

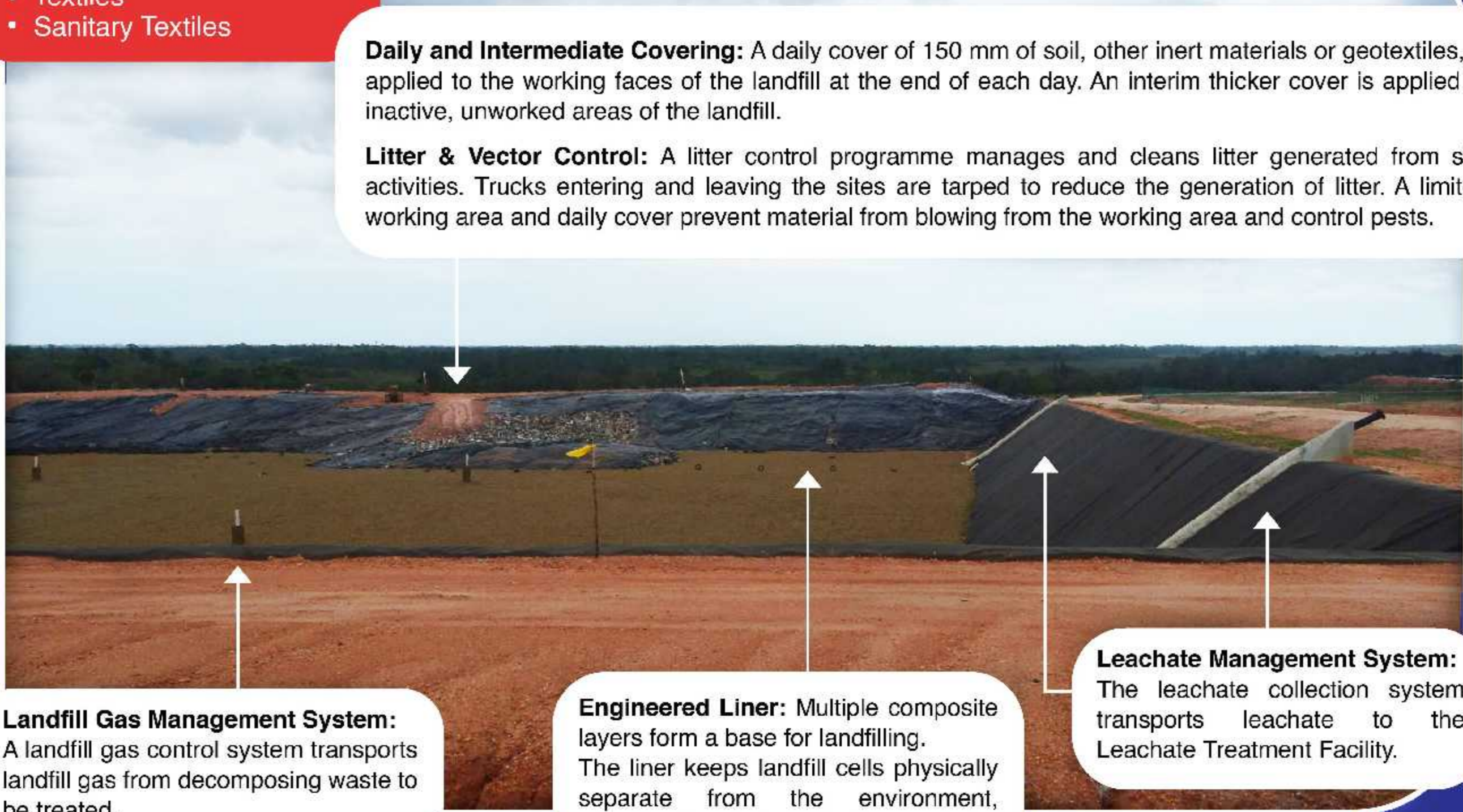
UNDERSTANDING THE KEY COMPONENTS OF THE PROPOSED MUNICIPAL WASTE DISPOSAL FACILITY

Do you know how the new engineered landfill will allow for the safe and environmentally sound disposal of waste?

ANSWER: BY USING A CLOSED SYSTEM DESIGN

- WASTE TO BE LANDFILLED**
- Biowaste
 - Paper
 - Textiles
 - Sanitary Textiles

Image: Engineered Sanitary Landfill



Daily and Intermediate Covering: A daily cover of 150 mm of soil, other inert materials or geotextiles, is applied to the working faces of the landfill at the end of each day. An interim thicker cover is applied to inactive, unworked areas of the landfill.

