

APPENDIX C

**Environmental
Mitigation
Implementation
Schedule**

**Environmental Mitigation Implementation Schedule
NENT Landfill Extension**

EIA Ref.	Recommended Precautionary / Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
S3.8.1	<p>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.</p> <ul style="list-style-type: none"> Dust emission from construction vehicle movement is confined within the work sites area. Watering facilities will be provided at every designated vehicular exit point. Good site practice is recommended during construction phase. Covering with impermeable sheet should be provided for the inactive tipping area. 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	DBO Contractor	Entire NENT Landfill Extension site	Construction and Restoration phases	<ul style="list-style-type: none"> To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1-hr and 24hr TSP levels are $500 \mu\text{g}/\text{m}^3$ and $260 \mu\text{g}/\text{m}^3$ respectively)
S3.8.2	<p>The following measures shall be exercised for stack discharge from Ammonia Stripping Plant (ASP), Flare and LFG Power Generator:</p> <ul style="list-style-type: none"> The maximum allowable discharge limit and pollutant removal efficiency for ASP, flare and LFG power generator should be specified in the design specification. Owing to the requirement for the installation of stack, the design requirement shall be submitted to IEC and IC for vetting by the DBO Contractor. Subject to the subsequent EPD's requirement on chimney installation, once every 3 months regular stack monitoring of vinyl chloride, benzene, TOC, NOx and SO₂ shall be carried out to demonstrate compliance during the operations. A monthly monitoring report should be prepared by ET and submitted to IEC and IC for approval. 	<p>Minimize the release of harmful air pollutant to the atmosphere</p>	DBO Contractor	Flare, ASP and LFG Power Generator of NENT Extension	Operational and Restoration phases	<ul style="list-style-type: none"> TM-EIA, Annex 4

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S3.8.2	<p>The following measures shall be exercised for the VOC surface emission:</p> <ul style="list-style-type: none"> The arrangement of the landfill gas collection system and surface covering material for inactive tipping area shall be reviewed by DBO Contractor every 5 year to identify any modern technology/arrangement (covering material, LFG well spacing and locations). A working team shall be formulated to review all processes, control practice and extraction system in order to maximize the efficiency of the system. A review report should be prepared by the DBO Contractor for the submission to IC and IEC on the implementation/arrangement of LFG extraction system. The first review report should be submitted to IC and IEC for agreement before commencement. With a good system to collect LFG (high extraction efficiency), surface release of VOC to the nearby environment can be much reduced or utilised. Maintain a slightly negative pressure within the entire tipping area (by suction). Minimise any potential leakage of LFG to the surrounding by increase the number of gas-extraction wells. Improve the extraction efficiency by checking/reinstate gas wells with abnormally low extraction rate due to blockage/soil movement or sedimentation. Increase the coverage of inactive tipping area with HDPE/plastic sheet which can enhance the anaerobic decomposition (reduce air getting in and VOC leaking out). Detail sampling and measurement of VOCs in 3-monthly intervals should be conducted for more data to assess the landfill performance. 	Minimize the release of harmful VOC to the environment	DBO Contractor	Active, Inactive and Restored Tipping areas	Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> TM-EIA, Annex 4

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S3.8.2	<p>The following design options shall be considered in the future leachate treatment plants:</p> <ul style="list-style-type: none"> Adopted updated treatment method such as Sequencing Batch Reactor for future leachate treatment. Provision of ventilated cover for the leachate storage lagoons / tanks and emissions extracted to suitable odour removal filters with odour removal efficiency of 99%. Ferric nitrate or sodium hypochlorite can be added to oxidise the odorous chemical in the leachate. The pH value of leachate can be controlled to a suitable value from future on-site experiment such that the generation of any odorous H₂S and ammonia can be optimised. For the gaseous extraction system, the wind speed immediately above the leachate surface should be kept to minimal (in the order of 1E-3 m/s) such that the odour emission strength from lagoon can be minimised. Suitable treatment system should be provided for odour removal. The ventilated gaseous emission from lagoons should be provided with 5-10 air change per hour for further dilution before discharge. The notional centre of the future discharge point (e.g. stack) shall be located at a location with maximum setback distance from the ASRs and further away from the notional centre of the leachate storage lagoons / tanks. The location of discharge point and discharge height should be determined at the detailed design stage to ensure that the odour criterion at the ASRs will not be exceeded. The overall arrangement should be investigated in details by the DBO Contractor and agreed with IEC and EPD. 	<p>Environmental Enhancement to improve the air quality and visual impact to nearby sensitive receivers</p>	<p>EPD(WFG)/ DBO Contractor</p>	<p>Lagoons (Existing and Future leachate treatment plants)</p>	<p>Operational and Restoration phases</p>	<ul style="list-style-type: none"> Environmental Enhancement

