



**Trinity**  
Consultants

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# Resource & Waste Management Plan

Project Title: Whitestown Way LRD.

CLIENT

ARP 4.2  
Sustainable  
Communities  
(Ireland) Fund

DOCUMENT REFERENCE



257501.0849WMR01

DATE

13/05/2026

# DOCUMENT CONTROL SHEET

Document Control Sheet		
<b>Our Reference</b>	257501.0849WMR01	
<b>Original Issue Date</b>	13/05/2026	
<b>Client:</b>	ARP 4.2 Sustainable Communities (Ireland) Fund	
Revision	Revision Date	Description

Details	Written by	Approved by
<b>Signature</b>		
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<b>Date</b>	13/05/2026	13/05/2026

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# TABLE OF CONTENTS

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<b>1. INTRODUCTION</b>	<b>1-1</b>
<b>2. OVERVIEW OF WASTE MANAGEMENT IN IRELAND</b>	<b>2</b>
2.1 National level .....	2
2.2 Regional Level.....	3
2.3 Legislative Requirements .....	5
<b>3. DESIGN APPROACH</b>	<b>6</b>
3.1 Designing For Prevention, Reuse and Recycling .....	6
3.2 Designing for Green Procurement .....	6
3.3 Designing for Off-Site Construction .....	7
3.4 Designing for Materials Optimisation During Construction .....	7
3.5 Designing for Flexibility and Deconstruction .....	7
<b>4. DESCRIPTION OF THE PROPOSED DEVELOPMENT</b>	<b>8</b>
4.1 Location, Size and Scale of the Proposed Development .....	8
4.2 Details of the Non-Hazardous Wastes to be Produced .....	10
4.3 Potential Hazardous Wastes Arising .....	10
4.3.1 Contaminated Soil.....	10
4.3.2 Fuel/Oils .....	11
4.3.3 Invasive Plant Species.....	11
4.3.4 Asbestos .....	11
4.3.5 Other Known Hazardous Substances .....	12
<b>5. ROLES AND RESPONSIBILITIES</b>	<b>13</b>
5.1 Role of the Client .....	13
5.2 Role of the Client Advisory Team .....	13
5.3 Future Role of the Contractor .....	13
<b>6. KEY MATERIALS AND QUANTITIES</b>	<b>15</b>
6.1 Project Resource Targets.....	15
6.2 Main Construction Waste Categories.....	15
6.3 Demolition Waste Generation.....	16
6.4 Construction Waste Generation .....	16
6.5 Proposed Resource and Waste Management Options .....	17
6.6 Tracking and Documentation Procedures for Off-Site Waste .....	20
<b>7. ESTIMATED COST OF WASTE MANAGEMENT</b>	<b>21</b>
7.1 Reuse .....	21
7.2 Recycling.....	21
7.3 Disposal .....	21
<b>8. TRAINING PROVISIONS</b>	<b>22</b>
8.1 Resource Manager Training and Responsibilities .....	22
8.2 Site Crew Training .....	22
<b>9. TRACKING AND TRACING / RECORD KEEPING</b>	<b>23</b>
<b>10. OUTLINE WASTE AUDIT PROCEDURE</b>	<b>24</b>
10.1 Responsibility for Waste Audit.....	24
10.2 Review of Records and Identification of Corrective Actions.....	24
10.3 Pest Management .....	24

<b>11. CONSULTATION WITH RELEVANT BODIES</b>	<b>25</b>
11.1 Local Authority.....	25
11.2 Recycling / Salvage Companies.....	25
<b>12. SUMMARY AND CONCLUSION</b>	<b>26</b>
<b>13. REFERENCES</b>	<b>27</b>

## **LIST OF TABLES**

---

Table 6.1 Typical Waste Types Generated and LoW Codes (Individual Waste Types May Contain Hazardous Substances)	15
Table 6.2 Waste Materials Generated on a Typical Irish Construction Site	16
Table 6.3 Predicted On and Off-Site Reuse, Recycle and Disposal Rates for Construction Waste	16

## **LIST OF FIGURES**

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Figure 4.1 Proposed Site Layout (Ground Floor) (Source: Reddy Architecture, 2026, Drawing No. WTW-02-SW-L00-DR-RAU-AR-1000)	9
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# 1. INTRODUCTION

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AWN Consulting, a Trinity Consultants Team, has prepared this Construction and Demolition (C&D) Resource & Waste Management Plan (RWMP) on behalf of ARP 4.2 Sustainable Communities (Ireland) Fund (the Client) for the proposed mixed use residential and commercial development (Proposed Development) at Whitestown Way, Tallaght, Dublin (the site).

This plan provides information necessary to ensure that the management of C&D waste at the site is undertaken in accordance with the current legal and industry standards including the *Waste Management Act 1996* as amended and associated Regulations <sup>1</sup>, *Environmental Protection Agency Act 1992* as amended <sup>2</sup>, *Litter Pollution Act 1997* as amended <sup>3</sup>, the *National Waste Management Plan for a Circular Economy 2024 - 2030 (NWMPC E) (2024)* <sup>4</sup>. In particular, this plan aims to ensure maximum recycling, reuse and recovery of waste with diversion from landfill, wherever possible. It also provides appropriate measures in relation to the collection and transport of waste from the site to prevent issues associated with litter or more serious environmental pollution (e.g. contamination of soil and / or water).

This RWMP includes information on the legal and policy framework for C&D waste management in Ireland, estimates of the type and quantity of waste to be generated by the Proposed Development and prescribes measures for the management of different waste streams. The RWMP should be viewed as a live document and will be regularly revisited throughout the Proposed Development's lifecycle so that opportunities to maximise waste reduction / efficiencies are exploited throughout, and that data is collected on an ongoing basis so that it is as accurate as possible.

## 2. OVERVIEW OF WASTE MANAGEMENT IN IRELAND

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### 2.1 National level

The Irish Government issued a policy statement in September 1998, *Changing Our Ways*<sup>5</sup>, which identified objectives for the prevention, minimisation, reuse, recycling, recovery and disposal of waste in Ireland. The target for C&D waste in this report was to recycle at least 50% of C&D waste within a five year period (by 2003), with a progressive increase to at least 85% over fifteen years (i.e. 2018).

In response to the *Changing Our Ways* report, a task force (Task Force B4) representing the waste sector of the already established Forum for the Construction Industry, released a report entitled '*Recycling of Construction and Demolition Waste*'<sup>6</sup> concerning the development and implementation of a voluntary construction industry programme to meet the Government's objectives for the recovery of C&D waste.

In September 2020, the Irish Government published a policy document outlining a new action plan for Ireland to cover the period of 2020-2025. This plan, '*A Waste Action Plan for a Circular Economy*'<sup>7</sup> (WAPCE), replaces the previous national waste management plan, '*A Resource Opportunity*' (2012), and was prepared in response to the 'European Green Deal' which sets a roadmap for a transition to an altered economical model, where climate and environmental challenges are turned into opportunities.

The WAPCE sets the direction for waste planning and management in Ireland up to 2025. This reorientates policy from a focus on managing waste to a much greater focus on creating circular patterns of production and consumption. Other policy statements of a number of public bodies already acknowledge the circular economy as a national policy priority.

The policy document contains over 200 measures across various waste areas including circular economy, municipal waste, consumer protection and citizen engagement, plastics and packaging, construction and demolition, textiles, green public procurement and waste enforcement.

