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17 ENVIRONMENTAL MONITORING AND AUDIT MEASURES

17.1 INTRODUCTION

This EIA Study has focused on the assessment and mitigation of the potential impacts associated with the construction and operation of the Project. One of the key outputs has been the identification of mitigation measures to be undertaken in order to ensure that residual impacts comply with regulatory requirements plus the requirements of the *EIAO TM*. To ensure effective and timely implementation of the mitigation measures, it is considered necessary to develop Environmental Monitoring and Audit (EM&A) procedures and mechanisms by which the Implementation Schedule (*Annex 17*) may be tracked and its effectiveness assessed.

17.1.1 *Implementation of EIA Findings and Recommendations*

Sections 4 to 14 have, where appropriate, identified and recommended the implementation of mitigation measures to reduce the potential construction and operational impacts of the Project. These findings and recommendations form the primary deliverable from the whole EIA process. Once endorsed by the EPD, they will form an agreement between CAPCO and the Government as to the measures and standards that are to be achieved. It is therefore essential that mechanisms are put in place to ensure that the mitigation measures prescribed in the Implementation Schedule are fully and effectively implemented during construction.

The required format for the Implementation Schedule (*Annex 17*) is specified in the EIA Study Brief. The format requires the specification of implementation agent(s), timing, duration and location for each of the recommended mitigation measures. Apart from the mitigation measures identified in the EIA, there are also procedures for other requirements to be included within the finalised Implementation Schedule. Prior to the issue of an Environmental Permit, there is an EIA Determination Period. During this period the EIA Report is reviewed and commented upon by both the public and professional bodies. Where recommendations are made and accepted by either the Advisory Council on the Environment (ACE) or its EIA subcommittee, these measures will be included within the Implementation Schedule, where appropriate.

17.1.2 *Statutory Requirements*

As the Project constitutes a Designated Project under the *EIAO*, an Environmental Permit must be obtained before construction or operation of the LNG terminal and associated facilities.

Upon approval of the EIA Report, CAPCO can apply for an Environmental Permit. If the application is successful, the Environmental Permit may, have conditions attached to it, which must be complied with. In addition, CAPCO and its appointed Contractor(s) must also comply with other controlling environmental legislation and guidelines, which are discussed within the specific technical chapters of this report.

17.2

ENVIRONMENTAL MANAGEMENT PLAN

CAPCO's construction Contractors will be contractually bound to produce and implement an Environmental Management Plan (EMP). EMP's are similar in nature to safety or quality plans and provide details of the means by which the Contractor (and all subcontractors working for the Contractor) will implement the recommended mitigation measures and achieve the environmental performance standards defined both in Hong Kong environmental legislation and in the Implementation Schedule. The primary reason for making the EMP a contractual requirement is to ensure that the Contractor is fully aware of his environmental responsibilities and to ensure his commitment to achieving the specified standards.

To evaluate a contractor's commitment, each contract bidder shall be required to produce a preliminary EMP as part of the tendering process. The skeletal EMP will indicate the determination and commitment of the contractor and indicate how the contractor intends to meet the environmental performance requirements laid out in the EIA. Upon Contract Award, the successful bidder(s) will be required to submit a draft and final version of the EMP for approval by CAPCO prior to the commencement of the work.

17.3

EM&A MANUAL

The EPD requires the submittal for approval of an EM&A Manual prior to the commencement of construction. The EM&A Manual defines the mechanisms for implementing the EM&A requirements specific to each phase of the work. The EM&A Manual provides a description of the organisational arrangements and resources required for the EM&A programme based on the conclusions and recommendations of this EIA. The EM&A Manual stipulates details of the construction monitoring required and actions that shall be taken in the event of exceedances of the environmental criteria. In effect, the EM&A Manual forms a handbook for the on-going environmental management during construction.

The EM&A Manual comprises descriptions of the key elements of the EM&A programme including:

- Appropriate background information on the construction of the Project with reference to relevant technical reports;

- Organisational arrangements, hierarchy and responsibilities with regard to the management of environmental performance during the construction phase. The EM&A team, the Contractor(s) team and the CAPCO's representatives are included;
- A broad construction programme indicating those activities for which specific mitigation is required and providing a schedule for their timely implementation;
- Descriptions of the parameters to be monitored and criteria through which performance will be assessed including: monitoring frequency and methodology, monitoring locations (typically, the location of sensitive receivers as listed in the EIA), monitoring equipment lists, event contingency plans for exceedances of established criteria and schedule of mitigation and best practice methods for reduced adverse environmental impacts;
- Procedures for undertaking on-site environmental performance audits as a means of ensuring compliance with environmental criteria; and
- Reporting procedures.