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S3.8.2	<p>The following are some odour precautionary measures that shall be considered by EPD and FEHD:</p> <ul style="list-style-type: none"> • As an improvement measure to enhance to environmental standard for waste transfer, EPD could take the initiative to recommend others to use enclosed type RCV in the long run (dominantly government and sludge types). • Clearing / watering of the surface and clearing of the waste water receptor of government RCV is recommended before leaving refuse transfer station or government Refuse Collection Point (FEHD). 	<p>Environmental Enhancement to improve the odour impact during the transit of waste</p>	<p>EPD(WFG) and FEHD</p>	<p>Government RCV from RTS and RCP</p>	<p>Operational phase</p>	<ul style="list-style-type: none"> • Environmental Initiative
S3.8.2	<p>The Contract shall exercise adequate precautionary measures to minimize any potential odor nuisance from tipping activities:</p> <ul style="list-style-type: none"> • The use of alternative daily cover (less permeable layer) instead of inert material should be considered. • The use of immediate daily cover for odorous waste such as sewage sludge, animal waste etc. under critical condition should also be considered. • For the time being, there is no population in the derelict Tong To Shan Tsuen. If there is new resident moving into this derelict village, thicker daily cover / alternative daily cover should be applied at phase 3 of the extension site such that the emission strength can be reduced. Site walk should be conducted once every three months to the Tong To Shan Tsuen to verify whether there is new resident moving in during the operational stage. Once, there is any new resident, night time / early morning odour patrol at Tong To Shan Tsuen should be arranged to ensure the effectiveness of the measures. • During very hot and stable weather condition, thicker daily cover can be arranged in case odour patrol identify potential odour nuisance, • During stable and calm weather, tipping could be arranged to further increase the setback distance. 	<p>Minimize the potential odour impact for tipping area to nearby sensitive receivers</p>	<p>DBO Contractor</p>	<p>Tipping areas</p>	<p>Operational phase</p>	<ul style="list-style-type: none"> • TM-EIA, Annex 4 • Odour patrol with 2 Odour Intensity or below at ASR without causing potential odour nuisance

Notes :
Entire NENT Landfill Extension site includes Office, Waste Reception Area, Leachate Treatment Works, LFG Treatment Works, Active, Inactive and Restored Tipping Areas.

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Construction Noise							
S4	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	DBO Contractor	Entire construction site	Construction phase	<ul style="list-style-type: none"> Noise Control Ordinance
S4	N2	<p>2) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.</p>	Reduce the noise levels of plant items	DBO Contractor	Entire construction site	Construction phase	<ul style="list-style-type: none"> Noise Control Ordinance & its TM Annex 5, TM-EIA
Operational Noise							
S4	N3	<p>3) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.</p>	Reduce the noise levels of plant items	DBO Contractor	Entire construction site	Operational and Restoration phases	<ul style="list-style-type: none"> Noise Control Ordinance & its TM Annex 5, TM-EIA

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Construction Runoff							
S5.8.1	S5.2.1	<p><u>Construction Site Runoff</u></p> <ul style="list-style-type: none"> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows. All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, barging facility, wheel washing facilities, etc to minimize water quality during construction stage	DBO Contractor	Entire construction site	Construction phase	<ul style="list-style-type: none"> ProPECC PN 1/94 Water Pollution Control Ordinance

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Construction Runoff (Cont'd)							
S5.8.1	S5.2.1	<ul style="list-style-type: none"> Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing bay should be provided at every construction site exit. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, barging facility, wheel washing facilities, etc to minimize water quality during construction stage	DBO Contractor	Entire construction site	Construction phase	<ul style="list-style-type: none"> ProPECC PN 1/94 Water Pollution Control Ordinance