One of the first actions to be taken was the development of the *Whole of Government Circular Economy Strategy 2022-2023 'Living More, Using Less'* (2021)<sup>8</sup> to set a course for Ireland to transition across all sectors and at all levels of Government toward circularity and was issued in December 2021. It is anticipated that the Strategy will be updated in full every 18 months to 2 years. The latest version of this strategy has been issued as of February 2026, *Whole of Government Circular Economy Strategy 2026-2028: Accelerating Action* (2026)<sup>9</sup>, with the main purpose of this strategy being to increase Ireland's circular material use rate by two percentage points per year.

*The Circular Economy and Miscellaneous Provisions Act 2022*<sup>10</sup> was signed into law in July 2022. The Act underpins Ireland's shift from a "take-make-waste" linear model to a more sustainable pattern of production and consumption, that retains the value of resources in our economy for as long as possible and that will work to significantly reduce our greenhouse gas emissions. The Act defines Circular Economy for the first time in Irish law, incentivises the use of recycled and reusable alternatives to wasteful, single-use disposable packaging, introduces a mandatory segregation and incentivised charging regime for commercial waste, streamlines the national processes for End-of-Waste and By-Products decisions, tackling the delays which can be encountered by industry, and supporting the availability of recycled secondary raw materials in the Irish market, and tackles illegal fly-tipping and littering.

The Environmental Protection Agency (EPA) of Ireland issued *Best Practice Guidelines for the Preparation of Resource and Waste Management Plans for Construction and Demolition Projects* in November 2021<sup>11</sup>. These guidelines replace the previous 2006 guidelines issued by The National Construction and Demolition Waste Council (NCDWC) and the Department of the Environment, Heritage and Local Government (DoEHLG) in 2006<sup>12</sup>. The guidelines provide a practical approach which is informed by best practice in the prevention and management of C&D wastes and resources from design to construction of a project,

including consideration of the deconstruction of a project. These guidelines have been followed in the preparation of this document and include the following elements:

- ▶ *Predicted C&D wastes and procedures to prevent, minimise, recycle and reuse wastes;*
- ▶ *Design teams roles and approach;*
- ▶ *Relevant EU, national and local waste policy, legislation and guidelines;*
- ▶ *Waste disposal/recycling of C&D wastes at the site;*
- ▶ *Provision of training for Resource Waste Manager (RM) and site crew;*
- ▶ *Details of proposed record keeping system;*
- ▶ *Details of waste audit procedures and plan; and*
- ▶ *Details of consultation with relevant bodies i.e. waste recycling companies, Local Authority, etc.*

Section 3 of the Guidelines identifies thresholds above which there is a requirement for the preparation of a bespoke RWMP for developments. The new guidance classifies developments on a two-tiered system. Developments which do not exceed any of the following thresholds may be classed as Tier 1 development, which require a simplified RWMP:

- ▶ *New residential development of less than 10 dwellings.*
- ▶ *Retrofit of 20 dwellings or less.*
- ▶ *New commercial, industrial, infrastructural, institutional, educational, health and other developments with an aggregate floor area less than 1,250m<sup>2</sup>.*
- ▶ *Retrofit of commercial, industrial, infrastructural, institutional, educational, health and other developments with an aggregate floor area less than 2,000m<sup>2</sup>; and*
- ▶ *Demolition projects generating in total less than 100m<sup>3</sup> in volume of C&D waste.*

A development which exceeds one or more of these thresholds is classed as Tier-2 development.

This development requires a RWMP as a Tier 2 development as it is above following criterion:

- ▶ *New residential development of less than 10 dwellings.*

The Department of Housing, Local Government and Heritage authored *Sustainable Residential Development and Compact Settlements - Guidelines for Planning Authorities (2024)*<sup>13</sup>. *Suggest the below thresholds at which the need for supplemental information such as the RWMP should be considered.*

- ▶ *30 or more residential units,*
- ▶ *1,000 sq. meters of mixed-use development*

Other guidelines followed in the preparation of this report include *Construction and Demolition Waste Management – a handbook for Contractors and Site Managers*<sup>14</sup>, published by FÁS and the Construction Industry Federation in 2002 and the previous guidelines, *Best Practice Guidelines for the Preparation of Waste Management Plans for Construction and Demolition Projects* (2006).

These guidance documents are considered to define best practice for C&D projects in Ireland and describe how C&D projects are to be undertaken such that environmental impacts and risks are minimised and maximum levels of waste recycling are achieved.

## 2.2 Regional Level

The Proposed Development is located in the Local Authority area of South Dublin County Council (SDCC).

The Eastern Midlands Region (EMR) Waste Management Plan 2015 – 2021, which previously governed waste management policy in the SDCC area, has been superseded as of March 2024 by the *NWMPCE 2024 – 2030*, the national waste management Plan for Ireland.

The *NWMPCE* does not dissolve the three regional waste areas. The NWMPCE sets the ambition of the Plan to have a 0% total waste growth per person over the life of the Plan with an emphasis on non-household waste, including waste from commercial activities and the construction and demolition sector. This plan seeks to influence sustainable consumption and prevent the generation of waste, improve the capture of materials to optimise circularity and enable compliance with policy and legislation.

The national plan sets out the following strategic targets for waste management in the country that are relevant to the Proposed Development:

### **National Targets**

- ▶ **1B.** *(Construction Materials) 12% Reduction in Construction and Demolition Waste Generated by 2030.*
- ▶ **3B.** *(Reuse Facilities) Provide for reuse at 10 Civic Amenity Sites, minimum.*

Municipal landfill charges in Ireland are based on the weight of waste disposed. Charges are approximately €140 - €160 per tonne of waste which includes an €85 per tonne landfill levy introduced under the *Waste Management (Landfill Levy) (Amendment) Regulations 2015 (as amended)* <sup>15</sup>. The *Circular Economy (Waste Recovery Levy) Regulations 2024* <sup>16</sup> will also a e levy of €10 per tonne to waste accepted for recovery. This will include backfilling at authorised recovery sites and at municipal waste landfills.

The *South Dublin County Council Development Plan 2022– 2028* <sup>17</sup> sets out a number of objectives and policies for the South Dublin area in line with the objectives of the waste management plan.

### *Policy and Objectives*

#### ***Policy IE7: Waste Management***

*Implement European Union, National and Regional waste and related environmental policy, legislation, guidance and codes of practice to improve management of material resources and wastes.*

- ▶ ***IE7 Objective 1***  
*To encourage a just transition from a waste management economy to a green circular economy to enhance employment and increase the value, recovery and recirculation of resources through compliance with the provisions of the Waste Action Plan for a Circular Economy 2020 – 2025 and to promote the use of, but not limited to, reverse vending machines and deposit return schemes or similar to ensure a wider and varying ways of recycling.*
- ▶ ***IE7 Objective 2***  
*To support the implementation of the Eastern Midlands Region Waste Management Plan 2015-2021 or as amended by adhering to overarching performance targets, policies and policy actions.*
- ▶ ***IE7 Objective 4***  
*To provide for and maintain the network of bring infrastructure (e.g. civic amenity facilities, bring banks) in the County to facilitate the recycling and recovery of hazardous and non-hazardous municipal wastes.*
- ▶ ***IE7 Objective 7***

*To require the appropriate provision for the sustainable management of waste within all developments, ensuring it is suitably designed into the development, including the provision of facilities for the storage, separation and collection of such waste.*

▶ **IE7 Objective 8**

*To adhere to the recommendations of the National Hazardous Waste Management Plan 2014-2020 and any subsequent plan, and to co-operate with other agencies including the EPA in the planning, organisation and supervision of the disposal of hazardous waste streams, including hazardous waste identified during construction and demolition projects.*

