

SCENTRE GROUP

Westfield Warringah Mall Development Application – Stage 2D Waste Management Plan

Version 1.0



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SECTION 1: INTRODUCTION - CENTRE OVERVIEW + PROPOSED INCLUSIONS FOR DEVELOPMENT APPLICATION

1.1 General

Scentre Shopping Centre Management Pty Ltd (Scentre Group) has prepared this Waste Management Plan (WMP) for Westfield Warringah Mall Shopping Centre, located in Brookvale NSW. Refer to the DA including David Jones Downsize and associated works on the Ground, First, Second Floor and the Roof.

This WMP documents the existing waste and loading dock area within the centre and outlines the proposed waste management process for the proposed reconfigured loading dock located adjacent to Green Street, including:

- Loading dock and zones, including loading dock rules
- Preferred dock to be used by nominated retailers
- Waste management

This WMP has been developed on:

- Scentre Group personnel knowledge of the centre
- On-site risk inspection
- Scentre Group Design Standards and guidelines

Refer Appendix 4.1 for full centre contact detail listing.

1.2 Revision and Version Control

The Facilities Manager coordinates the preparation of this document with input from Scentre personnel. The Centre Manager has overall responsibility for the development, implementation, ongoing monitoring and updating of this WMP.

This WMP is a live document, which is to be reviewed and updated as/if relevant modifications are made or circumstances change at the Centre. Any revisions are to be noted in the table below and the footer reference is to be amended accordingly. Relevant components of this plan are taken from the Centres Site Waste Management Plan (SWMP) which is reviewed and updated annually or as/if any changes require.

A copy of the Centres SWMP is available in Centre Management Office, and will be provided for inspection by:

- WH&S forum members and representatives
- Scentre managers, supervisors and workers
- Scentre engaged contractors
- Scentre retailers and retail contractors
- Other interested parties

1.3 Site Waste Management Strategy

The general strategy employed at Westfield shopping centres is outlined below:

Provide waste facilities either at the dock or in waste “holding rooms” on every retail level of the building.

The holding rooms where provided are located in close proximity to the goods lifts which provide a direct connection to the loading dock.

Waste is collected at the waste facility of the building in appropriate waste containers.

Each waste facility is provided with hot and cold water, trade waste outlet, extract ventilation and impervious finishes throughout. The recommendations for the design and construction of Waste Storage facilities are in accordance with:

- Green Star – Retail Centre 2020
- Policy for Waste Minimisation in New Developments (N.S.W.)

Waste is separated into streams through the use of appropriate, readily identifiable containers.

Waste containers are typically a combination of 1100, 660 or 240 litre capacity “wheeled” bins – mobile for ease of manoeuvring and delivery to the dock via the goods lift.

The frequency of removal of waste/recycling from the dock will vary according to need with monthly review with the centres waste contractor to ensure schedules are ensuring appropriate timing of waste removal and maximising efficiency for collections to reduce the carbon footprint incurred through transportation.

1.4 Site Dock Design

Unless noted in the Loading Dock summaries, each will have full access for collection of waste in accordance with AS2890.2 plus with the following: -

Each Waste facility located no lower than 1 level below street level.

Service vehicles will be able to enter & exit the site in a forward direction & access the dock efficiently with limited need to reverse.

Minimum Height along access route – 4.8m for collection vehicles (4.8 min height for delivery vehicles).

Structure will withstand a minimum weight of 30 tonnes.

Truck movement swept path is based on Austroads Design Single Unit Truck/Bus (12.5m) or for larger vehicles pending delivery requirements of each dock.