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Construction Runoff (Cont'd)							
S5.8.1	S5.2.1	<ul style="list-style-type: none"> Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 9 of this Report. All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, barging facility, wheel washing facilities, etc to minimize water quality during construction stage	DBO Contractor	Entire construction site	Construction phase	<ul style="list-style-type: none"> ProPECC PN 1/94 Water Pollution Control Ordinance
S5.8.1	S5.2.1	<p><u>Sewage Effluent from Workforce</u></p> <ul style="list-style-type: none"> Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site. 	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	DBO Contractor	On-site sanitary facilities	Construction phase	<ul style="list-style-type: none"> ProPECC PN 1/94 Water Pollution Control Ordinance Waste Disposal Ordinance
S5.8.1	S5.2.1	<p><u>Accidental Spillage of Chemical</u></p> <p>Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas.</p>	Control of chemical leakage	DBO Contractor	Service workshop and maintenance facilities	Construction phase	<ul style="list-style-type: none"> ProPECC PN 1/94 Water Pollution Control Ordinance Waste Disposal Ordinance
Operational Water Quality							
S5.8.2	S5.2.2	<ul style="list-style-type: none"> Formulate contingency Plan on Accidental Leakage of Leachate Design Contingency Plan for Groundwater Contamination Design Contingency Plan for Surface Water Contamination 	Control contamination to surface and ground water	DBO Contractor	Drainage system	Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> TM-water Water Pollution Control Ordinance

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S5.8.2	S5.2.2	Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.	Control contamination to surface and ground water	DBO Contractor	Drainage system	Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> • TM-water • Water Pollution Control Ordinance
S5.8.2	S5.2.2	Monitoring of the surface water discharges and groundwater discharge under the environmental monitoring programme.	Control run off and underground water leakage	DBO Contractor	Surface and underground water system	Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> • Water Pollution Control Ordinance • TM-water
Erosion Control Measures							
S5.8.2	S5.2.2	<p><u>Erosion Control Measures</u></p> <p>a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible during the construction process, and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control.</p> <p>b. Provision of Buffer Zone A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.</p> <p>c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.</p> <p>d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.</p>	Erosion control	DBO Contractor	Drainage system	Construction, Restoration and Aftercare phases	<ul style="list-style-type: none"> • ProPECC PN 1/94 • Water Pollution Control Ordinance

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S5.8.2	S5.2.2	<p>e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.</p> <p>f. Sod Establishes permanent turf for immediate erosion protection and stabilizes rainageways.</p> <p>g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.</p> <p>h. Plastic Sheeting Plastic Sheeting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.</p> <p>i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.</p>	Erosion control	DBO Contractor	Drainage system	Construction, Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> • ProPECC PN 1/94 • Water Pollution Control Ordinance

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Surface Water Drainage System							
S5.8.2	S5.2.2	<p>Temporary surface water drainage system will be provided to manage runoff during construction and operation. This system will consist of channels as constructed around the perimeter of the site area. This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. Erosion will therefore be minimised.</p> <p>The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence.</p> <p>Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system.</p> <p>In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment.</p>	Surface Water Management / Control run off	DBO Contractor	Surface water system	Construction, Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> • Water Pollution Control Ordinance • TM-water

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Groundwater Regime							
S5.8.2	S5.2.2	<p>1) Adopt precautionary / mitigation measures:</p> <ul style="list-style-type: none"> • Provision of adequate water supply for irrigation purposes for the operational lifetime of the landfill extension, i.e. 10 to 12 years; • Installation of a network of monitoring stations to keep track of the stream flow volumes. Should monitoring of stream flow indicate insufficient quantities to provide sufficient water for irrigation downstream, a contractual requirement for the landfill operator to "tank in" water from an external source could be imposed. This is the system currently in place for the existing NENT Landfill; • Diversion of flow from other catchments. The surface runoff generated in the catchments with abandoned agricultural lands could be collected and conveyed to the active agricultural lands; • Formation of new extraction wells that extend deeper down within the aquifer; • Provision of Piped Water Supply; and • Artificial recharge by surface spreading, spray irrigation or pumping water directly into the ground via vertical shafts. 	Control and maintain ground water yield	DBO Contractor	Entire construction site and villages around the site	Operational, Restoration and Aftercare phases	<ul style="list-style-type: none"> • TM-EIAO, Annexes 6 and 14 • HKPSG

