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**WASTE MANAGEMENT PLAN - WMP
PROPOSED CHILDCARE**

**1157-1165 BURWOOD HIGHWAY,
UPPER FERNTREE GULLY**

P/2020/6347

**FOR
TAG - FERNTREE GULLY PTY LTD
C/- FD ARCHITECTS PTY LTD**

REF 18504
JUL 2024



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ISSUE	DATE	PREPARED	STATUS
A	18.07.2024		DRAFT
B	03.09.24		FINAL

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1.0 Introduction

The submission of this Waste Management Plan (WMP) is consistent with Sustainability Victoria's "Waste Management and Recycling in Commercial Developments."

The WMP provides details on the proposal's expected waste generation, dimensions of waste receptacles and enclosures, collection frequencies and details on the type of collection proposed.

Furthermore, the WMP outlines how the development will meet Knox City Council Waste Management guidelines during its occupation and operation.

The Project

Architectural drawings prepared by	Fd Architects Pty Ltd
Reference - Revision - Date	UP2404FD TP -7- 06.2027

2.0 Development Description and Land Use

The project consists of the following:

- 120 children childcare centre. (965m² gross floor area)
- Basement carpark.

Site area	4013m ²
Location	Upper Ferntree Gully.
Municipality	Knox City Council.

WASTE PARAMETERS

BINS LOCATION	Bin enclosure located in the basement	
COLLECTION LOCATION	Basement carpark	
COLLECTION VEHICLE	Small SRV (6.4m)	
COLLECTION FREQUENCY	General garbage waste	Twice weekly
	Recycled waste	Twice weekly

Waste collection is proposed to be collected on-site. The designated vehicle able to enter/exit the site in a forward direction.

Vehicle access is via the basement ramp from Burwood Highway to the site.

The Operator is responsible for:

- To sort the generated waste into the appropriate waste bins.
- Appoint a private waste contractor with an appropriate vehicle (6.4m long) within its fleet to undertake collections on-site.
- Negotiate the supply, rental or purchase of bins from the private waste collector or a bin supplier.
- Monitor, prevent over filling of the bins and keep the lids closed.
- Remove any site litter or spillage that may occur prior the collection process

The waste collection company is responsible for:

- Manoeuvring the bins in and out of the bins enclosure.
- Cleaning any spillage that may occur during the collection process.

Responsibilities of the childcare centre operator, the waste collection contractor, the landowner and the builder are outlined in this plan.

3.0 Waste Generation and System

3.1 WASTE GENERATION

The general waste and recycling generation rates associated with childcare centres are outlined in Sustainability Victoria’s “Waste Management and Recycling in Multiunit Developments Better Practice Guide” (2019).

The general waste and comingled recycling generation rates for the development are as follows.

THE PROJECT

	120 Children Childcare	
	965m ²	
WASTE STREAM	RATE	WEEKLY VOLUME
GARBAGE	350L/100 m2 floor area/week	3377.5L
COMMINGLED RECYCLING	350L/100 m2 floor area/week	3377.5L

Green waste rates are not provided. A contractor will be engaged to maintain the garden areas.
Disposal of green waste will be the responsibility of the contractor.

SYSTEM

The following table sets out the bin sizes required based on the waste generation of the proposed use.

WASTE STREAM	VOLUME	BIN SIZE	BINS QUANTITY	COLLECTION FREQUENCY	PROVIDER
GARBAGE	3377.5L	1100L	2	2	Private
COMMINGLED RECYCLING	3377.5L	1100L	2	2	Private

4.0 Waste Bin Storage Location and Size

4.1 BIN STORAGE LOCATION

LOCATION	Basement carpark
BIN STORAGE SIZE (M²)	30m ²
COLLECTION POINT	Loding bay adjacent to bins enclosure

4.2 BIN SIZE

LITRE	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)	BIN LID COLOR
1100L	1400	1200	1500	GREEN
1000L	1400	1200	1500	YELLOW

ADDITIONAL NOTES:

1. To avoid contamination between garbage streams, bin lids will be colour coded to ensure that garbage and recycling bins are easily distinguishable with typical signage.
2. Adequate lighting should be provided to the bin enclosure.
3. Adequate ventilation should be provided to the bin enclosure.
4. A water tap should be in the bin store, connected to the main sewer. A bin washing contractor to be engaged on regular basis.
5. The bin store should be monitored and cleaned on a regular basis to remove sources of any odours.
6. The design and construction should comply with all applicable Australian National Construction Codes.
7. Hard waste shall be stored within the nominated location, and collection to be organised by a hard waste disposal contractor.
8. E-Waste can be taken to the local Transfer and Recycling centre.

