

OPERATIONAL WASTE MANAGEMENT PLAN

for

**Lanehunt Ltd
1st Floor Riverpoint
Howleys Quay
Limerick**

relating to a

**Proposed Purpose Built
Student Accommodation Scheme**

at

**Dominick Street
Limerick**

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Ian Byrne MSc, MIOA, Dip Environmental & Planning Law

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1.0 INTRODUCTION

This document presents the Operational Waste Management Plan (OWMP) for the control, management and monitoring of waste associated with a proposed Student Residence Building at Dominick Street, Limerick.

Permission is sought for the construction of a Purpose-Built Student Accommodation (PBSA) scheme at Dominick Street (Lady's Lane / Hunts Lane), Limerick City. The proposed development will comprise the following: (a) permission to partially demolish the existing Tait Centre building, and (b) permission for the construction of a single multi-storey block ranging in height from six to eight storeys and providing 350 student bedspaces arranged across 51 no. Apartments/Clusters with shared kitchens and living rooms, with a Gross Internal Floor Area of 9,318 sqm. Communal facilities will include a café, gym, cinema, study rooms, laundry, and indoor and covered outdoor bicycle storage providing 129 no. spaces. A total of 1,228 sqm of amenity space will be provided, comprising 487 sqm of landscaped outdoor courtyards and rooftop terraces and 741 sqm of indoor communal areas. Rooftop photovoltaic solar panels, green roofs, blue roofs, and biodiversity enhancement measures including swift boxes, bat boxes, or other avian or bat roosting features will be incorporated into the development as required. Supporting infrastructure at ground floor level will include plant rooms, refuse storage and collection areas, service zones, and a dedicated ESB substation. The development will be accessed on a pedestrian and cycle priority basis, with zero car parking. Permission is also sought for use of the accommodation, outside of student term time, for short-term letting purposes. All ancillary and associated site development works, including footpaths, drainage, public lighting, water supply, and sustainable urban drainage systems, will be provided.

The **Objective of this Waste Management Plan** is to maximise the quantity of waste recycled by providing sufficient waste recycling infrastructure, waste reduction initiatives and waste collection and waste management information to the residents of the building.

The **Goal of this Waste Management Plan** is to achieve the following waste reduction and recycling targets detailed in the *National Waste Management Plan for a Circular Economy 2024-2030*.

Target 1A	Achieve a 6% reduction in residual municipal waste by 2030
Target 2A	Achieve 90% compliance in the dry recycling bin by 2030
Target 2B	Achieve a 10% increase per annum in material compliance in the residual bin by 2030

The OWMP shall be integrated into the design and operation of the development to ensure the following:

- That sufficient waste management infrastructure is included in the design of the development to assist staff and residents minimise the generation of mixed waste streams and maximise the segregation of waste.
- That the principle of waste segregation at source is integrated into the development by the provision of 3-bin segregation systems throughout the building.
- That all waste materials generated by site activities are removed from site by appropriately permitted waste haulage contractors and that all wastes are disposed of at approved waste licensed / permitted facilities in compliance with the Waste Management Act 1996-2023 and all associated Waste Management Regulations.
- That appropriate space is provided within the building for bulk bin storage.

2.0 WASTE MANAGEMENT GUIDANCE AND POLICIES

The OWMP has been prepared to demonstrate how the Operational Phase will comply with the following relevant legislation, relevant Best Practice Guidelines and Limerick County Council's Waste Management Policies and Objectives.

- *Waste Management Acts 1996-2023.*
- *Waste Management (Collection Permit) (Amendment)(No.2) Regulations 2023 (SI No. 104 of 2023)*
- *The National Waste Management Plan for a Circular Economy 2024-2030.*
- *Limerick Development Plan 2022-2028*

2.1 Limerick Development Plan 2022-2028 Waste Objectives

- *Support innovative, smart solutions and processes, based on the principles of the circular economy to implement the Regional Waste Management Plan for the Southern Region 2015 – 2021 and any subsequent plan, including any targets contained therein.*
- *Collaborate with the Regional Waste Management Office and other agencies to implement the EU Action Plan for the Circular Economy – Closing the Loop, 2015, its successor the Circular Economy Action Plan: A New Circular Economy Action Plan for a Cleaner More Competitive Europe, 2020 and the Resource Opportunity Waste Management Policy, DECLG, 2012 and any subsequent plans.*
- *Promote sustainable patterns of consumption and production in the areas of product design, production processes and waste management.*
- *Implement the provisions of the Waste Action Plan for a Circular Economy – Ireland's National Waste Policy 2020 - 2025, DECC, 2020 in the assessment of planning applications.*
- *Protect existing civic amenity sites and bring sites throughout Limerick and support the development of additional sites in accordance with the Southern Regional Waste Management Plan 2015 – 2021 and any subsequent plans.*

2.2 Limerick Development Plan 2022-2028-Design Standards, Section 11.3.4 Refuse Storage and Services

Adequate refuse storage, recycling and composting areas shall be catered for within all residential developments. In the case of communal refuse storage provision, the collection point for refuse should be accessible both to the external collector and to the resident and be secured against illegal dumping by non-residents. In the case of individual houses, the applicant shall clearly show within a planning application the proposed location and design of bin storage to serve each dwelling.