The EM&A Manual will be a dynamic document which will undergo a series of revisions, as needed, to accommodate the progression of the construction programme.

17.3.1 Objectives of EM&A

The objectives of carrying out EM&A for the Project include:

- Providing baseline information against which any short or long term environmental impacts of the projects can be determined;
- Providing an early indication should any of the environmental control measures or practices fail to achieve the acceptable standards;
- Monitoring the performance of the Project and the effectiveness of mitigation measures;
- Verifying the environmental impacts identified in the EIA ;
- Determining Project compliance with regulatory requirements, standards and government policies;
- Taking remedial action if unexpected results or unacceptable impacts arise; and
- Providing data to enable an environmental audit to be undertaken at regular intervals.

The following sections summarise the recommended EM&A requirements and further details are provided in the EM&A Manual.

17.4 AIR QUALITY

The EIA study concluded that no air sensitive receivers will be affected by construction dust through the implementation of mitigation measures to reduce dust levels. During the operational phase, emissions will be controlled by integrated measures, regular inspections, and relevant emissions licenses. Emissions from construction or operation phase are not predicted to yield concentrations that would lead to significant air quality impacts. However, dust monitoring is recommended at the Administration Building of the existing Black Point Power Station during site formation period as a counter check to this assessment but no operational air quality monitoring is required.

Regular site inspections will also be carried out during the construction phase in order to ensure that the mitigation measures are implemented and are working effectively.

17.5 NOISE

The EIA study of the Project concluded that no sensitive receivers will be affected by construction noise. Based upon this, no noise monitoring is necessary during the construction phase. However, audit of the construction noise is planned. Regular site inspections will be carried out to audit the compliance of the Contractor with regard to noise control, contract conditions, and to recommend further mitigation measures if found to be necessary.

No operational phase noise impacts were predicted at sensitive receiver locations and hence no operational phase monitoring is required.

Regular site inspections will be carried out during the construction phase in order to ensure conformity with the regulatory requirements.

17.6 WATER QUALITY

17.6.1 Construction Phase

The EIA indicated that water quality monitoring will be required during the construction phase for the following activities:

- Dredging works for the seawall construction and backfilling works at the reclamation area at Black Point; and,
- Dredging works for the approach channel and turning basin.

Water quality monitoring results will be compared to Action and Limit levels

to determine whether impacts associated with the works are acceptable. An Event and Action Plan provides procedures to be undertaken when monitoring results exceed Action or Limit levels. The procedures are designed to ensure that if any significant exceedances occur (either accidentally or through inadequate implementation of mitigation measures on the part of the Contractor(s)), the cause is quickly identified and remedied, and that the risk of a similar event re-occurring is reduced.

Action and Limit levels will be used to determine whether modifications to the operations are required. Action and Limit levels are environmental quality standards chosen such that their exceedance indicates potential deterioration of the environment. Exceedance of Action levels can result in an increase in the frequency of environmental monitoring, modification of operations and implementation of the proposed mitigation measures. Exceedance of Limit Levels indicates a greater potential deterioration in environmental conditions and may require the cessation of works unless appropriate remedial actions, including a critical review of plant, working methods and mitigation measures, are undertaken. Before construction work commences four consecutive weeks of baseline monitoring will be undertaken at stations next to the dredging areas.

The full details of the EM&A programme for water quality is presented in the EM&A Manual for this Project.

17.6.2 *Operation Phase*

As no unacceptable impacts have been predicted to occur during the operation of the LNG terminal at South Soko Island, monitoring of impacts to marine water quality during the operational phase is not considered necessary. However, discharges from the site will require a license under the WPCO which stipulates regular effluent monitoring as part of the license conditions.

17.7 *WASTE MANAGEMENT*

In order to ensure that the construction Contractor(s) has implemented the recommendations of the EIA Report, regular site audits will be conducted of the waste streams, to determine if wastes are being managed in accordance with the approved procedures and the site Waste Management Plan. The audits will look at all aspects of waste management including waste generation, storage, recycling, transport and disposal. An appropriate audit programme will be undertaken with the first audit conducted at the commencement of the construction works. Routine weekly site inspections will also include waste management.

17.8 TERRESTRIAL ECOLOGY

The EIA study concluded that the impact on the natural habitats is considered to be low and no adverse residual impact is expected after the implementation of the mitigation measures. However, transplantation will be conducted for Pitcher Plants and Bamboo Orchids prior to the commencement of construction works. Regular site inspections will be carried out during the construction phase in order to ensure that the mitigation measures are implemented and are working effectively.

During the operational phase, adverse impacts are not expected to occur. Therefore, no terrestrial ecology monitoring will be required for either the construction or operational phase.

