

HOW WILL THE MUNICIPAL ENGINEERED LANDFILL WORK FOR YOU?

An Introduction to the Proposed Municipal Engineered Landfill

ENVIRONMENTAL PRESERVATION

- Prevent air pollution through gas recovery systems that capture methane for energy use.
- Prevent fires with the use of engineered covers.
- Prevent water contamination with the use of double-layer liners and leachate management systems.
- Prevent landslides with the use of engineered slopes.

HEALTH PROTECTION

- Prevent respiratory problems and skin issues by employing advanced systems to eliminate air pollutants and prevent exposure to harmful substances.
- Prevent noise pollution through the implementation of strict truck operation schedules.
- Implement preventative measures to reduce vectors and pests by covering waste daily and using pest control strategies.

LIFE ENHANCEMENT

- Prevent unpleasant odors with the implementation of daily and intermediate covering, along with air treatment systems.
- Reduce the risk of flooding by constructing drainage systems.
- Eliminate informal scavenging by establishing formal waste sorting and community employment programs.



Image: Example of a successfully implemented Engineered Landfill in Belize.

The new **Engineered Landfill** represents a significant advancement in national waste management practices. It is designed to address current environmental challenges and improve public health and community well-being. Countries in the region have successfully constructed engineered landfills to replace controlled dumpsites similar to the Forres Park Disposal Site.

WHAT IS THE DIFFERENCE BETWEEN THE EXISTING DISPOSAL SITE AND THE PROPOSED MUNICIPAL ENGINEERED LANDFILL?



Features:
Limited environmental safeguards, limited fencing, odours and limited leachate treatment.

Outcomes:
Unauthorised access and salvaging, landfill fires and smoke, migration of odours to the neighbouring communities.



Features:
Materials sorting & recovery, recycling & composting, environmental monitoring and management, buffer zone with security and access controls, operation in compliance with CEC permit & under EMA oversight.

Outcomes:
Safe and environmentally sound solid waste disposal, significant reduction in odours, fires & smoke, informed and transparent communication & interaction with fenceline communities.