

11 Summary of Environmental Outcome

11.1 Population and Environmental Sensitive Areas Protected

The entire population of the affected villages in the vicinity of the Project site are effectively protected by the measures proposed by this EIA study.

By adopting a design with no encroachment on the ecologically sensitive areas, the habitats of ecological importance around the site including Lin Ma Hang natural woodland, Lin Ma Hang Stream and its catchment are completely protected.

11.2 Environmental Friendly Design and Benefit

Environmental friendly design and benefit adopted in this EIA study are summarised below:

- The layout of the NENT Landfill Extension was chosen such that the void space of the landfill could be optimised without encroaching on the catchment of Lin Ma Hang
- A bentonite conductivity of 10^{-9} m/s was proposed for the liner system of the NENT Landfill Extension to protect the qualities of surface water and groundwater around the site.
- A comprehensive leachate collection, monitoring, interception and diversion system will be provided for the Landfill Extension
- A comprehensive surface water management system including erosion control, dry weather flow interceptor, sedimentation tank, etc. will be provided for the Landfill Extension.
- To compensate for the loss of existing trees on the Project site, 26.83 ha (43% of the site) will be planted with woodland mix progressively in phases. There will be about 148,100 trees planted. In addition, 19 ha of shrubland mix planting and 17.55 ha of grassland are proposed.

11.3 Key Environmental Problem Avoided

Potential ecological and water quality impacts on Lin Ma Hang Stream, Lin Ma Hang Lead Mines SSSI and Robin's Nest have been avoided by adopting a layout with no encroachment on these sensitive areas.

11.4 Environmental Protection Measures and Precautionary Measures

Precautionary measures and good site practices were recommended throughout the impact assessments of air quality, noise, water quality, waste management, landfill gas hazard, landscape and visual, and ecology. These measures were consolidated in an Implementation Schedule which specifies the responsibility, methodology and timing of implementation, such that effective and appropriate implementation of the measures can be assured.