

DICKENS SOLUTIONS

(REF – 23298)

WASTE MANAGEMENT PLAN

ART MADE ARCHITECTS

PROPOSED CHILD CARE CENTRE

@

118 MAITLAND ROAD MUSSWELLBROOK

MARCH 2024

DISCLOSURE STATEMENT

The information contained in this document has been produced by Dickens Solutions Pty Ltd and is solely for the use of (The Client) for the purpose for which it has been prepared. In preparing this document, Dickens Solutions Pty Ltd undertakes no duty to, nor accepts any responsibility to, any third party that may rely upon this document.

This document and the information contained in the document shall not be copied or reproduced without the consent of Dickens Solutions Pty Ltd, and, or the Client.

Dickens Solutions Pty Ltd
(ABN 41 603 040 446)

1214 Botany Road, Botany NSW 2019

Telephone (Mb) 0400 388 996

Website: www.dickenssolutions.com.au E-mail: garry@dickenssolutions.com.au

TABLE OF CONTENTS

PART	SUBJECT	PAGE
PART 1 – OVERVIEW & PROPOSAL		
1.1	Introduction	3
1.2	Description of Property	4
1.3	Applicants Details	4
1.4	Proposal	4
PART 2 – DEMOLITION		
2.1	Demolition – Generally	6
2.2	Buildings to be Demolished	6
2.3	Management of Hazardous Waste Materials	6
2.4	Demolition – Recycling, Reuse and Disposal Details	7
2.5	Demolition – On Site Storage of Materials	10
2.6	Demolition – Excavated Material	10
2.7	Licensed Processing and Disposal Facilities	11
PART 3 – CONSTRUCTION		
3.1	Construction – Generally	12
3.2	Construction – Recycling, Reuse and Disposal Details	12
3.3	Construction – On Site Storage of Materials	15
3.4	Construction – Excavated Material	16
3.5	Licensed Processing and Disposal Facilities	16
PART 4 – ON GOING USE		
4.1	Objectives	17
4.2	Assumptions	17
4.3	Waste Handling & Management	17
4.4	Waste & Recycling – Service Requirements	18
4.5	Waste & Recycling Generation Rates	18
4.6	Provision of Waste & Recycling Services	19
4.7	Sanitary Waste	21
4.8	Green Waste	22
4.9	On Going Operation, Use & Management of Facilities	22
PART 5 – SUMMARY		
5.1	Summary	23

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 demolition, 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: -

1. Satisfy all State and Local Government regulatory controls regarding waste management and minimisation practices,
2. Promote the use of recyclable materials in the excavation, construction, and on-going operation of the building,
3. Maximise waste reduction, material separation, and resource recovery in all stages of the development,
4. 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, and,
5. 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 Muswellbrook Shire LGA.

This WMP is prepared in accordance with: -

- Muswellbrook Local Environment Plan 2009,
- Muswellbrook DCP 2015, and relevant waste management guidelines,
- All Conditions of Consent issued under the approved DA for the project,
- All relative requirements of SEPP Educational Establishments and Child Care Facilities) 2017, as they apply to the provision of waste management facilities and services,
- Current industry standards and practices for the storage and collection of waste within Commercial Developments, specifically for Child Care Centres, 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 Muswellbrook Shire Council for the construction of a part one (1) and part two (2) storey building, over one (1) basement level, with the provision for car parking, servicing, associated amenities and ancillary facilities, to be used as a Child Care Centre, at 118 Maitland Road, Muswellbrook. The centre will provide day care services for 92 children.

This WMP, dated 1 March 2024 has been prepared to be submitted to Council as part of the DA Package for the proposed development. The WMP has been developed and documented in accordance with the Architectural Drawings prepared by Art Made Architects – Project No 23714.

