

2. PROPOSED DEVELOPMENT

Killarney Waste Disposal propose to apply for an increase in the allowable waste intake of 40,000 tonnes per annum as shown in Table 2.1. The existing operations will remain the same as outlined in Section 1.3.1.

Table 2.1 Proposed Types/Quantities of Waste to be Accepted at KWD

Waste Type	Maximum Tonnes per Annum
Mixed municipal waste	15,000
Organic waste (kitchen and canteen waste)	2,400
Dry recyclable wastes	5,600
Construction and Demolition waste	17,000
Total Waste	40,000

Drawing No. 02-034-J4-MCOS2 Proposed Site Layout Plan and Drawing No. DG0002-01 provides details on a layout for the extension to the MRF building on site. It should be noted that the proposed layout is indicative and may change depending on machinery sizes and operational techniques.

The new building has been designed with a maximum number of access points to facilitate delivery and loading of waste to and from the building. There are 5 no. entrances to the new building. It is proposed to build an on-site access road around the perimeter of this building. The extension will be provided on the existing site which is 2.2 hectares in size. The existing Material Recovery Facility will be extended by 2,503 sq.m to a total size of 3,223 sq.m and will not exceed the existing structure's height (ridgeline is 9.45m above foundation ground level). A stream which is located on site has already been diverted.

A designated quarantine area has been identified and any consignment will be removed to the quarantine area for further inspection and if non-compliant will be returned to the customer.

The processing of the mixed municipal waste produces an effluent. The existing processing shed drains to a holding tank of 4.55m³ capacity. Approx. 6.8m³ of effluent is produced per month based on outgoing weighbridge dockets from facility. The effluent is stored in the holding tank and transported to Killarney WWTP for treatment. The new processing building will have a similar effluent collection system.

A stormwater treatment system is proposed on site. An interceptor for oil and solids separation is currently in operation on site and it is proposed to direct stormwater runoff from the interceptor to a lagoon and then to a reed bed which will discharge the treated stormwater to a percolation area. Drawing No. 02-034-J4-MCOS2 Proposed Site Layout Plan provides details on the layout of the stormwater treatment system.

A septic tank is in use on site and a Puraflo system is proposed, which will be designed to cater for 12 people at 180 litres per person per day. This equates to a discharge quantity of 2.16 cubic metres per day to be treated by the system. Roof water runoff from the proposed shed will drain to the stream as shown on Drawing No. 02-034-J4-MCOS2 Proposed Site Layout Plan.



Figure 2.1: Waste Processing Activities



Figure 2.2: Outgoing Waste Shipment

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