Loading requirements at designated collection points of the Dock

- Front load bins: Unrestricted clear height
- Level surface away from ramps & gradients

1.5 Stakeholder Engagement and Consultation

Several stakeholders shall be engaged and consulted in the overall process of reviewing this WMP and any supplemental plans. This includes Scentre staff, Contractors and Retailers

1.6 Loading Dock Safety

- Entry into loading dock only by authorised personnel
- Obey dock signage in all areas
- Staff and couriers should follow the dedicated pedestrian walkways as marked in each loading dock
- Do not enter pedestrian exclusion zones as marked
- Be aware of moving vehicles and plant (e.g. delivery trucks, forklifts)
- Ensure appropriate Personal Protective Equipment (in accordance with the relevant Australian Standard) is worn where there is a risk of collision (e.g. high visibility clothing)
- Use only plant or equipment (e.g. compactors) if you are trained, competent and authorised
- Be aware of dock edge(s) and use only ladder, ramp or stair access provided
- In the event of an accident or issue requiring communication, please ensure all accidents are notified to Security or Centre Management

1.7 Loading Docks and Couriers

- Loading docks are conveniently located all around the Centre, with all specialty docks being numbered. It is recommended that the most convenient dock to your store is identified and advise this to your transport companies accordingly]
- It is important that all personnel accessing loading docks are aware of the loading dock guidelines. As displayed on signage in and around each loading dock. All personnel, including your staff and contractors are aware of these guidelines prior to carrying out work or accessing loading docks. In addition, loading docks must be kept clean and you are responsible for the behaviour of your staff, contractors and delivery personnel.

SECTION 2: LOADING DOCK AND WASTE MANAGEMENT STRATEGY FOR ENTERTAINMENT AND AMUSEMENT FACILITY

2.1 Proposed Waste Streams

The proposed tenancy mix would generate the below waste streams, consistent with the current waste generated at Westfield Warringah Mall:

- Cardboard
- Comingle
- Plastics
- General waste

There are no new waste streams expected from this development that are not already collected and disposed of from the existing shopping centre operations under the centres WMP.

2.2 Proposed Waste Disposal / Collection

The preferred waste collection point for removal offsite is Dock F located off Green St. Dock F is an established operating dock within the centre, however it will be slightly reconfigured under a separate CDC to house retailer disposal facilities.

Waste will then be collected by the centres waste service provider and removed from site.

Dock F collection schedules will be monitored and adjusted in accordance with actual waste production once the tenants are fully operational. This is the normal practice for all waste on site currently with additional ad-hoc collections available for same day pick up if required and monthly review with the service provider of collection schedules and volumes to obtain best practice efficiencies in collections and disposal.

Appendix 4.2 Location of Dock F

Appendix 4.4 Dock F (Current)

2.3 Waste Volumes

The current waste profile of Dock F is generating 2T. Modelling on waste volumes for this precinct, it is likely that the Finalised Precinct will generate the below waste volumes and tonnages. This may change pending final approved tenant mixes.

Appendix 4.5 Waste Volumes – Proposed tenancies

SECTION 3: DEMOLITION AND CONSTRUCTION WASTE

3.1 Objective

The key objectives are to adopt good practice waste management strategies to:

- avoid the generation of waste where possible and use building designs that minimise the generation of waste and thus have a positive contribution to sustainability
- prevent pollution and damage to the environment
- protect the health and safety of our employees and the public
- meet waste minimisation legislative and environmental standards

Consideration for the duration of the Westfield Warringah Mall Plan of Operations – Westfield Warringah Mall Development Application will the Northern Beaches City Council – *Industrial, Commercial, and Mixed-Use Waste Management Guidelines*

3.2 Design, Procurement and Planning

Construction waste minimisation requires early planning by all participants in the Design, Procurement, Construction and End User process.

Waste minimisation is also a key component throughout the life cycle analysis, material selection and specification.

The use of construction materials that can be fully recycled or include recycled material in their production will be maximised where practicable.

Waste Management will initially be addressed at the fortnightly design meetings and product specification and selection will include the future potential of that material for recycling. Waste management planning will also progress during the procurement process where prospective subcontractors will be asked to provide details of Waste Minimisation strategies.

Prior to commencement of works major subcontractors will be required to produce a Waste Reduction Plan detailing:

- Initiatives associated with their works to minimise waste;
- Waste streams resulting from their works which can be actively managed as part of their waste reduction plan;
- Alternative products containing recycled material (which meet with the design specifications) that could be used in place of specified materials
- Packaging minimisation and reuse initiatives including adherence to the Commonwealth Packaging Convention, (Bulk handling and reusable transport containers will be encouraged).
- Proposals for storage and re-use of offcuts.
- Procedures for ordering to ensure no oversupply.