1.2 PROJECT & PROPERTY DESCRIPTION

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

DESCRIPTION	Child Care Centre (92 Children)
DETAILS	One (1) and two (2) Storey Building, comprising: <ul style="list-style-type: none">- 6 x Internal Playrooms,- 3 x Outdoor Play Areas,- Cot Rooms and Nappy Change,- Kitchen, staff amenities, offices, and storerooms,- One (1) basement for off street-car parking,- Associated site works, drainage, landscaping and ancillary facilities; and,- The provision of waste storage facilities.
PROPERTY DESCRIPTION	The development is to be constructed over one (1) existing Torrens Title allotment at Lot 1, in DP229637, 118 Maitland Road, Muswellbrook.
LOCATION	118 Maitland Road, Muswellbrook.
DIMENSIONS	Refer to Site and Survey Plans
SITE AREA	925sqm (Survey)
LGA	Muswellbrook Shire City Council
ZONING	Zone R2 – Low Density Residential
PLANNING INSTRUMENTS	Muswellbrook LEP 2009 Muswellbrook DCP 2009

1.3 APPLICANTS DETAILS

APPLICANT	Ms Jacky Angeloska C/- Art Made Architects
ADDRESS	Studio 507 / 50 Holt Street, Surry Hills. NSW. 2010.
TELEPHONE	02 9188 8250
E-MAIL	mina@artmade.com.au

1.4 PROPOSAL

The proposal involves the construction of a part one and part two (2) storey building, over one (1) basement level, with the provision for car parking, servicing, associated amenities and ancillary facilities, to be used as a Child Care Centre.

The centre will provide day care services for 92 children.

Egress from the site is onto Maitland Road onto the southern frontage of the site.

Waste storage facilities are located in a designated Bin Room (BR) located in the south-western corner of the basement as indicated on the Architectural Drawings.

Current buildings and structures on the site include a single storey timber framed and fibro clad dwelling with a sheet metal roof, front and rear verandas, partly attached carport, rear sheds and two (2) caravans in rear yard, gravel driveway, front and rear grassed areas, trees and shrubs, with a sewerage easement in the rear yard, and, timber paling and metal perimeter fencing.

The project consists of: -

1. The demolition of the dwelling all associated structures, and the removal of all associated structures on both lots,
2. Levelling and clearing of the site,
3. The excavation of the site to construct the basement and building,
4. The construction of the building,
5. The provision of landscaping, off street-car park, driveways, concrete pathways and other elements associated with the development, and,
6. The on-going use of the building.

Muswellbrook Shire Council require a demolition, construction, and operational waste management plan to be submitted describing how all demolition, construction and operational waste will be stored, disposed of, and managed.

This Waste Management Plan has been developed not only to satisfy Council's requirements, but also to ensure that all waste management activities associated with the development are carried out and conducted in accordance with best practice industry standards.

PART 2 – DEMOLITION

2.1 DEMOLITION – OVERVIEW

It is recognised that Sydney has an ever-increasing waste problem, and this practice is not sustainable. In alignment with current NSW waste management legislation, this WMP aims, where possible, to promote waste avoidance, reuse, and the recycling of material, particularly during the course of demolition and construction works.

Part 2.2 on Pages 6, 7, 8, 9, 10, 11 and 12 of this WMP describes the manner in which waste is to be managed during the course of the demolition of the existing structures.

The processes outlined in Part 2.2 are to be read in conjunction with, and comply, with the Development Consent issued in respect of the proposal. It will be the developer's overall responsibility to ensure compliance in this regard.

All material moved offsite shall be transported in accordance with the requirements of the Protection of the Environment Operations Act (1997).

Approved receptacles 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 BUILDINGS TO BE DEMOLISHED

Current buildings and structures on the site include a single storey timber framed and fibro clad dwelling with a sheet metal roof, front and rear verandas, partly attached carport, rear sheds and two (2) caravans in rear yard, gravel driveway, front and rear grassed areas, trees and shrubs, with a sewerage easement in the rear yard, and, timber paling and metal perimeter fencing.

2.3 MANAGEMENT OF HAZARDOUS WASTE MATERIALS

Due to the age and construction of the existing buildings on the site, there is reasonable potential for hazardous building materials to be present in the buildings to be demolished. Accordingly, the generation, storage, treatment and the disposal of hazardous waste (including asbestos) will be conducted in accordance with relevant waste legislation administered by the NSW EPA and any applicable WH&S legislation administered by Work Cover NSW.

All friable and non-friable asbestos-containing material shall be handled and disposed of off-site at an EPA licensed waste facility by an EPA licensed contractor in accordance with the requirements of the Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classifications Guidelines – Part 1 'Classifying Waste (EPA 2014) and any other instrument as amended.

All friable hazardous waste arising from the demolition process shall be removed and disposed of in accordance with the requirements of Work Cover NSW and the EPA, and with the provisions of:

- a) Work Health and Safety Act 2011,
- b) NSW Protection of the Environment Operations Act 1997 (NSW), and,
- c) NSW Department of Environment and Climate Change Environmental Guidelines; Assessment, Classification and Management of Liquid and Non-Liquid Wastes.