17.9 MARINE ECOLOGY

The dredging operations have been shown to proceed at rates that maintain environmental impacts to within acceptable levels. Monitoring and audit activities designed to detect and mitigate any potential unacceptable impacts to water quality will serve to protect against unacceptable impacts to marine ecological resources. The water quality monitoring programme will provide management actions and supplemental mitigation measures to be employed should impacts arise, thereby ensuring the environmental acceptability of the project. In addition a marine mammal monitoring programme has been developed. The EM&A Manual provides details of the marine mammals monitoring to be undertaken to ensure that the recommended mitigation measures are carried out.

During the operational phase, adverse impacts are not expected to occur. Therefore, no marine ecology monitoring will be required for the operational phase.

17.10 FISHERIES

The water quality monitoring programme will provide management actions and supplemental mitigation measures to be employed should impacts arise, thereby ensuring the environmental acceptability of the Project. Since the impacts to fisheries resources and fishing operations are small and of short duration, the development and implementation of a monitoring and audit programme specifically designed to assess the effects on commercial fisheries resources is not deemed necessary.

17.11 LANDSCAPE VISUAL

The Landscape and Visual Assessment of the EIA recommended a series of mitigation measures for the construction phase to ameliorate the landscape and visual impacts of the project. Details of all the recommended mitigation

measures are included within the Implementation Schedule provided in Annex 17.

Implementation of the mitigation measures for landscape and visual resources recommended by the EIA will be monitored through the site audit programme.

During the operational phase, adverse impacts are not expected to occur. Therefore, no landscape and visual monitoring will be required for the operational phase.

17.12 CULTURAL HERITAGE

Marine Archaeology: No impact to marine archaeology is predicted and hence no EM&A is required.

Land Based Archaeology: The EIA has recommended that mitigation measure for impacted cultural heritage resources is undertaken prior to construction of the project.

The recommended mitigation measure is to undertake a photographic and cartographic recording for two building structures at Terrace 1, a WWII cave at Terrace 2 and a stone structure at Terrace 3 due to direct impact of the sites from site formation works for the development to preserve the sites by record. AMO should be liaised to ensure their recording requirements are fulfilled.

The details of the watching brief are presented in the EM&A Manual.

17.13 HAZARD TO LIFE, LAND CONTAMINATION PREVENTION

Appropriate measures to reduce land contamination, hazard to life and environmental risk have been recommended. A design phase audit is recommended to ensure that the design of the Project, including the spill response plan, comprise the necessary elements to control, detect, contain, clean up, handle and dispose any material that could lead to contaminated land or pose a risk to life or the environment.

Full details of the EM&A requirements are presented in the EM&A Manual.

Annex 17

Implementation Schedule of Mitigation Measures

Annex 17 Implementation Schedule of Mitigation Measures

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
1. Air Quality Measures								
S 4.7.1	EM&A in the form of site audit of dust generating activities.	Land Site / During Construction	ET		✓			Environmental Impact Assessment Ordinance
S.4.7.1	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the construction of the LNG terminal to control the potential fugitive dust emissions.	Land Site / During Construction	Contractor(s)		✓			Air Pollution Control (Construction Dust) Regulation
S.4.7.1	Good site practices such as regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize gaseous emissions.	Land Site / During Construction	Contractor(s)		✓			-
S 4.7.1	For dust control measures for the operation of a concrete batching plant, mitigation measures specified in the <i>Guidance Note of Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2</i> shall be implemented.	Land Site / During Construction	Contractor(s)		✓			Guidance Note of Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2
S 4.7.1	The dust control measures for the operation of the rock crushing plant recommended in the <i>Guidance Note of Best Practicable Means for Mineral Works (Rock Crushing Plant) BPM 11/1</i> will be implemented during the operation of the mobile rock crusher.	Land Site/During Construction	Contractor(s)		✓			Guidance Note of Best Practicable Means for Mineral Works (Rock Crushing Plant) BPM 11/1
S 4.9.1	24-hr TSP Monitoring at the Administration Building in the existing Black Point Power Station.	Land Site / During Site Formation	ET		✓			Air Pollution Control (Construction Dust) Regulation
2. Noise								
No mitigation measures were specified in the EIA report as no noise sensitive receivers are located in the Project Area.								