In addition, subcontractors will be expected to adopt the “good practice” procedures published by the EPA for their specific trade.

3.3 Demolition Phase

The site induction will communicate the project waste minimisation and management system to all project stakeholders and the responsibility to ensure that waste materials go into the correct bins will be with everyone on site.

All materials that are removed from site, will be required to be reported, with a monthly report provided to Scentre detailing the amounts of waste delivered and the details of where waste has been recycled.

All disposal documentation from construction processes will be supplied to Scentre on a monthly basis to ensure that waste targets are monitored and recorded for verification purposes.

3.4 Construction Phase

The destination of removed materials will be determined during the subcontractor selection process and will be approved by Scentre Design & Construction prior to execution of the subcontract for these works.

The waste management system for the balance of the works will include the use waste segregation and separate labelled bins for different waste materials as practicable.

In addition, separate bins will be provided at the Site shed locations for kitchen waste, glass, aluminium cans, recyclable plastic and paper/cardboard. Procedures will be arranged for these bins to be emptied as required.

Signs will be located on each bin, indicating type of bin and what waste may be placed in that bin.

Subcontractors working on site will be responsible for the daily cleaning of their respective work areas and placing of their waste in the correct bins. If a particular bin is found to be contaminated by waste material from a subcontractor, then that subcontractor will be liable for the cost associated with sorting of waste.

Rubbish collection will be carried out during normal working hours. This includes general litter found around the Project workplace.

Finishing trades washout facilities will not be drained to any building services and will be of a stand-alone nature connected to sewer.

3.5 Collection and Litter Management

Onsite Construction/Demolition Waste streams will be removed in accordance with all suitable Loading/Unloading times and in line with all Site Prepared Traffic Management Plans where developed.

All access provisions will be obtained during all constructions phases and addressed with consideration of the Northern Beaches Council – *Waste Management Guidelines* Chapter 1 “Demolition”, Chapter 2 “Construction” and Chapter 3-7 “Ongoing Waste Management”.

Waste Collection from Site will be completed in accordance with all applicable access times and approvals.

3.6 Waste Management Performance

The method of measuring performance on Waste Management and Minimisation will be via:

- Monthly review of waste statistics provided by the Waste management contractors and comparison against objectives
- Monthly review of design/material selections
- Monthly review of Complaints Register for any operations
- Waste disposed of correctly in accordance with legislative requirements

Any deficiencies in performance shall be reviewed and a corrective action plan will be implemented. Details of the deficiency including any corrective actions undertaken will be recorded.

3.7 Water Quality

General Objectives throughout construction projects for Contractors:

- To adopt an integrated approach that considers all aspects of the water cycle in determining impacts and enhancing water resources;
- To promote sustainable practices in relation to the use of water resources for human activities;
- To minimise water consumption for human uses by using best practice site planning, design and water efficient appliances;
- To address water resources during construction.
- To protect water catchments and environmental systems from potential pollution sources;
- To protect natural watercourses, riparian corridors, wetlands and groundwater dependent ecosystems where applicable.
- To protect, conserve and enhance surface and groundwater resources;

3.8 Noise and Vibration

In general, practices to reduce construction noise and vibration impacts will be required by all contractors onsite, and may include (but not limited to):

- Adherence to the standard approved working hours as outlined in the Project Approval.
- The location of stationary plant as far away as possible from sensitive receivers
- Using temporary structures or screens to limit noise exposure where possible.
- The appropriate choice of low-noise construction equipment and/or methods

- Modifications to construction equipment or the construction methodology or programme. This may entail programming activities to occur concurrently, or at different times where more than one noisy activity will significantly increase the noise. The programming should also consider the location of the activities due to occur concurrently.
- Carry out consultation with the community and surrounding building owners/occupants during construction including, but not limited to; advance notification of planned activities and expected disruption/effects, construction noise complaints handling procedures.