2.3 British Standard BS 5906:2005 Waste Management in Buildings-Code of Practice

The OWMP has been prepared with regard to *BS 5906* which provides guidance on methods waste volume calculation, storage, collection, segregation for recycling and recovery for residential waste.

3.0 KEY ASPECTS TO ACHIEVE WASTE TARGETS

The OWMP is defined by the following stages of waste management with regard to the Circular Economy and the Waste Hierarchy

Stage 1	Occupier Source Segregation
Stage 2	Occupier Deposit and Storage
Stage 3	Bulk Storage and On-Site Management
Stage 4	Off-Site Removal
Stage 5	End Destination of wastes

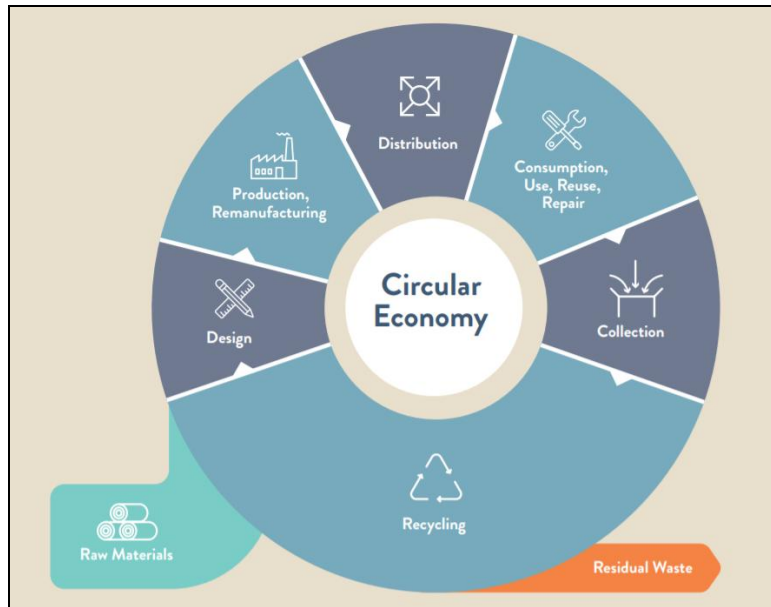
The Key Waste Management Aspects that are designed into the development are:

- 3-Bin systems to encourage waste segregation at source in each student room, amenity areas, canteens, offices and cafe.
- Signage to be located where bins are located detailing how to segregate waste at source.
- Wastes to be management by building staff.
- Central Bin Store to provide for Mixed Municipal Waste, Organic Waste, Dry Recyclable Waste, Glass Waste and WEEE waste storage.

4.0 THE CIRCULAR ECONOMY

This Operational Waste Management Plan has been prepared with regard to the *Waste Management Plan for a Circular Economy 2024-2030*. This is Ireland's national waste strategy published in March 2024 that will replace the existing regional waste management plans across provincial and local regional authorities and places the emphasis on more waste prevention and increased recycling, reusing and repair practices.

The *National Waste Management Plan for a Circular Economy 2024-2030* intends to move Ireland toward a circular economy in which focus is shifted away from waste disposal, favouring circularity and sustainability by identifying and maximising the value of material through improved design, durability, repair and recycling. By extending the time resources are kept within the local economy, both environmental and economic benefits are foreseen.



The Waste Hierarchy

The OWMP complies with the waste hierarchy whereby waste prevention is the most preferred strategy. Where waste generation is unavoidable, re-use is the most preferred fate, followed by recycling and then energy recovery, with disposal (e.g. to landfill) being the least preferred fate.

It is the intention of the Applicant to ensure that the design and operation of the development conforms to the Waste Hierarchy.



5.0 DEPOSIT RETURN SCHEME

The Deposit Return Scheme (DRS) is an initiative by the Irish government to reduce waste and encourage recycling. It is a programme to give financial incentives for the return of plastic bottles, cans, and glass bottles to collect points. DRS promotes a circular economy where waste is reduced and will further encourage the correct segregation of domestic recyclable waste. This scheme further assists in the segregation of recyclable plastic bottles and aluminium cans and their diversion from mixed un-segregated waste streams.

6.0 WASTE SEGREGATION AT SOURCE

The design of the building shall include 3-bin systems for the segregation of waste at source of mixed municipal waste, green recyclable waste and organic waste in all student bedrooms, canteens, common areas and offices.