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
3. Water Quality								
S.6.7.6	No ballast water from the LNG carrier will be allowed to be discharged in Hong Kong waters.	Hong Kong Waters / During Operation	Contractor(s)			✓		-
S 6.8 and Annex 6A	Dredging plant will be required to comply with the rates modelled in the EIA report (S6 Annex) for the various activities assessed and a pilot test will be conducted to verify their performance as well as the effectiveness of silt curtain prior to commencement of marine construction works. The details of the test will be agreed with EPD and AFCD prior to start of the test.	Dredged areas / During Construction	Contractor(s)		✓			-
S 6.8.1	No overflow is permitted from the trailer suction hopper dredger but the Lean Mixture Overboard (LMOB) system will be in operation at the beginning and end of the dredging cycle when the drag head is being lowered and raised	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	Dredged marine mud will be disposed of in a gazetted marine disposal area in accordance with the <i>Dumping at Sea Ordinance (DASO)</i> permit conditions.	Dredged areas/ During Construction	Contractor(s)		✓			Dumping at Sea Ordinance
S 6.8.1	Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport.	Dredged areas/ During Construction	Contractor(s)		✓			Dumping at Sea Ordinance
S 6.8.1	Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.	Dredged areas/ During Construction	Contractor(s)		✓			Dumping at Sea Ordinance
S 6.8.1	The contractor(s) will ensure that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site.	Dredged areas/ During Construction	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.8.1	If installed, degassing systems will be used to avoid irregular cavitations within the pump.	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	Monitoring and automation systems will be used to improve the crew’s information regarding the various dredging parameters to improve dredging accuracy and efficiency.	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	Control and monitoring systems will be used to alert the crew to leaks or any other potential risks such as chemicals and oils.	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	When the dredged material has been unloaded at the disposal areas, any material that has accumulated on the deck or other exposed parts of the vessel will be removed and placed in the hold or a hopper. Under no circumstances will decks be washed clean in a way that permits material to be released overboard.	Dredged areas/ During Construction	Contractor(s)		✓			Dumping at Sea Ordinance
S 6.8.1	Dredgers will maintain adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash.	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.1	Deploy silt curtain to minimise the elevation of suspended solids to nearby sensitive receivers during the works described in <i>Scenario 3 of Section 6.6.</i>	Dredged areas/ During Construction	Contractor(s)		✓			-
S 6.8.2	Prior to the commencement of the site formation earthworks, surface water flowing into the site from uphill will be intercepted through perimeter channels at site boundaries and safely discharged from the site via adequately designed sand/silt removal facilities such as sand traps	Land Site / During Construction	Contractor(s)		✓			ProPECC PN 1/94
S 6.8.2	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1 of ProPECC PN 1/94.</i>	Land Site / During Construction	Contractor(s)		✓			

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.8.2	The surface runoff or extracted ground water contaminated by silt and suspended solids will be collected by the on-site drainage system and discharged into storm drains after the removal of silt in silt removal facilities.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Unprotected partially formed soil slopes will be temporarily protected by plastic sheetings, suitably secured against the wind, at the end of each working day.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Earthworks to form the final surfaces will be followed up immediately with surface protection and drainage works to prevent erosion caused by rainstorms.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Appropriate surface drainage will be designed and provided where necessary. All slope drainage will be designed to the Geotechnical Manual for Slopes published by the Geotechnical Engineering Office of The Civil Engineering and Development Department.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Temporary trafficked areas and access roads formed during construction will be protected by coarse stone ballast or equivalent. These measures shall prevent soil erosion caused by rainstorms.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Drainage systems, erosion control and silt removal facilities will be regularly inspected and maintained to ensure proper and efficient operation particularly following rainstorms. Deposited silt and grit will be removed regularly.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Measures will be taken to reduce the ingress of site drainage into excavations. If trenches have to be excavated during the wet season, they will be excavated and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into storm drains via silt removal facilities.	Land Site / During Construction	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.8.2	Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m ³ will have measures in place to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Manholes (including newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Land Site / During Construction	Contractor(s)		✓			
S 6.8.2	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in <i>Appendix A2 of ProPECC PN 1/94</i> .	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of storm flows.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Water used in ground boring and drilling for preparation of blasting or rock / soil slope stabilization works will be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater will be discharged into storm drains via silt removal facilities.	Land Site / During Construction	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.8.2	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, will undergo large object removal by installing bar traps at the drain inlets. It is not considered necessary to carry out silt removal due to the small quantities of water involved. Similarly, pH adjustment of such water is not considered necessary due to the small quantities and the fact that the water is only likely to be mildly alkaline.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	During the early stages of work, portable chemical toilets will be used and the effluent will be shipped offsite until the temporary sewage treatment work (STW) plant is operational.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Sewage from toilets, kitchens and similar facilities will be discharged into a foul sewer. Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, will be discharged into foul sewers via grease traps. The foul sewer will then lead to the sewage treatment plant prior to effluent discharge to the ocean.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays will, as far as practical, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via an oil/water interceptor.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal, in accordance with the <i>Waste Disposal Ordinance</i> .	All facilities / During Construction	Contractor(s)		✓			-
S 6.8.2	Fuel tanks and chemical storage areas will be provided with locks and be sited on sealed areas.	All facilities / During Construction	Contractor(s)		✓			-
S 6.8.2	The storage areas of oil, fuel and chemicals will be surrounded by bunds or other containment device to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	All facilities / During Construction	Contractor(s)		✓			-

