APPENDIX A: Waste Management Plan Template

APPLICANT AND PROJECT DETAILS					
Applicant Details	Applicant Details				
Application No.					
Name	Sinas Kurtovic				
Address	6/10-12 Martin Place, Mortdale NSW				
Phone No.	0414 505 421				
Email	sinas@DKTstudio.com				
Project Details					
Site Address	15-17 Cecily Street Belfield				
Existing building(s) and/or other structure(s) on site	Two single storey brick houses				
Description of proposed development	8 units (4 one bed units + 4 two bed units) under Senior Living SEPP				
The details on this form are the provisions and intentions for minimising and managing 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, WorkCover NSW, NSW Environment Protection Agency and/or the NSW Department of Environment and Heritage.					
Name	Sinas Kurtovic				
Signature	Comst.				
Date	April 14, 2022				

DEMOLITION				
	Reuse	Recycle	Disposal	
Type of Waste Generated	Estimate Volume (m³) or weight (t)	Estimate Volume (m³) or weight (t)	Estimate Volume (m³) or weight (t)	Specify method of onsite reuse, contractor and recycling outlet and/or waste depot to be used
Excavation Material	20m3			Cut and fill + Stockpiled Onsite for Landscaping
Timber (specify)		70m2		Stored Onsite for Reuse or Disposal to recycler via trailer.
Concrete		50m3		waste depot
Bricks/Pavers		65m3		contractor and recycling outlet
Tiles		3m3		contractor and recycling outlet
Metal (specify)		1m3		recyclingoutlet
Glass		0.25m3		recyclingoutlet
Furniture	n/a	n/a	n/a	n/a
Fixtures and fittings		0.2m3		waste depot
Floor coverings		4m3		recyclingoutlet
Packaging (used pallets, pallet wrap)		0.6m3		Pallet wrap in skip bin - pallets returned to company on completion of job.
Garden Organics		1m3		recvcling outlet
Containers (cans, plastic, glass)	n/a	n/a	n/a	n/a
Paper/Cardboard	n/a	n/a	n/a	n/a
Residual Waste			0.3m3	waste depot
Hazardous/Special Waste e.g. asbestos (specify)			ТВА	ТВА
Other (specify)	n/a	n/a	n/a	n/a

CONSTRUCTION				
	Reuse	Recycle	Disposal	
Type of Waste Generated	Estimate Volume (m³) or weight (t)	Estimate Volume (m³) or weight (t)	Estimate Volume (m³) or weight (t)	Specify method of onsite reuse, contractor and recycling outlet and/or waste depot to be used
Excavation Material	150m3			On site cut and fill
Timber (specify)		1m3		contractor and recycling outlet
Concrete			0.5m3	waste depot
Bricks/Pavers		0.2m3		contractor and recycling outlet
Tiles		0.1m3		contractor and recycling outlet
Metal (specify)		0.1m3		contractor and recycling outlet
Glass		0.25m3		contractor and recycling outlet
Plasterboard (offcuts)		0.25m3		contractor and recycling outlet
Fixtures and fittings		0.25m3		contractor and recycling outlet
Floor coverings		0.5m3		contractor and recycling outlet
Packaging (used pallets, pallet wrap)		2.5m3		contractor and recycling outlet
Garden Organics		1m3		contractor and recycling outlet
Containers (cans, plastic, glass)		0.2m3		contractor and recycling outlet
Paper/Cardboard		2m3		contractor and recycling outlet
Residual Waste		0.5m3		waste depot
Hazardous/Special Waste e.g. asbestos (specify)	N/A	N/A	N/A	N/A
Other (specify)	350m3			On site cut and fill

ONGOING OPERATION					
	Recyclables		Compostables	Residual Waste	Other
	Paper/Cardboard	Metals/Plastics /Glass			
Amount generated (L per unit per day)	2L	2L	2	25L	
Amount generated (L per unit per week)	2L x 7days = 14L	2L x 7days = 14L	16	25Lx7days=175L	
Total amount generated for development	14Lx8units=112L 112L x 2weeks=224L	14Lx8units=112L 112L x 2weeks=224L	128	175Lx8units=1400L	
Any reduction due to compacting equipment	N/A	N/A	N/A	N/A	
Frequency of collections	Fortnight	Fortnight		Weekly	
Number and size of storage bins required	1x240l	1x240l	Compostable storage area or additional 2401 bin	1400L/240L=6x240L	
Waste room floor area and dimensions required for storage of bins	Refer to A03 Site/Ground Floor Plan	Refer to A03 Site/Ground Floor Plan	Refer to A03 Site/Ground Floor Plan	Refer to A03 Site/Ground Floor Plan	