3.9 Dust and Air Quality

Due to a proximity to multi use buildings and pathways, Clear Air Quality, and Dust Management procedures will be required to be considered and approved prior to commencement of works.

Impacts and prevention measures will be required to address but not limited to:

- Provisions for plant equipment powered by Internal Combustion Engines
- Discharge of Smoke and Fumes
- Proximity to Intake Ventilation
- Maintenance procedures of service of Equipment
- Vehicular Movements (e.g. controlling dust from truck movement)
- Materials being cut/demolished. (items/dust minimisation methods)
- Equipment Stockpiles and loose materials (hard and soft)
- Dust Suppression Techniques

3.10 Sediment & Erosion Control

In general, practices to prevent the environmental impacts will be presented during construction management plans: Impacts and prevention measures will be required to address but not limited to:

- Stormwater Runoff from site to adjoining properties
- Sewerage System connections
- Cleaning of Equipment and trucks
- Mud on roads
- Uncontrolled run off sediments

During each phase of the Construction works, contractors will be required to acknowledge, educate and adopt all site-specific measures as detailed in the Construction Management Plan. Detailed sediment and erosion control plans will be approved by Scentre Design & Construction prior to commencement.

APPENDIX

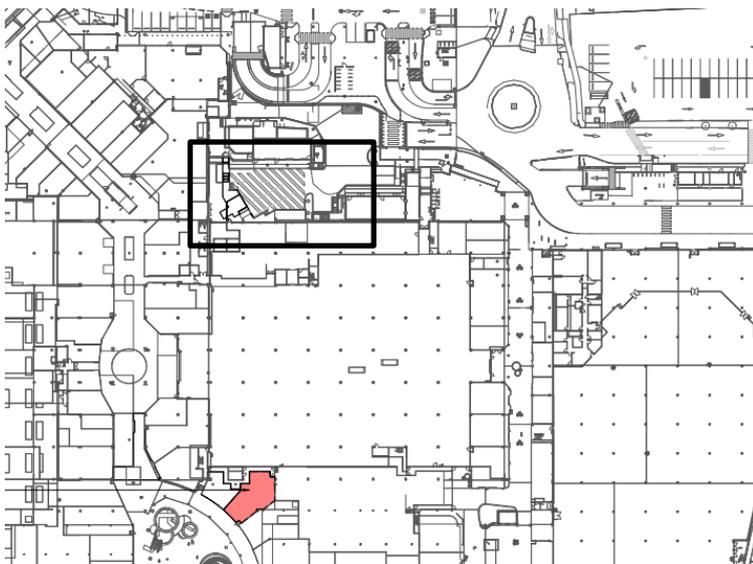
4.1 Centre Key Contacts

Table 1: Key Contacts

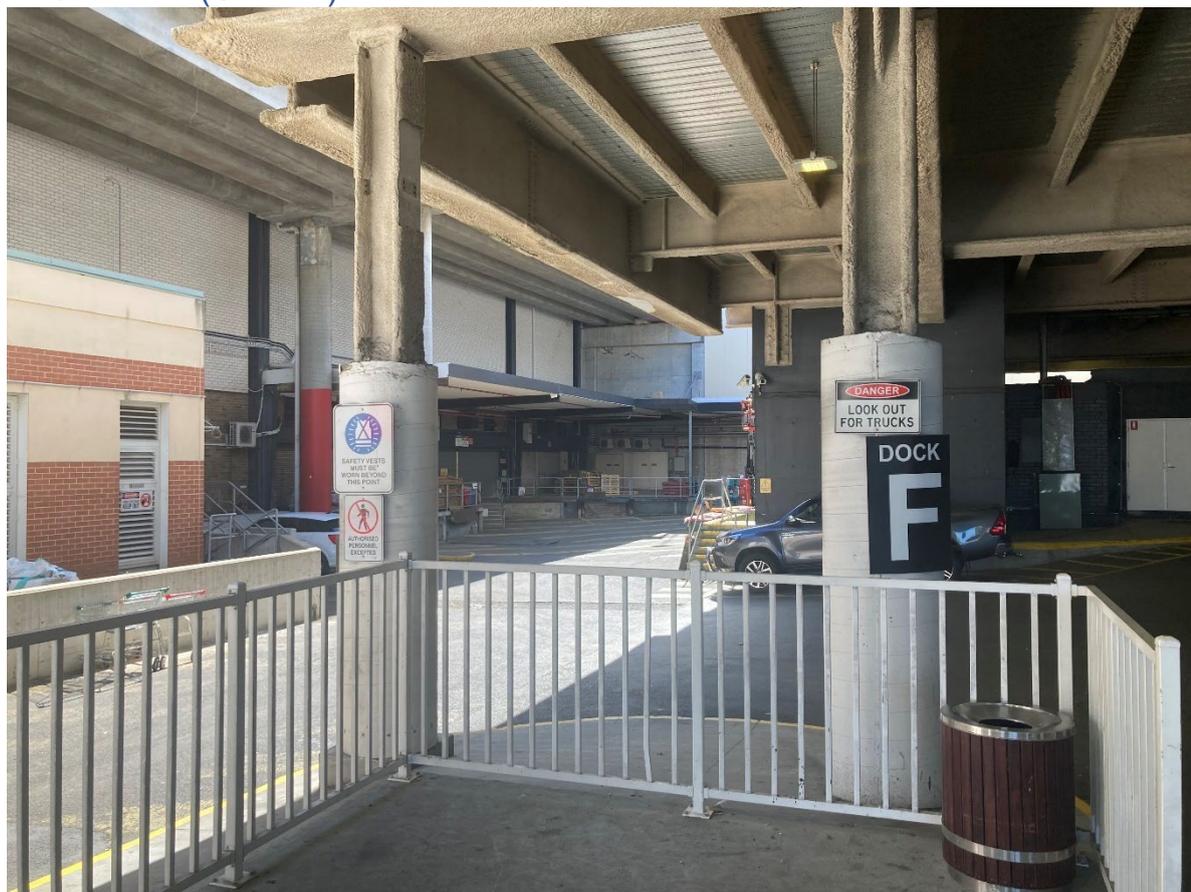
Contact	Details
Centre Management	Centre Management on: Phone: (02) 9905 0633 Core Trading Hours Monday – Wednesday: 9.00am – 5.30pm Thursday: 9.00am – 9.00pm Friday: 9.00am – 5.30pm Saturday: 9.00am – 5.00pm Sunday: 10.00am – 5.00pm