Generation, storage, treatment, and the disposal of hazardous waste (including asbestos) will be conducted in accordance with relevant waste legislation administered by the NSW EPA and any WH&S legislation administered by Work Cover NSW.

2.4 DEMOLITION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details prescribe the manner in which all material involved in the demolition of the building will be dealt with, and includes: -

- a) An estimate of the types and volumes of waste and recyclables to be generated,
- b) A site plan showing sorting and storage areas for demolition waste and vehicle access to these areas (see Part 2.3 of this Plan),
- c) How excavation and demolition waste materials will be reused, and, or recycled and where residual wastes will be disposed (see below), and,
- d) The total percentage of demolition waste that will be reused or recycled.

It is noted that the quantities of materials detailed in this part (Part 2.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of site constraints, weather conditions, and any other unforeseeable activities associated with the demolition works, which are beyond the control of the developer, including but not being limited to theft, accidents, and, or, other acts of misadventure.

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

1. Excavated Materials & Overburden

Volume / Weight	370 cubic metres / 629 Tonnes
On Site Reuse	Yes. Keep and reuse topsoil for landscaping. Shore on site. Use some for support of retaining walls (Excavated Materials are only to be used if the material is not contaminated or has been remediated in accordance with any requirements specified by any Environmental Consultancy engaged to carry out any contamination assessment of excavated material).
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Refer to Part 2.7 on page 11.

2. Green Waste

Volume / Weight	60 cubic metres / 9 Tonnes
On Site Reuse	To be separated. Chipped and stored on site for re-use in landscaping.
Percentage Reused or Recycled	90%
Off Site Destination	Refer to Part 2.7 on page 11.

3. Bricks

Volume / Weight	45 cubic metres / 45 Tonnes
On Site Reuse	Clean and remove lime mortar from bricks. Re-use in new footings. Broken bricks for internal walls. Crush and reuse as drainage backfill. Crushed and used as aggregate.
Percentage Reused or Recycled	75% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

4. Concrete / Gravel

Volume / Weight	60 cubic metres / 144 Tonnes
On Site Reuse	Existing driveways to be retained during construction. Crushed and used as aggregate, drainage backfill.
Percentage Reused or Recycled	75% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

5. Timber

Volume / Weight	65 cubic metres / 26 Tonnes
On Site Reuse	Re-use for formwork and studwork, landscaping, shoring.
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

6. Plasterboard & Fibro

Volume / Weight	100 cubic metres / 35 Tonnes
On Site Reuse	No. All materials will be processed off-site
Percentage Reused or Recycled	To be determined (dependent on asbestos content)
Off Site Destination Off Site Destination (Asbestos)	Refer to Part 2.7 on page 11.

7. Metals / Steel / Guttering & Downpipes

Volume / Weight	115 cubic metres / 40.25 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	60% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

8. Roof Tiles / Tiles

Volume / Weight	60 cubic metres / 45 Tonnes
On Site Reuse	Broken up and used as fill, aggregate, driveways.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

9. Fixture & Fittings (Doors Fittings, Other Fixtures, etc)

Volume	100 cubic metres / 35 Tonnes
On Site Reuse	No. All material will be processed or disposed of Off-site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Refer to Part 2.7 on page 11.

10. Glass, Electrical & Light Fittings, PC items, Ceramics, etc

Volume / Weight	120 cubic metres / 40 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	To be determined (dependent upon nature of material)
Off Site Destination	Refer to Part 2.7 on page 11.

11. Residual Waste

Volume / Weight	110 cubic metres / 110 Tonnes
On Site Reuse	No
Off Site Destination	Refer to Part 2.7 on page 11.
Notes on calculation of volume of residual waste	<ol style="list-style-type: none">1. In calculating the amount of residual waste produced from the demolition of all buildings on site, it is estimated that 10% of it, will be residual waste.2. As all of the materials vary in weight per volume, a figure of 1 cubic metre of material is equal to 1 tonne in weight has been used.

It is noted that the quantities of materials detailed in this section (Part 2.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, weather conditions, and any other unforeseeable activities associated with the demolition of the buildings, which are beyond the control of the developer, including but not being limited to theft, accidents, and other acts of misadventure.

