

Emission Control Project at Castle Peak Power Station "B" Units



Ex on Mobil

Environmental Monitoring and Audit Monthly Report

December 2008



Emissions Control Project at Castle Peak Power Station 'B' Units

Environmental Monitoring and Audit Monthly Report

December 2008

	Certified by:	Verified by:	
Name	David Yip	Marcus Ip	
Position	Environmental Team	Independent Environmental Checker	
Signature	Azariko	Channen 9.	
Date	08 Jamore 2007	07 Jan 2009	

Revision No.	Date	Remarks	
0	9 January 2009	Issue to EPD	

Table of Content

Execut	ive Sun	nmary	5
1.	Basic I	Project Information	.10
	1.1	Background	.10
	1.2	Project Organisation	10
	1.3	Construction Activities and Project Programme	.10
	1.4	Summary of EM&A Requirements	.11
2.	Enviro	nmental Status	16
	2.1	Project Works undertaken during the Reporting Month	16
	2.2	Construction Works to be undertaken in the Coming Month	.18
	2.3	Status of Submissions to EPD	18
3.	Monito	oring Results	20
	3.1	Groundwater Monitoring	20
	3.2	Marine Water Quality Monitoring	20
	3.3	Ecology Monitoring	21
4.	Implen	nentation Status of EIA Recommendations	.23
	4.1	Environmental Mitigation Implementation Schedule	.23
	4.2	Implementation status of Event and Action Plan	.23
	4.3	Site Environmental Inspection and Audit	.23
	4.4	Implementation status of Complaint Handling Procedure	.23

List of Figures

Figure 1.1	Location of the EC Project Site
Figure 1.2	EC Project Site General Layout Arrangement
Figure 1.3	Integrated Project Environmental Team

List of Tables

Table 2.1	Key construction works undertaken in the reporting month	
Table 2.2	Environmental Permit No. EP-251/2006 - Submissions for Decommissioning/Construction Stage	
Table 4.1	Summary of Bi-weekly IEC Site Inspection	
Table 4.2	Summary of Weekly ET Site Inspection	

List of Photos

E. 1	Mechanical erection works of Unit B1 and Unit B2 FGD Absorber
E. 2	Common Limestone Preparation and Gypsum Dewatering areas
E. 3	Marine works of Material Handling Berth
E. 4	Construction works for the relocated IPRS

Appendices

Appendix B Construction Phase - Environmental Mitigation Implementation Schedule

Executive Summary

This is the 14th monthly Environmental Monitoring and Audit (EM&A) report for the Emissions Control Project at Castle Peak Power Station 'B' Units (EC Project) prepared by the Environmental Team (ET), with reference to the EPD's Environmental Monitoring and Audit – Guidelines for Development Projects in Hong Kong.

This report presents the implementation status of EM&A requirements in December 2008 as per the Project Environmental Impact Assessment (EIA) Report (EIAO Register No.: AEIAR-102/2006) and Environmental Permit (EP) No. EP-251/2006.

Key Project Works in the reporting month

The key project activities in the reporting month are summarized below:

• Flue Gas Desulphurization Absorbers

- Mechanical erection works of Unit B1 and B2 FGD Absorbers. (*Photo E.1*)

- Civil Works
 - Pile cap construction for the common Limestone Preparation and Gypsum Dewatering areas (*Photo E.2*), Material Handling System, FGD Waste Water Treatment Plant and the FGD Absorbers of Unit B3 and Unit B4.
 - Piling works for all Units' Gas-Gas Heaters.
 - EC Power Distribution Centre (PDC) construction.
- Material Handling Berth Work
 - Marine piling works for the Material Handling Berth construction. (*Photo E.3*)
- Relocation of Existing Facilities
 - Erection of the relocated Intermediate Pressure Reducing Station (IPRS) (*Photo E.4*)
 - Services diversion, e.g. cables and other station utilities
- NOx Reduction Facilities Erection
 - Mechanical erection works of Unit B1 NO_x Reduction Facilities
- Stack Lining
 - Installation works for Unit B1 stack lining.
- EC Transformers Installation
 - EC Transformers installation work.

Environmental Monitoring

The implementation status of the Project EM&A programmes are summarized below:

- Groundwater monitoring
 - The Groundwater monitoring program for 2008 was completed in October and the results indicated that the TPH levels has consistently

remained well below the relevant Risk-based Remediation Goals (RBRGs) value.

In view of this, the groundwater monitoring frequency for 2009 will be reduced to twice a year as per the email confirmation (dated 07 November 2008) from EPD to the Independent Environmental Checker. (Section 3.1)

The next groundwater monitoring is scheduled for April 2009.

- Marine water quality monitoring
 - Baseline water quality monitoring programme was completed on 21 December 2007 according to the schedule submitted to EPD on 6 November 2007. The Baseline Water Quality Monitoring Report was revised to address EPD's comments on the first submission and resubmitted to EPD on 4 March 2008.
 - According to the EIA report, impact monitoring on marine water quality shall be carried out 3 days a week, at mid-flood and mid-ebb tides, during the dredging works. There was no dredging works conducted during the reporting month and therefore impact monitoring was not required. (*Section 3.2*).
- Ecology monitoring
 - According to the EIA report, visual cetaceans monitoring is required solely during underwater percussive piling works. Underwater percussive piling works for Material Handling Berth construction were conducted during the reporting month and visual cetaceans monitoring was carried out as per the Environmental Permit. (Section 3.3)

Environmental Mitigation Implementation Schedule

Environmental mitigation measures for the construction stage were implemented as per the EIA Report. (Section 4.1)

Implementation Status of Event and Action Plan

Dredging works were not yet commenced in the reporting month so impact monitoring for marine water quality was not required and hence the Event and Action Plan was not applicable. (Section 4.2)

Site Environmental Inspection

Joint site inspection was conducted by the ET and contractors on a weekly basis, and independent audit was conducted by the Independent Environmental Checker (IEC) on a bi-weekly basis. All required follow-up actions were implemented by the relevant contractors and verified by the Integrated Project Environmental Team in the subsequent site inspections. (Section 4.3)

Environmental Complaint and Enquiries

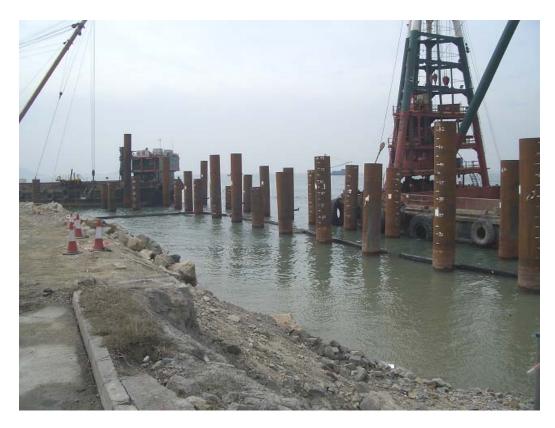
EPD conducted a site visit to EC Project on 24 December in response to a complaint emailed to EPD claiming that discharge of muddy water and oil from an EC piling activity was observed on 18 December. The EPD inspectors witnessed the site drainage setup for construction wastewater treatment as well as the chemical waste storage areas. No non-compliance issue corresponding to the complaint was identified during the site inspection. (Section 4.4) Key Project Works in the reporting month



E. 1 Mechanical erection works of Unit B1 and Unit B2 FGD Absorbers



E.2 Common Limestone Preparation and Gypsum Dewatering areas



E. 3 Marine piling works for the Material Handling Berth



E. 4 Construction works for the relocated IPRS

1. Basic Project Information

1.1 Background

The Emissions Control Project at Castle Peak Power Station "B" Units (the Project) involves the installation of additional emissions control facilities to further reduce air emissions from the operation of these units. The emissions control facilities to be installed in the Castle Peak Power Station "B" Units (CPB) include NO_x reduction facilities and Limestone Flue Gas Desulphurisation (LS FGD) for SO₂ reduction. The location of the Site is presented in *Figure 1.1*. An overview of the Project Site general arrangement is presented in *Figure 1.2*.

1.2 Project Organisation

An Integrated Project Environmental Team has been set up to manage the environmental issues associated with the EC Project. The Project Environmental Team comprises the Project Environmental Team Leader (ETL), the Project Regulatory Compliance and Environmental Officer, and the EPCM ^(Note 1) Contractor Environmental Officer. The Project Environmental Team organisation is depicted in *Figure 1.3*.

1.3 Construction Activities and Project Programme

The construction of the Project involves demolition and relocation of certain existing facilities. While the existing generating units will remain in their current locations, some of the auxiliary and common facilities to the south of the generating units at CPB will be demolished or relocated to provide space for the emission control and related facilities. The scope of the Project is as follows:

- Demolition of some existing facilities at CPB including the Fuel Oil Day Tank, Fuel Oil Pump House and Dangerous Goods (DG) Store;
- Relocation or re-routing of existing facilities including Ash and Dust Control Room, Underground Pipeworks, Carbon Dioxide (CO₂) Storage Tank, Liquefied Petroleum Gas (LPG) Storage Tanks, Intermediate Pressure Reduction Station, Oil Interceptors, Oils Sump, Oil Sewer Manholes and Foul Water Pumping Station;
- Provision of Reagent and By-Product Handling and Storage Facilities including limestone store, limestone slurry tanks, gypsum dewatering and storage facilities;
- Installation of new emission control equipment and facilities for NOx and SO₂ control;
- Note (1) EPCM stands for Management Contractor of the Engineering, Procurement and Construction (EPC)

• Provision of additional berthing facilities for loading and unloading of the additional reagents and gypsum.

The civil works of the EC Project were commenced on 26 September 2007. These included piling works, foundation works, roads and other civil engineering works and would be executed in a phased manner. Start-up of the retrofitted units are scheduled from end 2009 to 2011.

1.4 Summary of EM&A Requirements

An Environmental Impact Assessment (EIA) for the Project was undertaken and the EIA Report was approved under the *Environmental Impact Assessment Ordinance* (EIAO) (Cap499) on 25 October 2006 (EIAO Register No.AEIAR-102/2006). Environmental Permit (EP) No. EP-251/2006 for the Project was granted on 10 November 2006. Condition 3.2 of the EP requires an EM&A programme to be implemented in accordance with the procedures and requirements set out in the approved EIA Report (EIAO Register No. AEIAR-102/2006).