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<i>Waste Management</i>							
S 6	WM1	<p><u>C&D Materials</u></p> <p>Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites.</p> <p>Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with ETWB TC(W) No.31/2004. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes.</p> <p>Appropriate waste management should be implemented in accordance with the ETWB TC(W) No 19/2005.</p> <p>Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused.</p> <p>Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse.</p> <p>The DBO Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. Proper areas should be designated for waste segregation and storage wherever site conditions permit. Maximise the use of reusable steel formwork to reduce the amount of C&D material.</p> <p>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. The sorted public fill and C&D waste should be properly reused.</p>	<p>Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible</p>	<p>DBO Contractor</p>	<p>Entire construction site</p>	<p>Construction phase</p>	<p>Waste Disposal Ordinance ETWB TC(W) No.19/2005 ETWB TC(W) No.31/2004 ETWB TC(W) No.19/2005</p>

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S 6	WM1	<p><u>C&D Materials (Cont'd)</u></p> <p>Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</p> <p>If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion.</p> <p>Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal.</p> <p>Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.</p> <p>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</p> <p>Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials.</p> <p>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering.</p>	<p>Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible</p>	<p>DBO Contractor</p>	<p>Entire construction site</p>	<p>Construction phase</p>	<p>Waste Disposal Ordinance ETWB TC(W) No.19/2005 ETWB TC(W) No.31/2004 ETWB TC(W) No.19/2005</p>
S6	WM2	<p><u>Chemical Waste</u></p> <p>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</p> <p>Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be recycled by licensed treatment facilities</p>	<p>Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment</p>	<p>DBO Contractor</p>	<p>Entire construction site</p>	<p>Construction, Operation, Restoration and Aftercare phases</p>	<p>Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</p>

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S 6	WM2	<p><u>Chemical Waste (Cont'd)</u></p> <p>Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulation.</p> <p>The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated.</p> <p>Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.</p>	<p>Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment</p>	<p>DBO Contractor</p>	<p>Entire construction site</p>	<p>Construction, Operation, Restoration and Aftercare phases</p>	<p>Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</p>
S 6	WM3	<p><u>General Refuse</u></p> <p>General refuse generated on-site should be properly stored in enclosed bins or compaction units separately from construction and chemical wastes.</p> <p>All recyclable materials (separated from the general waste) should be stored on-site in appropriate containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-recyclable, general waste should be stored in appropriate containers to avoid odour. Regular collection should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental impacts during transportation</p> <p>Reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</p> <p>Aluminum cans should be separated from general waste stream and collected by recyclers. Proper collection bins should be provided on-site to facilitate the waste sorting.</p>	<p>Minimise generation of general refuse to avoid odour, pest and visual nuisance</p>	<p>DBO Contractor</p>	<p>Entire construction site</p>	<p>Construction, Operation, Restoration and Aftercare phases</p>	<p>Waste Disposal Ordinance</p>

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S 6	WM3	<u>General Refuse (Cont'd)</u> Office waste paper should be recycled if the volume warrant collection by recyclers. Participation in community waste paper recycling programme should be considered by the DBO Contractor, including waste paper, aluminum cans, plastic bottles, waste batteries, etc.	Minimise generation of general refuse to avoid odour, pest and visual nuisance	DBO Contractor	Entire construction site	Construction, Operation, Restoration and Aftercare phases	Waste Disposal Ordinance
S6	WM4	<u>Sludge from Leachate Treatment Works</u> Sludge should be collected by a licensed collector at regular intervals, to suit the operation schedule of the leachate treatment plant. The use of purpose-built sludge tankers can minimise the potential of environmental impacts during transportation.	Proper management of sludge arising from leachate treatment works to minimise the associated hazards on human health and environment	DBO Contractor	Leachate Treatment Works	Construction, Operation, Restoration and Aftercare phases	Waste Disposal Ordinance

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LFG							
Within NENT Landfill Extension							
S7	LFG1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	DBO Contractor	Entire NENT Landfill Extension site	Construction phases	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&LU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces
S7	LFG2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.					
S7	LFG3	No smoking or burning should be permitted on-site.					
S7	LFG4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					
S7	LFG5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					
S7	LFG6	Adequate fire fighting equipment should be provided on-site.					
S7	LFG7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					
S7	LFG8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					
S7	LFG9	'Permit to Work' system should be implemented.					
S7	LFG10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					
S7	LFG11	For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. Forced ventilation is required prior to operation of installed pipeline. Forced ventilation should also be required for works inside trenches deeper than 1m.					