Litter & Vector Control: A litter control programme manages and cleans litter generated from site activities. Trucks entering and leaving the sites are tarped to reduce the generation of litter. A limited working area and daily cover prevent material from blowing from the working area and control pests.

Landfill Gas Management System: A landfill gas control system transports landfill gas from decomposing waste to be treated.

Engineered Liner: Multiple composite layers form a base for landfilling. The liner keeps landfill cells physically separate from the environment, reducing leachate infiltration and the risk of groundwater contamination.

Leachate Management System: The leachate collection system transports leachate to the Leachate Treatment Facility.

ANSWER: ENVIRONMENTAL MONITORING & MANAGEMENT SYSTEMS

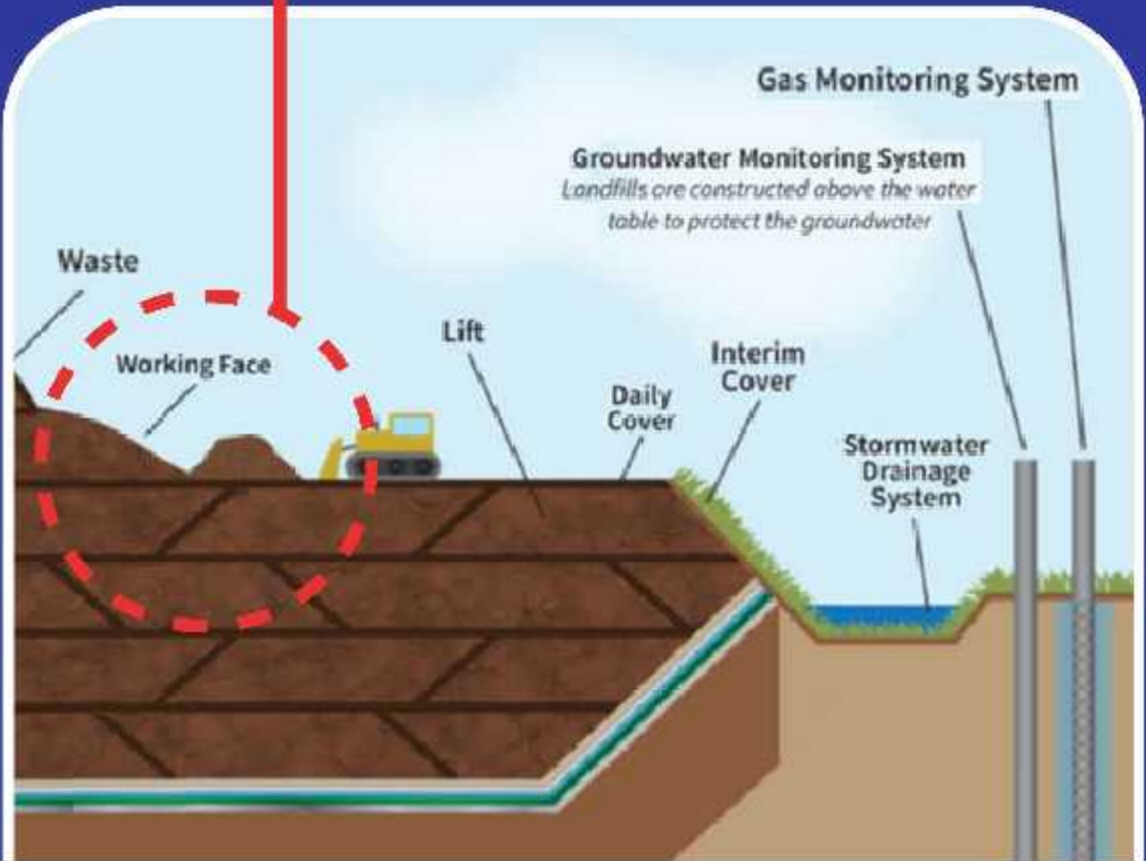


Image: Constructed Wetland



Groundwater Monitoring System: Groundwater monitoring wells installed near active landfilling areas and around the site perimeter allow for accurate monitoring of landfill impacts on groundwater, early detection of contamination, and timely implementation of mitigation measures.

Stormwater Drainage System: A network of culverts, pipes, ditches, and berms separates clean offsite drainage from landfill runoff, directs clean onsite drainage from non-active areas to natural pathways, and contains and channels contaminated drainage to a settling and treatment pond.

Leachate Treatment Facility: Preliminary and secondary treatment processes remove coarse solids, large materials and biodegradable organic matter and suspended solids.

A constructed wetland provides advanced treatment to further improve effluent quality for safe release.