The EM&A requirements for the EC Project are summarized below:

- Establish baseline water quality levels at designated locations;
- Implement construction impact monitoring programmes for water quality and dolphin monitoring;
- Implement inspection and audit programmes for water quality and dolphin monitoring;
- Liaise with, and provide environmental advice (as requested or when otherwise necessary) to construction site staff on the comprehension and consequences of the environmental monitoring data and exceedances;
- Identify and resolve environmental issues and other functions as they may arise from the works;
- Check and advice the Contractor's overall environmental performance, the implementation of Event and Action Plans (EAPs), and remedial actions taken to mitigate adverse environmental impacts as they may arise from the works;
- Conduct monthly reviews of monitored impact data as the basis for assessing compliance with the defined criteria and to ensure that necessary mitigation measures are identified and implemented, and to undertake additional ad hoc monitoring and auditing as required by special circumstances;
- Evaluate and interpret all environmental monitoring data to provide an early indication should any of the environmental control measures or practices fail to achieve the acceptable standards, and to verify the environmental impacts predicted in the EIA Report;
- Manage and liaise with other individuals or parties concerning other environmental issues deemed to be relevant to the construction process;

- Conduct regular site inspections to assess:
 - the level of the Contractor's general environmental awareness;
 - the Contractor's implementation of the conditions in the EP and the recommendations in the EIA Report;
 - the Contractor's performance as measured by the EM&A programme;
 - the need for specific mitigation measures to be implemented or the continued usage of those previously agreed; and
 - to advise the Site Staff of any identified potential environmental issues.
- Submit Monthly EM&A Reports which summarize environmental monitoring and auditing data, with interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures.

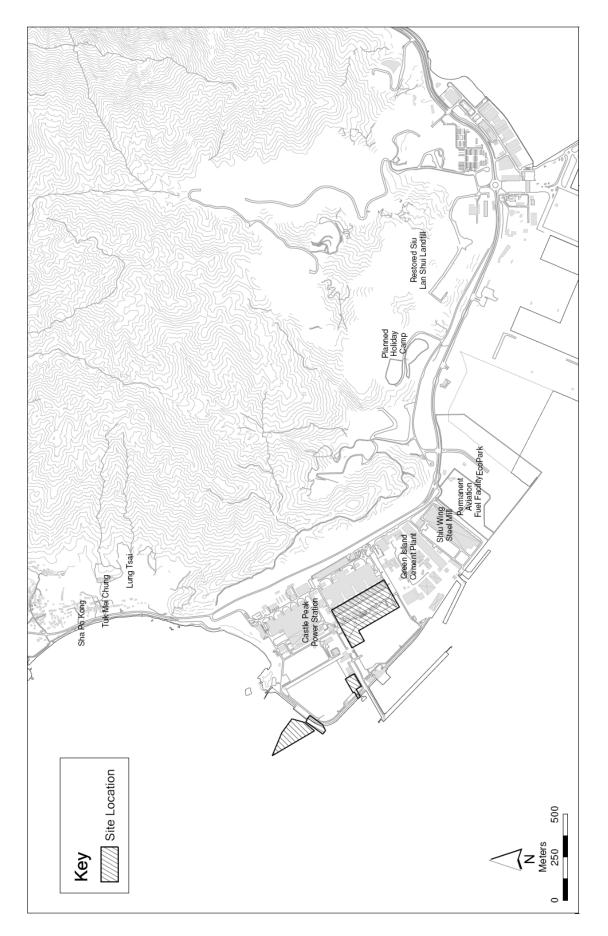


Figure 1.1 Location of the EC Project Site

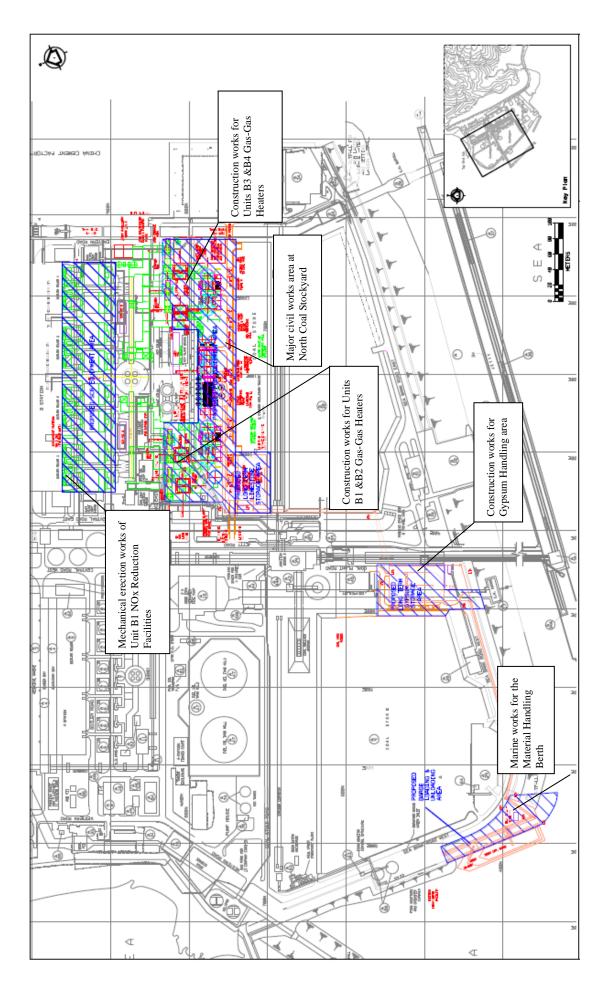


Figure 1.2 EC Project Site General Layout Arrangement

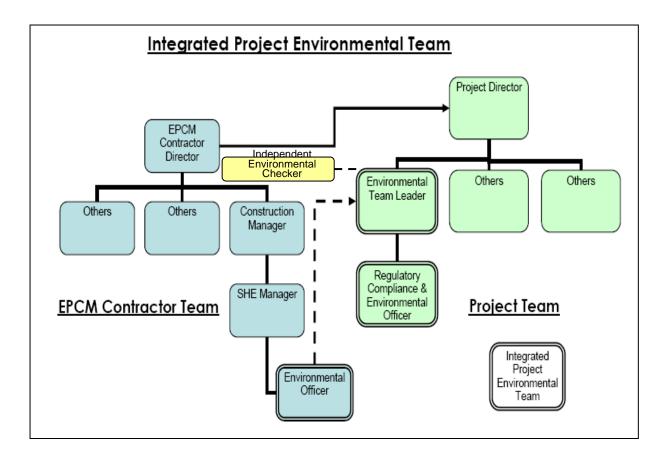


Figure 1.3 Integrated Project Environmental Team

2. Environmental Status

2.1 **Project Works undertaken during the Reporting Month**

The key site works undertaken in the reporting month and implementation of the required environmental protection measures are summarized in *Table 2.1* below.

FGD Erection & Civil Works	 Construction Activities Mechanical erection works of Unit B1 and B2 FGD Absorbers. Pile cap construction for the common Limestone Preparation and Gypsum Dewatering areas, Material Handling System, FGD Waste Water Treatment Plant 	 Environmental Protection Measures Dust suppression on access roads; Temporary stockpiles were either wetted or covered by tarpaulin sheet to prevent dust emission; Wheel wash facility in place to prevent mud trail by vehicles leaving the project site;
	 water Treatment Plant and the FGD Absorbers of Unit B3 and Unit B4. Piling works for Unit B1, Unit B3 and Unit B4 Gas- Gas Heaters. EC Power Distribution Centre (PDC) construction. 	 project site; Spillage control measures (e.g. drip tray, spill kit) were implemented; Proper on-site chemical waste store was provided.
Relocation of Existing Facilities	 Erection for the relocated Intermediate Pressure Reducing Station. Site delivery and installation of EC Transformers. Services diversion, e.g. cables and other station utilities 	 Wheel wash facility in place to prevent mud trail by vehicles leaving the project site; Spillage control measures (e.g. drip tray, spill kit) were implemented; Dust suppression measures in place; Proper on-site chemical waste store was provided.

	Construction Activities	Environmental Protection Measures
NOx Reduction Facilities Erection	Mechanical erection works of Unit B1 NOx Reduction Facilities	 Spillage control measures (e.g. drip tray, spill kit) were implemented; Proper on-site chemical waste store was provided.
Material Handling Berth Work	• Marine piling works for Material Handling Berth.	 Dust suppression measures in place; Bubble curtain in place for underwater percussive piling works; Spillage control measures (e.g. drip tray, spill kit) were implemented; Proper on-site chemical waste store was provided.

2.2 Construction Works to be undertaken in the Coming Month

The key site activities in the coming month are summarized below:

- Civil Works
 - Complete Unit B1 Stack Lining installation works.
 - Complete marine piling works for the Material Handling Berth.
 - Continue pile cap construction for the FGD Absorbers of Unit B3 and B4.
 - Continue pile construction for the Gas-Gas Heaters, Limestone Store and other areas.
 - Complete utilities installation works for the EC Power Distribution Centre (PDC).
- Relocation of Existing Facilities
 - Complete construction works for the relocated IPRS.
- NOx Reduction Facilities
 - Complete mechanical erection works of Unit B1 NOx Reduction Facilities.
- Flue Gas Desulphurization Absorbers
 - Continue mechanical erection of the Unit B1 and Unit B2 FGD Absorbers.

The potential environmental impacts associated with the above construction works include dust emission, construction surface runoff, oil spillage and chemical wastes. Preventive measures have been and will continue to be implemented as per the Environmental Mitigation Implementation Schedule for the EC Project Construction Phase.

2.3 Status of Submissions to EPD

The status of submissions to EPD as required under the Environmental Permit No. EP-251/2006 is summarized in *Table 2.2* below.

EP	Submission	Timing for Submission	Target	Actual
Condition		-	Submissio	Submissio
Ref			n Date	n Date
General Co	nditions			
1.11	Commencement Dates of decommissioning and	At least 2 weeks before the commencement	As per	4/07/07 &
	construction of the Project	of decommissioning and construction	schedule	20/08/07
		respectively		respectivel
Submission	before/after Commencement of Decommission		•	•
2.3	Management organisation of the main	At least 1 month after commencement of	As per	26/10/07
	decommissioning/construction companies	decommissioning/construction of the Project	schedule	
	and/or any form of JV associated with the			
	Project (including organisation chart, names of			
	responsible persons and their contact details)			
2.4	Details of any change to emission reduction	At least 3 months before commencement of	If	
	process described and assessed in the EIA	construction of relevant facilities	applicable	
	Report (Register No.: AEIAR - 102/2006) for			
EM&A Req			1	
3.1	Groundwater Monitoring Plan	At least 1 month before commencement of	As per	1st issue -
		construction of the Project	schedule	20/07/07
				2nd issue -
				5/09/07
				3rd issue -
				20/11/07
				4th issue -
				27/02/08
3.3	Baseline Water Quality Monitoring Report	At least 1 month before commencement of	As per	1st issue -
		dredging works	schedule	29/01/08
				2nd issue -
				4/03/08
3.4	Monthly EM&A Report	Within 10 working days at the end of the	As per	As per
		reporting month	schedule	schedule
3.5	Post-Project Monitoring Report for Dredging	Within 1 week of completion of the Post-	As per	
	Works	Project Monitoring for the dredging works	schedule	
Electronic F	Reporting of EM&A Information	·	·	·
4.2	Written notification on the internet address of	Within 6 weeks after the commencement of	As per	06/11/07
	EM&A website to Director of Environmental	construction of the Project	schedule	

 Table 2.2
 Environmental Permit No. EP-251/2006 - Submissions for Decommissioning / Construction Stage

3. Monitoring Results

3.1 Groundwater Monitoring

With respect to the requirement specified in the Environmental Permit No. EP-251/2006, monitoring of the total petroleum hydrocarbon (TPH) in the groundwater within the Project site during construction and operation of the Project is required. A Groundwater Monitoring Plan has been developed to define the groundwater monitoring locations, methodology for groundwater monitoring as well as the monitoring schedule.

