

## APPENDIX 1.1 IMPLEMENTATION SCHEDULE

**Table 1 Air Quality – Implementation Schedule of Recommended Mitigation Measures**

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures / Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.3.5.1	S.4.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented.	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	Typical dust control measures include: <ul style="list-style-type: none"> <li>Restricting heights from which materials are dropped, as far as practicable to minimise the fugitive dust arising from unloading / loading.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>All stockpiles of excavated materials or spoil of more than 50 m<sup>3</sup> should be enclosed, covered or dampened during dry or windy conditions.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Effective water sprays should be used to control potential dust emission sources such as unpaved haul roads and active construction areas.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>All spraying of materials and surfaces should avoid excessive water usage.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Vehicles that have the potential to create dust while transporting materials should be covered, with the cover properly secured and extended over the edges of the side and tail boards.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation

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S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Materials should be dampened, if necessary, before transportation.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension from the operating haul trucks.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Vehicle washing facilities will be provided to minimise the quantity of material deposited on public roads.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation
S.3.5.1	S.4.2.2	<ul style="list-style-type: none"> <li>Erection of hoarding not less than 2.4m high from ground level along the site boundary.</li> </ul>	Air Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	EIAO-TM, Air Pollution Control (Construction Dust) Regulation

**Table 2 Noise – Implementation Schedule of Recommended Mitigation Measures**

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
-	S.5.9.2	Use of silenced plant, or plant equipped with mufflers or dampers in substitute of ordinary plant.	Noise During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Annex 5 of EIAO-TM
-	S.5.9.2	Movable noise barriers positioned as close as possible to PMEs such that none of the PMEs will be visible when viewed from any noise sensitive façades.	Noise During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Annex 5 of EIAO-TM
S.4.5.7	S.5.9.2	Adopt good working practices in order to minimise construction noise as far as possible: <ul style="list-style-type: none"> <li>Noisy equipment and noisy activities should be located as far away from the NSRs as is practical.</li> </ul>	Noise control during construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Annex 5 of EIAO-TM
S.4.5.7	S.5.9.2	<ul style="list-style-type: none"> <li>Unused equipment should be turned off.</li> </ul>	Noise control during construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Annex 5 of EIAO-TM
S.4.5.7	S.5.9.2	<ul style="list-style-type: none"> <li>Number of powered mechanical equipment (PME) should be kept to minimum and the parallel use of noisy equipment / machinery should be avoided.</li> </ul>	Noise control during construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Annex 5 of EIAO-TM
S.4.5.7	S.5.9.2	<ul style="list-style-type: none"> <li>Regular maintenance of all plant and equipment.</li> </ul>	Noise control during construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Annex 5 of EIAO-TM
S.4.5.7	S.5.9.2	<ul style="list-style-type: none"> <li>Observe and comply with the statutory requirements and guidelines.</li> </ul>	Noise control during construction	Contractors	At all construction work sites, throughout the whole duration of the	Annex 5 of EIAO-TM

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
					construction period	
S.4.6.33	-	<ul style="list-style-type: none"> <li>Use of quieter helicopter type EC155 B1 in priority.</li> </ul>	Noise control during operation	GFS	At all time during operations	-
S.4.6.34	-	<ul style="list-style-type: none"> <li>Reduce the angle of the helicopter flight path from the standard 150 degrees to 80 degrees for the 'EC155 B1' and to 70 degrees for the 'Super Puma AS332 L2' helicopter</li> </ul>	Noise control during operation	GFS	At all time during operations	-
S.1.2.3	-	<ul style="list-style-type: none"> <li>The helipad will be solely for emergency use.</li> </ul>	Noise control during operation	GFS/HAD	At all time during operations	-

