. As such all activities carried out on the premises will be those associated with the church including but not limited to the following:

- Church services, liturgy services, prayer meetings, and Sunday School;
- Education and training; and,
- Functions (e.g., marriage ceremonies, christenings, funerals and the like).

The following table (Table 2) below provides details of the floor areas for the various activities.

**TABLE 2 – CHURCH AND ASSOCIATED LAND USE DETAILS**

TENANCY	PROPOSED USE	LOCATION	FLOOR AREA (M2)
Church	Church Services, etc.	Ground Floor	1,200
Administration Area	Administration	Ground Floor	650
Classrooms	Education/Training	Level 1	600
Storage	Storage	Ground & Level 1	50
Other	Various	Ground & Level 1	40
Toilet Facilities	Toilet Facilities	Ground & Level 1	40
<b>TOTAL FLOOR AREA</b>			<b>2,580.00</b>

Based on the floor area, the following table (Table 3) specifies the criteria for waste generation rates. These rates have been calculated on the basis that the facility will be used on an average of five (5) days per week.

**TABLE 3 – COMMERCIAL WASTE & RECYCLING GENERATION RATES & SERVICE REQUIREMENTS**

DESCRIPTION	WASTE	RECYCLING
Location	Ground and First Floor	
Proposed Use	Church, Education, Training and Functions	
Waste Generation Rate	5L/100sqm Floor Area/Day	10L/100sqm Floor Area/Day
Total Floor Area	2,580.00	2,580.00
Waste Generation/Week	5 x 2580 / 100 x 5 (Days) = 645.00	10 x 2580 / 100 x 5 (Days) = 1,290.00
Space Required / Week	645.00	1,290.00
<b>Service Requirements</b>	<b>3 x 240-litre bins Serviced one (1) day per week</b>	<b>3 x 240-litre bins Serviced two (2) days per week</b>
Space provided per week	720-litres	1,440-litres

### **3.4.6 Commercial Waste Services**

The facility will be required to have commercial waste services provided in accordance with the waste generation rates as prescribed in Table 3 above.

All commercial waste services will be provided by a licensed private waste contractor.

This will require the provision of 3 x 240-litre mobile waste bins serviced at least two (2) days per week. Other bin sizes and collection frequencies may be used provided that a minimum of 720-litres of waste is removed weekly.

If for any reason, the land use activity generates more waste than specified in Table 3, it will be the responsibility of the Church to provide additional bins or services to ensure that adequate waste management facilities are provided, and that the impact to the health, safety and convenience will not be compromised.

The Church will enter into a Service Level Agreement with the contractor and will keep written evidence on site of this agreement with the contractor for the regular collection and disposal of all waste generated from these activities.

All commercial waste services are to be undertaken in a manner that will not adversely impact on the principles of health, safety or convenience.

All waste services will be carried out so as not to impede or impact on vehicular and

pedestrian traffic movement throughout the site and the adjacent premises.

### **3.4.7 Commercial Recycling Services**

The facility will be required to have commercial recycling services provided in accordance with the waste generation rates as prescribed in Table 3 on page 10.

All commercial recycling services will be provided by a licensed private waste and recycling contractor.

This will require the provision of 3 x 240-litre mobile recycling bins serviced two (2) days per week. Other bin sizes and collection frequencies may be used provided that a minimum of 1,440-litres of recycling is removed weekly.

If for any reason, the land use activity of any individual unit, generates more recycling than specified in Table 3, it will be the responsibility of the Church to provide additional bins or services to ensure that adequate recycling management facilities are provided, and that the impact to the health, safety and convenience will not be compromised.

The Church will enter into a Service Level Agreement with the contractor and will keep written evidence on site of this agreement with the contractor for the regular collection and disposal of all recycling generated from these activities.

All commercial recycling services are to be undertaken in a manner that will not adversely impact on the principles of health, safety or convenience.

All recycling services will be carried out so as not to impede or impact on vehicular and pedestrian traffic movement throughout the site and the adjacent premises.

### **3.5 WASTE STORAGE**

All waste and recycling bins will be stored within the confines of the existing on-site Waste Storage Area (WSA), which is located on the north-eastern side of the site as indicated on the Ground Floor and Site Plans. It is a partially enclosed mainly rectangular structure with approximate measurements of 12.0m x 3.5m, with an area of approximately 42sqm, and will provide accommodation for:

- 3 x 240-litre mobile waste bins, and,
- 3 x 240-litre mobile recycling bins.

### **3.6 WASTE COLLECTIONS**

All collections will take place from the immediate vicinity of this area where the bins will be removed for servicing to the waiting collection vehicle stationed at the Trigg Avenue roadside. The bins will be returned to the WSA immediately after they have been serviced.

Collections will take place between the hours of 5.00am and 7.00am on each collection day, when pedestrian and vehicular activity is at a minimum, and the impact on the area will be minimal.

The Church will be responsible for ensuring that all waste and recycling bins are stored appropriately, and that the storage area is cleaned and maintained in a satisfactory condition.

All services are to be undertaken in an efficient manner that will promote the principles of health, safety and convenience and not impact negatively on the amenity of the complex and its surrounds.

### **3.7 GREEN WASTE**

No formal green waste service will be provided to the development.

It will be the responsibility of the Church to ensure that all green waste generated from the on-going use of the development is disposed of appropriately.

### **3.8 ON GOING OPERATION, USE & MAINTENANCE OF WASTE MANAGEMENT FACILITIES**

All waste management facilities will be maintained in a clean and hygienic condition that will promote the principles of health, safety and convenience.

In order to achieve these objectives, the following requirements will apply: -

1. The walls and floor of the WSA will be constructed of smooth faced masonry or concrete.
2. The WSA will be washed and cleaned on a regular basis.
3. All mobile bins will be washed and cleaned on a regular basis.
4. Any electrical equipment, including the provision of lighting, will be installed in accordance with the relevant Australian Standards.
5. Appropriate signage will be displayed in a prominent position within the WSA, providing instruction to employees on how to use waste and recycling facilities, including what is and what is not recyclable.
6. The Church will be responsible for ensuring that all waste and recyclable matter and materials are placed and stored within the appropriate containers provided.

## **PART 4 – SUMMARY**

### **4.1 SUMMARY**

In summarising this proposal, the following information is provided:

1. Where possible this Waste Management Plan has been developed and documented generally and where applicable in accordance with the requirements of the relevant sections of The Hills Council Waste DCP.
2. All waste and recycling generation rates have been calculated in accordance with the Better Practice Guide for Resource Recovery in Residential Buildings (Cultural and Recreational Buildings) as they do not appear to be covered in Council's waste management guidelines
3. All waste and recycling services will be provided by a licensed private waste and recycling contractor.
4. The Church will be responsible for ensuring that all on-going waste management activities are carried out in accordance with the provisions of this Waste Management Plan.

The measures set out in this WMP aim to demonstrate that all such activities will be carried out effectively and efficiently, in a healthy, safe and convenient manner, to acceptable community standards, and to the requirements of The Hills Shire Council.

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