Bi-weekly Groundwater Monitoring Programme for the initial period of three months after the commencement of major piling and foundation works was successfully concluded on 25 January 2008. The TPH monitoring results for the initial three-month period consistently remained well below the relevant Risk-based Remediation Goals (RBRGs) values, and therefore the remaining groundwater monitoring for 2008 was conducted on a quarterly basis in accordance with the Groundwater Monitoring Plan (Rev 4), which had been accepted by EPD.

The Groundwater Monitoring Program for 2008 was completed in October 2008 with all results well within the Risk-Based Remediation Goals (RBRGs) stated in the EPD's Guidance Note for Contaminated Land Assessment and Remediation. In view of this, the groundwater monitoring frequency for 2009 will be reduced to twice a year as per the email confirmation (dated 07 November 2008) from EPD to the Independent Environmental Checker.

The next groundwater monitoring is scheduled for April 2009.

3.2 Marine Water Quality Monitoring

With respect to the requirement specified in the Environmental Permit No. EP-251/2006, monitoring of marine water quality during the construction phase is required to evaluate whether any impacts would be posed by the dredging operations on the surrounding waters during the construction period of the dredging works. Baseline monitoring (prior to the dredging works), impact monitoring (during any works related to the dredging works) and post-project monitoring (after completion of the dredging) shall be carried out according to the monitoring locations, monitoring parameters and frequency specified in the EIA Report.

Baseline water quality monitoring programme was completed on 21 December 2007 according to the schedule submitted to EPD on 6 November 2007. The Baseline Water Quality Monitoring Report was revised to address EPD's comments on the first submission and resubmitted to EPD on 4 March 2008.

According to the EIA report, impact monitoring on marine water quality shall be carried out 3 days a week, at mid-flood and mid-ebb tides, during the dredging works. There was no dredging works conducted during the reporting month and therefore impact monitoring was not required.

3.3 Ecology Monitoring

With respect to the requirement specified in the Environmental Permit No. EP-251/2006, visual cetacean monitoring should be conducted during the underwater percussive piling works to evaluate whether there have been any effects on the animals.

Underwater percussive piling works were conducted during the reporting month and visual cetaceans monitoring was carried out as per the Environmental Permit.

3.3.1 Monitoring Duration and Frequency

Daily visual cetaceans monitoring was conducted whenever there was underwater percussive piling works in the reporting month.

3.3.2 Monitoring Methodology

Dolphin Exclusion Zone

A dolphin exclusion zone was identified within a radius of 500 m from the percussive piling works area. The exclusion zone around the work area was scanned for at least 30 minutes prior to the commencement of piling. If cetaceans were observed in the exclusion zone, underwater percussive piling would be delayed until they had left the area.

Dolphin Observation

The observer was standing at a location on the piling barge that allows for an observation height of 4 to 5 m above water level at the observer's eye level and relatively unobstructed forward visibility. Observation by the observer was conducted by searching with Fujinon 7 x 50 marine binoculars, scanning the area with the naked eye and occasional binocular check. The observer was remained alert at all times during the entire observation period.

Field Record

A sighting record was filled in immediately at the initial sighting with data on the time, position, distance and bearing of the sighting. All other information on sea state, weather conditions (i.e. wind speed according to the Beaufort Scale), as well as notes on dolphin appearance, behaviour, direction of movement, response to boat and any other relevant information were completed at the end of the sighting.

Construction works

When dolphins were spotted within the exclusion zone, construction works would cease and would not resume until the observer confirmed that the zone has been continuously clear of dolphins for a period of 30 minutes (thereby adequately spanning the approximate maximum dive time of the dolphins of 4 minutes). Dolphin sighting position, data on sighting angle, distance to the group, group size and behaviour were recorded.

3.3.4 Monitoring Result

No dolphin was spotted within the exclusion zone during the underwater percussive works in the reporting month. The dolphin monitoring sighting record is given in *Appendix A*.

4. Implementation Status of EIA Recommendations

4.1 Environmental Mitigation Implementation Schedule

Environmental mitigation measures for the construction stage were implemented as per the EIA Report.

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in *Appendix B*.

4.2 Implementation status of Event and Action Plan

Dredging works has not yet commenced in the reporting month so impact monitoring for marine water quality was not required and hence the Event and Action Plan was not applicable.

4.3 Site Environmental Inspection and Audit

Independent Environmental Checker (IEC) conducted bi-weekly site inspection on the 5th and 18th December 2008 respectively. All the follow-up actions to respond to the IEC observations have been completed by the relevant contractors and verified in the subsequent site inspections by the Integrated Project Environmental Team.

Summary of the IEC site inspections is shown in *Table 4.1*.

Joint site audits were carried out by the Integrated Project Environmental Team (ET) with contractors on a weekly basis to monitor environmental issues at the construction sites to ensure that all mitigation measures were implemented timely and properly. All required mitigation measures were implemented by the relevant contractors and verified in the subsequent site inspections by the Integrated Project Environmental Team.

Summary of the weekly ET site inspections is shown in *Table 4.2*.

4.4 Implementation status of Complaint Handling Procedure

EPD conducted a site visit to EC Project on 24 December in response to a complaint emailed to EPD claiming that discharge of muddy water and oil from an EC piling activity was observed on 18 December. The EPD inspectors witnessed the site drainage setup for construction wastewater treatment as well as the chemical waste storage areas. No non-compliance issue corresponding to the complaint was identified during the site inspection.

		1
Date of	Observations	Follow-up action
Inspection		-
05/12/2008	Oil stains were observed on the ground underneath a vibrohammer near the location of the proposed Limestone Slurry Tank area.The oil stains were cleaned up the Contractor with oil absorb immediately.	
	Oil strains were observed on the ground near to some oil hoses near the location of the proposed Limestone Slurry Tank area.	The leakage was fixed and oil stains were cleaned up by the Contractor with oil absorbent immediately.
	Fugitive dust emission was observed when a construction vehicle departed the South Coal Yard via the access bridge.	Water spraying was applied onto the haul road at least twice a day by the Contractor for fugitive dust control.
18/12/2008	Diesel was observed to be dripping onto the ground from the fuel nozzle on a fuel truck near FGD Absorber Units No.1 and 1 in the North Coal Yard.	The dripping was contained and the oil stains were cleaned up by the Contractor with oil absorbent immediately.

Table 4.1Summary of Bi-weekly IEC Site Inspections

Week of	Observations	Follow-up action
Inspection		1
30/11/2008- 06/12/2008	- Some primer containers to be properly labelled.	- The identified primer containers were properly labelled by the Contractor.
	- The marine work area at the Material Loading Berth to be fully enclosed with silt curtain.	- The marine work area was fully enclosed by the Contractor with silt curtain.
07/12/2008- 13/12/2008	- Drain plug was found missing for an air compressor drip tray.	- Drain plug was restored to the identified drip tray.
	- Diesel drums were stored next to a storm drain.	- The identified diesel drums were removed away from storm drain by the Contractor immediately.
14/12/2008- 20/12/2008	- Chemical waste producer registration and spillage control procedure to be displayed at the EC Transformer Bay.	- The identified documents were displayed at the EC Transformer Bay by the Contractor.
	- Waste code was found missing on some chemical waste labels for waste lub. oil.	- Waste code was added onto the identified chemical waste labels.
	- Chemical waste container to be stored separately from the chemicals in use.	- The identified chemical waste container was removed from the storage area for chemicals in use.
21/12/2008- 31/12/2008	- Damaged chemical waste labels to be replaced.	- The identified damaged chemical waste labels were replaced with new labels.
	- Mud trail outside the relocated IPRS construction site to be cleaned up.	- The mud trail outside the relocated IPRS construction site was cleaned up by the Contractor immediately.

Table 4.2Summary of Weekly ET Site Inspection

Appendices

Dec 2008	Underwater piling work carried? (Y/ N)	Dolphin observed? (Y/ N)	Remarks
1	Ν	-	
2	Ν	-	
3	N	-	
4	Ν	-	
5	Y	N	
6	Y	N	
7	N	-	
8	Y	N	
9	Y	N	
10	Y	N	
11	Ν	-	
12	Y	N	
13	Y	N	
14	Ν	-	
15	Ν	-	
16	Y	Ν	
17	Ν	-	
18	Y	Ν	
19	Y	Ν	
20	Y	N	
21	Ν	-	
22	Y	Ν	
23	Y	Ν	
24	Y	Ν	
25	Ν	-	
26	Ν	-	
27	Y	N	
28	Ν	-	
29	Y	N	
30	Ν	-	
31	Ν	-	