**Table 3 Waste Management – Implementation Schedule of Recommended Mitigation Measures**

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.5.8.1	S.6.1.2	Ensure that proper handling, storage, transportation and disposal of materials is implemented at the outset and throughout the construction phase of the helipad.	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Annex 7 of EIAO-TM
S.5.8.1	S.6.2.2	In line with Government's position on waste minimization, the practice of avoiding and minimizing waste generation and waste recycling should be adopted as far as practicable.	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Annex 7 of EIAO-TM
S.5.8.2	-	Recommended mitigation measures to be implemented include: <ul style="list-style-type: none"> <li>An on-site environmental co-ordinator should be identified at the outset of the works. The co-ordinator shall prepare a Waste Management Plan.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Environmental, Transport and Works Bureau Technical Circular (ETWBTC) No. 15/2003
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>Spoil generated from the piling activities will need to be properly handled to minimize contamination to the marine water and any exposed ground areas due to leakage or improper storage (i.e. onto bare ground instead of into tanks).</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Environment, Transport and Works Bureau Technical Circular (Works) (ETWBTCW) No. 34/2002
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>The reuse/recycling of all materials on site shall be investigated prior to treatment/disposal off site.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ETWBTCW No. 33/2002, ETWBTC No. 15/2003
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>Good site practices shall be adopted from the commencement of works to avoid the generation of waste and to promote waste minimization practices.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ETWBTCW No. 33/2002

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>All waste materials shall be sorted on site into inert and non-inert C&amp;D materials, and where the materials will be recycled or reused, these shall be further segregated. The Contractor shall be responsible for identifying which materials can be recycled/reused, whether on site or off site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the refuse transfer station whilst any non-inert C&amp;D material shall be re-used on site as far as possible. If no use of the material can be found on site, the inert C&amp;D material can be delivered to a public filling area, public barging point or public stockpile area after obtaining the appropriate licence.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ETWBTCW No. 33/2002, ETWBTCW No. 34/2002
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>A trip ticket system should be established at the outset of the construction of the helipad to monitor the disposal of C&amp;D and solid wastes from the site to public filling facilities and landfills.</li> </ul>	Monitor the disposal of C&D and solid wastes from the site	Contractors	At the outset of the construction of the helipad	ETWBTC (W) No.31/2004
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>The Contractor shall register with EPD as a Chemical Waste Producer if there is any use of chemicals on site including lubricants, paints, diesel fuel, etc. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the relevant guidelines as published by Government.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Guide to the Chemical Waste Control Scheme
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to sensitive receivers. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ETWBTCW No. 6/2002A, ETWBTC No. 15/2003

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
		issue of Environment, Transport and Works Bureau Technical Circular (Works) No. 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the Project works.				
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>All chemical toilets shall be regularly cleaned and the nightsoil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal.</li> </ul>	Waste Management During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ETWBTCW No. 6/2002A, ETWBTC No. 15/2003
S.5.8.2	S.6.2.2	<ul style="list-style-type: none"> <li>Tool box talks shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	Waste Management During Construction	Contractors	Throughout construction period	ETWBTCW No. 15/2003
S.5.8.3	S.6.2.3	Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions.	Waste Management During Construction	Contractors	Throughout construction period	EIAO - TM
S.2.2.33	-	The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.	Construction method	Contractors	At all construction work sites, throughout construction period	-
S.5.6.30	-	The helipad will only be used for emergency purposes. No equipment will be placed on the landing pad or along the EVA. Helicopters will not be parked at the landing pad and all repair and maintenance works (on the helicopters) will be conducted off site. As such the only source of waste generation during the operation of the helipad is anticipated to be from the long-term maintenance of the pad.	Operation	GFS/HAD	At all time during operations	-