LNG RECEIVING TERMINAL AND ASSOCIATED FACILITIES

**SECTION 17 – BLACK POINT
ANNEX 17 – IMPLEMENTATION SCHEDULE**

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.8.2	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	All facilities / During Construction	Contractor(s)		✓			-
S 6.8.2	Surface run-off from bunded areas will pass through oil/water separators prior to discharge to the stormwater system.	Land Site / During Construction	Contractor(s)		✓			-
S 6.8.2	Construction works shall be subject to routine audit to ensure implementation of EIA recommendations and good working practice.	All works / During Construction	CAPCO/Contractor(s)		✓			-
S 6.8.2	Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should be recycled wherever practicable. To prevent pollution from wastewater overflow, the pump sump of any wastewater recycling system will be provided with a standby pump of adequate capacity.	Concrete Batching Plant / During Construction	Contractor(s)		✓			-
S 6.8.2	Under normal circumstances, surplus wastewater from the concrete batching will be treated in silt removal and pH adjustment facilities before it is discharged into foul sewers. Discharge of this wastewater into storm drains will require more elaborate treatment and regular testing checks. Surface run-off will be separated from the concrete batching plant to the extent practical and diverted to the stormwater drainage system. Surface run-off contaminated by materials in the concrete batching plant will be adequately treated before disposal into stormwater drains.	Concrete Batching Plant / During Construction	Contractor(s)		✓			-
S 6.9.3	Fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas.	Chemicals Storage and Handling/ During Operation	Contractor(s)			✓		-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 6.9.4	Sewage from toilets, kitchens and similar facilities should be discharged into a foul sewer. Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewers via grease traps. The foul sewer will then lead to the sewage treatment plant prior to discharge to the ocean.	Wastewater / During Operation	Contractor(s)			✓		-
S 6.9.4	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should, as far as possible, be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a oil / water separator.	Wastewater / During Operation	Contractor(s)			✓		-
S 6.9.4	Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal, in accordance with the <i>Waste Disposal Ordinance</i> .	Wastewater / During Operation	Contractor(s)			✓		<i>Waste Disposal Ordinance</i>
S 6.10.1	Water quality monitoring shall be undertaken for suspended solids, salinity, turbidity, and dissolved oxygen. If exceedances occur due to dredging and jetting activities, event and action plan should be adopted.	Designated monitoring stations as defined in EM&A Manual <i>Section 6</i> Construction period for dredging works	ET		✓			Environmental Impact Assessment Ordinance
4. Ecology								
Marine Ecology								
S 9.9.2	Vessel operators working on the Project construction or operation will be given a briefing, alerting them to the possible presence of dolphins in the area, and guidelines for safe vessel operations in the presence of cetaceans. If high speed vessels are used, they will be required to slow to 10 knots when passing through a high density dolphin area.	During Construction / Marine works	ET & Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 9.9.2	The vessel operators will be required to use predefined and regular routes, as these will become known to dolphins and porpoises using these waters.	During Construction / Marine works	Contractor(s)		✓			-
S 9.9.2	The vessel operators will be required to control and manage all effluent from vessels.	During Construction / Marine works	Contractor(s)		✓			-
S 9.9.2	A policy of no dumping of rubbish, food, oil, or chemicals will be strictly enforced. This will also be covered in the contractor briefings.	During Construction / Marine works	Contractor(s)		✓			-
S 9.10	To reduce underwater noise levels associated with percussive piling, the following steps will be taken: - Quieter hydraulic hammers should be used instead of the noisier diesel hammers; - Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques can include the use of a soft sling to retain the pile driving hammer, rubber tired air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge.	During Construction / Marine works	Contractor(s)		✓			-
EM&A Manual	Best practices are recommended to reduce the impacts to marine mammals: - Instigate 'ramping-up' of the piling hammer to provide an advance warning system to marine mammals in the vicinity; - Activities will be continuous without short-breaks and avoiding sudden random loud sound emissions	During Percussive Piling works for Jetty	Contractor(s)		✓			-
EM&A Manual	A pilot test of the bubble jacket will be conducted during percussive piling of the 1 st marine pile. Details of the test will be agreed with EPD and AFCD prior to commencement of the test.	During Percussive Piling works for Jetty	ET & Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 9.10	A marine mammal exclusion zone within a radius of 250 m from the pipeline dredging vessel will be implemented during the construction phase. An exclusion zone of 250 m radius will be scanned around the dredger for at least 30 minutes prior to the start of dredging. If cetaceans are observed in the exclusion zone for a continuous period of 30 minutes, dredging will be delayed until they have left the area. As per previous practice in Hong Kong, should cetaceans move into the dredging area during dredging, it is considered that cetaceans will have acclimatised themselves to the works therefore cessation of dredging is not required.	During Dredging Approaching Channel/Turning Basin	ET		✓			-