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

ONSITE WASTE COLLECTION	
Driveway location	Refer to A03 Site/Ground Floor Plan
Driveway and access route width	Refer to A03 Site/Ground Floor Plan
Type of waste collection area, ie basement, loading dock etc	Kerb Side collection
Maximum reversing distance for collection vehicles and configuration of path (straight, curved etc)	Straight from pathway next to driveway
Distance from collection area to the property boundary (<15m)	12m
Headroom along vehicle travel path - measured at its lowest point from ceiling, ducting, conduits or any other obstruction.	n/a
Dimensions for vehicle manoeuvring/ turning circles, including on-street turning circles.	n/a
Structural capacity of slab for collection areas.	To allow for min. 16t
Ramp gradients	Less than 1:5
Vehicle turntable use – Weight capacity – Max wheel base – Provision for overhang	n/a
Dimensions, layout and floor area provided at bin collection point	Refer to A03 Site/Ground Floor Plan
Dimensions, layout and floor area provided for collection vehicle standing/collection area.	Refer to A03 Site/Ground Floor Plan
Grade of bin collection area, including for waste collection vehicle.	Refer to A03 Site/Ground Floor Plan

Obstructions to other users during waste collection	n/a
Legal arrangements for access for collection staff	n/a
Screening and amenity of collection areas.	Refer to A03 Site/Ground Floor Plan

CONSTRUCTION DESIGN

Outline how measures for waste avoidance have been incorporated into the design, material purchasing and construction techniques of the development (refer Section 3.2 of this Plan).

Materials

Proposed construction methods promote maximizing of reuse and recycling of construction materials and minimize waste generation.

Lifecycle

Improved project management, appropriate construction and installation as well as adaptive reuse expand lifecycle.

APPENDIX B: Waste and Recycling Generation Rates

Construction Waste – Renovations and Small Home Building

"Rule of Thumb" for renovations and small home building:

- Timber 5-7% of material ordered
- Plasterboard 5-20% of material ordered
- Concrete 3-5% of material ordered
- Bricks 5-10% of material ordered
- Tile 2-5% of material ordered

Waste and Recycling Generation	n Rates	
Premises Type	Waste Generation	Recyclable Material Generation
Backpackers" Hostel	40L/occupant space/week	20L/occupant space/week
Boarding House, Guest House	60L/occupant space/week	20L/occupant space/week
Community Facilities	480L/100m ² /week	240L/100m ² /week
Food Premises: Butcher Delicatessen Fish Shop Greengrocer Restaurant, Cafe Supermarket Takeaway food shop	80L/100m ² floor area/day 80L/100m ² floor area/day 80L/100m ² floor area/day 240L/100m ² floor area/day 10L/1.5m ² floor area/day 240L/100m ² floor area/day 80L/100m ² floor area/day	Variable Variable Variable 120L/100m ² floor area/day 2L/1.5m ² floor area/day 240L/100m ² floor area/day Variable
Hairdresser, Beauty Salon	60L/100m ² floor area/week	Variable
Hotel, Licensed Club, Motel	5L/bed space/day 50L/100m ² bar area/day 10L/1.5m ² dining area/day	1L/bed space/day 50L/100m ² bar area/day 50L/100m ² dining area/day
Offices	10L/100m ² floor area/day	10L/100m ² floor area/day
Shop less than 100m ² floor area Shop greater than 100m ² floor area	50L/100m ² floor area/day 50L/100m ² floor area/day	25L/100m ² floor area/day 50L/100m ² floor area/day
Showroom	40L/100m ² floor area/day	10L/100m ² floor area/day
Multi Dwelling, Residential Flat Buildings and Residential Accommodation in Mixed-Use Development	120L/unit/week	60L/unit/week

Table 2: Waste and Recycling Generation Rates for different types of development (sourced from the Model Waste Not DCP Chapter 2008 prepared by the NSW Department of Environment and Climate Change).

APPENDIX C: Indicative Bin Sizes

These dimensions are a guide only and confirmation from Council"s Waste Supervisor/contractor or private service operator should be sought prior to finalising waste storage and collection arrangements.

Mobile Garbage Bins (MGBs)

All MGBs should comply with Australian Standard for Mobile Waste Containers (AS 4123) which establishes standard size and colour requirements for bodies and lids based on materials contained.

Bin Type (2 wheels)	80L	120L	140L	240L	360L
Height (mm)	870	940	1065	1080	1100
Depth (mm)	530	560	540	735	885
Width (mm)	450	485	500	580	600
Bin Type (4 wheels)	660L	770L	1100L	1300L	1700L
Height (mm)	1250	1425	1470	1480	1470
Depth (mm)	850	1100	1245	1250	1250
Width (mm)	1370	1370	1370	1770	1770
Bin Type (bulk bins)	2.0m ³ Skip	3.0m ³ Skip	4.5m ³		
Height (mm)	865	1225	1570		
Depth (mm)	1400	1505	1605		
Width (mm)	1830	1805	1805		

Table 3: Indicative Bin Sizes sourced from the Better Practice Guide for Waste Management in Multiunit Dwellings, Department of Environment & Climate Change NSW 2008.

