

**Environmental Mitigation Implementation Schedule  
WENT Landfill Extension**

**Appendix C6 – Landscape and Visual Impact**

EIA Ref	EM&A Log Ref	Recommended Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of Recommended Measures & Main Concerns to Address	Who to Implement Measures?	Location of Measures	When to Implement Measures?	What Requirements or Standards for Measures to Achieve?
<b>Landscape and Visual Impact</b>							
S8.7	LV1	<p><b>Advanced screening tree planting (mitigation measures – MM1)</b></p> <ul style="list-style-type: none"> <li>• Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works.</li> <li>• Advanced woodland mix planting (5 ha) at existing WENT Landfill for advanced screening effect.</li> <li>• Roadside planter and shrub planting design in front of existing WENT Landfill or adjacent to the access road for the afteruses of the existing WENT Landfill and new Nim Wan Road.</li> <li>• Tree planting in standard tree size along the slope toe of WENT Landfill Extension.</li> </ul>	<p>To minimise the impact on existing vegetation retained by personnel in construction site</p> <p>To provide initiation on permanent landscape and visual mitigation measures</p>	<p>Project Proponent (for advanced planting at existing WENT Landfill),</p> <p>DBO Contractor</p>	<p>Entire construction site and existing WENT Landfill (for advanced planting)</p>	<p>Construction and Operation phases</p>	<p>ETWB TC(W) No. 3/2006 – Tree Preservation</p> <p>ETWB TC(W) No. 2/2004 - Maintenance of Vegetation and Hard Landscape Features</p> <p>WBTC No. 26/99 – Maintenance of Man-made Slopes and Emergency Repair on Stability of Land</p>
S8.7	LV2	<p><b>Boundary Green Belt planting (mitigation measures – MM2)</b></p> <ul style="list-style-type: none"> <li>• Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds would screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.</li> </ul>					
S8.7	LV3	<p><b>Temporary landscape treatment as green surface cover (mitigation measures – MM3)</b></p> <ul style="list-style-type: none"> <li>• For certain areas where landfilling operations would have to be suspended temporarily for a certain period of time, simple temporary landscape treatment such as temporary green colour slope cover should be considered. The period of temporary suspended operation should be sufficiently explicit in order to undertake appropriate temporary landscape treatment. During construction and operation phases, synthetic covering material of green colour should also be used as a temporary slope cover where applicable. Given the extensive area of the proposed extension, development of the site should be divided into phases to minimize the visual impact.</li> </ul>					
S8.7	LV4	<p><b>Existing tree preservation (mitigation measures – MM4)</b></p> <ul style="list-style-type: none"> <li>• No trees should be felled or transplanted unless they are inevitably affected by the Project. Affected trees should be transplanted under circumstances where technically feasible. A tree survey report should be prepared and a tree felling application should be submitted to government during the detailed design stage for approval before site formation works commence. The numbers, locations, species and sizes of the trees to be transplanted or felled should be clearly addressed.</li> </ul>					

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S8.7	LV5	<p><b>Sensible final contour grading (mitigation measures – MM5)</b></p> <ul style="list-style-type: none"> <li>The final landfill will provide a structurally stable and visually interesting landform, which is visually compatible with surrounding landscape and contoured to simulate adjacent undeveloped area. Introduction and continuation of natural features such as spurs, ridges and valleys will be considered where appropriate.</li> </ul>	To minimise the visual impact on landfill.	DBO Contractor	Entire construction site	Restoration and Aftercare phases	<p>ETWB TC(W) No. 3/2006 – Tree Preservation</p> <p>ETWB TC(W) No. 2/2004 - Maintenance of Vegetation and Hard Landscape Features</p>
S8.7	LV6	<p><b>Sufficient cover soil of landfill final capping (mitigation measures – MM6)</b></p> <ul style="list-style-type: none"> <li>Sufficient cover soil of landfill final capping will be placed above the low-permeable layer and drainage layer, so as to sustain the proposed planting. The cover soil layer should be a minimum of 500mm in thickness for grassland, a minimum of 700mm for shrubland and 1000mm for woodland. Immediately after the completion of localized earthworks for the cover soil layer, the soil surface should be stabilized and greened by grass hydroseeding prior to subsequent landscape planting.</li> </ul>	To provide site preparation for compensatory planting under the requirements of mitigation measures.	DBO Contractor	Entire construction site	Restoration and Aftercare phases	<p>WBTC No. 26/99 – Maintenance of Man-made Slopes and Emergency Repair on Stability of Land</p>
S8.7	LV7	<p><b>Landscape planting and maintenance (mitigation measures – MM7)</b></p> <ul style="list-style-type: none"> <li>Planting and maintenance to allow vegetation establishment to match the natural vegetation of the surroundings.</li> <li>Seedlings of native tree species will be planted in the second phase.</li> <li>Reprovision of mangroves in some suitable locations inside the project boundary for compensation.</li> <li>Planting layout to establish a coherent pattern of woodland, shrubland and grassland vegetation.</li> <li>To compensate for the loss of existing trees, 107,100 nos. of tree seedlings / whips planting at 1500mm spacing are proposed to be planted in 21.0 ha (including 5 ha of advanced planting as detailed in MM1). The number of compensated tree seedlings / whips can provide more than 1:1 compensation ratio in terms of actual loss to compensated aggregate trunk diameter, assuming tree seedlings/whips planting at 1.5m spacing in staggered pattern. For woodland mix planting, some portions of landfill slope area with gentle gradient would be applied "light standard trees" for better initial greening effect. Approximate 10% of quantity of woodland mix planting would be of light standard trees.</li> </ul>	To minimise the landscape and visual impact on the affected planting areas and provide permanent landscape planting under the mitigation measures	<p>Project Proponent (for advanced planting at existing WENT Landfill),</p> <p>DBO Contractor</p>	Entire construction site and existing WENT Landfill (for advanced planting)	Restoration and Aftercare phases	

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S8.7	LV8	<p><b>Woodland vegetation management (mitigation measures – MM8)</b></p> <ul style="list-style-type: none"> <li>• Thinning of pioneer trees to be carried out in the period of 5-8 years after the establishment period for each phase of works.</li> <li>• It includes the selective removal of pioneer trees to provide more light and space between trees that is beneficial for growth and natural regeneration of native trees in the woodland planting mix.</li> <li>• Proper maintenance and management for woodland planting is required to provide good quality of compensatory planting. During establishment period of the woodland planting, proper inspection of the death rate of each species in terms of quantity shall be provided and stated in Environmental Permit that forms part of DBO contract.</li> </ul>	To maintain the compensatory woodland planting effectively for mitigation measures.	DBO Contractor	Entire construction site	Restoration and Aftercare phases	