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 have been nominated to receive the materials listed above have been identified within the NSW waste industry as being a facility or agency

that will accept the materials specified in each respective table. The developer understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The developer 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 materials excess to construction removed from the site are disposed of, or processed, appropriately.

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.

2.5 DEMOLITION – ON-SITE STORAGE OF MATERIALS

During the demolition stage of the project, an area will be set aside on the site as a compound for the on-site storage of materials prior to their removal from the site. This compound will provide for: -

- Material sorting,
- Segregation of materials that may be hazardous and which will be required to be disposed of,
- Recovery equipment, such as concrete crushers, chippers, and skip bins,
- Material storage, and,
- Access for transport equipment.

Appropriate vehicular access will be provided on and off site, and to the compound, to enable the efficient removal of reusable, recyclable, and waste materials.

Prior to the commencement of demolition works, the developer will provide Council with a 'Site Plan for the On-Site Storage of Materials at Demolition'. This plan will show in detail the location of each area within the compound, set aside for the segregated storage of all materials involved in the demolition of all buildings on the site.

2.6 DEMOLITION – EXCAVATED MATERIAL

All excavated material removed from the site, as a result of the demolition of all buildings, must be classified in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to their removal, transportation, and disposal to an approved waste management facility.

All relevant details must be reported to the PCA.

2.7 LICENSED PROCESSING & DISPOSAL FACILITIES

The facilities nominated below are appropriately licensed to receive the materials nominated in Tables 1 to 11 on pages 6 to 10 and Part 2.7 on page 11.

1. Muswellbrook Waste and Recycling Facility, 252 Coal Road, Muswellbrook. NSW. 2333 – Tel 02 6549 3852.
2. Denman Transfer Station, Rosemount Road, Denman. NSW. 2328 – Tel 02 6549 3852.

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.

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.

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 contractor's responsibility to ensure that all demolished materials removed from the site are disposed of, or processed, appropriately.

The developer will keep a written record of all documentation associated with the transportation, disposal, and processing of all materials excess to the construction of the building.

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

PART 3 – CONSTRUCTION

3.1 CONSTRUCTION – GENERALLY

Upon completion of all demolition works, construction of the building will commence with the excavation of the site for the basement levels of the building. All materials sourced from these activities will be disposed of in accordance with the information provided in Part 3.2 on pages 12, 13, 14, 15 and 16 of this WMP.

Additionally, all materials used in the construction of the building that are not required to be incorporated into it, shall be recycled, reused, or disposed of in accordance with these provisions, and 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.

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.

3.2 CONSTRUCTION – RECYCLING, REUSE & DISPOSAL DETAILS

The following 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 and volumes of waste and recyclables to be generated,
- b) A site plan showing sorting and storage areas for construction waste and vehicle access to these areas (see Part 3.3 of this Plan),
- c) How excavated and other materials surplus to construction will be reused or recycled and where residual wastes will be disposed (see below), and,
- d) The total percentage of waste surplus to construction to be reused or recycled.

1. Excavated Materials

Volume / Weight	3,000 Cubic Metres / 5,100 Tonnes (Basement excavation)
On Site Reuse	Yes. Keep and reuse topsoil for landscaping. Shore on site. Use some for support of retaining walls (Excavated Materials are only to be used if the material is not contaminated or has been remediated in accordance with any requirements specified by any Environmental Consultancy engaged to carry out any contamination assessment of excavated material).
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Refer to Part 3.5 on page 16.

2. Bricks

Volume / Weight	5 cubic metres / 5 Tonnes
On Site Reuse	Clean and remove lime mortar from bricks. Broken bricks for internal walls. Crush and reuse as drainage backfill. Crushed and used as aggregate.
Percentage Reused or Recycle	75% - 90%
Off Site Destination	Refer to Part 3.5 on page 16.

3. Concrete

Volume / Weight	6 cubic metres / 14.4 Tonnes
On Site Reuse	Existing driveway to be retained during construction. Crushed and used as aggregate, drainage backfill.
Percentage Reused or Recycled	60% - 75%
Off Site Destination	Refer to Part 3.5 on page 16.

4. Timber

Volume / Weight	5 cubic metres / 7 Tonnes
On Site Reuse	Re-use for formwork and studwork, and for landscaping
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Refer to Part 3.5 on page 16.