Appendix A Dolphin Monitoring Sighting Record

	DOLPHIN / PORPOISE SIG	HTING SHEET
Ðolphin Observer 観察員 <u>くしのえの引う イ</u>	性御養	Sighting No. 50 観察記錄編號50
HIGH PRIORITY DATA (Reco Date 日期 <u> </u>	rd at Initial Piling)打樁前記錄 9 <i>0 8</i> Time 時間 由	10.30 = 19.00
	ioculars 望遠鏡 🛛 🗹 Compas	
Sighting Distance 觀察距離	i (metres 米) <u>万</u>	m 至 <u>万00</u> m
Sighting Angle 觀察角度(*)	180 340	100 611 -0.00
Sighting Position 観察位置	Piling Barge (HKGrid: /	182.636.6Longitude/Latitude <u>28.293</u>
Weather Condition 王备]Overcast 陰天 [] Others 其它
)		
/ Dolphin Found 海豚行蹤	□Yes 有 ŪNo 沒有	
Percussive Piling interruptio	n Time 停工時間 由	至至
Survey Area 出沒地點		
Dolphin Found 海豚行蹤	rd During or After Piling)打樁中 □Yes 有	或後期記錄
Dolphin Found 海豚行蹤 Percussive Piling interruptio	□Yes 有 ☑No 沒有	至
Dolphin Found 海豚行蹤 Percussive Piling Interruptio Survey Area 出沒地點	□Yes 有 ☑No 沒有 n Time 停工時間 由	至
Dolphin Found 海豚行蹤 Percussive Piling Interruptio Survey Area 出沒地點 Species 品種 □ Humpba	□ Yes 有 ☑ No 沒有 n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless P	至 Porpoise 江豚 □ Others 其它
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很	□Yes 有 ⅣNo 沒有 n Time 停工時間 由 nck Dolphin	至至 orpoise 江豚 囗 Others 其它 Low 少
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition	□ Yes 有 I No 沒有 n Time 停工時間 由 nck Dolphin 駝背豚 □ Finless P 多 High 多	至 Porpoise 江豚 □ Others 其它
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition	□ Yes 有 IVNo 沒有 n Time 停工時間 由 n Time 停工時間 由 nck Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚	至至 orpoise 江豚 □ Others 其它 Low 少 UJ 無斑點小海豚
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成	□ Yes 有 ☑ No 沒有 n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚	至
Dolphin Found 海豚行蹤 Percussive Piling Interruptio Survey Area 出沒地點 Species 品種 □ Humpba Broup Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組	□ Yes 有 ⅣNo 沒有 n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME	□ Yes 有 ☑ No 沒有 n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 覓食 □Socialized	□ Yes 有 I No 沒有 n Time 停工時間 由 eck Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Mil	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 覓食 □Socialize □ Spy - hopping 窺探 □Po	□ Yes 有 ☑ No 沒有 n Time 停工時間 由 hck Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 M構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □ Mil prpoishing 躍浪 □ Other Behavio	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 覓食 □Socializia □ Spy - hopping 窺探 □Poc Identified Individual(s) 已識	□ Yes 有 I No 沒有 n Time 停工時間 由 eck Dolphin 駝背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Mil	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 覓食 □Socializia □ Spy - hopping 窺探 □Poc Identified Individual(s) 已識	□ Yes 有 ⅣNo 沒有 n Time 停工時間 由 hck Dolphin 整背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 NTS 評註 ng 群聚 □Travelling 游動 □Mil prpoishing 躍浪 □Other Behavio 別個體	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □ Feeding 覚食 □ Socializia □ Spy - hopping 窺探 □ Poc Identified Individual(s) 已識	□ Yes 有 ⅣNo 沒有 n Time 停工時間 由 hck Dolphin 整背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 NTS 評註 ng 群聚 □Travelling 游動 □Mil prpoishing 躍浪 □Other Behavio 別個體	至
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Group Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 覓食 □Socializia □ Spy - hopping 窺探 □Poc Identified Individual(s) 已識	□ Yes 有 I No 沒有 n Time 停工時間 由 hck Dolphin 整背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 NTS 評註 ng 群聚 □ Travelling 游動 □ Mil prpoishing 躍浪 □ Other Behavio 別個體 Observer Signature	
Dolphin Found 海豚行蹤 Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Broup Size 群組 Best 很 CWD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □ Feeding 寛食 □ Socializia □ Spy - hopping 窺探 □ Poc Identified Individual(s) 已識	□ Yes 有 ⅣNo 沒有 n Time 停工時間 由 hck Dolphin 整背豚 □ Finless P 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 NTS 評註 ng 群聚 □Travelling 游動 □Mil prpoishing 躍浪 □Other Behavio 別個體	

DOLPHIN / PORPOIS	SE SIGHTING SHEET
Dolphin Observer	Sighting No.
観察員 56 02019 林 410 名	観察記錄編號 ケノ
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前	
Date 日期 <u>6-12-2-08</u> Time 時間	
Equipment 儀器 🗹 Binoculars 望遠鏡 🔽 C	ompass 指南針
Equipment 儀器 IV Binoculars 望遠鏡 IV C Sighting Distance 観察距離 (metres 米)5	m至 <i>网 500</i> m
Sighting Angle 觀察角度(') *)
Sighting Position 觀察位置 Piling Barge (HK	Grid: <u>///82.6366</u> /Lo <u>ngitude/Lat</u> itude <u>/28072/0</u>)
Weather Condition 天氣 🗹 Sunny 天晴 🗌 Rain 南	ī天 □ Overçast 陰天 □ Others 其它
Beaufort 風級	
Dolphin Found 海豚行蹤 🗍 Yes 有 🛛 🖸 No 衫	7有
Percussive Piling interruption Time 停工時間 由	
Survey Area 出沒地點	
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至
Species 品種 🛛 Humpback Dolphin 驼背豚 🗍 Fir	nless Porpoise 江豚 □ Others 其它
Group Size 群組 Best 很多 Hig	
) CWD Group Composition UC 初生海豚	
	UA 無斑點成年海豚
FP Group Composition 群組構成 Claves 初生海豚	
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Ba Identified Individual(s) 已識別個體 Other Comments 其他	ehaviour 其他行為
	nature海豚觀察員簽名: 水化洗
Piling Supervisor 5	ignature 打樁科文簽名:

... _...

DOLPHIN / PORPOISE SIGHTING SHEET	
Dolphin Observer Sigh 観察員 <u>56.020 P9 末代 俳グ</u> 観察記	nting No. 1錄編號 <u>5久</u>
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>ター1ス~2028</u> Time 時間 由 <u>09,30</u>	至 17.30
Equipment 儀器 I Binoculars 望遠鏡 I Compass 指南針	
Sighting Distance 觀察距離 (metres 米) <u>5</u> m 至 <u>5</u>	<u> </u>
Sighting Angle 觀察角度() <u>180</u> <u>340</u> Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: <u>N826366</u> Long	29099 To
Signting Position 観察位置 <u>Piling Barge</u> (HKGrid: <u>NOス076</u> 0Long	itude/Latitude <u>(20° 7~ (v</u>)
Weather Condition 天氣	こ □ Others 其它
Beaufort 風級 □0 □1 ଢ2 ଢ3 □4 □5	-
)olphin Found 海豚行蹤 □ Yes 有 □ No 沒有	
Percussive Piling interruption Time 停工時間 由	至
Survey Area 出沒地點	
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期記錄	
Dolphin Found 海豚行蹤 □ Yes 有 □ Ivo 沒有 Percussive Piling interruption Time 停工時間 由 i Survey Area 出沒地點	至
Species 品種 🗌 Humpback Dolphin 駝背豚 🗍 Finless Porpoise 江豚	□ Others 進它
Group Size 群組 Best 很多 High 多	
CWD Group Composition UC 初生海豚 UJ 無時	
群組構成 SJ 斑點小海豚 SS 斑	
	斑點成年海豚
FP Group Composition 群組構成 Claves 初生海豚 Adults	成年海豚
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Resulting 用 □ Spy - hopping 窺探 □Porpoishing 羅浪 □Other Behaviour 其他行為 _	
Identified Individual(s) 已識別個體 Other Comments 其他	-
ona connens 央他	
Observer Signature 海豚觀察員簽	a: 林 佛養
Piling Supervisor Signature 打樁科文簽	^{&} <u> </u>

v

Dolphin Observer 観察員 <u>Si 02099 本体</u>	Sighting No. 53
觀察員 1.0人0114110 1/2	觀察記錄編號 ジノ
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄	
Date 日期 <u>9-/2-2008</u> Time 時間 , 由	09.30 = 18.30
Equipment 儀器 I Binoculars 望遠鏡 I Compass	
Sighting Distance 觀察距離 (metres 米)5	
Sighting Angle 観察角度(1) 34-0	<u> </u>
Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid://	182 63 16 Langituda Hatituda 782.90
	107-07 Up congrade / Landade / Landade
Weather Condition 天氣 U Sunny 天晴 日 Rain 雨天 日	Overcast 陰天 〇 Others 其它
Beaufort 風級 □ 0 □ 1 □ 2 □ 3	
)olphin Found 海豚行蹤 🔲 Yes 有 🛛 🖸 No 沒有	
Percussive Piling interruption Time 停工時間 由	至
Survey Area 出沒地點	-
Dupini round 做你们就 Lies 有 Line 仅有	
Percussive Piling interruption Time 停工時間 由	至至
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	
Percussive Piling interruption Time 停工時間 由 Survey Area.出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Po	orpoise 江豚 🗌 Others 其它
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Pc Group Size 群組 Best 很多 High 多	orpoise 江豚 📋 Others 其它 Low 少
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Po Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Pc Group Size 群組 Best 很多 High 多 WD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Po Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 SA 斑點成年海豚	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Po Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 SA 斑點成年海豚	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Pc Group Size 群組 Best 很多 High 多 WD Group Composition UC 初生海豚 詳組構成 SJ 斑點小海豚 SA 斑點成年海豚 FP Group Composition 群組構成 Claves 初生海豚	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
Survey Area 出沒地點	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 日Humpback Dolphin 駝背豚 日Finless Pc Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 FP Group Composition 群組構成 Claves 初生海豚 BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Mill	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 ling/Resulting 成群兜圈 []Breaching
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 日Humpback Dolphin 駝背豚 日Finless Pc Group Size 群組 Best 很多 High 多 WD Group Composition UC 初生海豚 詳組構成 SJ 斑點小海豚 FP Group Composition 群組構成 Claves 初生海豚 BEHAVIOUR 行為/ COMMENTS 評註 日Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Mill □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behavior	orpoise 江豚 [] Others 其它 Low 少 UU 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Ing/Resulting 成群兜圈 []Breaching ur 其他行為
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 日Humpback Dolphin 駝背豚 日Finless Pc Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 FP Group Composition 群組構成 Claves 初生海豚 BEHAVIOUR 行為/ COMMENTS 評註 日Feeding 覓食 Docializing 群聚 日Travelling 游動 日Mill Spy - hopping 窺探 Porpoishing 躍浪 日Other Behavior Identified Individual(s) 已識別個體	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Iing/Resulting 成群兜圈 []Breaching ur 其他行為
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 日Humpback Dolphin 駝背豚 日Finless Pc Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 FP Group Composition 群組構成 Claves 初生海豚 BEHAVIOUR 行為/ COMMENTS 評註 日Feeding 覓食 Docializing 群聚 日Travelling 游動 日Mill Spy - hopping 窺探 Porpoishing 躍浪 日Other Behavior Identified Individual(s) 已識別個體	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Iing/Resulting 成群兜圈 []Breaching ur 其他行為
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點 Species 品種 日Humpback Dolphin 駝背豚 日Finless Pc Group Size 群組 Best 很多 High 多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 FP Group Composition 群組構成 Claves 初生海豚 BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Mill	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 UA 無斑點成年海豚 Adults 成年海豚 ling/Resulting 成群兜圈 []Breaching i ur 其他行為
Percussive Piling interruption Time 停工時間 由	orpoise 江豚 [] Others 其它 Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 ling/Resulting 成群兜圈 []Breaching ! ur 其他行為 海豚観察員簽名:

vi

DOLPHIN / PORPOISE SIGH	TING SHEET
Dolphin Observer	Sighting No.
Dolphin Observer 觀察員 <u>S(02月99林伯)茶</u>	観察記錄網號 54
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄	
Date 日期 _/o -/2 - 2008 Time 時間 由	13.10 = 18.40
Equipment 儀器 Binoculars 望遠鏡 Compass	
Sighting Distance 觀察距離 (metres 米)	
Sighting Angle 觀察角度(*) <u>180</u> <u>349</u>	n <u>#</u> m
Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: N	R1 63/11 applitude / atitude 12809170
Signting Position 截奈位庫 rining barge (nkonu. N	07-700 congrege and the state of the state o
	Quarant 除王 〇 Other 节告
Weather Condition 天氣 □Sunny 天晴 □ Rain 雨天 □ Beaufort 風級 □ 0 □ 1 □ 2 □ 3 []	
Beautort 函数0 四1 122 13 1	_4 _5 _6 //+
□Iphin Found 海豚行蹤 □ Yes 有 □No 沒有	
Percussive Piling interruption Time 停工時間 由	
Survey Area 出沒地點	
LOW PRIORITY DATA (Record During or After Piling) 打樁中耳	或後期記錄
Dolphin Found 海豚行蹤 🗌 Yes 有 🔹 🗋 No 沒有	
Percussive Piling interruption Time 停工時間 由	至至
Survey Area 出沒地點	
Species 品種 🗌 Humpback Dolphin 駝背豚 📋 Finless Po	rpoise 江豚 🔲 Others 其它
Group Size 群組 Best 很多 High 多 _	Low 少
、、 D Group Composition UC 初生海豚	
群組構成 SJ 斑點小海豚	
	UA 無斑點成年海豚
FP Group Composition 群組構成 Claves 初生海豚	
The starb comparison distributed over 01 relation.	
BEHAVIOUR 行爲/ COMMENTS 評註	
□Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milli	ing/Reculting 武武府團 □Preaching 戰泊
□ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviou	
Identified Individual(s) 已識別個體	
Other Comments 其他	
	1/ 1/ 2
Observer Signature	海豚觀察員簽名: <u> </u>
Piling Supervisor Signatur	e打椿科文簽名:
	(1)

vii

DOLPHIN / PORPOISE SIGHTING SH	IEET
Dolphin Observer 観察員 <u>5602092</u> 社中た	Sighting No. 観察記錄編號 <u>575</u> 一
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>12~12~2008</u> Time 時間 由 <u>13</u> Equipment 儀器 [1] Binoculars 望遠鏡 [1] Compass 指南針 Sighting Distance 觀察距離 (metres 米) <u>5</u> m 至 Sighting Angle 觀察角度(*) <u>180</u> ° <u>340</u> Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: <u>N821636</u>	500 m
Weather Condition 天氣	
○phin Found 海豚行蹤 □ Yes 有 □ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至
LOW PRIORITY DATA (Record During or After Piling). 打樁中或後期詞	己錄
Dolphin Found 海豚行蹤 [] Yes 有 [] No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	· 至
Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Porpoise ? Coup Size 群組 Best 很多	Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Rest □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviour 其他行 Identified Individual(s) 已識別個體 Other Comments 其他	· · · · · · · · · · · · · · · · · · ·
Observer Signature 海豚複数 Piling Supervisor Signature 打樁和	REGERAL ALA

DOLPHIN / PORPOISE SIGHTING S	SHEET
Dolphin Observer 観察員 <u>SV02099 排</u> (わを	Sighting No. 觀察記錄編號56
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>19-12 - 200 8</u> Time 時間 由 <u>19</u> Equipment 儀器 図 Binoculars 望遠鏡 図 Compass 指南部 Sighting Distance 觀察距離 (metres 米) <u>5</u> m 至 Sighting Angle 觀察角度(') <u>180 349</u> Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: <u>N8263</u>	計 <u>500</u> m
Weather Condition 天氣 ① Śunny 天晴 □ Rain 雨天 □ Overc Beaufort 風級 □ 0 □ 1 □ 2 □ 3 □ 4	
○phin Found 海豚行蹤 □ Yes 有 □ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期	記錄
Dolphin Found 海豚行蹤 □ Yes 有 □ Ⅳ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至至
	Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
FP Group Composition 詳組構成 Claves 初生海豚	Adults 成平滑脉
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Re □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviour 其他 Identified Individual(s) 已識別個體 Other Comments 其他	
Observer Signature 海豚着	骤日第二林佛养
Piling Supervisor Signature 打樁	AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ix

DOLPHIN / PORPOISE SIGHTING	SHEET
Dolphin Observer 觀察員 <u>SC02099 林</u> 4拍 光	Sighting No. 観察記録編號 <u> </u>
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>16-12-2008</u> Time 時間 由 <u>16.</u> Equipment 儀器 区 Binoculars 望遠鏡 区 Compass 指南 Sighting Distance 觀察距離 (metres 米) <u>5</u> m 至 Sighting Angle 觀察角度(*) <u>180</u> 340 Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: <u>N826</u>)	40 至 19.00 針 500 m
Weather Condition 天氣 立 Sunny 天晴 🗌 Rain 雨天 🗌 Overce Beaufort 風殺 🗍 0 🗍 1 📝 2 🗹 3 🗍 4	
●phin Found 海豚行蹤 □ Yes 有	至
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期 Dolphin Found 海豚行蹤 □ Yes 有 ☑ No 沒有	記錄
Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至
Species 品種	
Coup Size 群組 Best 很多 High 多	
CWD Group Composition UC 初生海豚	UI 無斑點小海豚
群組構成 SI 斑點小海豚	55 班點牛肯海隊
SA 斑點成年海豚	
FP Group Composition 群組構成 Claves 初生海豚	Adults 放牛海豚
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Re □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviour 其他 Identified Individual(s) 已識別個體 Other Comments 其他	收行爲
Observer Signature 海豚菌	III 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Piling Supervisor Signature 打棒	科文簽名:

DOLPHIN / PORPOISE SIGHTING S	HEET
Dolphin Observer 觀察員 <u>SCO 2099 林伯</u> 差	Sighting No. 觀察記錄網號 <u>58</u>
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>18-12-908</u> Time 時間 由 <u>10.0</u> Equipment 儀器 ① Binoculars 望遠鏡 ☑ Compass 指南部 Sighting Distance 觀察距離 (metres 米) <u>5</u> m 至 Sighting Angle 觀察角度(') <u>180</u> 340 Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: <u>)182-6</u>	500 m
Weather Condition 天氣 「」Sunny 天晴 □ Rain 雨天 □ Overca Beaufort 風級 □ 0 □ 1 □ 2 豆3 □ 4	ast 陰天 🗌 Others 其它
○ phin Found 海豚行蹤 □ Yes 有 ☑ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	至
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期 Dolphin Found 海豚行蹤 □ Yes 有 ☑ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	
Species 品種 □ Humpback Dolphin 駝背豚 □ Finless Porpoise Coup Size 群組 Best 很多 High 多 WVD Group Composition UC 初生海豚 群組構成 SJ 斑點小海豚 SA 斑點成年海豚 FP Group Composition 群組構成 Claves 初生海豚	Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Re □ Spy - hopping 窺探 □Porpoishing 羅浪 □Other Behaviour 其他 Identified Individual(s) 已識別個體	行爲
Other Comments 其他	

DOLPH					
Dolphin Observer 観察員 <u>SU02011本</u> 化力	/		Sightin 觀察記錄		59
	E		能发示自己却	UNERCONE	
HIGH PRIORITY DATA (Record at Initial Pi	ling) 打接前	而記錄			_
Date 日期 <u>19-12-2098</u> Ti	ime 時期	± // ₀	10	至	18.00
Equipment 儀器 立 Binoculars 望遠鏡		•			
Sighting Distance 觀察距離 (metres 米)	5	m 至		2	m
Sighting Angle 觀察角度(*)/80	<u> </u>	• <u>0</u> °			
Sighting Position 觀察位置 <u>Piling Barge</u>	(H	KGrid: <u>//<i>826</i></u>	366 Longitu	de/Lati	ude <u>£<i>80</i>72</u>
Weather Condition 天氣 I Sunny 天	青 🗌 Rain	雨天 🗌 Over	cast 陰天 [_ Othe	rs 其它
Beaufort 風級 □0 □1					
,27m_	/				
Ophin Found海豚行蹤 🗌 Yes 有					
Percussive Piling interruption Time 停工					
Survey Area 出沒地點					
Dolphin Found 海豚行蹤 □ Yes 有		沒有			
LOW PRIORITY DATA (Record During or A Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工!	[☑No ネ 時間 由	沒有			
Dolphin Found 海豚行蹤 □ Yes 有	[☑No ネ 時間 由	沒有			
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工的 Survey Area 出沒地點	[J]No 装 時間 由	9有	至		
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工的 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝	[☑ №] 時間 由 背豚 □ F	沒有 inless Porpois	至 ;e 江豚 🗍	Others	其它
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝	[☑ No ¾ 寺間 由 背豚 □ F	沒有 inless Porpois gh 多	至 至 至 至	Others Low 4	其它 少
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工的 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝	[☑ No i 寺間 由 背豚 □ F Hi	沒有 inless Porpois gh 多	至 e 江豚 □ UJ 無斑響	Others Low 约 站小海朋	其它 少 K
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝 Coup Size 群組 Best 很多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海	[☑ No ; 寺間 由 背豚 □ F Hi 尿	沒有 inless Porpois gh 多	至 ;e 江豚 □ UJ 無斑點 SS 斑點	Others Low 站小海朋 手青海明	其它 少 K
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點 Species 品種 □ Humpback Dolphin 駝 Coup Size 群組 Best 很多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海	[」No ; 時間 由 背豚 □ F Hi 家	沒有 inless Porpois gh 多	至 Ⅲ 無斑 UI 無斑 SS 斑點 UA 無斑	Others Low 经 站小海朋 手青海明 點成年	其它 少 K K 家
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點 Species 品種 [] Humpback Dolphin 駝 Coup Size 群組 Best 很多 CVVD Group Composition UC 初生海豚 群組構成 SJ 斑點小海 SA 斑點成年 FP Group Composition 群組構成 Clave	[」No ; 時間 由 背豚 □ F Hi 家	沒有 inless Porpois gh 多	至 Ⅲ 無斑 UI 無斑 SS 斑點 UA 無斑	Others Low 经 站小海朋 手青海明 點成年	其它 少 K K 家
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點 Species 品種 [] Humpback Dolphin 駝 Coup Size 群組 Best 很多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海 SA 斑點成年 FP Group Composition 群組構成 Clave BEHAVIOUR 行為/ COMMENTS 評註	[」No i 時間 由 背豚 □ F Hi Hi 家 s 初生海豚	史有 inless Porpois gh 多	至 Ee 江豚 □ UJ 無斑閨 SS 斑點华 UA 無斑 Adults 成	Others Low 上小海朋 平 海 駅 年 海 豚	其它 シ ズ 家 海豚
Dolphin Found 海豚行蹤 □ Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點	[☑ No ; 寺間 由 背豚 □ F Hi 原 海豚 家 初生海豚 velling 游動	沒有 inless Porpois gh 多 tMilling/R	上 E 江豚 □ UJ 無斑點 SS 斑點4 UA 無斑 Adults 成 esulting 成都	Others Low / 出小海海 手 點成海豚 年 第 照 第 第 第 第 第 第 第 第 第 第 第 第 第 第 第 第 第	其它 少 家 每豚 Breaching !
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工 Survey Area 出沒地點	[☑ No i 時間 由 背豚 □ F Hi 读豚 滚 初生海豚 velling 游動 支 □Other	沒有 inless Porpois gh 多 gh ③ [] □Milling/R Behaviour 其	上 E 江豚 □ UJ 無斑 SS 斑點 UA 無斑 Adults 成 esulting 成都	Others Low 指小海崩 手情海际 年海豚 年海豚 洋兜圏	其它 少 家 每下 Breaching !
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工! Survey Area 出沒地點 Species 品種 [] Humpback Dolphin 駝 了 up Size 群組 Best 很多 CWD Group Composition UC 初生海豚 群組構成 SJ 斑點小海! SA 斑點成年 FP Group Composition 群組構成 Clave BEHAVIOUR 行為/ COMMENTS 評註 []Feeding 覓食 []Socializing 群聚 []Tra [] Spy - hopping 窺探 []Porpoishing 躍測 Identified Individual(s) 已識別個體	[」No i 時間 由 背豚 □ F Hi 。 深海豚 s 初生海豚 velling 游動 這 □ Other	沒有 inless Porpois gh 多 gMilling/R Behaviour 其	至 EE 江豚 □ UJ 無斑 SS 斑點 UA 無斑 Adults 成 esulting 成都	Others Low 指小海崩 手情海际 年海豚 年海豚 洋兜圏	其它 少 家 每下 Breaching !
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工! Survey Area 出沒地點	[」No i 時間 由 背豚 □ F 一 Hi 深 Hi 家	沒有 inless Porpois gh 多 [] □Milling/R Behaviour 其何 gnature 海豚	至 E 江豚 □ UJ 無斑 SS 斑野 UA 無斑 UA 無斑 Adults 成 esulting 成都 他行爲 觀察員簽名:	Others Low 出 下 当 本 一 第 思 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 第 成 海 第 年 一 第 の 一 第 前 成 海 第 年 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の の 一 の の 一 の の の の の の 一 の の の の の の の の の の の の の	其它 求 每豚 Breaching !
Dolphin Found 海豚行蹤 [] Yes 有 Percussive Piling interruption Time 停工! Survey Area 出沒地點	[」No i 時間 由 背豚 □ F 一 Hi 深 Hi 家	沒有 inless Porpois gh 多 tMilling/R Behaviour 其	至 E 江豚 □ UJ 無斑 SS 斑野 UA 無斑 UA 無斑 Adults 成 esulting 成都 他行爲 觀察員簽名:	Others Low 出 下 当 本 一 第 思 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 勝 二 年 第 成 海 第 年 一 第 の 一 第 前 成 海 第 年 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 第 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の 一 の の 一 の の 一 の の の の の の 一 の の の の の の の の の の の の の	其它 求 每豚 Breaching !