## **2.3 Legislative Requirements**

The primary legislative instruments that govern waste management in Ireland and applicable to the development are:

- ▶ *Waste Management Act 1996 as amended;*
- ▶ *Environmental Protection Agency Act 1992 as amended;*
- ▶ *Litter Pollution Act 1997 as amended;*
- ▶ *Planning and Development Act 2000 as amended* <sup>18</sup>; and
- ▶ *Circular Economy and Miscellaneous Provisions Act 2022.*

One of the guiding principles of European waste legislation, which has in turn been incorporated into the *Waste Management Act 1996* as amended and subsequent Irish legislation, is the principle of "Duty of Care". This implies that the waste producer is responsible for waste from the time it is generated through until its legal recycling, recovery or disposal (including its method of disposal). As it is not practical in most cases for the waste producer to physically transfer all waste from where it is produced to the final destination, waste contractors will be employed to physically transport waste to the final destination. Following on from this is the concept of "Polluter Pays" whereby the waste producer is liable to be prosecuted for pollution incidents, which may arise from the incorrect management of waste produced, including the actions of any contractors engaged (e.g. for transportation and disposal/recovery/recycling of waste).

It is therefore imperative that the Developer ensures that the waste contractors engaged by construction contractors are legally compliant with respect to waste transportation, recycling, recovery and disposal. This includes the requirement that a contractor handle, transport and recycle/recover/dispose of waste in a manner that ensures that no adverse environmental impacts occur as a result of any of these activities.

A collection permit to transport waste must be held by each waste contractor which is issued by the National Waste Collection Permit Office (NWCPO). Waste receiving facilities must also be appropriately permitted or licensed. Operators of such facilities cannot receive any waste, unless in possession of a Certificate of Registration (COR) or waste permit granted by the relevant Local Authority under the *Waste Management (Facility Permit and Registration) Regulations 2007 as amended* or a Waste Licence granted by the EPA. The COR / permit / licence held will specify the type and quantity of waste able to be received, stored, sorted, recycled, recovered and/or disposed of at the specified site.

### 3. DESIGN APPROACH

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The Client and the Design Team have integrated the *Best Practice Guidelines for the Preparation of Resource and Waste Management Plans for Construction and Demolition Projects* guidelines into the design workshops, to help review processes, identify and evaluate resource reduction measures and investigate the impact on cost, time, quality, buildability, second life and management post construction. Further details on these design principals can be found within the aforementioned guidance document.

The Design Team have undertaken the design process in line with the international best practice principles to firstly prevent wastes, reuse where possible and thereafter sustainably reduce and recover materials. The below sections have been the focal point of the design process and material selections and will continued to be analysed and investigated throughout the design process and when selecting material.

As noted in the EPA guidelines, the approaches presented are based on international principles of optimising resources and reducing waste on construction projects generally through:

- ▶ *Prevention;*
- ▶ *Reuse;*
- ▶ *Recycling;*
- ▶ *Green Procurement Principles;*
- ▶ *Off-Site Construction;*
- ▶ *Materials Optimisation; and*
- ▶ *Flexibility and Deconstruction.*

#### 3.1 Designing For Prevention, Reuse and Recycling

Undertaken at the outset and during project feasibility and evaluation the Client and Design Team considered:

- ▶ Identifying opportunities to retain or reuse natural site assets, as no refurbishment or demolition works are required for the Permitted Development; and
- ▶ Enabling the optimum recovery of assets on site.

#### 3.2 Designing for Green Procurement

Waste prevention and minimisation pre-procurement have been discussed and will be further detailed in this section. The Design Team will:

- ▶ Discuss proposed design solutions to reduce waste generation at source;
- ▶ Encourage innovation in tenders and incentivise competitions to recognise sustainable approaches;
- ▶ Engage with the Main Contractor and subcontractors / suppliers to explore options for packaging reduction, including:
  - Adoption of 'Just-in-Time' delivery strategies; and
  - Implementation of ordering procedures that avoid excessive material waste.

Green procurement principles will extend from the planning stage into detailed design and tender stage and will remain an ongoing part of the long-term design and selection process.

### 3.3 Designing for Off-Site Construction

Use of off-site manufacturing has been shown to reduce residual wastes by up to 90% (volumetric building versus traditional). The decision to use offsite construction is typically cost led, but there are significant benefits for resource management. Some further considerations for procurement which are being investigated as part of the planning stage design process are listed as follows:

- ▶ Modular buildings as these can displace the use of concrete and the resource losses associated with concrete blocks such as broken blocks, mortars, etc.;
- Modular buildings are typically pre-fitted with fixed plasterboard and installed insulation, eliminating these residual streams from site.
- ▶ Use of pre-cast structural concrete panels which can reduce the residual volumes of concrete blocks, mortars, plasters, etc.;
- ▶ The use of prefabricated composite panels for walls and roofing to reduce residual volumes of insulation and plasterboards;
- ▶ Using pre-cast hollow-core flooring instead of in-situ ready mix flooring or timber flooring to reduce the residual volumes of concrete/formwork and wood/packaging, respectively; and
- ▶ Designing for the preferential use of offsite modular units.

### 3.4 Designing for Materials Optimisation During Construction

To ensure manufacturers and construction companies adopt lean production models, including maximising the reuse of materials onsite as outlined in Section 3.1, structures should be designed to eliminate waste. This approach reduces environmental impacts associated with transportation of materials and from waste management activities. Key measures include:

- ▶ Investigating the use of standardised material sizes to minimise offcuts; and
- ▶ Promoting and developing off-site manufacturing methods.

### 3.5 Designing for Flexibility and Deconstruction

Design flexibility has and will continue to be investigated throughout the design process to ensure that, where possible, products (including buildings) are constructed using materials that can be recycled and are designed for easy disassembly.

Material efficiency is being considered for the duration and end of life of a building project to produce:

- ▶ Flexible, adaptable spaces that enable a resource-efficient, low-waste future change of use;
- ▶ Durability of materials to ensure long-term performance;
- ▶ Strategies for how materials can be recovered effectively during:
  - Maintenance and refurbishment activities; and
  - Disassembly and deconstruction at end of life.