5. Plasterboard & Fibro

Volume / Weight	6 cubic metres / 2 Tonnes
On Site Reuse	No – all material will be transported for disposal off-site.
Percentage Reused or Recycled	To be determined
Off Site Destination	Refer to Part 3.5 on page 16.

6. Metals / Steel / Guttering & Downpipes

Volume / Weight	5 cubic metres / 0.25 Tonnes
On Site Reuse	No
Percentage Reused or Recycled	60 – 90%
Off Site Destination	Refer to Part 3.5 on page 16.

7. Roof Tiles / Tiles

Volume / Weight	4 cubic metres / 3 Tonnes
On Site Reuse	Broken up and used as fill.
Percentage Reused or Recycled	80% - 90%
Off Site Destination	Refer to Part 3.5 on page 16.

8. Plastics

Volume / Weight	5 cubic metres / 1 Tonne
On Site Reuse	Nil
Percentage Reused or Recycled	80% - 95%
Off Site Destination	Refer to Part 3.5 on page 16.

9. Glass, Electrical & Light Fittings, PC items

Volume / Weight	5 cubic metres / 1 Tonne
On Site Reuse	No
Percentage Reused or Recycled	70% - 90%
Off Site Destination	Refer to Part 3.5 on page 16.

10. Fixture & Fittings (Doors Fittings, Other Fixtures, etc)

Volume	10 cubic metres / 3.3 Tonnes
On Site Reuse	Broken up and used as fill.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Refer to Part 3.5 on page 16.

11. Pallets

Volume / Weight	25 cubic metres / 8 Tonne
On Site Reuse	No
Percentage Reused or Recycle	90% - 100%
Off Site Destination	Refer to Part 3.5 on page 16.

12. Residual Waste

Volume / Weight	350 cubic metres / 350 Tonnes
On Site Reuse	No
Off Site Destination	Refer to Part 3.5 on page 16.
Notes on calculation of volume of residual waste	<ol style="list-style-type: none">1. In calculating the amount of residual waste produced from the demolition of all buildings on site, it is estimated that 10% of it, will be residual waste.2. As all of the materials vary in weight per volume, a figure of 1 cubic metre of material is equal to 1 tonne in weight has been used.

It is noted that the quantities of materials detailed in this section (Part 3.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, weather conditions, and any other unforeseeable activities associated with the construction of the buildings, which are beyond the control of the developer, including but not being limited to theft, accidents, and other acts of misadventure. 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 have been nominated to receive the materials listed above have been identified within the NSW waste industry as being a facility or agency that will accept the materials specified in each respective table.

The developer understands that any costs associated with the transportation and receipt of all materials will be their responsibility. The developer 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 materials excess to construction removed from the site are disposed of, or processed, appropriately.

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

3.3 CONSTRUCTION – ON-SITE STORAGE OF MATERIALS

During the construction of the buildings, an area will be set aside on the site as a compound for the on-site storage of materials prior to their removal from the site. This compound will provide for: -

- Material sorting,
- Segregation of materials that may be hazardous and which will be required to be disposed of,
- Recovery equipment, such as concrete crushers, chippers, and skip bins,
- Material storage, and,
- Access for transport equipment.

Appropriate vehicular access will be provided on and off site, and to the compound, to enable the efficient removal of reusable, recyclables, and waste materials.

Prior to the commencement of construction works, the developer will provide Council with a 'Site Plan for the On-Site Storage of Materials at Construction'. This plan will show in detail the location of each area within the compound, set aside for the segregated storage of all materials involved in the demolition of all buildings on the site.

3.4 CONSTRUCTION – EXCAVATED MATERIAL

All excavated material removed from the site, as a result of any activities associated with the construction of the building, must be classified in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to removal, transportation and disposal to an approved waste management facility. All relevant details must be reported to the PCA.

3.5 LICENSED PROCESSING & DISPOSAL FACILITIES

The facilities nominated below are appropriately licensed to receive the materials nominated in Tables 1 to 10 on pages 6 to 8 and Part 3.4 on page 10.

1. Muswellbrook Waste and Recycling Facility, 252 Coal Road, Muswellbrook. NSW. 2333 – Tel 02 6549 3852.
2. Denman Transfer Station, Rosemount Road, Denman. NSW. 2328 – Tel 02 6549 3852.

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.

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.

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 contractors responsibility to ensure that all demolished materials removed from the site are disposed of, or processed, appropriately.

The developer will keep a written record of all documentation associated with the transportation, disposal, and processing of all materials excess to the construction of the building.