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Within NENT Landfill Extension (Cont'd)							
S7	LFG12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.	To minimise the risk of LFG hazards to personnel in construction site	DBO Contractor	Entire NENT Landfill Extension site	Construction phases	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&I (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces
S7	LFG13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.					
S7	LFG14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.					
S7	LFG15	LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					
S7	LFG16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection equipment and LFG-related hazards should be present on-site throughout the groundwork phase. The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: <ul style="list-style-type: none"> • CH₄: 0-100% LEL and 0-100%/v • CO₂: 0-100% • O₂: 0-21% 					
S7	LFG17	Periodically during groundwork construction, the works area should be monitored for CH ₄ , CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. Routine monitoring should be carried out in all excavations, manholes, chambers and any other confined spaces that may have been created by temporary storage of building materials on-site. All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.					

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Within NENT Landfill Extension (Cont'd)							
S7	LFG18	For excavations deeper than 1m, measurements should be conducted: <ul style="list-style-type: none"> At ground surface before excavation commences; Immediately before any worker enters the excavation; At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation. 	To minimise the risk of LFG hazards to personnel in construction site	DBO Contractor	Entire NENT Landfill Extension site	Construction phases	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces
S7	LFG19	For excavations between 300mm and 1m, measurements should be conducted: <ul style="list-style-type: none"> Directly after excavation has been completed; and Periodically whilst excavation remains open. 					
S7	LFG20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					
S7	LFG21	Where any service voids, manholes and inspection chambers within landfill extension site are entered for maintenance and LFG monitoring, all safety requirements should be followed.					
S7	LFG22	Buildings onsite should be incorporated with passive system relying on natural air movement to prevent gas build-up and active system requiring energy input to mechanically move air to protect against LFG build-up. Design measures for sub-surface building services should include generic measures e.g. gas barriers, gas vents and strategic routing of any service utilities away from potential LFG migration pathways.	To minimise the risk of LFG hazards to personnel in landfill site	DBO Contractor	Entire NENT Landfill Extension site	Operation, Restoration and Aftercare phases	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces
S7	LFG23	Any new-built permanent building structures within the landfill extension site, forced ventilation and gas detection system with audible alarm should be installed. When the internal atmosphere is detected with >10% of CH ₄ , forced ventilation should be triggered automatically. No person should be allowed to enter or remain in any confined areas when CO ₂ levels >1.5%/v or O ₂ levels <18%/v were detected. Access to confined spaces in the landfill extension site should be controlled to only authorised persons.					
S7	LFG24	Specific gas protection measures which can be applied to building services have been in Appendix 7.1 of EIA Report. They generally include gas barriers, gas vents, location of service entries above ground, and service conduits passing through Consultation Zone.					

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Landscape and Visual Impact							
Construction and Operation Phases							
S8	LV1	<p>Advanced screening tree planting</p> <ul style="list-style-type: none"> 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. Roadside planter and shrub planting design in front of Cheung Sha Temple. 	<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>	DBO Contractor	Entire construction site	Construction and Operation 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> <p>WBTC No. 26/99 – Maintenance of Man-made Slopes and Emergency Repair on Stability of Land</p>
S8	LV2	<p>Boundary Green Belt planting</p> <ul style="list-style-type: none"> Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used. 					
S8	LV3	<p>Temporary landscape treatment as green surface cover</p> <ul style="list-style-type: none"> For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple temporary landscape treatment such as hydroseeding should be considered. During construction and operational phases, grass hydroseeding or synthetic covering material of green colour should also be used as a temporary slope cover if applicable. 					
S8	LV4	<p>Existing tree preservation</p> <ul style="list-style-type: none"> Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact Assessment and as rare tree species recorded in the tree survey, under circumstances where technically feasible. For all affected trees, the principle of avoidance of tree felling and tree transplanting of tree before felling should apply whenever possible. A tree felling application should be submitted to DLO and be approved before any trees are felled or transplanted. 					