Centre Manager	Andrew Davidson (02) 9903 5065
Facilities Manager	Tim Parker (02) 9903 5075
Risk and Security Manager	Michelle Mazzitelli (02) 9903 5059
Security (24 hours/day)	0418 600 843
Cleaning Supervisor	Belal Soliman 0498 538 005
Waste Provider	Suez 13 13 15
Cleaning Contractor	Millennium Services Group 1300 240 132

4.2 Location of Dock F

The extent of works in Stage 2D Development Application at Warringah Mall will not impact the configuration of the Loading Dock.



4.3 Dock F (Current):



Photograph 1: Dock F from 'Green' Carpark (Located adjacent Green Street).

4.4 Waste Volumes – Proposed Tenancies

Bin/Compactor Type	Number	Tonne / week
240Lt MGB Comingle	1	0.02T
60L Plastic Bale	1	0.001T
660L General Waster	1	0.05T

4.5 Abbreviations and Glossary

	Abbreviation	Term	Definition
Waste / Recycling	LDPE	Low Density Polyethylene	Plastic film wrap, plastic shopping bags
	EPS	Expanded Polystyrene	Typically used for packaging & insulation
	E-Waste	Electronic waste	Electronic equipment contains toxic materials such as heavy metals and should not be mixed with other waste.
		Putrescible waste	Components of a waste stream liable to become putrid, for example food products.
		Commingled	Mixed recyclable material including glass, steel, aluminium, plastic containers, tins that contain the recycling symbol.
		Hazardous Waste	Component in waste stream which poses a threat or risk to public health, safety or to the environment
Equipment/Facilities	MGB	Mobile garbage bin	Known as 'wheelie' bins
	WHR	Waste Holding Room	Intermediate handling area on each retail level for separation & temporary storage of waste.