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

PART 4 – ON GOING USE

4.1 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 will promote the principles of health, safety and, convenience.
3. To promote waste minimisation practices.

4.2 ASSUMPTIONS

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

1. The proposal involves the construction of a part one and part two (2) storey building, over one (1) basement level, with the provision for car parking, servicing, associated amenities and ancillary facilities, to be used as a Child Care Centre.
2. The centre will provide day care services for 92 children.
3. Egress from the site is onto Maitland Road onto the southern frontage of the site.
4. Waste storage facilities are located in a designated Bin Room (BR) located in the south-western corner of the basement as indicated on the Architectural Drawings.
5. All mobile waste and recycling bins required for the on-going operation of the development will be stored within the confines of the bin room at all times.
6. As Council's Waste Management DCP does not prescribe waste and recycling generation rates for Child Care Centres, all waste and recycling generations have been calculated according to information provided in the Better Practice Guide for Resource Recovery published by the NSW EPA (April 2019).
7. All waste will be stored in 5 x 240-litre mobile bins.
8. All recycling material will be stored in 5 x 240-litre mobile bins.
9. Waste Services will be provided at least two (2) days per week.
10. Recycling services will be provided at least two (2) days per week.
11. As the centre is a commercial operation, a licensed private waste collection contractor will provide all waste and recycling services to the building.
12. All waste and recycling collections will take place from a loading area in the driveway aisle bay in the basement as detailed herein.

4.3 WASTE HANDLING & MANAGEMENT

The proprietors of the Child Care Centre will be responsible for depositing their waste and recycling material into the appropriate bins. All waste is to be placed in the red lidded waste bins. All recyclable material is to be placed in the yellow lidded recycling bins.

All waste and recyclable material is to be removed from the centre at the conclusion of each days' operations and is to be deposited in the appropriate bins provided in the Waste Storage Area (WSA).

Appropriate signage will be erected in a prominent place within the building to assist employees of the Centre to ensure that all waste and recyclable material is placed into the appropriate bins.

4.4 WASTE & RECYCLING – SERVICE REQUIREMENTS

The Child Care Centre is a commercial enterprise, and due to the nature of its use, will generate both waste and recyclable material.

Due to its commercial nature, the provision of residential waste and recycling services to the development do not apply.

Accordingly, commercial waste and recycling services will be provided to the Centre.

No formal green waste service will be provided to the building. All green waste will be disposed of privately by a contractor to be appointed by the Proprietor. It will be the responsibility of the Proprietors of the Child Care Centre to ensure that all green waste is removed from the complex in an appropriate manner.

4.5 WASTE & RECYCLING GENERATION RATES

As Council's Waste Management DCP does not prescribe waste and recycling generation rates for Child Care Centres, all waste and recycling generations have been calculated according to information provided in the Better Practice Guide for Resource Recovery in Residential Buildings published by the NSW EPA.

Table 1 below provides all details of these calculations.

TABLE 1 – FORMULA FOR CALCULATION WASTE & RECYCLING GENERATION RATES FOR CHILD CARE CENTRES

SERVICE	WASTE & RECYCLING GENERATION RATES
Waste	5.0-litres of waste per child per day (5.0 litres x 92 children per day)
Recycling	5.0-litres of recyclable material per child per day (5.0 litres x 92 children per day)
Sanitary Waste	Refer to Part 4.7 of WMP

The following table (Table 2) specifies the criteria for waste and recycling generation rates based on the above formula.

**TABLE 3 – CHILD CARE WASTE & RECYCLING GENERATION RATES
&
SERVICE REQUIREMENTS**

SERVICE TYPE	WASTE GENERATION RATES Litres of Space / Child / Week			TOTAL SPACE REQUIRED	BIN SIZE	SERVICES PER WEEK	BINS REQUIRED	BINS PROVIDED
	Litres	Children	Days					
Waste	5	92	5	2,300	240	2	4.79	5
Recycling	5	92	5	2,300	240	2	4.79	5
Sanitary	Refer to Part 4.7 of WMP							

The following table (Table 3) specifies the proposed bin servicing arrangements for the development and is based on the above waste and recycling generation rates: -

TABLE 3 – PROPOSED SERVICING ARRANGEMENTS

WASTE	RECYCLING	SANITARY WASTE
5 x 240-litre bins Two (2) x Services per Week	5 x 240-litre bins / Two (2) x Services per Week	Refer to Part 4.7

4.6 PROVISION OF WASTE & RECYCLING SERVICES

4.6.1 Waste and Recycling Collection Service Provider Details

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

The Proprietors of the Child Care Centre will enter into a Service Level Agreement with the waste and recycling contractor in relation to the provision of both waste and recycling services to the development, and the manner in which they will be provided.