S 9.10	An exclusion zone of 500 m radius will be scanned around the work area for at least 30 minutes prior to the start of percussive piling. If dolphins are observed in the exclusion zone, piling will be delayed until they have left the area.	During Piling works for Jetty	ET		✓			-
Terrestrial Ecology								
S 8.7.2	Structures will utilise appropriate design to complement the surrounding landscape wherever possible. Materials and finishes will be considered during detailed design.	Land site / Pre-Construction	Contractor(s)	✓				-
S 8.7.2	All of the major lighting sources will be pointed inward and downwards to avoid disturbance to birds.	Land site / Pre-Construction	Contractor(s)	✓				-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 8.7.2	A detailed vegetation survey on the Pitcher Plants and Bamboo Orchids would be conducted within the impacted shrubland and Project Area by a suitably qualified botanist/ ecologist to identify and record the affected individuals prior to the commencement of site clearance works. Feasibility and suitability of transplanting the affected plant species of conservation interest would be carefully studied and suitable receptor sites would be identified. Detailed transplantation proposal providing information of transplantation methodology, recipient site, implementation programme, watering requirement, post-transplanting monitoring and personal involved shall be submitted to and approved by EPD and AFCD. Transplantation would be undertaken and supervised by a suitably qualified botanist/ horticulturist. After transplantation, monitoring will be undertaken to check the performance and health conditions of the transplanted individuals on a weekly basis in the first month after transplantation and monthly basis for additional eleven months. Remedial actions will be discussed with AFCD in the event of unsuccessful transplantation.	Land site / Pre-Construction	ET	✓				-
S 8.7.2	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements, and encroachment of personnel, onto adjacent areas. Avoid damage and disturbance to the remaining and surrounding natural habitats. Reclaim temporarily affected areas, particularly the shrubland along the haul road adjacent to the construction site, after completion of the construction works, through on-site tree/shrub planting. In selecting the tree shrub species to be used, reference will be made to the species present in the surrounding area and/or Section 8.4 of the EIA Report.	Land site / Pre-Construction	Contractor(s)	✓				-
		Land site / During Construction	Contractor(s)		✓			-
		Land site / During Construction	Contractor(s)			✓		-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 8.8	Provision of 0.7 ha of compensatory planting of shrubland, 6 ha of enhancement planting and transplantation of Pitcher Plants and Bamboo Orchids	Land site / Post Construction	Contractor(s)			✓		-
<i>5. Landscape and Visual</i>								
S 11.10	Areas compacted during the construction phase that are not required during the operations phase, are to be cultivated to a depth of up to 300mm in accordance with the future Landscape Specification	Land site / During Construction	Contractor(s)		✓			-
S 11.10	During the design process a soil stabilisation and embankment planting strategy will be developed to ensure that all land affected by slope excavation can be replanted. All soil preparation and the selection and provision of suitable growing medium will be completed in accordance with the relevant best practice.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.10	Where technically feasible, new plantings are to be installed as early as possible during the construction works	Land site / During Construction	Contractor(s)		✓			-
S 11.10	Planting of trees and shrubs is to be carried out in accordance with the Landscape Details and the relevant best practice guidelines. Plant densities will be provided in future detailed design documents and will be selected so as to achieve a finished landscape that matches the surrounding, undisturbed, equivalent landscape types.	Land site / Post-Construction	Contractor(s)			✓		-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 11.10	The reclamation areas shall utilise natural rocks for the engineered sea-walls.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.18	Where possible, building structures will utilise appropriate design to complement the surrounding landscape. Materials and finishes will be considered during detailed design.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.18	Areas of cut to be stabilised for operational requirements. Materials and finishes of stabilisation to be selected to complement the surrounding landscape where technically feasible. This includes the addition of pigments and aggregates in the finished slope that complement the existing geology of the area.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.18	Colours for the terminal can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be utilised where technically feasible to reduce the visibility of the terminal. In addition to the landscape mitigation plantings proposed in the EIA report, appropriate new plantings will be installed where possible, to help integrate the new structures into the surrounding landscape.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.19	Security lighting of the site boundary - These will generally be spot lights mounted on the external fencing and will have the beams directed towards the ground.	Land site / Pre-Construction (Detail Design)	Contractor(s)	✓				-
S 11.19	General access lighting - This will provide safe access and operational lighting conditions around the site. Baffles will be fitted where possible to reducing upward light spill.	Land site / During & Post-Construction	Contractor(s)		✓	✓		-
6. Cultural Heritage								