APPENDIX D: Waste and Recycling Storage Room/Area Design

The design of waste and recycling storage room(s) and/or area(s) should be in accordance with the following principles and standards:

Wa	aste and Recycling Stora	age Room/Area Design Checklist (residential development)	
	Principle	Requirement/Standard	Yes (Y) / No (N)
1.	Building Code of Australia (BCA)	Waste and recycling storage rooms must be constructed in accordance with the requirements of the BCA	Y
2.	Appearance	Waste/recycling storage rooms must be integrated into the design of the overall development.	Y
		Ideally located behind the front building line or basement location in the main building envelope/footprint.	Y
		Materials and finishes visible from communal or private open space, the public domain and/or adjoining and nearby properties should be of a similar style and quality to the external materials used in the host building.	Y
3.	Location	 Location and design should minimise adverse impacts associated with: Proximity of the room/area to any dwellings; Visibility of the room/area; Noise generated by any equipment located within the room; Noise generated by the movement of bins into and out of the room; Noise generated by collection vehicles accessing the site; and Odours emanating from the room. 	Y
4.	Size	Waste/recycling storage room(s) or area(s) must be of adequate size to comfortably accommodate all waste and recycling bins associated with development.	Y
5.	Layout	 The waste/recycling storage room(s) or area(s) should be graded to allow for: ease of movement for the emptying of containers in accordance with any WorkCover NSW Work Health and Safety requirements; and to allow for washing and cleaning of the room/area and bins graded to drain to the sewer. 	Y
		Containers used for recyclable materials should be separate from general waste containers to minimise contamination.	Y
		The opening into the waste storage/recycling room/area shall be of a sufficient size to allow the easy movement of bins to the waste collection point and for maintenance and equipment access purposes (e.g. to service waste compaction or chute equipment)	Y
		For development requiring a separate bulky goods storage area, this shall be separately delineated and signposted.	N
6.	Use	Have a minimum of one (1) hose cock to allow for the connection of a hose for washing and cleaning purposes.	Y
		Have sufficient signage installed to inform, educate and encourage residents and/or users of the appropriate waste bins to use and storage methods (refer Clause 2.5)	Y

APPENDIX E: Onsite Waste Collection Guidelines/Checklist

For new development where it has been determined that onsite collection is required, the following design standards are required to be satisfied in order to ensure sufficient space is available.

On	site Waste Colle	ction Requirements	
	Principle	Requirement/Standard	Yes (Y) / No (N)
1.	Consultation	Consult with Council"s Planning and Waste Servicing Officers during pre-lodgement process to determine the most suitable servicing arrangement and collection point. See also the EPA"s <i>Better Practice Guide for Waste Management in</i> <i>Multi-unit Dwellings</i> and <i>Better Practice Guidelines for Waste</i> <i>Management and Recycling in Commercial and Industrial Facilities</i>	N
2.	Design and Access	Driveway and access routes must be a minimum width of 3.6m.	Y
		Vehicle standing areas must have minimum dimensions of 10m x 3.6m	Y
		 A waste collection point is to be provided within the first level of the basement. Vehicles must enter and exit the site in a forward direction. 	N/A
		 A waste collection point is to be provided: A waste collection point is to be provided: behind the front building line, along-side the driveway into the site. Collection vehicles are to reverse into the driveway and exit in a forward direction. 	Y
		The waste collection point shall be no more than 15m from the property boundary at the street.	Y
		There should be convenient and step free access between the waste storage room/area and the collection point.	Y
		The collection area must be designed so that the bin standing area, and the standing area for the vehicle, is level.	Y
		The bin collection area shall provide sufficient space for the standing of all waste bins to be collected in a single trip, as well as manoeuvring space for bins as they are emptied.	Y
		Any shutter or roller door providing access to the site/waste collection point must be fitted with a master key to Council [®] s requirements to allow access.	N/A
3.	Structural Capacity	The driveways and basement floor must be designed and constructed to offer sufficient structural capacity to accommodate Council's, Council's contractor or other private service provider's collection vehicle when at capacity.	Y
4.	Onsite Manoeuvring	Plans will need to demonstrate that sufficient space for access and the turning of proposed collection vehicles is available. Refer to Australian Standard 2890.2 Parking Facilities: Off-Street Commercial Vehicle Facilities for a medium rigid vehicle (MRV).	N/A
			P.T.O

		 Notwithstanding the above and subject to Council"s assessment of the waste collection service available, the following minimum requirements may be acceptable: turning circle - 18m kerb to kerb (plus additional for vehicle overhang where walls/columns etc occur) 	N/A
		height clearance 3.6m (along the entire length of travel)	Y
		Length of vehicle standing area 10m	Y
		Width of vehicle standing area 3.6m	Y
		Gradient of ramps maximum 1:5 (20%)	Y
5.	Appearance	At grade collection areas shall be suitably screened to minimise the appearance of waste bins from the public domain and adjoining or nearby properties. At a minimum, the screen shall reach the top of the height of the bins to be stored at the collection point	Y

Table 5: Onsite Waste Collection Requirements (all developments requiring onsite collection)