4.6.2 Details of Mobile Containers

In relation to the size and design of the waste and recycling mobile bins, the following technical information is provided: -

CONTAINER TYPE	HEIGHT (metres)	DEPTH (metres)	WIDTH (metres)
240-litre mobile container	1.080	0.735	0.585

4.6.3 Waste & Recycling Requirements

Waste and recycling requirements are provided in the table below.

SERVICE	NUMBER OF CONTAINERS	COLLECTION FREQUENCY
Waste Service	5 x 240-litre mobile containers	Two (2) Services per Week
Recycling Service	5 x 240-litre mobile containers	Two (2) Services per Week

4.6.4 Location, Design, and Construction of Bin Room (BR)

Waste storage facilities are located in a designated Bin Room (BR) located in the south-western corner of the basement as indicated on the Architectural Drawings.

The Bin Room is an enclosed structure, with an area of approximately 16sqm, and will provide storage space for 5 x 240-litre mobile waste bins and 5 x 240-litre mobile recycling bins.

All mobile waste bins required for the on-going operation of the development will be stored within the confines of this WSA at all times.

4.6.5 Collection System – On Site Collection

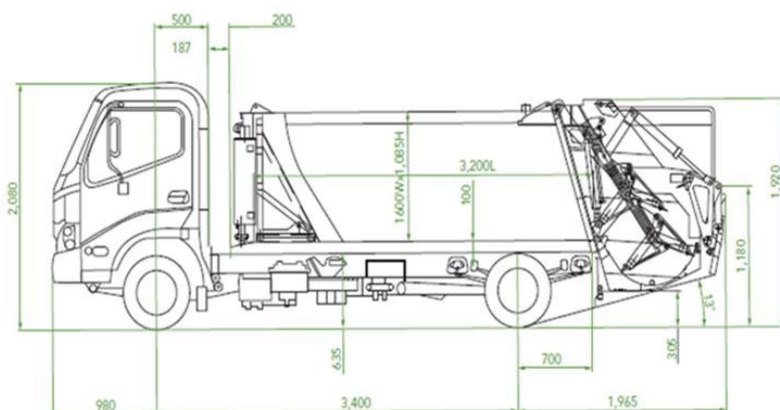
All waste and recycling collection services will be provided by a licensed private waste and recycling collection contractor and will take place from a loading area located in a driveway aisle in the basement as indicated on the Architectural Drawings.

The loading bay has been designed to accommodate a rear loading SRV collection vehicle. The loading area is situated approximately seven (7) metres from the WSA on an at-grade level.

Servicing of the bins will take place between 10am and 2pm when the car spaces will be empty and access to the loading area will not be impeded.

An example of a typical SRV is provided below.

The vehicle will enter and exit the site in a forward direction, entering from Maitland Street. Once into the basement the vehicle will do a three (3) point turn into parking



4.6.6 Servicing Arrangements – Waste Collections

All waste bins will be serviced from a loading area as detailed in Part 4.6.5 on page 19 and above.

Upon the arrival of the collection vehicle to the site, a member of the contractor's collection team will remove the bins from the bin room and transport them to the collection vehicle stationed in the loading area and place the bins onto the lifting device and deposit the contents of each bin into the body of the collection vehicle.

The bins will be returned to the bin room as soon as they have been serviced.

These bins will be transported from the bin room to and from the collection vehicle in accordance with all relative work, health, and safety requirements.

Waste bins will be serviced two (2) days per week, on days to be determined by the proprietor of the centre in conjunction with the Contractor.

All 5 x 240-litre mobile waste bins will be serviced on each collection day.

4.6.7 Servicing Arrangements – Recycling Collections

All recycling bins will be serviced from a loading area as detailed in Part 4.6.5 on page 19 and above.

Upon the arrival of the collection vehicle to the site, a member of the contractor's collection team will remove the bins from the bin room and transport them to the collection vehicle stationed in the loading area and place the bins onto the lifting device and deposit the contents of each bin into the body of the collection vehicle.