5.0 Waste Collection

The contractor will collect bins within the carpark area outside of centre operating hours. The contractor shall transfer waste/recycling from the bin storage area to the collection vehicle and back.

Private waste collection vehicles are typically represented by the 'small rigid vehicle' (SRV) from AS2890.2-2018, which is 6.4 metres long.

Swept path diagrams are attached at Appendix A, confirming that the SRV can enter basement carpark the in a forward direction, reverse within the loading bay and exit the site in a forward direction after the collection

The contractor will transfer bins by hand to the vehicle, empty and return them to the bin storage area.

The generally flat environment enables the contractor to move the bins by hand.

The contractor will clean up any spillage that may occur during servicing. EPA's "Noise Control Guidelines" (2008) specify that non-residential waste collection undertaken two or more times per week should occur between:

- 7am - 8pm Monday to Saturday
- 9am - 8pm Sunday and public holidays

This can be modified if advised by Council under Local By-Laws (if required).

The private contractor will be responsible for the safety of emptying of bins. This will include OH&S systems to be provided to the childcare centre Operator prior to being awarded the contract.

This will also be reviewed as part of regular Operator management including reviewing frequency of collections.

6.0 Waste Management Systems

OWNER RESPONSIBILITIES

The Land Owner shall be responsible for the following:

- Ensure there are no gaps in terms of area of responsibility for the maintenance and management of waste facilities, as outlined in the following section of this plan.

This should be reviewed on an annual basis to ensure proper management is occurring from the owner's requirements.

BUILDER RESPONSIBILITIES

The Builder shall be responsible for the following:

- Construct waste compounds in accordance with relevant standards/guidelines, including the size specified by the WMP / development plans. This should be completed as part of the construction of the childcare centre.
-

OPETRATOR RESPONSIBILITIES

The childcare centre Operator shall be responsible for the following, as applicable:

- Ensure that any container used for the storage of refuse is:
 - Thoroughly cleaned at regular intervals.
 - Always kept in good order and in a clean and sanitary condition.
 - Ensure the storage area in which the bins will be stored is maintained as per the requirements set out in this Waste Management Plan.
 - Develop and implement adequate safe operating procedures (including the preparation of Safe Work Method Statements) for staff of the childcare centre.
 - Secure the waste areas and labelling or numbering the bins according to the property address to protect the equipment from theft and vandalism.
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7 Sustainability

SUSTAINABILITY

The operator to promote Victoria's **Getting Full Value - Waste and Resources Recovery Policy 2013** sets targets for increasing the recovery rate of solid waste for refuse and recycling

Further information can be sought from Sustainability Victoria website; www.sustainability.vic.gov.au

CONTACT INFORMATION

KS Environmental - www.ksenvironmental.com.au

Speedie Waste - <http://www.speediewaste.com.au>

Veolia Environmental Services - www.veoliaes.com.au

JJ Richards & Sons www.jjrichards.com.au

<https://www.ecoguardians.com.au/soilfood/soilfood>

<https://melbournebincleaning.com.au/>

<https://draffin.com.au/>

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6.0 Conclusion

This report is produced to certificate a Waste Management Plan required for the town plan application.

This report is based on the following:

- Operational use of the development.
- Drawings and information supplied by Fd Architects Pty. Ltd.
- The waste figures in this report are based on Sustainability Victoria Standards. The precise waste amount will be subject to the occupants' waste generation. The operators are encouraged and can adjust the bin sizes or swap a garbage bin to recycle or recycle to garbage based on the waste type that has been exceeded.

The above are guidelines to assist the above property to meet the council guidelines for waste management. It is the responsibility of the owner/builder to follow the above guidelines to meet requirements. It is not the responsibility of Keystone Alliance.

Four wheeled MGB's are proposed for garbage and recycling waste disposal and collection for the childcare centre development. Hard waste collection is proposed from a storage/collection point within the site. Private contractor collecting waste on-site is appropriate with swept paths confirming the specified vehicle can enter/exit the site in a forward direction.