4.6 Loading Dock F Equipment and Operation Summary (current)

Item	Detail							
Number	<i>Dock F</i>							
Location (level & zone)	<i>Level Ground Zone 6 – Entry from Green Street</i>							
Referenced drawing(s)	<i>Figure 1</i>							
Tenancies served	<i>Services tenancies on Level 2 above David Jones</i>							
Waste Type	Handling Notes	Equipment						
Recyclable cardboard & paper	<i>Transported by retailers and cleaners from tenancies and common areas by 240L MGBs which are then loaded by trained tenants into compactor</i>	<i>1 x 240L MGB</i>						
Commingled recyclables	<i>Transported by retailers and cleaners to 240L MGBs in dock for collection</i>	<i>1 x 240L MGB</i>						
Plastic Film	<i>Transported by tenants directly into bale frame at the dock. The bale frame are monitored & the bags changed by the cleaning contractor who transports bags to plastic baler in Dock J for bale collections.</i>	<i>1 x LDPE Bale Frame</i>						
General Waste	<i>Transported by tenants and cleaners from tenancies and common mall directly into general waste compactor</i>	<i>1 x 660L MGB</i>						
Equipment Type	Waste type	Collection						
		Ad hoc	M	T	W	T	F	S
<i>MGBs (660L)</i>	<i>General Waste</i>		x		x		x	
<i>MGBs (240L)</i>	<i>Commingled recyclable</i>			x		x		
<i>Bales (Dock J)</i>	<i>LDPE</i>	x						

4.7 Loading Dock Guidelines Signage

LOADING DOCK GUIDELINES

Loading Dock signage must be obeyed

Dock Zones

- **Parking Zone** - parking restrictions must be observed
- **Vehicle Exclusion Zone** - vehicles must not enter designated Vehicle Exclusion Zones
- **Pedestrian Exclusion Zone** - persons must not enter designated Pedestrian Exclusion Zones
- **Shared Zone** - Persons operating vehicles/equipment must be aware of pedestrian traffic in designated Shared Zones. Persons must be aware of vehicles/equipment traffic in designated Shared Zones

Vehicle engines must be turned off whilst stationary. Switch on headlights (low beam) when entering into dock

Personal Protective Equipment must be worn (e.g. high visibility clothing) when in designated truck and vehicle zones or other areas where there is risk of contact with moving vehicles

During an evacuation exit via nearest EXIT and follow EXIT signs when instructed by Westfield Centre Management. Do not return to vehicle or equipment until instructed by Westfield Centre Management

Passageways and fire exits must not be obstructed or compromised in any way (penalties may apply)

Prior to using plant or equipment ensure you are trained and competent in its safe operation

If you are a Contractor working for Westfield you must report to Westfield Centre Management and gain authorisation prior to commencement of work

Materials, tools and equipment must not be moved through public areas during trading hours without permission from Westfield Centre Management

Goods lifts

- Safe Working Loads (SWL's) as marked must not be exceeded
- Lift doors not to be obstructed or wedged open
- Be aware of persons when entering and exiting

Deliveries

- **With heavy items** must be placed on bottom of trolley
- **Must be stable**
- **Must not obstruct vision**. If occurred a second person must provide assistance to avoid collision with persons or property
- **Must not be pushed or pulled faster than walking pace**
- **Must not leak**. All spills must be cleaned and reported immediately to Westfield Centre Management
- **Must not be left unattended**
- Are not to be placed on shopping trolleys, metal wheeled trolleys or pallet jacks

Incidents resulting in damaged property or personal injury must be reported to Westfield Centre Management immediately

Smoking is not permitted at any time except in designated smoking areas (penalties may apply)

Defacing or vandalising Westfield property may lead to prosecution

Dispose of waste and rubbish in waste and recycling equipment provided

Suspicious objects and activities are to be reported to Westfield Centre Management immediately

Use ladder or stair access provided in dock area and be aware of dock edges

Video/electronic surveillance may be in use in this loading dock

If you are entering a Service Corridor area, obey all displayed signage