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 12.7	A photographic and cartographic recording for two building structures at Terrace 1, a WWII cave at Terrace 2 and a stone structure at Terrace 3 to be undertaken following AMO's requirements.	Prior to construction commencement and clearance of the identified building structures	Contracted Cultural Heritage Specialist.		✓			Antiquities and Monuments Ordinance
<i>7. Waste Management</i>								
S 7.6	The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation / During Construction (C)	Contractor(s)		✓			-
S 7.6	The waste coordinator shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed.	Contract mobilisation / During Construction (C)	Contractor(s)		✓			-
S 7.6	The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation / During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes WBTC No 5/99, Trip-ticket System for Disposal of Construction and Demolition Material Water Pollution Control Ordinance

LNG RECEIVING TERMINAL AND ASSOCIATED FACILITIES

**SECTION 17 – BLACK POINT
ANNEX 17 – IMPLEMENTATION SCHEDULE**

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	No waste shall be burnt on site. Wastes shall be collected by licensed waste haulier and be disposed of at licence sites.	During Construction	Contractor(s)		✓			Air Pollution Control Ordinance
S 7.6	Excavated material shall be used on site to the extent practical. It is intended that the material will be returned to the site and reused as fill for the site formation works or within the reclamation. Otherwise, excavated rocks shall be reused in other concurrent projects in Hong Kong to the extent practical. Excavated rocks shall be delivered to the Public Fill in Tuen Mun Area 38 at the last resort.	Land Site / During Construction (C)	Contractor(s)		✓			WBTC No. 2/93, Public Dumps ETWBTC No. 34/2002, Management of Dredged/Excavated Sediment; Environment, Transport and Works Bureau, Hong Kong SAR Government
S 7.6	Material shall be reused on site as far as practicable, including formwork plywood, topsoil and excavated material.	Land Site / During Construction (C)	Contractor(s)		✓			WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S 7.6	Surplus material generated shall be sorted on site into construction and demolition (C&D) waste and the public fill fraction. A sorting facility shall be set up on the site.	Land Site / During Construction (C)	Contractor(s)		✓			-
S 7.6	The site and surroundings shall be kept tidy and litter free. Waste storage area shall be properly cleaned and shall not cause windblown litter and dust nuisance.	All areas / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S 7.6	Stockpiled material shall avoid vegetated areas.	Land Site / During Construction (C)	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	Stockpiles shall be covered by tarpaulins and/or watered as needed.	Land Site / During Construction, particularly dry season (C)	Contractor(s)		✓			Air Pollution Control (Construction Dust) Regulation
S 7.6	Storage of material on site should be kept to a minimum. Construction materials shall be planed and stocked carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas / During Construction (C)	Contractor(s)		✓			-
S 7.6	Use of reusable non-timber formwork to reduce the amount of C&D materials	All areas / During Construction (C)	Contractor(s)		✓			Works Branch Technical Circular (WBTC) No. 32/92, The Use of Tropical Hard Wood on Construction Site
S 7.6	Wheel washing facilities shall be used by trucks leaving the site to prevent the transfer of mud onto public roads.	Site entrances and exits / During Construction (C)	Contractor(s)		✓			Air Pollution Control (Construction Dust) Regulation
S 7.6	Suitable chemical waste storage areas should be formed at the works site for temporary storage pending collection. Chemical wastes shall be separated for special handling and shall be disposed at appropriate treatment at the Chemical Waste Treatment Centre.	Land Site / During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S 7.6	Any unused chemicals and those with remaining functional capacity shall be recycled to the extent practical.	Land Site / During Construction (C)	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical waste treatment facility at Tsing Yi/ During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S 7.6	Temporary storage areas for general refuse should be enclosed or contained to avoid environmental impacts.	All areas / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S 7.6	Sufficient dustbins should be provided for storage of waste.	All areas / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S 7.6	General refuse should be timely cleared and should be disposed of to the nearest licensed facility.	All areas / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S 7.6	Nightsoil arising from chemical toilets and chemical treatment facilities should be transported by a licensed contractor to government Sewage Treatment Works for disposal. The dewatered sludge from the toilets shall be stored in enclosed containers and transported by barge to the WENT landfill for disposal.	Land Site / During Construction (C)	Contractor(s)		✓			-