Each waste stream will be collected one to two times per week per waste stream, plus collection hard waste on an as need basis. Collection will be undertaken outside centre operating hours.

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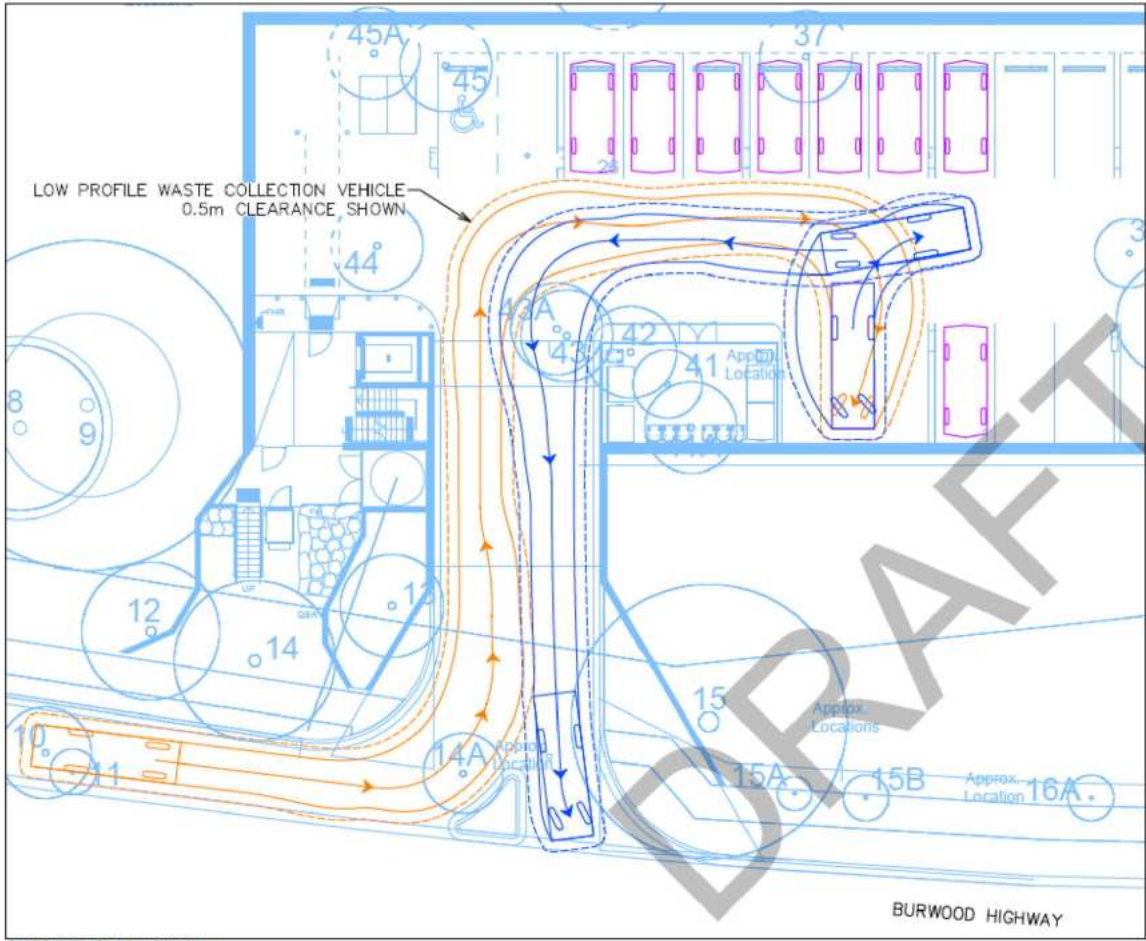
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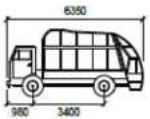
APPENDICES

APPENDICES A

SWEEP PATH



WASTE COLLECTION ACCESS



6.35m GARWOOD MINER

	mm
Width	1840
Track	1840
Lock to Lock Time	6.0
Steering Angle	-45.4

TAG - FERNTREE GULLY PTY LTD
 CHILDCARE CENTRE
 1157-1165 BURWOOD HIGHWAY
 UPPER FERNTREE GULLY
 SWEEP PATH ANALYSIS



Service:
 Approachability.
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DATE	05-08-2024	SHEET	A3
PROJECT/CLIENT	SALT-24137-SK-001		

NO.	2
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APPENDICES B

