

Project:

Large-scale Residential Development at Ross Road, Killarney, Co. Kerry

Report Title

Operational Waste Management Plan

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1.0 INTRODUCTION

OSL Butler Consulting Engineers (OSL) has prepared this Operational Waste Management Plan on behalf of Homeland Projects Ltd., for a proposed Large-Scale Residential Development at Ross Road, Killarney, County Kerry on a circa 3.8-hectare site.

The purpose of this Operational Waste Management Plan (OWMP) is to ensure that waste generated during the operational phase will be managed and disposed of in a way that ensures the provisions of the Waste Management Acts 1996 - 2013 are complied with. It will also ensure that optimum levels of waste reduction, re-use and recycling are achieved.

2.0 SITE LOCATION AND PROPOSED DEVELOPMENT

2.1 SITE LOCATION

The site is located to the southwest of Killarney Town Centre, centred at grid reference E: 496243, N: 589941 (ITM) as highlighted in Figure 1 below.



Figure 1: Site Location (Site boundary shown indicatively)

The lands are bound to the north by Ross Road and then to the west, south and east by existing residential neighbourhoods (Castle Falls, Cahernane Meadows and King's Park). The extents of the proposed development site have been shown indicatively in Figure 2 below.



Figure 2: Site Extents and Environs (Site boundary shown indicatively)

2.2 EXISTING LAND USE

The development site is at present a greenfield site (previously agricultural).

2.3 PROPOSED DEVELOPMENT

To summarise, the proposed development will consist of a largescale residential development (LRD), comprising of 134no. residential dwellings as follows: 65no. houses consisting of 10no. 4-bed dwellings and 55no 3-bed dwellings; 51no. townhouses consisting of 32no. 3-bed units and 19no. 2-bed units; and 18no. apartments consisting of 12no. 2-bed units and 6no. 1-bed units.

The proposed development also includes crèche (585sqm) with capacity to accommodate 102no. children, and all ancillary site development works including 2no. vehicular and pedestrian accesses onto the Ross Road.

Access to the proposed development will be via a proposed vehicular and pedestrian access to the existing Ross Road.

3.0 OPERATION WASTE GENERATED BY THE PROPOSED DEVELOPMENT

Municipal waste means household waste as well as commercial and other waste that, because of its nature or composition, is similar to household waste. It excludes municipal sludges and effluents.

In the context of this report, municipal waste consists of three main elements; household, commercial (including non-process industrial waste), and street cleansing waste (street sweepings, street bins and municipal parks and cemeteries maintenance waste, litter campaign material).

Municipal waste generation continues to decrease from a peak in 2007, with municipal waste generated 21% lower in 2012 compared with 2007. Subsequently, municipal waste generated per capita has decreased from

0.78 tonnes of waste generated per person in 2007 to 0.59 tonnes in 2012. This decrease is linked to declining personal consumption as the economy contracted over the period 2007 to 2012 and occurred despite an increase in population over the same period. In addition, it also indicates a trend towards improved waste prevention in the country. Significantly, 2012 was the first year that the percentage of municipal waste recovered (59%) exceeded the percentage disposed (41%).

Typical municipal waste streams are expected to be produced during operation of the proposed development. This includes:

- Food wastes;
- Cardboard and Paper;
- Plastics (including bottles and other containers);
- Glass (including green, brown and clear);
- Metals (including aluminium cans and tin cans).

Periodic maintenance and repair activities will generate small quantities of wastes such as green waste, inert building materials (e.g., textiles) and certain chemicals (cleaning products, paints, pesticides etc.).

3.1 DEVELOPMENT WASTE DISPOSAL

A Waste Control Strategy will be developed by a Site Facilities Manager who will be appointed to clearly outline the approach to waste disposal. Facility management will be responsible for the collection and disposal of all waste.

The use of refuse bin stores will be minimised where possible.

In stock housing situated around the site, access to a rear-garden via a side-gate will allow for refuse bin storage in the rear-garden. Regarding the mid-terrace units, they will have small private bins beside the entrance door hidden by low walls and bikes store near the parking space.

The own-door apartments and duplex will have shared external bins stores to the rear of units. The ground floor apartment with external access to a garden or patio can also store their bins and bikes in this area.

Bins and bikes stores will be built from durable materials in keeping with the design palette. The dimension of these bins areas has been designed to satisfy the three-bin system.

The waste will be segregated at the Waste Collection Area into the following categories;

- Cardboard / Paper;
- Mixed non-recyclable waste;
- Plastic;
- Glass;

- Metals;
- Organic (food) waste;
- Electrical Waste.

Bins/containers will be clearly labelled, and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which wastes can be put in each.

The Facilities Management Company shall make arrangements for the disposal of all waste collected within the development. The management staff will transfer the waste and recycling bins to an accessible area next to the entrance gate of the development, for pick up by the permitted waste collection contractor on the day of collection.

3.2 DEVELOPMENT WASTE DISPOSAL

In order to minimise the disposal of waste material to landfill, the mantra of “reduce, reuse, recycle” will be promoted throughout the development. In addition, the following mitigation measures will be employed;

- Suitable waste materials will be stored in bins or other receptacles in designated, easily accessible locations.
- Waste leaving the site will be transported by suitable permitted contractors and taken to suitably permitted/licensed facilities.
- Where necessary, waste leaving the site will be recorded and copies of relevant documentation maintained.
- Where necessary, waste from the development will be segregated and stored in designated centralised waste storage areas on site.

These mitigation measures will ensure the operational waste generated by the development is dealt with in compliance with the provisions of the Waste Management Acts 1996 to 2013, the Litter Act of 1997, and the Southern Region Waste Management Plan 2015-2021, and that optimum levels of waste reduction, re-use and recycling are achieved.

3.3 PREDICTED IMPACTS OF THE PROPOSED DEVELOPMENT

As with the construction phase, waste material will be generated during the operational phase of the proposed development. Again, careful management of these, including segregation at source, will help ensure applicable local and national waste targets are met. It is expected that some waste (e.g. mixed non-recyclables) will still be required to be disposed of to landfill. Assuming appropriate on-site storage is provided, environmental impacts (e.g. litter and to a lesser extent contamination of soil or water etc) arising from waste storage are expected to be minimal. The use of suitably licensed waste contractors will ensure compliance with the relevant legal requirements and appropriate off-site management of waste.

In summary, it is envisaged that the environmental impact of the operation phase of the proposed site will be long-term and slight with respect to waste management.

4.0 CONCLUSION

This document outlines the principles and measures by which the waste generated during the construction and operational phases of the proposed development will be managed and disposed of in compliance with the provisions of the Waste Management Acts 1996 to 2013 and the Southern Region Waste Management Plan 2015-2021. It describes the measures by which optimum levels of waste reduction, re-use and recycling.