DOLPHIN / PORPOISE SIGHTING SHEET	
Dolphin Observer 89 林子 Sighting No. 60 觀察記錄編號 60	
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>20-12-2008</u> Time 時間 由 <u>13、00</u> 至 <u>18,30</u>	
Equipment 儀器 😡 Binoculars 望遠鏡 🔽 Compass 指南針	
Sighting Distance 觀察距離 (metres 米) 所 至 500 m	
Sighting Angle 觀察角度(*)	3
Weather Condition 天氣	
Beaufort 風級 □ 0 1 1 1 2 □ 3 □ 4 □ 5 □ 6 □ 7+	
○phin Found 海豚行蹤 □ Yes 有 □ Ⅳ No 沒有 Percussive Piling interruption Time 停工時間 由 至 Survey Area 出沒地點	
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期記錄 Dolphin Found 海豚行蹤 [] Yes 有 [] No 沒有 Percussive Piling interruption Time 停工時間 由 至 Survey Area 出沒地點	
Species 品種 🗌 Humpback Dolphin 駝背豚 📄 Finless Porpoise 江豚 📋 Others 其它 Group Size 群組 — Best 很多 High 多 Low 少	
WD Group Composition UC 初生海豚 UI 無斑點小海豚	
群組構成 SJ 斑點小海豚 SS 斑點年青海豚	
SA 斑點成年海豚 UA 無斑點成年海豚	
FP Group Composition 詳組構成 Claves 初生海豚 Adults 成年海豚	
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/Resulting 成群兜圈 □Breaching 擊討 □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviour 其他行為 Identified Individual(s) 已識別個體 Other Comments 其他	
Observer Signature 海豚觀察員簽名: 林 伯 養 Piling Supervisor Signature 打樁科文簽名:	
Piling Supervisor Signature 打樁科文簽名:	

DOLPHIN / PORPOISE SIGHTING	SHEET
Dolphin Observer 觀察員 <u>SC 020 99 林</u> 化表	Sighting No. // 觀察記錄網號 0
HIGH PRIORITY DATA (Record at Initial Piling) 打椿前記錄 Date 日期 <u>111-11-10-8</u> Time 時間 由 <u>10、</u>	00 = 18.00
Equipment 儀器 🗹 Binoculars 望遠鏡 📝 Compass 指南	화
Sighting Distance 觀察距離 (metres 米) 所 至	<u>500 m</u>
Sighting Angle 觀察角度() /80 34.9	
Sighting Position 觀察位置 Piling Barge (HKGrid: 小名之)	36/Longitude/Latitude <u>FS072/0</u>)
Weather Condition 天氣 ☑ Sunny 天晴 □ Rain 雨天 □ Overc Beaufort 風級 □ 0 □ 1 □ 2 □ 3 □ 4	
○phin Found 海豚行蹤 □Yes 有	*
Percussive Piling interruption Time 停工時間 由	至至
Survey Area 出沒地點	
LOW PRIORITY DATA (Record During or After Piling) 打樁中或後期 Dolphin Found 海豚行蹤 □ Yes 有 □ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	
Species 品種 🗌 Humpback Dolphin 駝背豚 🗌 Finless Porpoise	
了up Size 群組 Best 很多 High 多	
CW/D Group Composition UC 初生海豚	
群組構成 5J 斑點小海豚	
	UA 無斑點成年海豚
FP Group Composition 群組構成 Claves 初生海豚	Aduns 从平神场
BEHAVIOUR 行為/ COMMENTS 評註	· •
□Feeding 覓食 □Socializing 詳聚 □Travelling 游動 □Milling/Re	sulting 成群兜圈 □Breaching 擊浪
□ Spy - hopping 窺探 □ Porpoishing 躍浪 □ Other Behaviour 其他	
Identified Individual(s) 已識別個體	
Other Comments 其他	
Observer Signature 海豚衛	驟員簽名: 林佛養
Piling Supervisor Signature 打樁	科文簽名:

	DOLPHIN / PORPOISE SIGHTING S	
Dolphin Observer 観察員 <u>らしり</u> 2099 オ	本佛卷	Sighting No. 観察記錄編號 62
Date 日期 <u>13-12-</u> 5	rd at Initial Piling)打樁前記錄 <u>2008</u> Time 時間 由 <u>0</u> 7.	
	oculars 望遠鏡	
Sighting Distance 觀察距離	(metres 米) <u></u> 所 至 .	<u> </u>
Sighting Apple 節波角度的	120 . 2/20 .	
Sighting Position 觀察位置	Piling Barge (HKGrid: 1826)	26 Longitude/Latitude <u>2807218</u>
	☑Sunny 天晴 □ Rain 雨天 □ Overci	
Beaufort 風級		□ 5 □ 6 □ 7+
\sim		
	Yes 有 INo 沒有	
Percussive Piling interruption		¥
Survey Area 出沒地點		
LOW PRIORITY DATA (Recon	d During or After Piling) 打樁中或後期	記錄
Dolphin Found 海豚行縱	□Yes 有 □/No 沒有	·
	n Time 停工時間 由	
Survey Area 出沒地點	•	
·		
	ck Dolphin 駝背豚 囗 Finless Porpoise	
了up Size 群組 Best 很	ck Dolphin 駝背豚 囗 Finless Porpoise 多 High 多	tow 少
つい Size 群組 Best 很 WD Group Composition	ck Dolphin 駝背豚 □ Finless Porpoise 多 High 多 UC 初生海豚	tow 少 UJ 無斑點小海豚
C>up Size 群組 Best 很 WD Group Composition 群組構成	ck Dolphin 駝背豚 □ Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成	ck Dolphin 駝背豚 □ Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 NTS 評註	tow 少 UJ 無斑點小海豚 S5 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚	tow 少 UJ 無斑點小海豚 S5 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 寬食 □Socializin	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 NTS 評註	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 sulting 成群兜圈 □Breaching 擊浪
C->up Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □Feeding 寬食 □Socializin □ Spy - hopping 窺探 □Po	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 NTS 評註 g 群聚 []Travelling 游動 []Milling/Res	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 sulting 成群兜圈 □Breaching 擊浪
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME Feeding 覓食 Socializin Spy - hopping 窺探 Po Identified Individual(s) 已識	ck Dolphin 駝背豚 [] Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 備成 Claves 初生海豚 MTS 評註 g 群聚 []Travelling 游動 []Milling/Res rpoishing 躍浪 []Other Behaviour 其他	tow 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 sulting 成群兜圈 □Breaching 擊浪
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME Feeding 覓食 Socializin Spy - hopping 窺探 Po Identified Individual(s) 已識	ck Dolphin 駝背豚 ☐ Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 MTS 評註 g 群聚 □Travelling 游動 □Milling/Res rpoishing 躍浪 □Other Behaviour 其他 別個體	Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Sulting 成群兜圈 □Breaching 擊浪 行為 □ □ □ □ □ □ □ □ □ □ □ □ □
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME Feeding 覓食 Socializin Spy - hopping 窺探 Po Identified Individual(s) 已識	ck Dolphin 駝背豚 ☐ Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 MTS 評註 g 群聚 □Travelling 游動 □Milling/Res rpoishing 躍浪 □Other Behaviour 其他 別個體	Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Sulting 成群兜圈 □Breaching 擊浪 行為 □ □ □ □ □ □ □ □ □ □ □ □ □
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME Feeding 覓食 Socializin Spy - hopping 窺探 Po Identified Individual(s) 已識	ck Dolphin 駝背豚 ☐ Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 MTS 評註 g 群聚 □Travelling 游動 □Milling/Res rpoishing 躍浪 □Other Behaviour 其他 別個體	Low 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Sulting 成群兜圈 □Breaching 擊浪 行為 □ □ □ □ □ □ □ □ □ □ □ □ □
C-Jup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME Feeding 覓食 Socializin Spy - hopping 窺探 Po Identified Individual(s) 已識	ck Dolphin 駝背豚 ☐ Finless Porpoise 多 High 多 UC 初生海豚 SI 斑點小海豚 SA 斑點成年海豚 橫成 Claves 初生海豚 MTS 評註 g 群聚 □Travelling 游動 □Milling/Res rpoishing 躍浪 □Other Behaviour 其他 別個體	tow 少 UJ 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 sulting 成群兜圈 □Breaching 擊浪 行為