## 4. DESCRIPTION OF THE PROPOSED DEVELOPMENT

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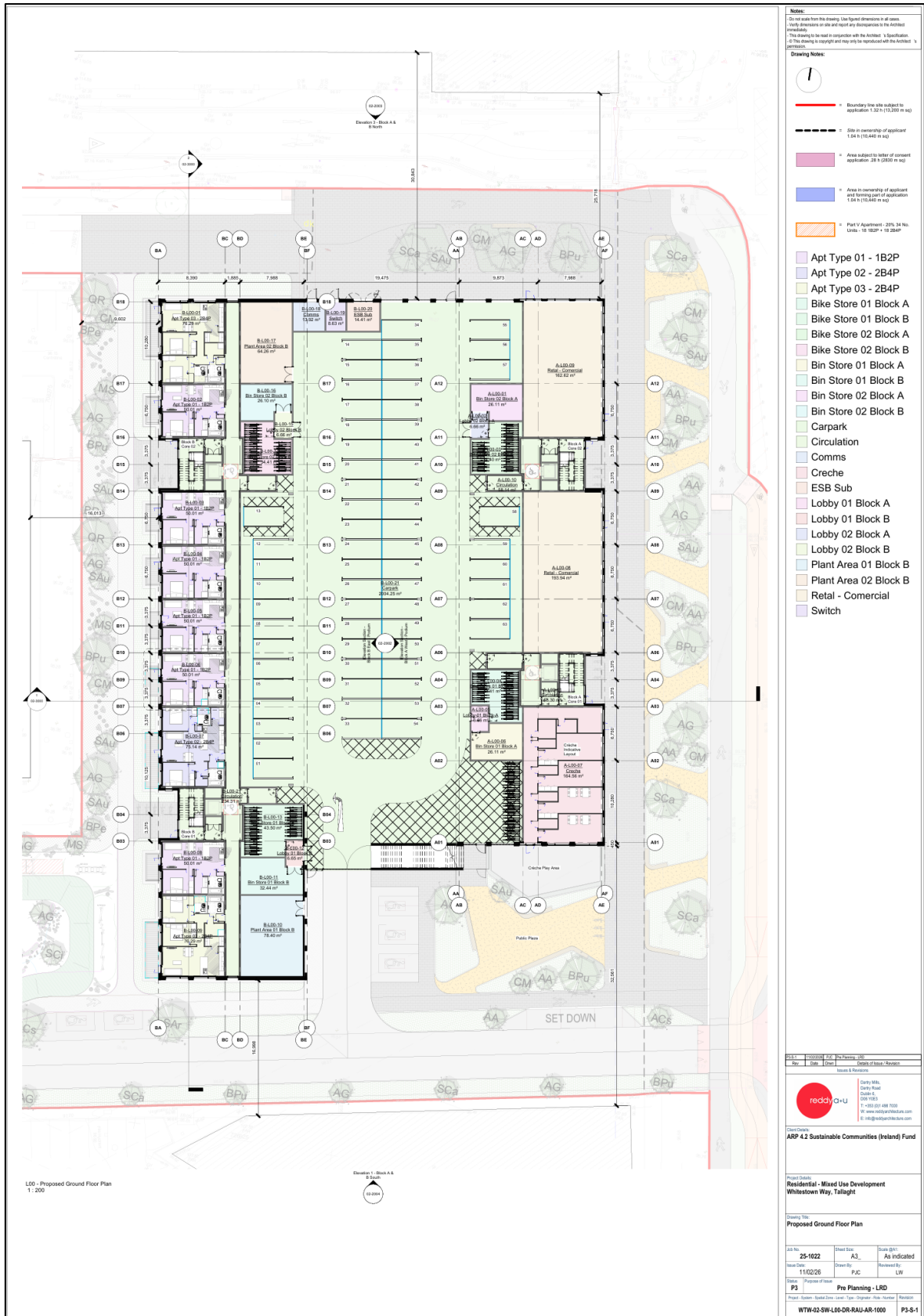
### 4.1 Location, Size and Scale of the Proposed Development

The Proposed Development principally comprises the construction of a mixed-use development in 2 No. blocks (Block A to the east and Block B to the west) with a gross floor area of 14,976.5 sq m (excluding undercroft car parking area of 1,975.8 sq m) and ranging in height from 1 No. storey to 6 No. storeys. The blocks are connected via a single-storey undercroft/podium level. The Proposed Development includes:

- ▶ 169 no. residential units (80 no. 1-bed, 85 no. 2-bed and 4 no. 3-bed);
- ▶ 2 no. class 1 / class 2 commercial units (totalling 356.5 sq m); and
- ▶ A crèche (162.8 sq m) with external play area.

The Proposed Development also comprises:

- ▶ New street and turning head at the site's southern side and junction with Whitestown Way to the east;
- ▶ 77 no. car parking spaces, with 66 no. within the undercroft car parking area and 11 no. on-street; 2 no. set-down bays;
- ▶ Cycle parking;
- ▶ Hard and soft landscaping, including public open space, communal amenity space and incidental spaces;
- ▶ Private amenity spaces (as balconies and terraces facing all directions);
- ▶ Boundary treatments;
- ▶ Sub-station;
- ▶ Plant / operational rooms;
- ▶ Bin stores;
- ▶ Public lighting;
- ▶ Green roofs;
- ▶ Rooftop plant,
- ▶ PV arrays, lift overruns, telecommunications infrastructure and automatic opening vents; and
- ▶ All associated works above and below ground.



**Figure 4.1 Proposed Site Layout (Ground Floor) (Source: Reddy Architecture, 2026, Drawing No. WTW-02-SW-L00-DR-RAU-AR-1000)**

## 4.2 Details of the Non-Hazardous Wastes to be Produced

There will be quantities of soil, stones and clay excavated to facilitate construction of new foundations and associated services. The development engineers, DBFL Consulting Engineers, have estimated that c. 5,757 m<sup>3</sup> of material (c. 3,030 m<sup>3</sup> of topsoil and c. 2,757 m<sup>3</sup> of subsoil) will need to be excavated to do so. It is currently envisaged that c. 1,485 m<sup>3</sup> of clean inert material (c. 1,212 m<sup>3</sup> of topsoil and c. 273 m<sup>3</sup> of subsoil) will be reused on site. All remaining excavated material, c. 4,272 m<sup>3</sup> (c. 1,818 m<sup>3</sup> of topsoil and c. 2,454 m<sup>3</sup> of subsoil), will be taken for appropriate offsite reuse, recovery, recycling and / or disposal.

During the construction phase there may be a surplus of building materials, such as timber off-cuts, broken concrete blocks, cladding, plastics, metals and tiles generated. There may also be excess concrete during construction which will need to be disposed of. Plastic and cardboard waste from packaging and supply of materials will also be generated. The Main Contractor will be required to ensure that oversupply of materials is kept to a minimum and opportunities for reuse of suitable materials is maximised.

Waste will also be generated from construction workers e.g. organic / food waste, dry mixed recyclables (waste paper, newspaper, plastic bottles, packaging, aluminium cans, tins and Tetra Pak cartons), mixed non-recyclables and potentially sewage sludge from temporary welfare facilities provided on site during the construction phase. Waste printer / toner cartridges, waste electrical and electronic equipment (WEEE) and waste batteries may also be generated infrequently from site offices.

## 4.3 Potential Hazardous Wastes Arising

### 4.3.1 Contaminated Soil

Site investigations were carried out by Ground Investigations Ireland Ltd. (GII) between January and March 2026. The investigations identified areas of Made Ground beneath the existing topsoil, underlain by natural cohesive deposits across the site.

Samples were selected from the exploratory holes for a range of geotechnical and environmental testing to assist in the classification of soils and to provide information for the proposed design. Environmental and Chemical testing as required by the specification, including the Rilta Suite, sulphate and pH testing was carried out by Element Materials Technology Laboratory in the UK. The Rilta suite testing includes both Solid Waste and Leachate Waste Acceptance Criteria.

The suite also includes those parameters specified in the EU Council Decision establishing criteria for the acceptance of waste at Landfills (Council Decision 2003/33/EC), which for the solid samples are total organic carbon (TOC), speciated aliphatic and aromatic petroleum hydrocarbons, BTEX, phenol, polychlorinated biphenyls (PCB) and PAH.

The waste classification report will be included under the cover of a separate report by Ground Investigations Ireland and included as part of this application.

If any potentially contaminated material is encountered, it will need to be segregated from clean / inert material, tested and classified as either non-hazardous or hazardous in accordance with the EPA publication entitled *Waste Classification: List of Waste and Determining if Waste is Hazardous or Non-Hazardous*<sup>19</sup> using the *HazWasteOnline* application (or similar approved classification method). The material will then need to be classified as clean, inert, non-hazardous or hazardous in accordance with the *EC Council Decision 2003/33/EC*<sup>20</sup>, which establishes the criteria for the acceptance of waste at landfills.

