

Waste Management Plan

December 2019

GenesisCare Frenchs Forest

49 Frenchs Forest Rd East, Frenchs Forest



Executive Summary	3
Overview	3
Site Dynamics	3
The physical site	3
Staff	4
Patients	4
Waste Requirements	4
Waste Storage	5
Space Requirements and Waste Receptacles	6
Bin Servicing	6
Legal Requirements	7
Review	7
Appendix 1 - Bin Sizes	8

Executive Summary

GenesisCare is establishing a new fit for purpose medical center at 49 Frenchs Forest Rd East, Frenchs Forest. Provisions have been made in the building design to efficiently manage waste and recycling through the building and ultimately to be serviced from a Waste Management Room. This plan, which is the product of extensive engagement with GenesisCare, sets out their commitment to a sustainable outcome as well as being sympathetic to the building's surrounds.

Overview

Garbology was contracted to provide analysis of the future waste requirements for 49 Frenchs Forest Rd East, Frenchs Forest. The future development of the site will alter the waste requirements and collection methodology. Garbology has inspected the site and the building plans to develop this Waste Management Plan to address sustainability, safety and other key factors on the surrounding area.

Garbology has designed the waste scope and method within this plan. Waste Options will be contracted to manage the day to day waste collections as well as the selection and performance management of waste contractors. Waste Options ensure the service abides by best practice and is reactive to changing requirements.

Site Dynamics

The physical site

The development of the site into fit for purpose medical centre will see the creation of:

- 75 car spaces over 4 basement levels
- An ambulance and drop off bay
- 7 consulting rooms
- 2 treatment rooms
- 1 radiation bunker
- 2 interview rooms
- 2 blood bay rooms
- 1 MRI room
- 1 CT/PET CT room.

Vehicle access to the site is from the road frontage on the north-west of the site onto Frenchs Forest Rd East via two driveways. The eastern driveway for entering the site and the western driveway for existing the site.

Staff

The site is staffed by a range of professionals, amounting to 37 FTE working a 40 hour week.

Patients

The peak patient visitation for the proposed development is 144-156, comprised of:

- 55 patients per day to Consulting
- 40 patients per day to Radiation Oncology
- 36-48 patients per day to the Medical Oncology
- 5 patients per day to the imaging Suite PET
- 5 patients per day to the imaging suite Gamma
- 3 patients to imaging SIM

The number of staff and patients on the site will create a waste profile of several waste streams that need to be managed responsibly for the safety and sustainability on the site. Garbology have designed a waste management system for the site based on projections of the waste produced by staff and patients on site.

Waste Requirements

The facility is used for a mix of administrative and medical requirements, populated by GenesisCare staff, patients and external providers. The building will have

- General waste
- Comingled recycling
- Secure paper
- Cytotoxic waste
- Clinical Waste
- Sharps containers
- Sanitary units.

The following table describes the method of handling those waste streams.

Table 1: Waste streams required for 49 Frenchs Forest Rd East, Frenchs Forest

Waste Stream	Method
General waste	Collected by cleaners and aggregated in cleaners' rooms on each floor in 240L bins. Moved to the Bin Store on Ground Floor prior to servicing
Comingled waste	Collected by cleaners and aggregated in the cleaner's room on each floor in 240L bins. Moved to the Bin Store on Ground Floor prior to servicing
Cytotoxic	Cytotoxic bins will be provided as both 60L and 240L bins and serviced in situ to maintain control. A bin swap arrangement will be in place.
Clinical	Clinical waste bins will be provided as both 60L and 240L bins and will be serviced in situ in business hours. A bin swap arrangement will be in place.
Secure paper	Secure paper bins will be serviced directly from the office environment on an ad hoc basis to limit the servicing costs and interruptions to the site.
Sharps	Sharps containers will be provided in all common bathrooms to provide for medical use on site. Sharps containers will be serviced directly from each bathroom area by the same contractor utilised to service sanitary bins
Sanitary	Sanitary bins will be provided for all female toilet cubicles in the office and public facing areas of the facility. Sanitary bins will be serviced directly from the bathrooms of the facility.

Waste Storage

The Bin Store on the ground floor is the main area utilised for storing and servicing full bins. The bin store is lockable to restrict access and waste contractors will be given access cards to the room. On each floor the Cleaners Room will be utilised for housing general waste and comingled 240L bins, that will be moved to the Bin Room on the Grounds Floor for servicing.

Clean bins and consumables for swapping out full bins will be located in the Delivery Store for movement throughout the building by cleaners and nurses. Full bins will be stored in the Bin Store for servicing by contractors.

