

## Attachment L.2 – Liner System

**Organisation Name:\***

Knockharley Landfill Limited

**Application I.D.:\***

LA004307

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## 1. Type of Liner System

The landfill is designed as a containment facility where wastes are deposited in engineered landfill cells provided with the lining system specified in Condition 3.12 (W0146-01). The lining system design comprises: -

- A composite liner consisting of a 1 m layer of compacted soil, or equivalent (bentonite enhanced sand) with a hydraulic conductivity of less than or equal to  $1 \times 10^{-9}$  m/s overlain by a 2 mm thick high density polyethylene (HDPE) layer;
- A geotextile protection layer placed over the HDPE layer;
- A 500 mm thick drainage layer placed over the geotextile layer with a minimum hydraulic conductivity of  $1 \times 10^{-3}$  m/s;
- The side walls are designed and constructed to achieve an equivalent protection.

## 2. Quality Assurance

A comprehensive independent construction quality assurance report is prepared for each phase of cell construction and is submitted to the Agency for approval prior to waste acceptance.

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