In the unlikely event that Asbestos-Containing Materials (ACMs) are found within the excavated material, the removal will only be carried out by a suitably permitted waste contractor, in accordance with *the Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010*<sup>21</sup> and *the Best Practice*

*Guidance for Handling Asbestos* (2023) <sup>22</sup>. All asbestos will be taken to a suitably licensed or permitted facility.

In the event that hazardous soil, or historically deposited waste is encountered during the construction phase, the Main Contractor will notify SDCC and provide a Hazardous / Contaminated Soil Management Plan, to include estimated tonnages, description of location, any relevant mitigation, destination for disposal / treatment, in addition to information on the authorised waste collector(s).

#### 4.3.2 Fuel/Oils

Fuels and oils are classed as hazardous materials; any on-site storage of fuel / oil, and all storage tanks and all draw-off points will be bunded and located in a dedicated, secure area of the site. Provided that these requirements are adhered to and the site crew are trained in the appropriate refuelling techniques, it is not expected that there will be any fuel / oil waste generated at the site.

#### 4.3.3 Invasive Plant Species

A site invasive species survey was undertaken by O'Connor Sutton Cronin & Associates (hereinafter OCSC) in November 2025 and February 2026. Based on the survey, no Third Schedule invasive plant species (as listed under the European Communities (Birds and Habitats) Regulations 2011) were recorded on site.

According to the National Biodiversity Data Centre (NBDC) there are 9 no. records of invasive species within in the 2km grid square in which the site is located, comprising the following:

- ▶ American Skunk-cabbage (*Lysichiton americanus*);
- ▶ Butterfly-bush (*Buddleja davidii*);
- ▶ Giant Knotweed (*Fallopia sachalinensis*);
- ▶ Japanese Knotweed (*Fallopia japonica*);
- ▶ Sycamore (*Acer pseudoplatanus*);
- ▶ Three-cornered Garlic (*Allium triquetrum*);
- ▶ Harlequin Ladybird (*Harmonia axyridis*);
- ▶ Grey Squirrel (*Sciurus carolinensis*); and
- ▶ Rabbit (*Oryctolagus cuniculus*).

During the site walkover (undertaken on the 14th of November 2025), one invasive species was identified within the site Butterfly Bush (*Buddleja Davidii*). Butterfly Bush was recorded in the scrub habitat in the southwest section of the site. While Butterfly Bush is considered an invasive species, it is not listed as a Third Schedule invasive plant species, and therefore does not require statutory control measures. No Third Schedule invasive plant species were recorded / observed during the site walkover.

In the event that a Third Schedule Invasive species is found on site, for example Japanese Knotweed, an Invasive Species Management Plan (ISMP) will be prepared which will include an eradication and treatment program to be submitted to SDCC. This management plan will be continued as required during the operational phase until eradication is complete.

#### 4.3.4 Asbestos

As there is no demolition proposed for the Proposed Development, it is envisaged that asbestos will not be encountered. In the unlikely event that asbestos or ACMs are located onsite, the removal of asbestos or ACMs will be carried out by a suitably qualified contractor and ACMs will only be removed from site by a suitably permitted / licenced waste contractor, in accordance with the *Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010* and the *Best Practice Guidance for Handling Asbestos* (2023). All material will be taken to a suitably licensed or permitted facility.

#### **4.3.5 Other Known Hazardous Substances**

Paints, glues, adhesives and other known hazardous substances will be stored in designated areas. They will generally be present in small volumes only and associated waste volumes generated will be kept to a minimum. Wastes will be stored in appropriate receptacles pending collection by an authorised waste contractor.

In addition, WEEE (containing hazardous components), printer toner / cartridges, batteries (Lead, Ni-Cd or Mercury) and / or fluorescent tubes and other mercury containing waste may be generated from during C&D activities or temporary site offices. These wastes, if generated, will be stored in appropriate receptacles in designated areas of the site pending collection by an authorised waste contractor.

## 5. ROLES AND RESPONSIBILITIES

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The *Best Practice Guidelines on the Preparation of Resource Waste Management Plans for Construction and Demolition Projects* promotes that a suitably qualified Resource Manager (RM) with expertise in waste and resource management to implement the RWMP should be appointed. The RM may be performed by number of different individuals over the life-cycle of the Proposed Development, however it is intended to be a reliable person chosen from within the Planning / Design / Contracting Team, who is technically competent and appropriately trained, who takes the responsibility to ensure that the objectives and measures within the Project RWMP are complied with. The RM is assigned the requisite authority to meet the objective and obligations of the RWMP. The role will include the important activities of conducting waste checks/audits and adopting construction methodology that is designed to facilitate maximum reuse and/or recycling of waste.

### 5.1 Role of the Client

The Client is responsible for establishing the aims and the performance targets for the Proposed Development.

- ▶ The Client has commissioned the preparation and submission of this RWMP as part of the design and planning submission;
- ▶ The Client is to commission the preparation and submission of an updated RWMP as part of the construction tendering process;
- ▶ The Client will ensure that the RWMP is agreed on and submitted to the local authority and their agreement obtained prior to commencement of works on site; and
- ▶ The Client will request the end-of-project RWMP from the Main Contractor.

### 5.2 Role of the Client Advisory Team

The Client Advisory Team or Design Team is formed of architects, consultants, quantity surveyors and engineers and is responsible for:

- ▶ Drafting and maintaining the RWMP through the design, planning and procurement phases of the Proposed Development;
- ▶ Appointing a RM to track and document the design process, inform the Design Team and prepare the RWMP;
- ▶ Including details and estimated quantities of all projected waste streams with the support of environmental consultants / scientists. This will also include data on waste types (e.g. waste characterisation data, contaminated land assessments, site investigation information) and prevention mechanisms (such as by-products) to illustrate the positive circular economy principles applied by the Design Team;
- ▶ Handing over of the RWMP to the selected Main Contractor upon commencement of construction of the Proposed Development, in a similar fashion to how the safety file is handed over to the Main Contractor; and
- ▶ Working with the Main Contractor as required to meet the performance targets for the Proposed Development.

### 5.3 Future Role of the Contractor

The future construction contractors have not yet been decided upon for this RWMP. However, once selected they will have major roles to fulfil. They will be responsible for:

- ▶ Preparing, implementing and reviewing the RWMP throughout the construction phase (including the management of all suppliers and sub-contractors) as per the requirements of the EPA guidelines;

- ▶ Identifying a designated and suitably qualified RM who will be responsible for implementing the RWMP;
- ▶ Identifying all hauliers to be engaged to transport each of the resources / wastes off-site;
- ▶ Implementing waste management policies whereby waste materials generated on site are to be segregated as far as practicable;
- ▶ Renting and operating a mobile-crusher to crush concrete for temporary reuse onsite during construction and reduce the amount of Heavy Goods Vehicle (HGV) loads required to remove material from site;
- ▶ Applying for the appropriate waste permit to crush concrete onsite;
- ▶ Identifying all destinations for resources taken off-site. As above, any resource that is legally classified as a 'waste' must only be transported to an authorised waste facility;
- ▶ End-of-waste and by-product notifications addressed with the EPA where required;
- ▶ Clarification of any other statutory waste management obligations, which could include on-site processing;
- ▶ Full records of all resources (both wastes and other resources) will be maintained for the duration of the Proposed Development; and
- ▶ Preparing a RWMP Implementation Review Report at project handover.