<u>D</u>	OLPHIN / PORPOISE SIG	HTING SHEET
Dolphin Observer, OB bl	14 J	Sighting No. 12
Dolphin Observer 観察員 <u>5602099月</u> 141	わえ	観察記錄網號 65
	V	
HIGH PRIORITY DATA (Record at Inj	tial Piling) 打樁前記錄	- (1)
Date 日期 <u>24-12-2008</u>	Time 時間 由	09.00 <u>= 18.00</u>
Equipment 儀器 🔽 Binoculars	望遠鏡 🗹 Compas	s 指南針
Sighting Distance 觀察距離 (metre	25米) ゲ	m <u>至 500 m</u>
Sighting Angle 觀察角度(*)/	80 · 340 ·	
Sighting Position 觀察位置 Piling I	Barge (HKGrid: 🛔	1826366 Longitude/Latitude <u>F891270</u>)
	-	
Weather Condition 天氣	ıy 天晴 □ Rain 雨天 □]Overcast 陰天 [] Others 其它
Beaufort 風級 □ 0		
	有 🛛 🗤 沒有	
Percussive Piling interruption Time		至
Survey Area 出沒地點		
LOW PRIORITY DATA (Record Durin	g or After Piling) 打樁中	戒 後 抑 記 募
	5 et finder finniget 21 (E.).	
Dolphin Found 海豚行蹤 📋 Yes		•
Percussive Piling interruption Time		云
Survey Area 出沒地點		
Species 兒童 「」Humphack Dola	hin 致悲遐 「」 Cinface D	orpoise 江豚 囗 Others 其它
1		Low 少
		UI 無斑點小海豚
		SS 斑點年青海豚
		UA 無斑點成年海豚
FP Group Composition 群組構成	Claves 初生海脉	Adults 成年海豚
BEHAVIOUR 行爲/ COMMENTS 評		
• • • • • • • • • • • • • • • • • • • •		ling/Resulting 成群兜圈 □Breaching 擊浪
🗌 Spy - hopping 窺探 🔲 Porpoishin	ig 躍浪 □Other Behavio	ur 其他行爲
ldentified Individual(s) 已識別個體		
Other Comments 其他		
		Lt IL Y
	Observer Signature	海豚觀察員簽名: 林林養
		\sim /)
	Piling Supervisor Signatu	re 打椿科文簽名:/、
	Piling Supervisor Signatu	re打樁科文簽名:

DOLPHIN / PORPOISE SIGHTING	<u>S SHEET</u>
Dolphin Observer 觀察員 <u>9602099</u> 林 俳 義	Sighting No. 64 観察記録編號
HIGH PRIORITY DATA (Record at Initial Piling) 打樁前記錄 Date 日期 <u>27-12-2008</u> Time 時間 由 <u>0</u> 9	30 <u>= 17,00</u>
Equipment 儀器 🔽 Binoculars 望遠鏡 📝 Compass 指詞	
Sighting Distance 觀察距離 (metres 米) 所至	<i>500</i> m
Sighting Angle 觀察角度(*) 34-0	
Sighting Position 觀察位置 <u>Piling Barge</u> (HKGrid: 1182)	6366-Longitude/Latitude <u>E80927a</u>
Weather Condition 天氣 Sunny 天晴 □ Rain 雨天 □ Ove	rcast 陰天 🗌 Others 其它
Beaufort 風級 🗌 0 🗌 1 🔂 2 🖂 3 🗌 4	5 6 7+
- /	
◯phin Found 海豚行蹤 □ Yes 有	
Percussive Piling interruption Time 停工時間 由	至至
Survey Area 出沒地點	
LOW PRIORITY DATA (Record During or After Piling) 打播中或後 Dolphin Found 海豚行蹤 □ Yes 有 □ No 沒有 Percussive Piling interruption Time 停工時間 由 Survey Area 出沒地點	
Species 品種 🗌 Humpback Dolphin 駝背豚 📋 Finless Porpoi	se 江豚
でついの Size 群組 Best 很多 High 多	
wD Group Composition UC 初生海豚	
	UA 無斑點成年海豚
FP Group Composition 群組構成 Claves 初生海豚	
BEHAVIOUR 行為/ COMMENTS 評註 □Feeding 覓食 □Socializing 群聚 □Travelling 游動 □Milling/F □ Spy - hopping 窺探 □Porpoishing 躍浪 □Other Behaviour 其 Identified Individual(s) 已識別個體	Resulting 成群兜圈 □Breaching 撃浪 他行爲
Other Comments 其他	
Observer Signature 海豚	_{觀察員簽名:} 林佛養
Piling Supervisor Signature 打	椿科文簽名:
	Ċ