**Table 4 Water Quality – Implementation Schedule of Recommended Mitigation Measures**

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.6.7.2	S.7.2.3	Silt curtain to be installed surrounding the whole of the piling site.	Water Quality During Construction	Contractors	Around the whole works area , prior to commencement of the piling works.	Water Pollution Control Ordinance (Cap. 358), Water Quality Objectives for Southern WCZ if direct discharge to sea is adopted.
S.6.7.3	S.7.2.4	The following good site practices are recommended: <ul style="list-style-type: none"> <li>The holding tank should be fitted with a tight fitting seal to prevent sediment leakage.</li> </ul>	Water Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period.	Not applicable (good practice only)
S.6.7.3	S.7.2.4	<ul style="list-style-type: none"> <li>Ensure that excavator grab seal is tightly closed and the hoist speed is suitably low.</li> </ul>	Water Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Not applicable (good practice only)
S.6.7.3	S.7.2.4	<ul style="list-style-type: none"> <li>The holding tank should not be filled to a level which will cause overflow of sediment during loading and transportation.</li> </ul>	Water Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Not applicable (good practice only)
S.6.7.3	S.7.2.4	<ul style="list-style-type: none"> <li>Large objects should be removed from the excavator grab to avoid sediment spills.</li> </ul>	Water Quality During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	Not applicable (good practice only)
S.2.2.33	-	<ul style="list-style-type: none"> <li>The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.</li> </ul>	Construction method	Contractors	At all construction work sites, throughout construction period	-



**Table 5 Ecology – Implementation Schedule of Recommended Mitigation Measures**

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.7.6.1	S.8.2.3	Sub-tidal Ecology Silt curtain to be installed surrounding the whole of the piling site.	Ecology During Construction	Contractors	Around the whole works area prior to commencement of the piling works.	Animals & Plants Ordinance (Protection of Endangered Species) (Cap. 187)
S.7.6.2	S.8.2.4	Good practice measures to control water quality-induced ecological impacts: <ul style="list-style-type: none"> <li>Particular care should be taken when demolishing the existing concrete planter to ensure no waste enters the water column.</li> </ul>	Ecology During Construction	Contractors	At the existing concrete planter, throughout the whole duration of the construction period.	Not applicable (good practice only)
S.7.6.2	S.8.2.4	<ul style="list-style-type: none"> <li>Particular care should be taken when decommissioning the silt curtain to avoid sudden dispersion of muddy water which may cause adverse impact to the nearby marine life;</li> </ul>	Ecology During Construction	Contractors	Along the western side of the Project boundary, on the completion of piling.	Not applicable (good practice only)
S.7.6.2	S.8.2.4	<ul style="list-style-type: none"> <li>Materials storage areas should be located well away from the seawall, and any such areas should be covered during the works.</li> </ul>	Ecology During Construction	Contractors	At all construction work sites, throughout the whole duration of the construction period	ProPECC Note PN 1/94 on <i>Construction Site Drainage</i>
S.7.6.2	S.7.2.4	<ul style="list-style-type: none"> <li>The holding tank for sediment excavated from within the pile casing should be fitted with a tight fitting seal to prevent leakage.</li> </ul>	Ecology During Construction	Contractors	At the piling areas, throughout the whole duration of the piling period	Not applicable (good practice only)
S.7.6.2	S.7.2.4	<ul style="list-style-type: none"> <li>Ensure that excavator seal is tightly closed and the hoist speed is suitably low.</li> </ul>	Ecology During Construction	Contractors	At the marine areas, throughout the whole duration of the construction period	Not applicable (good practice only)

EIA Ref.	EM&A Ref.	Recommended mitigation measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location / Timing of implementation of Measures	What requirements or standards for the measures to achieve?
S.7.6.2	S.7.2.4	<ul style="list-style-type: none"> <li>The holding tank should not be filled to a level that will cause overflow of sediment during loading and transportation.</li> </ul>	Ecology During Construction	Contractors	At the marine areas, throughout the whole duration of the construction period	Not applicable (good practice only)
S.7.6.2	S.7.2.4	<ul style="list-style-type: none"> <li>Large objects should be removed from the excavator grab to avoid sediment spills.</li> </ul>	Ecology During Construction	Contractors	At all construction work areas, throughout the whole duration of the construction period	Not applicable (good practice only)
S.2.2.33	-	<ul style="list-style-type: none"> <li>The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.</li> </ul>	Construction method	Contractors	At all construction work sites, throughout construction period	-