Space Requirements and Waste Receptacles

Garbology have assessed the requirements for each of the waste streams indicated as necessary for the site. The number and size of those bins is indicated in the table below as a tool to configure the allocated space in the bin rooms on each floor as well as the main bin room at the rear of the ground floor.

The table below indicates that the Bin Store (6m²) will be adequate to handle bins that require servicing. Contributing factors are the ability to use cleaners' rooms to locate general waste and comingled bins on each floor and the staggered days of servicing for each waste stream to reduce the incidence of all bins being serviced at the same time.

Bin size and contractor selection will contribute to ensuring waste servicing has a minimal impact on traffic and noise in the area.

Table 2: Bin quantities and sizes to inform waste storage requirements

		GW		COM	Cyto	Clinical	Secure	Total
		240L	660L	240L	240L	240L	240L	
No. Bins		6	1	3	4	4	3	
Pickups /wk.		3	3	1	2	2	Call in	
Bin Dimensions	Length (m)	0.58	1.34	0.58	0.58	0.58	0.58	
	Depth (m)	0.74	0.64	0.74	0.74	0.74	0.74	
	Height (m)	1.08	1.22	1.08	1.08	1.08	1.08	
Floor space per bin (m²)		0.43	0.85	0.43	0.43	0.43	0.43	
Floor space per stream (m²)		2.58	0.85	1.32	1.72	1.72	1.29	9.48m ²

*GW = General Waste, COM = Comingled Recycling, Cyto = Cytotoxic, Secure = Document Destruction.

Bin Servicing

Rear lift bins have been selected to minimise the size of truck required to service the bins. Rear lift bins also have the advantage of being quieter as a vehicle as well as the waste from bins having less distance to fall into the truck to minimise noise.

The general waste and comingled bins will be serviced from the Delivery Store area three times per week by 6.4 m small ridged waste vehicles as per the assessment of traffic and parking implications Rev F.

The time of collection will be in the early morning to minimise disruption, not before 7am wherever possible to minimise disturbance to residents. Cytotoxic

and Clinical bins will be serviced by smaller vehicles that will cause less disruption.

Bin service frequencies will be closely monitored to ensure the schedule is closely aligned to the requirement, including periods of surge at the facility. The preference is for the number of servicing events to be minimised to reduce the interruptions on site and to minimise heavy vehicle traffic for the site and surrounds.

Legal Requirements

The legal requirements of the provision of waste services in medical facilities include:

- Protection of the Environment Operations (Waste) Regulation 2014
- Protection of the Environment Operations Amendment (Scheduled Activities and Waste) Regulation 2008
- NSW Health Waste Management Guidelines for Healthcare Facilities – PD2005
- NSW Health – Clinical and Related Waste Management for Health Services PD2017_26
- Dangerous Goods (Road and Rail Transport) Regulation 2014
- Australian Code for the Transport of Dangerous Goods by Road and Rail Edition 7.3
- Cytotoxic Drugs and Related Waste Risk Management Guide – Workcover Authority of NSW
- Packing and Transporting Clinical Waste in NSW – Workcover Authority of NSW
- Waste Classification Guidelines Part 1: Classifying Waste EPA 2014/0796 – NSW EPA
- Storage and Handling of Dangerous Goods Code of Practice – Workcover Authority of NSW.

The legal and other requirements will be monitored using the Waste Options management system and changes to the Legal and Other Requirements Register will be made as legislation changes.

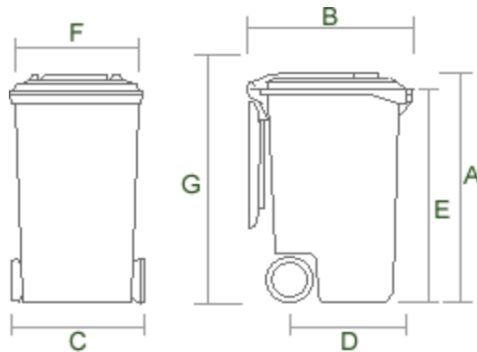
Review

GenesisCare will continually review the suitability of the size, number and schedule of waste receptacles provided. Allowance will also be made for periods of surge where additional receptacles or frequency of service may be required. GenesisCare will be supported by Garbology and Waste Options to manage and monitor the quality and suitability of the service.

Appendix 1 - Bin Sizes

240 Litre Wheelie Bin

- **A** = 1070mm
- **B** = 740mm
- **C** = 570mm
- **D** = 535mm
- **E** = 995mm
- **F** = 550mm
- **G** = 1140mm
- Weight 15.5Kg



660 Litre Wheelie Bin

- **A** = 1215mm
- **B** = 1135mm
- **C** = 1340mm
- **D** = 860mm
- **E** = 490mm
- **F** = 200mm
- Weight 50.0Kg