## 6. KEY MATERIALS AND QUANTITIES

### 6.1 Project Resource Targets

Project specific resource and waste management targets for the site have not yet been set and this information will be updated for these targets once these targets have been confirmed by the client. However, it is expected for projects of this nature that a minimum of 70% of waste is fully re-used, recycled or recovered. Target setting will inform the setting of project-specific benchmarks to track target progress. Typical Key Performance Indicators (KPIs) that will be used to set targets include (as per guidelines):

- ▶ *Weight (tonnes) or Volume (m<sup>3</sup>) of waste generated per construction value;*
- ▶ *Weight (tonnes) or Volume (m<sup>3</sup>) of waste generated per construction floor area (m<sup>2</sup>);*
- ▶ *Fraction of resource reused on site;*
- ▶ *Fraction of resource notified as by-product;*
- ▶ *Fraction of waste segregated at source before being sent off-site for recycling/recovery; and*
- ▶ *Fraction of waste recovered, fraction of waste recycled, or fraction of waste disposed.*

### 6.2 Main Construction Waste Categories

The main non-hazardous and hazardous waste streams that could be generated by the construction activities at a typical site are shown in Table 6.1. The List of Waste (LoW) code (2018) for each waste stream is also shown.

**Table 6.1 Typical Waste Types Generated and LoW Codes (Individual Waste Types May Contain Hazardous Substances)**

<b>Waste Material</b>	<b>LoW Code</b>
Concrete, bricks, tiles, ceramics	17 01 01-03 & 07
Wood, glass and plastic	17 02 01-03
Treated wood, glass, plastic, containing hazardous substances	17-02-04*
Bituminous mixtures, coal tar and tarred products	17 03 01*, 02 & 03*
Metals (including their alloys) and cable	17 04 01-11
Soil and stones	17 05 03* & 04
Gypsum-based construction material	17 08 01* & 02
Paper and cardboard	20 01 01
Mixed C&D waste	17 09 04
Green waste	20 02 01
Electrical and electronic components	20 01 35 & 36
Batteries and accumulators	20 01 33 & 34
Liquid fuels	13 07 01-10
Chemicals (solvents, pesticides, paints, adhesives, detergents etc.)	20 01 13, 19, 27-30
Insulation materials	17 06 04
Organic (food) waste	20 01 08
Mixed Municipal Waste	20 03 01

\* Individual waste type may contain hazardous substances

### 6.3 Demolition Waste Generation

There is no demolition required as part of the Proposed Development. As such, there will be no demolition waste generated from the Proposed Development.

### 6.4 Construction Waste Generation

Table 6.2 shows the breakdown of C&D waste types produced on a typical site based on data from the EPA *National Waste Reports*<sup>23</sup> and the joint EPA and GMIT study<sup>24</sup>.

**Table 6.2 Waste Materials Generated on a Typical Irish Construction Site**

Waste Types	%
Mixed C&D	33
Timber	28
Plasterboard	10
Metals	8
Concrete	6
Other	15
<b>Total</b>	<b>100</b>

Table 6.3, below, presents the estimated construction waste generation for the Proposed Development based on the gross floor area of construction and other information available to date, along with indicative targets for management of the waste streams. The estimated amounts for the main waste types (with the exception of soils, stones and clay) are based on an average large-scale development waste generation rate per m<sup>2</sup>, using the waste breakdown rates shown in Table 6.2. These have been calculated from the schedule of development areas provided by the Project Architect.

**Table 6.3 Predicted On and Off-Site Reuse, Recycle and Disposal Rates for Construction Waste**

Waste Type	Tonnes	Reuse		Recycle Recovery /		Disposal	
		%	Tonnes	%	Tonnes	%	Tonnes
Mixed C&D	294.1	10	29.4	80	235.3	10	29.4
Timber	249.5	40	99.8	55	137.2	5	12.5
Plasterboard	89.1	30	26.7	60	53.5	10	8.9
Metals	71.3	5	3.6	90	64.2	5	3.6
Concrete	26.7	30	8.0	65	17.4	5	1.3
Other	133.7	20	26.7	60	80.2	20	26.7
<b>Total</b>	<b>864.4</b>		<b>194.3</b>		<b>587.7</b>		<b>82.4</b>

In addition to the waste streams in Table 6.3, it is estimated that c. 5,757 m<sup>3</sup> of material (c. 3,030 m<sup>3</sup> of topsoil and c. 2,757 m<sup>3</sup> of subsoil) will need to be excavated to facilitate the construction of foundations and underground services. It is currently envisaged that c. 1,485 m<sup>3</sup> of clean inert material (c. 1,212 m<sup>3</sup> of topsoil and c. 273 m<sup>3</sup> of subsoil) will be reused on site. All remaining excavated material, c. 4,272 m<sup>3</sup> (c. 1,818 m<sup>3</sup> of topsoil and c. 2,454 m<sup>3</sup> of subsoil), will be taken for appropriate offsite reuse, recovery, recycling and / or disposal.

It should be noted that until final materials and detailed construction methodologies have been confirmed, it is difficult to predict with a high level of accuracy the construction waste that will be generated from the proposed works as the exact materials and quantities may be subject to some degree of change and variation during the construction process.

## 6.5 Proposed Resource and Waste Management Options

Waste materials generated will be segregated on-site, where it is practical. Where the on-site segregation of certain wastes types is not practical, off-site segregation will be carried out. There will be skips and receptacles provided to facilitate segregation at source, where feasible. All waste receptacles leaving the site will be covered or enclosed. The appointed waste contractor will collect and transfer the wastes as receptacles are filled. There are numerous waste contractors in the Dublin region that provide this service.

All waste arisings will be handled by an approved waste contractor holding a current waste collection permit. All waste arisings requiring disposal off-site will be reused, recycled, recovered or disposed of at a facility holding the appropriate registration, permit or licence, as required.

National End-of-Waste Decision EoW-N001/2023 (Regulation 28) published by the EPA in September 2023, establishes criteria determining when recycled aggregate resulting from a recovery operation ceases to be waste. Material from this Proposed Development will be investigated to see if it can cease to be a waste under the requirements of the National End of Waste Criteria for Aggregates.

During construction, some of the sub-contractors on site will generate waste in relatively low quantities. The transportation of non-hazardous waste by persons who are not directly involved with the waste business, at weights less than or equal to 2 tonnes, and in vehicles not designed for the carriage of waste, are exempt from the requirement to have a waste collection permit (per Article 30 (1) (b) of the Waste Collection Permit Regulations 2007, as amended). Any sub-contractors engaged that do not generate more than 2 tonnes of waste at any one time can transport this waste off-site in their work vehicles (which are not designed for the carriage of waste). However, they are required to ensure that the receiving facility has the appropriate COR / permit / licence.

Written records will be maintained by the contractor(s), detailing the waste arising throughout the construction phase, the classification of each waste type, waste collection permits for all waste contractors who collect waste from the site and COR / permit / licence for the receiving waste facility for all waste removed off-site for appropriate reuse, recycling, recovery and / or disposal.

Dedicated bunded storage containers will be provided for hazardous wastes which may arise, such as batteries, paints, oils, chemicals, if required.

The anticipated management of the main waste streams is outlined as follows:

### **Soil, Stones, Clay and Made Ground**

The waste hierarchy states that the preferred option for waste management is prevention and minimisation of waste, followed by preparing for reuse and recycling / recovery, energy recovery (i.e. incineration) and, least favoured of all, disposal. The excavations are required to facilitate construction works so the preferred option (prevention and minimisation) cannot be accommodated for the excavation phase.