The bins will be returned to the bin room as soon as they have been serviced.

These bins will be transported from the bin room to and from the collection vehicle in accordance with all relative work, health, and safety requirements.

Recycling will be serviced two (2) days per week, on days to be determined by the proprietor of the centre in conjunction with the Contractor.

All 5 x 240-litre mobile recycling bins will be serviced on each collection day.

4.7 SANITARY WASTE

Sanitary waste includes disposable nappy and incontinence waste product waste and is to be disposed of in accordance with the requirements of the NSW EPA.

According to EPA standards sanitary waste is not classified as clinical waste, as such it does not need to be treated and can be disposed of directly to landfill through supervised burial.

All sanitary waste will be stored in an appropriate number of receptacles and be disposed of separately to the general waste bins by a licensed contractor authorized to do so. Given the number of children attending the centre on a daily basis will be 92, an appropriate number of 45-litre nappy bins will be provided to store all sanitary (nappy and toilet) waste. It is understood that these bins measure approximately 600mm x 300mm and will hold approximately 50 to 60 soiled nappies, which will account for approximately 4 x episodes per child per day of sanitary waste.

All sanitary waste will be stored in nappy bins provided in the Nappy Change Room. The bins will be stored in a small area of approximately 1.5m x 0.5m. The area is to be cleaned and maintained twice per day. an appropriate number of receptacles and be disposed of separately to the general waste bins by a licensed contractor authorized to do so.



Example 45-litre Nappy Bin

Efficient changing and disposal of soiled nappies, significantly reduces the risk and spread of diseases transmitted by faeces and body fluids.

In order to minimise the risk and spread of infectious diseases that are transmitted by faeces and other body fluids through changing nappies, the following resources will be provided in an appropriate location within the facility:

- Stable Nappy Change table or bench,
- A mat or surface of change table that is impervious (non-penetrable),
- Hand washing facilities,
- Sanitary facilities for storage of wet and soiled nappies,
- Storage area for clean nappies,

- Gloves, and,
- Paper towels, wipes, soap, and detergent and warm water

The proprietor of the facility will abide by their obligations under the current Education and Care Services National Regulations and the relevant National Quality Standard in relation to nappy changing and nappy changing practices with children.

Any nappy changing bench or mat must be cleaned after each use

Nappy changing facilities must be designed, located and maintained so as to prevent unsupervised access by children (this relates to children not being able to climb on high change tables nor access unsafe products). Nappy changing facilities must be separate from food preparation facilities.

The dignity and need for privacy of each child is respected during Nappy Changing, incorporating the following procedures:

- Children be closely attended on the nappy change table (if applicable),
- Liaise with families to establish and maintain Nappy Change routines with each child that are workable at home and in the Day Care setting,
- Provision of information about each child's Nappy Changing to their family each day via methods that suit the home environment and family,
- Support Nappy Changing as being a relaxed and positive experience, and,
- Consider and accommodate the specific health and hygiene needs of older children in care, giving consideration to protecting their dignity and respecting their right to privacy.

4.8 GREEN WASTE

No formal green waste service will be provided to the development. It will be the responsibility of the Proprietors of the centre to ensure that all green waste generated from the on-going use of the development is disposed of appropriately.

4.9 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 is to 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 Centre identifying the location of the WSA as well as providing instruction to employees on how to use waste and recycling facilities, including what is and what is not recyclable.
6. The proprietor of the centre will be responsible for ensuring that all waste and recyclable matter and materials are placed and stored within the appropriate containers provided.

PART 5 – SUMMARY

5.1 SUMMARY

In summarising this proposal, the following information is provided:

1. This Waste Management Plan has been developed and documented in accordance with the requirements of Council.
2. Council's Waste Management DCP does not prescribe waste and recycling generation rates for Child Care Centres. As such all waste and recycling generations have been calculated according to information obtained in the Better Practice Guide for Resource Recovery in Residential Buildings, published by the NSW EPA.
3. All waste and recycling services will be provided by a licensed private waste and recycling collection contractor.
4. The proprietor of the Child Care Centre 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.
5. The WMP aims to promote the use of recyclable materials in the excavation, demolition, construction, and on-going operation of the building.
6. The WMP aims to 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.
7. The WMP aims to ensure that the provision of waste and recycling services to the completed buildings are carried out in an efficient manner, which will promote the principles of health, safety, and convenience.

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 Muswellbrook Shire Council.