LNG RECEIVING TERMINAL AND ASSOCIATED FACILITIES

**SECTION 17 – BLACK POINT
ANNEX 17 – IMPLEMENTATION SCHEDULE**

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	Waste oils, chemicals or solvents shall not be disposed of to drain. Drainage systems, sumps and oil interceptors shall be cleaned and maintained regularly.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	Good site practice shall be implemented to avoid waste generation and promote waste minimisation.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	Waste materials such as paper, metal, timber and waste oil shall be recycled as far as practicable. Different types of waste shall be segregated and stored in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the site.	Land Site / During Construction (C)	Contractor(s)		✓			ETWBTC No. 33/2002, Management of Construction and Demolition Material Including Rock
S 7.6	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance. Marine mud shall be assessed in accordance with the ETWBTC No. 34/2002 prior to the dredging to identify the suitable disposal ground.	Dredging / During Construction (C)	Contractor(s)		✓			Dumping at Sea Ordinance
S 7.6	If marine mud is found contaminated: - Contaminated sediments will be dredged using closed grabs; - Transport of contaminated mud to marine disposal sites will be by split barges of not less than 750 m ³ capacity to the extent practical, well maintained and capable of rapid opening and discharge at disposal site; - Monitoring of the barge loading against loss of material during transportation	Dredging/During Construction (C)	Contractor(s)		✓			
S 7.6	Waste containers shall be in good condition and fitted with lids or covers to prevent waste from escaping or the ingress of water.	All facilities / During Construction (C)	Contractor(s)		✓			-

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	Waste containers shall be in a secure area on hardstanding.	All facilities / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness.
S 7.6	Proper storage and site practices shall be adopted to reduce the potential for damage or contamination of construction materials.	All facilities / During Construction (C)	Contractor(s)		✓			WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness.
S 7.6	Emergency equipment to deal with any spillage or fire shall be kept on site.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	Containers used for storage of chemical waste shall be: - maintained in good condition and clearly labelled in both English and Chinese; - suitable for the substance they are holding, resistant to corrosion, and securely closed; and - capacity of less than 450 L unless the specifications have been approved by the EPD.	All facilities / During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S 7.6	Storage areas for chemical waste shall be: - clearly labelled and used solely for the storage of chemical waste; - enclosed on at least 3 sides; - have adequate ventilation; - arranged so that incompatible materials are appropriately separated; - have impermeable floor and bunding sufficient to fully retain any spillage or leakages; ventilated; and - covered to prevent rainfall from entering.	All facilities / During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 7.6	Leaking containers shall be contained and removed from site as soon as is reasonably practicable.	All facilities / During Construction (C)	Contractor(s)		✓			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S 7.6	Training shall be provided to site personnel in proper waste management and chemical handling procedures, the concepts of site cleanliness and appropriate waste management and chemical handling procedures, including waste reduction, reuse and recycling.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All facilities / During Construction (C)	ET		✓			-
S 7.6	Nomination of approved personnel to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility of the wastes generated at the site.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	All facilities / During Construction (C)	Contractor(s)		✓			-
S 7.6	A recording system for the amount of wastes generated/recycled and disposal sites.	All facilities / During Construction (C)	Contractor(s)		✓			-
8. Land Contamination								

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
				Des	C	O	Dec	
S 14.4	Fuel, lubricating oil, chemical and chemical waste storage areas present on the site shall be provided with secondary containment.	Land Site / During Operation (O)	CAPCO			✓		Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S 14.4	Individual drainage from lines, pumps, compressors, vessels, heat exchangers and instruments shall be connected to an on-site Coalescing Plate Interceptor (CPI) type oil water separator.	Land Site / During Operation (O)	CAPCO			✓		-
S 14.4	Stationary equipment that could release hydrocarbons and that are not located in containment areas will be installed on skids containing drain pans. An open drain system will collect spillage/leakage/contaminated storm water from these areas and will connect to the oil water separator.	Land Site / During Operation (O)	CAPCO			✓		-
S 14.4	Spill containment and clean up equipment shall be provided in areas where oils, chemicals and chemical wastes are handled and stored.	Land Site / During Operation (O)	CAPCO			✓		-
S 14.4	Training shall be provided to relevant personnel on hazardous materials handling and spill control and clean up.	Land Site / During Operation (O)	CAPCO			✓		-
S 14.4	Contaminated materials and dispensed spill control and clean-up equipment shall be collected and disposed of in accordance with the WDO.	Land Site / During Operation (O)	CAPCO			✓		Waste Disposal Ordinance