When material is removed off-site it could be reused as a by-product (and not as a waste). If this is done, it will be done in accordance with Regulation 27 of the European Communities (Waste Directive) Regulations 2011, as amended, which requires that certain conditions are met and that by-product notifications are made to the EPA via their online notification form. Excavated material should not be removed from site until approval from the EPA has been received. The potential to reuse material as a by-product will be confirmed during the course of the excavation works, with the objective of eliminating any unnecessary disposal of material.

The next option (beneficial reuse) may be appropriate for the excavated material, pending environmental testing to classify the material as hazardous or non-hazardous in accordance with the EPA *Waste*

*Classification – List of Waste and Determining if Waste is Hazardous or Non-Hazardous* publication. Clean inert material may be used as fill material in other construction projects or engineering fill for waste licensed sites. Beneficial reuse of surplus excavation material as engineering fill may be subject to further testing to determine if materials meet the specific engineering standards for their proposed end use.

Any nearby sites requiring clean fill/capping material will be contacted to investigate reuse opportunities for clean and inert material. If any of the material is to be reused on another site as a by-product (and not as a waste), this will be done in accordance with Regulation 27. Similarly, if any soils/stones are imported onto the site from another construction site as a by-product, this will also be done in accordance with Regulation 27. Regulation 27 will be investigated to see if the material can be imported onto this site for beneficial reuse instead of using virgin materials.

If the material is deemed to be a waste, then removal and reuse / recovery / disposal of the material will be carried out in accordance with the Waste Framework Directive (Directive 2008/98/EC), the *Waste Management Act 1996* as amended, the *Waste Management (Collection Permit) Regulations 2007* as amended and the *Waste Management (Facility Permit and Registration) Regulations 2007* as amended. Once all available beneficial reuse options have been exhausted, the options of recycling and recovery at waste permitted and licensed sites will be considered.

In the event that contaminated material is encountered and subsequently classified as hazardous, this material will be stored separately to any non-hazardous material. It will require off-site treatment at a suitable facility or disposal abroad via Transfrontier Shipment of Wastes (TFS).

### **Bedrock**

While it is not envisaged that bedrock will be encountered, if bedrock is encountered, it is anticipated that it will not be crushed on site. Any excavated rock is expected to be removed off-site for appropriate reuse, recovery and / or disposal. If bedrock is to be crushed on-site, the appropriate mobile waste facility permit will be obtained from SDCC.

### **Silt and Sludge**

During the construction phase, silt and petrochemical interception will be carried out on run-off and pumped water from site works, where required. Sludge and silt will then be collected by a suitably licensed contractor and removed off-site.

### **Concrete Blocks, Bricks, Tiles and Ceramics**

The majority of concrete blocks, bricks, tiles and ceramics generated as part of the construction works are expected to be clean, inert material and will be recycled, where possible. If concrete is to be crushed on-site, the appropriate mobile waste facility permit will be obtained from SDCC.

### **Hard Plastic**

As hard plastic is a highly recyclable material, much of the plastic generated will be primarily from material off-cuts. All recyclable plastic will be segregated and recycled, where possible.

### **Timber**

Timber that is uncontaminated, i.e. free from paints, preservatives, glues, etc., will be disposed of in a separate skip and recycled off-site.

### **Metal**

Metals will be segregated, where practical, and stored in skips. Metal is highly recyclable and there are numerous companies that will accept these materials.

## **Plasterboard**

There are currently a number of recycling services for plasterboard in Ireland. Plasterboard from the construction phase will be stored in a separate skip, pending collection for recycling. The site Manager will ensure that oversupply of new plasterboard is carefully monitored to minimise waste.

## **Glass**

Glass materials will be segregated for recycling, where possible.

## **Waste Electrical and Electronic Equipment (WEEE)**

Any WEEE will be stored in dedicated covered cages / receptacles / pallets pending collection for recycling.

## **Other Recyclables**

Where any other recyclable wastes, such as cardboard and soft plastic, are generated, these will be segregated at source into dedicated skips and removed off-site.

## **Non-Recyclable Waste**

C&D waste which is not suitable for reuse or recovery, such as polystyrene, some plastics and some cardboards, will be placed in separate skips or other receptacles. Prior to removal from site, the non-recyclable waste skip / receptacle will be examined by a member of the waste team (see Section 8.0) to determine if recyclable materials have been placed in there by mistake. If this is the case, efforts will be made to determine the cause of the waste not being segregated correctly and recyclable waste will be removed and placed into the appropriate receptacle.

## **Asbestos Containing Materials**

In the unlikely event that if any asbestos or ACM is found on-site it will be removed by a suitably competent contractor and disposed of as asbestos waste before any works begin. All asbestos removal work or encapsulation work must be carried out in accordance with the *Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010*.

## **Other Hazardous Wastes**

On-site storage of any hazardous wastes produced (i.e. contaminated soil if encountered and / or waste fuels) will be kept to a minimum, with removal off-site organised on a regular basis. Storage of all hazardous wastes on-site will be undertaken so as to minimise exposure to on-site personnel and the public and to also minimise potential for environmental impacts. Hazardous waste will be recovered, wherever possible, and failing this, disposed of appropriately.

## **On-Site Crushing**

It is currently not envisaged that the crushing of waste materials will occur on-site. However, if the crushing of material is to be undertaken, a mobile waste facility permit will first be obtained from SDCC and the destination of the accepting waste facility or if an application under regulation 28 will be made using National End-of-Waste Decision EoW-N001/2023, will be supplied to the SDCC waste unit.

It should be noted that until construction contractors are appointed it is not possible to provide information on the specific destinations of each construction waste stream. Prior to commencement of construction and removal of any waste offsite, details of the proposed destination of each waste stream will be provided to SDCC by the project team.

## 6.6 Tracking and Documentation Procedures for Off-Site Waste

All waste will be documented prior to leaving the site. Waste will be weighed by the contractor, either by a weighing mechanism on the truck or at the receiving facility. These waste records will be maintained on site by the nominated project RM (see Section 8.0).

All movement of waste and the use of waste contractors will be undertaken in accordance with the Waste Framework Directive (Directive 2008/98/EC), the *Waste Management Act 1996* as amended, *Waste Management (Collection Permit) Regulations 2007* as amended and *Waste Management (Facility Permit and Registration) Regulations 2007* and amended. This includes the requirement for all waste contractors to have a waste collection permit issued by the NWCPO. The nominated project RM (see Section 8.0) will maintain a copy of all waste collection permits on-site.

If the waste is being transported to another site, a copy of the Local Authority waste COR / permit or EPA Waste Licence for that site will be provided to the nominated project Waste Manager (see Section 8.0). If the waste is being shipped abroad, a copy of the Transfrontier Shipping (TFS) notification document will be obtained from Dublin County Council (as the relevant authority on behalf of all Local Authorities in Ireland) and kept on-site along with details of the final destination (COR, permits, licences, etc.). A receipt from the final destination of the material will be kept as part of the on-site waste management records.

All information will be entered in a waste management recording system to be maintained on-site.

## 7. ESTIMATED COST OF WASTE MANAGEMENT

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An outline of the costs associated with different aspects of waste management is outlined below. The total cost of C&D waste management will be measured and will take into account handling costs, storage costs, transportation costs, revenue from rebates and disposal costs.