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Restoration and Aftercare Phases							
S8	LV5	<p>Sensible final contour grading</p> <ul style="list-style-type: none"> 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. 	To minimise the visual impact on landfill.	DBO Contractor	Entire construction site	Restoration and Aftercare phases	ETWB TC(W) No. 3/2006 – Tree Preservation ETWB TC(W) No. 2/2004 - Maintenance of Vegetation and Hard Landscape Features
S8	LV6	<p>Sufficient cover soil of landfill final capping</p> <ul style="list-style-type: none"> 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 hydro-seeding prior to subsequent landscape planting. 	To provide site preparation for compensatory planting under the requirements of mitigation measures.	DBO Contractor	Entire construction site	Restoration and Aftercare phases	WBTC No. 26/99 – Maintenance of Man-made Slopes and Emergency Repair on Stability of Land
S8	LV7	<p>Landscape planting and maintenance</p> <ul style="list-style-type: none"> Planting and maintenance to allow vegetation establishment to match the natural vegetation of the surroundings. Planting layout to establish a coherent pattern of woodland, shrubland and grassland vegetation. To compensate for the loss of existing trees, 26.83 ha (43% of the waste boundary) will be planted with woodland mix progressively in phases. Assuming tree seedlings/whips planting at 1.5m spacing in staggered pattern, there will be about 148,100 nos. of tree seedlings/ whipsplanted. In addition, 19 ha of shrubland mix planting and 17.55 ha of grassland are proposed. 	To minimise the landscape and visual impact on the affected planting areas and provide permanent landscape planting under the mitigation measures	DBO Contractor	Entire construction site	Restoration and Aftercare phases	

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Landscape and Visual Impact							
Construction and Operation Phases							
S9	CH1	Preservation by Detailed Record for relevant sections of BP1 (Relevant sections to be determined by survey)	To provide detailed recording and creation of archival records of the cultural heritage resources before they are demolished;	DBO Contractor (must engage a qualified person to undertake the preservation by record)	Entire NENT Landfill Extension Site	Prior to the Construction Phase (AMO approval of Mitigation Measures obtained prior to the removal of the graves)	The preservation by Detailed Record must fulfill the following AMO requirements; Requirements for Recording of Grave Inscriptions; Requirements for Cartographic Survey of Historic Graves; Requirements for Photographic survey of Historic Graves Requirements for Cartographic Survey of Section of Boulder Paths to be directly Impacted by the Project Requirements of Photographic Survey of Section of Boulder paths to be Directly Impacted by the Project
S9	CH2	Preservation by Detailed Record for Graves; G2, G4, G5, G6, G7, G8, G14, G15, G25, G26, G27, G29 and G30					
S9	CH3	Preservation by Detailed Record for relevant sections of BP2 (Relevant section to be determined by survey)					

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Ecology							
General Protection Measures:							
S10	E1	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	DBO Contractor	Entire construction site	Construction Phase	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94) Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes, EPD (1992) ETWB TC(W) No. 33/2002 Management of Construction and Demolition Material Including Rock ETWB TC(W) No.31/2004 Trip Ticket System for Disposal of Construction and Demolition Materials ETWB TC(W) No. 15/2003 Waste Management on Construction Sites
S10	E2	Resinstatement of the work areas immediately after completion of the works.					
S10	E3	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.					
S10	E4	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.					
S10	E5	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.					
S10	E6	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.					
S10	E7	Mobile plant should be sited as far away from NSRs as possible and practicable.					
S10	E8	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					
S10	E9	Use of "quiet" plant and working methods.					
S10	E10	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.					

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General Protection Measures (Cont'd) :							
S10	E11	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	DBO Contractor	Entire construction site	Construction Phase	WBTC No. 12/2002, Specifications Facilitating the Use of Recycled Aggregates WBTC Nos. 25/99, 25/99A and 25/99C. Information on Construction and Demolition Material Management in Public Works Subcommittee Papers
S10	E12	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of repositied silt and grit.					
S10	E13	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control of silty surface runoff during storm events, especially for areas located near steep slopes.					
S10	E14	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.					
S10	E15	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources.					
Specific Mitigation Measures:							
S10	E17	Survey and transplantation of the four plant species of conservation interest before site clearance, including <i>Aquilaria sinensis</i> , <i>Rhododendron simsii</i> , <i>Endospermum chinense</i> , and <i>Arundina graminifolia</i> .	To minimise loss of plant species of conservation interest	DBO Contractor	Within and near construction site	Before commencement of construction phase	N/A
S10	E18	10-year ecological monitoring of compensatory woodland planting during the restoration and after-care phases	To mitigate loss of woodland habitats	DBO Contractor	Entire construction site	Restoration and Aftercare phase	N/A