Image of a typical bedroom 3-bin system



Image of a typical kitchen / cafe 3-bin system



Image of a typical office/common area 3-bin system



7.0 WASTE MANAGEMENT WITHIN THE BUILDING

Students will be instructed to put their segregated waste from their rooms into the kitchen 3-bin systems

Building Staff will be responsible for emptying and maintaining kitchen, amenity areas and office bins.

Building Staff will bring all waste to the central bin storage area and shall deposit the waste into the correct bulk bins.

Café Staff will bring all waste to the central bin storage area and shall deposit the café waste into the correct bulk bins.

8.0 WASTE VOLUME TO BE GENERATED

The volume of weekly waste to be generated is determined with regard to *British Standard BS 5906:2005 Waste Management in Buildings-Code of Practice* states that each bedroom will generate 70 litres of waste per week.

Table 1 details the calculated weekly waste volume to be generated by the operation of the Student Residence Building.

Table 1 Weekly waste generation

Scenario	#	Factor	Weekly Waste litres
Bedrooms	350	70 Litres per week/bedroom	24,500
Office	1	50 Litres per week per employee (10)	500
Cafe	1	10 Litres/m ² (82m ²)	820
Total weekly waste generation			25,820

9.0 BIN STORAGE AREA DESIGN

The central bin storage area (60m²) shall be located at ground floor level as indicated in Appendix I.

Signage will be displayed in the bin storage area indicating what waste type is to be placed in each bulk bin.

Image of typical waste storage area signage



The bin storage area shall be designed to include the following aspects:

- A non-slip surface
- The bin storage areas shall be passively / mechanically ventilated.
- The bin storage area shall be fitted with sensor lighting.
- The bin storage area shall include ground drainage to allow for its cleaning and disinfection.

The bin storage area has an area of 60m² and shall contain the following waste bins:

- 1100L Mixed Municipal Waste Bins
- 1100L Dry Recyclable Waste Bins
- 240L Organic Waste Bins
- 240L Glass Bins
- WEEE Trolley and Battery Box

Table 2 shows the bin store capacity based and the number and type of waste bins required on a weekly basis.

Twice weekly bin collections will serve the building ensuring that there is excess waste storage capacity at all times.

Table 2 Bin Store Capacity Design (based on Twice Weekly Collections)

Student Residences	Bin Volume	# Bins	Bin area m2	Total Bin area	Bin capacity L
MMW	1100	5	1.7	8.5	5500
Dry Recyclable	1100	8	1.7	13.6	8800
Organic	240	6	0.43	2.58	1440
Glass	240	3	0.43	1.29	720
WEEE Cage	240	1	0.43	0.43	240
Combined bin area				26.40	
Movement Factor	1.5			39.60	
Capacity volume of bins L					16700
Weekly volume of waste L					25820
Twice weekly bin collection L					12910
Bin Store Designed Area m2				60.0	
Bin Store Required Area m2				39.6	
Excess space m2				20.4	

10.0 WASTE STREAMS TO BE GENERATED

Table 3 details the range of waste types and their associated LoW Code from the EPA 2025 Publication *Guidance on the Interpretation and Application of List of Waste Entries and Sub-Entries* that shall be generated.

Table 3 Waste Types

Chapter 20 Municipal wastes (Household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	
20 01 01	Paper and Cardboard
20 01 02	Glass
20 01 08 B	Biodegradable kitchen and canteen waste
20 01 13*	Solvents
20 01 21*	Florescent tubes
20 02 25	Edible oil and fat
20 01 28	Paint, inks adhesives and resins
20 01 30	Detergents
20 01 35* A, B C, D	Discarded electrical and electronic equipment containing

	hazardous components
20 01 36 A, B C, D	Discarded electrical and electronic equipment
20 01 39	Plastics
20 01 40 C	Metals
20 03 01 A	Municipal mixed residual household waste
20 03 01 E	Municipal mixed dry recyclable waste non-household
20 03 07 B	Bulky Commercial Waste

11.0 WASTE COLLECTION STRATEGY

The Waste Collection Contractor will pull up at the Bin Store external door on Lady's Lane and remove bins, empty them and return them to the bin store on a twice weekly basis.

Bins will not be placed on the public pavement or road to await collection.

Waste collections for mixed municipal, dry recyclable and organic wastes will occur on a twice weekly basis. Waste glass and WEEE collections will be scheduled by building management as required.

Provision is provided for WEEE bins within the bin stores. Should this waste stream be generated, the Management shall ensure that collection shall be conducted with the *European Recycling Platform* compliance scheme for the Local Authority area

Building Management shall ensure that the Waste Collection Contractors have valid Waste Collection Permits and operate in compliance with the *Waste Management (Collection Permit) (Amendment)(No.2) Regulations 2023 (SI No. 104 of 2023)*.

APPENDIX I Bin Store Design