### 7.1 Reuse

By reusing materials on site, there will be a reduction in the transport and recycle / recovery / disposal costs associated with the requirement for a waste contractor to take the material off-site. Clean and inert soils, gravel, stones, etc., which cannot be reused on-site may be used as access roads or capping material for landfill sites, etc. This material is often taken free of charge or at a reduced fee for such purposes, reducing final waste disposal costs.

### 7.2 Recycling

Salvageable metals will earn a rebate, which can be offset against the costs of collection and transportation of the skips.

Clean, uncontaminated cardboard and certain hard plastics can also be recycled. Waste contractors will charge considerably less to take segregated wastes, such as recyclable waste, from a site than mixed waste.

Timber can be recycled as chipboard. Again, waste contractors will charge considerably less to take segregated wastes, such as timber, from a site than mixed waste.

### 7.3 Disposal

Municipal landfill charges in Ireland are based on the weight of waste disposed. Charges are approximately €140 - €160 per tonne of waste which includes an €85 per tonne landfill levy introduced under the *Waste Management (Landfill Levy) (Amendment) Regulations*. The *Circular Economy (Waste Recovery Levy)* will also incur a levy of €10 per tonne for waste accepted for recovery. This will include backfilling at authorised recovery sites and at municipal waste landfills.

Collection of segregated C&D waste usually costs less than municipal waste. Specific C&D waste contractors take the waste off-site to a licensed or permitted facility and, where possible, remove salvageable items from the waste stream before disposing of the remainder to landfill. Clean soil, rubble, etc., is also used as fill / capping material, wherever possible.

## **8. TRAINING PROVISIONS**

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A member of the construction team will be appointed as the RM to ensure commitment, operational efficiency and accountability in relation to waste management during the construction phase of the Proposed Development.

### **8.1 Resource Manager Training and Responsibilities**

The nominated RM will be given responsibility and authority to select a waste team if required, i.e. members of the site crew that will aid them in the organisation, operation and recording of the waste management system implemented on site.

The RM will have overall responsibility to oversee, record and provide feedback to the client on everyday waste management at the site. Authority will be given to the Waste Manager to delegate responsibility to sub-contractors, where necessary, and to coordinate with suppliers, service providers and sub-contractors to prioritise waste prevention and material salvage.

The RM will be trained in how to set up and maintain a record keeping system, how to perform an audit and how to establish targets for waste management on site. The RM will also be trained in the best methods for segregation and storage of recyclable materials, have information on the materials that can be reused on site and be knowledgeable in how to implement this RWMP.

### **8.2 Site Crew Training**

Training of site crew in relation to waste is the responsibility of the RM and, as such, a waste training program will be organised. A basic awareness course will be held for all site crew to outline the RWMP and to detail the segregation of waste materials at source. This may be incorporated with other site training needs such as general site induction, health and safety awareness and manual handling.

This basic course will describe the materials to be segregated, the storage methods and the location of the Waste Storage Areas (WSAs). A sub-section on hazardous wastes will be incorporated into the training program and the particular dangers of each hazardous waste will be explained.

## 9. TRACKING AND TRACING / RECORD KEEPING

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Records will be kept for all waste material which leaves the site, either for reuse on another site, recycling or disposal. A recording system will be put in place to record the waste arisings on site.

A waste tracking log will be used to track each waste movement from the site. On exit from the site, the waste collection vehicle driver will stop at the site office and sign out as a visitor and provide the security personnel or RM with a waste docket (or Waste Transfer Form (WTF) for hazardous waste) for the waste load collected. At this time, the security personnel will complete and sign the Waste Tracking Register with the following information:

- ▶ Date;
- ▶ Time;
- ▶ Waste Contractor;
- ▶ Company waste contractor appointed by, e.g. contractor or subcontractor name;
- ▶ Collection Permit No.;
- ▶ Vehicle Reg.;
- ▶ Driver Name;
- ▶ Docket No.;
- ▶ Waste Type;
- ▶ LoW;
- ▶ Weight/Quantity; and
- ▶ Receiving Waste Facility Details.

The waste vehicle will be checked by security personal or the RM to ensure it has the waste collection permit no. displayed and a copy of the waste collection permit in the vehicle before they are allowed to remove the waste from the site.

The waste transfer dockets will be transferred to the RM on a weekly basis and can be placed in the Waste Tracking Log file. This information will be forwarded onto the SDCC Waste Regulation Unit when requested.

Each subcontractor that has engaged their own waste contractor will be required to maintain a similar waste tracking log with the waste dockets / WTF maintained on file and available for inspection on site by the Main Contractor as required. These subcontractor logs will be merged with the main waste log.

Waste receipts from the receiving waste facility will also be obtained by the site contractor(s) and retained. A copy of the Waste Collection Permits, CORs, Waste Facility Permits and Waste Licences will be maintained on site at all times and will be periodically reviewed by the RM. Subcontractors who have engaged their own waste contractors, will provide the Main Contractor with a copy of the waste collection permits and COR / permit / licence for the receiving waste facilities and maintain a copy on file, available for inspection on site as required.

## **10. OUTLINE WASTE AUDIT PROCEDURE**

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### **10.1 Responsibility for Waste Audit**

The appointed RM will be responsible for conducting a waste audit at the site during the construction phase of the Proposed Development. Contact details for the nominated RM will be provided to the SDCC Waste Regulation Unit after the Main Contractor is appointed and prior to any material being removed from site.

### **10.2 Review of Records and Identification of Corrective Actions**

A review of all waste management costs and the records for the waste generated and transported off-site will be undertaken mid-way through the construction phase of the Proposed Development.

If waste movements are not accounted for, the reasons for this will be established in order to see if and why the record keeping system has not been maintained. The waste records will be compared with the established recovery / reuse / recycling targets for the site. Each material type will be examined, in order to see where the largest percentage waste generation is occurring. The waste management methods for each material type will be reviewed in order to highlight how the targets can be achieved.

Upon completion of the construction phase, a final report will be prepared, summarising the outcomes of waste management processes adopted and the total recycling / reuse / recovery figures for the Proposed Development.

### **10.3 Pest Management**

A pest control operator will be appointed as required to manage pest onsite during the construction phase of the Proposed Development. Organic and food wastes generated by staff will not be stored in open skips, but in closed waste receptacles. Any waste receptacles will be carefully managed to prevent leaks, odours and pest problems.

## **11. CONSULTATION WITH RELEVANT BODIES**

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### **11.1 Local Authority**

Once construction contractors have been appointed and have appointed waste contractors, and prior to removal of any C&D waste materials off-site, details of the proposed destination of each waste stream will be provided to the SDCC Waste Regulation Unit.

SDCC will also be consulted, as required, throughout the excavation and construction phases in order to ensure that all available waste reduction, reuse and recycling opportunities are identified and utilised and that compliant waste management practices are carried out.

### **11.2 Recycling / Salvage Companies**

The appointed waste contractor for the main waste streams managed by the construction contractors will be audited in order to ensure that relevant and up-to-date waste collection permits and facility registrations / permits / licences are held. In addition, information will be obtained regarding the feasibility of recycling each material, the costs of recycling / reclamation, the means by which the wastes will be collected and transported off-site, and the recycling / reclamation process each material will undergo off-site.

## 12. SUMMARY AND CONCLUSION

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Adherence to this plan will also ensure that waste management during the construction phase at the Proposed Development is carried out in accordance with the requirements in the *EPA's Best Practice Guidelines for the Preparation of Resource and Waste Management Plans for Construction and Demolition Projects* and the *SDCC Waste Bye-Laws*<sup>25</sup> and the *NWMPCE*.

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