	DOLPHIN / PORPOISE SIGHTING	<u>G SHEET</u>
Dolphin Observer 観察員 <u>9(02011</u> 1	建的卷	Sighting No. 65 観察記錄編號65
HIGH PRIORITY DATA (Reco Date 日期 2名-12-2	ord at Initial Piling) 打椿前記錄 2008 Time 時間 由0 9) . 00 <u>=</u> 18.00
<i>.</i>	noculars 望遠鏡 🛛 Compass 指	•
	性 (metres 米) 万動 m 至	
Sighting Angle 觀察角度(*)	180 . 340 -	
Sighting Position 觀察位置	Piling Barge (HKGrid: <u>N82</u>)	366 Longitude/Latitude 2809270
Weather Condition 天氣	USunny 天晴 🗌 Rain 雨天 🗌 Ove	rcast 陰天 🗌 Others 其它
~~~.		
phin Found 海豚行蹤	□Yes 有 □No 沒有	
Percussive Piling interruption	on Time 停工時間 由	至至
Survey Area 出沒地點		
LOW PRIORITY DATA (Recor	rd During or After Piling) 打樁中或後	期記錄
Dolphin Found 海豚行斑 Persussive Diling intersustin	□Yes 有 INo 沒有	Т
Percussive Piling interruptio	n Time 停工時間 由	至
Percussive Piling interruptio	□Yes 有   ⅣNo 沒有 m Time 停工時間   由	至至
Percussive Piling interruptio Survey Area 出沒地點	n Time 停工時間   由	
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi	ise 江豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi 多 High 多	ise 江豚 囗 Others 其它 Low 少
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 日 Humpba Oup Size 群組 Best 很 WD Group Composition	n Time 停工時間 由 ack Dolphin 駝背豚 ① Finless Porpoi 多 High 多 UC 初生海豚	ise 江豚 □ Others 其它 Low 少 Ш 無珥點小海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 日 Humpba Oup Size 群組 Best 很 WD Group Composition	n Time 停工時間 由 ack Dolphin 駝背豚 ① Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 S5 斑點年青海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Up Size 群組 Best 很 WVD Group Composition 群組構成	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚	ise 江豚 [] Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Up Size 群組 Best 很 WVD Group Composition 群組構成	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 S5 斑點年青海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba Up Size 群組 Best 很 WVD Group Composition 群組構成 FP Group Composition 群組	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚	ise 江豚 [] Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 日 Humpba Cup Size 群組 Best 很 WD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME	n Time 停工時間 由 ack Dolphin 駝背豚 [] Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚	ise 江豚 [] Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba C µp Size 群組 Best 很 W/D Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行爲/ COMME □Feeding 覓食 □Socializin	n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Milling/F	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Resulting 成群兜圈 □Breaching 擊浪
Percussive Piling interruption Survey Area 出沒地點 Species 品種 □ Humpba Outpoint Best 很 Outpoint Best 很 Outpoint Composition 詳組構成 FP Group Composition 詳組 BEHAVIOUR 行爲/ COMME □ Feeding 覚食 □ Socializin □ Spy - hopping 窺探 □ Po	n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Milling/F prpoishing 躍浪 □Other Behaviour 其	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Resulting 成群兜圈 □Breaching 擊浪 他行爲
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba C up Size 群組 Best 很 C wD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □ Feeding 覓食 □ Socializin □ Spy - hopping 窺探 □ Pc Identified Individual(s) 已識	n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Milling/F prpoishing 躍浪 □Other Behaviour 其 別個體	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Resulting 成群兜圈 □Breaching 擊浪
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba C up Size 群組 Best 很 C wD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □ Feeding 覓食 □ Socializin □ Spy - hopping 窺探 □ Pc Identified Individual(s) 已識	n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Milling/F prpoishing 躍浪 □Other Behaviour 其	ise 江豚 □ Others 其它 Low 少 UI 無斑點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Resulting 成群兜圈 □Breaching 擊浪
Percussive Piling interruptio Survey Area 出沒地點 Species 品種 □ Humpba C up Size 群組 Best 很 C wD Group Composition 群組構成 FP Group Composition 群組 BEHAVIOUR 行為/ COMME □ Feeding 覓食 □ Socializin □ Spy - hopping 窺探 □ Pc Identified Individual(s) 已識	n Time 停工時間 由 ack Dolphin 駝背豚 □ Finless Porpoi 多 High 多 UC 初生海豚 SJ 斑點小海豚 SA 斑點成年海豚 構成 Claves 初生海豚 ENTS 評註 ng 群聚 □Travelling 游動 □Milling/F prpoishing 躍浪 □Other Behaviour 其 別個體	ise 江豚 □ Others 其它 Low 少 UI 無選點小海豚 SS 斑點年青海豚 UA 無斑點成年海豚 Adults 成年海豚 Resulting 成群兜圈 □Breaching 擊浪 他行爲

## Appendix B Construction Phase - Environmental Mitigation Implementation Schedule

Legends:

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implementation Stage		Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Design Construction	the reporting month
Air Qual	ity				- I	I
EIA S3.6.1	• The area at which demolition work takes place should be sprayed with water prior to, during and immediately after the demolition activities so as to maintain the entire surface wet	Within the construction site/Throughout the construction period	Contractor		<b>~</b>	С
EIA S3.6.1	• Dust screens or sheeting should be provided to enclose the structure to be demolished to a height of at least 1 m higher than the highest level of the structure;	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S3.6.1	• Any dusty materials should be wetted with water to avoid any fugitive dust emission;	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S3.6.1	• All temporary stockpiles should be wetted or covered by tarpaulin sheet to prevent fugitive emissions;	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S3.6.1	• All the dusty areas and roads should be wetted with water;	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S3.6.1	• All the dusty materials transported by lorries should be covered entirely by impervious sheet to avoid any leakage; and	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S3.6.1	• The falling height of fill materials should be controlled.	Within the construction site/Throughout the construction period	Contractor		✓	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EP Con 2.14, EIA S5.8.1	• Silt curtains should be deployed around the closed grab dredger to contain suspended solids within the construction site during dredging.	Within the construction site/Throughout the construction period	Contractor		<b>v</b>	N/A
EP Cons 2.13 & 2.15, EIA S5.8.1	• A daily dredging rate of a closed grab dredger (with a minimum grab size of 8 m ³ ) should be less than 5,200 m ³ day ⁻¹ , with reference to the maximum rate for dredging, which was derived in the EIA.	Within the construction site/Throughout the construction period	Contractor		×	N/A
EP Con 2.16, EIA S5.8.1	• Barges or hoppers should have tight fitting seals to their bottom openings to prevent leakage of material.	Within the construction site/Throughout the construction period	Contractor		1	N/A
EP Con 2.9	• Any groundwater arising from the decommissioning and construction of the Project shall be collected and recharged back to the site of the Project. No groundwater shall be used for any industrial or domestic purposes.	Within the construction site/Throughout the construction period	Contractor		×	С
EP Con 2.10	• All wastewater or effluent arising from the stockpiling, transportation and treatment of the excavated contaminated materials shall be properly collected and treated.	Within the construction site/Throughout the construction period	Contractor		•	С
EP Con 2.11	• Surface run-off from the construction site shall be directed into sand/silt removal facilities such as sand/silt traps and sediment basins before discharge. The sand/silt removal facilities shall be adequately designed and properly operated and maintained.	Within the construction site/Throughout the construction period	Contractor		4	С
EP Con 2.12, EIA S5.8.2	• All exposed earth areas should be completed 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 by other means.	Within the construction site/Throughout the construction period	Contractor		¥	С
EIA S5.8.1	• Mechanical grabs should be designed and maintained to avoid spillage and should seal tightly while being lifted.	Within the construction site/Throughout the construction period	Contractor		<b>~</b>	N/A

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA \$5.8.1	• Loading of barges or hoppers should be controlled to prevent splashing of dredged material to the surrounding water.	Within the construction site/Throughout the construction period	Contractor		<b>v</b>	N/A
EIA S5.8.1	• Barges or hoppers should not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	Within the construction site/Throughout the construction period	Contractor		•	N/A
EIA S5.8.1	• Excess material should be cleaned from the decks and exposed fittings of barges or hoppers before the vessel is moved.	Within the construction site/Throughout the construction period	Contractor		×	N/A
EIA S5.8.1	• Adequate freeboard should be maintained on barges to reduce the likelihood of decks being washed by wave action.	Within the construction site/Throughout the construction period	Contractor		1	N/A
EIA S5.8.1	• All vessels should be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Within the construction site/Throughout the construction period	Contractor		×	N/A
EIA S5.8.1	• The works should not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	Within the construction site/Throughout the construction period	Contractor		•	N/A
EIA S5.8.2	• At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed and internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of efficient silt removal facilities should be based on the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> .	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S5.8.2	• All the surface runoff or extracted ground water contaminated by silt and suspended solids should be collected by the on-site drainage system and diverted through the silt traps prior to discharge into storm drain.	Within the construction site/Throughout the construction period	Contractor		4	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implementation Stage		Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA S5.8.2	• 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.	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S5.8.2	• Measures should be taken to reduce 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.	Within the construction site/Throughout the construction period	Contractor		~	С
EIA S5.8.2	• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m ³ 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.	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S5.8.2	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.	Within the construction site/Throughout the construction period	Contractor		•	С
EIA S5.8.2	• 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 <i>Appendix A2</i> of <i>ProPECC PN 1/94</i> . Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Within the construction site/Throughout the construction period	Contractor		•	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA S5.8.2	• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Within the construction site/Throughout the construction period	Contractor		1	N/A
EIA S5.8.2	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporary diverted drainage should be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Within the construction site/Throughout the construction period	Contractor		×	С
EIA S5.8.2	• Sewage from toilets should be collected by a licensed waste collector.	Within the construction site/Throughout the construction period	Contractor		1	С
EIA S5.8.2	• 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 petrol interceptor.	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S5.8.2	• 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> .	Within the construction site/Throughout the construction period	Contractor		✓	С
EIA S5.8.2	• Waste streams classifiable as chemical wastes should be properly stored, collected and treated for compliance with <i>Waste Disposal Ordinance</i> or <i>Disposal (Chemical Waste) (General) Regulation</i> requirements.	Within the construction site/Throughout the construction period	Contractor		1	С
EIA S5.8.2	• The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Within the construction site/Throughout the construction period	Contractor		•	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation Agent	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures		Design	Construction	the reporting month
EIA S5.8.2	• The Contractors should prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Within the construction site/Throughout the construction period	Contractor		•	С
EIA S5.8.2	• Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	Within the construction site/Throughout the construction period	Contractor		×	N/A
Waste Ma	nagement	·	·			
EP Con 2.19	No wastes, spoil or excavated materials or materials alike arising from the demolition and/or decommissioning and construction works of the Project shall be dumped in any environmentally sensitive areas, including but not limited to Sites of Special Scientific Interest, coastal protection areas, conservation areas and agricultural land.	Within the construction site/Throughout the construction period	Contractor		¥	С
EIA S6.6.1	Dredged sediments should be disposed of only at designated disposal sites allocated by the Marine Fill Committee (MFC) based on the findings of further sediment quality tests. A dumping licence should also be obtained from EPD prior to the commencement of the dredging works.	Within designated disposal site/prior to commencement of the dredging works	Contractor		*	N/A
EIA S6.6.1	<ul> <li>Regardless of the disposal method and site, the Contractor should:</li> <li>Dredge the sediments using closed grabs;</li> <li>Use split barges of not less than 750 m³ capacity when transporting the sediment to the disposal site;</li> <li>Regularly maintain the barge hoppers to ensure that they are capable of rapid opening and discharge at the designated disposal site; and</li> <li>Monitor the barge load against loss of materials during transportation.</li> </ul>	Within the dredging area /Throughout the dredging works period	Contractor		*	N/A

Ref.	Environmental Protection Measures		Implementation	Implementation Stage		Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA S6.6.3	The contractor should open a billing account with EPD in accordance with the <i>Waste Disposal (Charges for Disposal of Construction Waste)</i> <i>Regulation</i> for the payment of disposal charges. Every waste load transferred to government waste disposal facilities such as public fill, sorting facilities, landfills or transfer station would required a valid "chit" which contain the information of the account holder to facilitate waste transaction recording and billing to the waste producer. A trip- ticket system should also be established in accordance with <i>Works</i> <i>Bureau Technical Circular No. 21/2002</i> to monitor the disposal of solid wastes at transfer station/landfills, and to control fly-tipping. The billing "chit" and trip-ticket system should be included as one of the contractual requirements and implemented by the contractor.		Contractor		•	C
EIA S6.6.3	A recording system for the amount of waste generated, recycled and disposed of (including the disposal sites) should be established during the construction stage.	Within the construction site/Throughout the construction period	Contractor		*	С

Ref.	Environmental Protection Measures		Implementation	Implementation Stage		Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA S6.6.3	Measures for the Reduction of C&DM Generation during Planning and Design Stages	Within the construction site/Throughout the	Contractor	✓		С
	The various waste management options can be categorized in terms of preference from an environmental viewpoint. The options considered to be more preferable have the least impacts and are more sustainable in the long term. Hence, the waste management hierarchy is as follows:	construction period				
	• Avoidance and minimization, that is, reduction of waste generation through changing or improving practices and design;					
	• Reuse of materials, thus avoiding disposal (generally with only limited reprocessing);					
	• Recovery and recycling, thus avoiding disposal (although reprocessing may be required); and					
	• Treatment and disposal, according to relevant law, regulations, guidelines and good practice.					
	This hierarchy should be used to evaluate the waste management options, thus allowing maximum waste reduction and reduced disposal costs. Records of quantities of wastes generated, recycled and disposed (locations) should be kept.					

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implementa	tion Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA S6.6.3	<ul> <li>Measures for the Reduction of C&amp;DM Generation during Construction</li> <li>C&amp;D materials will be reused as far as possible within the Project. Public fill and construction waste should be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal of construction waste. Specific areas of the work site should be designated for such segregation and temporary storage if immediate use is not practicable.</li> </ul>	Within the construction site/Throughout the construction period	Contractor		*	С
	• The construction waste should be collected by Contractor and transported to landfills for disposal.					
	• The use of wooden hoardings should not be allowed. An alternative material, which can be reused or recycled, for example, metal (aluminium, alloy, etc) should be used.					
	• To reduce the potential dust impact, C&D materials should be wetted as quickly as possible during excavation works.					
EIA S6.6.4	<ul> <li>Containers used for storage of chemical wastes should:</li> <li>be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> </ul>	Within the construction site/Throughout the construction period	Contractor		×	С
	<ul> <li>display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i></li> </ul>					

Ref.	Environmental Protection Measures	Location/Duration of	Implementation Agent	Implementation Stage		Implementation Status during
		Measures/Timing of Completion of Measures		Design	Construction	the reporting month
EIA S6.6.4	<ul> <li>The storage area for chemical wastes should:</li> <li>be clearly labelled and used solely for the storage of chemical waste;</li> <li>be enclosed on at least 3 sides;</li> <li>have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> <li>have adequate ventilation;</li> <li>be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>be arranged so that incompatible materials are appropriately separated.</li> </ul>	Within the construction site/Throughout the construction period	Contractor		Image: A state of the state	C
EIA S6.6.4	<ul> <li>Disposal of chemical waste should be:</li> <li>via a licensed waste collector; and</li> <li>to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers</li> </ul>	Within the construction site/Throughout the construction period	Contractor		1	С
EIA S6.6.5	The sewage sludge from the portable toilet should be collected by a reputable collector on a regular basic.	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S6.6.6	General refuse should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Within the construction site/Throughout the construction period	Contractor		*	С
EIA S6.6.6	General refuse should be removed from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.	Within the construction site/Throughout the construction period	Contractor		~	С

Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent	Implemer	itation Stage	Implementation Status during
				Design	Construction	the reporting month
EIA S6.6.6	Burning of refuse on construction site is prohibited by law.	Within the construction site/Throughout the construction period	Contractor		×	С
EIA S6.6.6	Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. As such, separate, labelled bins for their deposit should be provided if feasible. Materials recovered will be re-used on site or sold for recycling.	Within the construction site/Throughout the construction period	Contractor		V	С
EIA S6.6.7	Training should be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the Contract.	Within the construction site/Throughout the construction period	Contractor		1	С
Land Cont	amination			•	L	
EP Con 2.5	The oil tanks shall be properly cleaned before their demolition. All wastes and effluent arising from the cleaning of the oil tanks shall be properly collected, stored, treated and disposed of.	Within the contaminated area /Throughout the construction period	Contractor		✓	С
EP Con 2.6	No contaminated soil arising from the demolition and/or decommissioning works shall be stockpiled, treated or disposed of outside the Castle Peak Power Station.	Within the contaminated area /Throughout the construction period	Contractor		✓	С
EP Con 2.7	The excavated soil arising from the demolition and/or decommissioning works shall be properly contained in container(s) during storage and transportation to avoid any discharge or leakage.	Within the contaminated area /Throughout the construction period	Contractor		•	С
EP Con 2.8	The contaminated soil arising from the demolition and/or decommissioning works shall be decontaminated within the Castle Peak Power Station in accordance with the Land Contamination Remediation Action Plan contained in the EIA report (Register No. AEIAR- 102/2006). Bio-remediation methods shall be used to remedy the petroleum hydrocarbon contamination in the excavated materials.	Within the contaminated area /Throughout the construction period	Contractor		1	С
EIA Annex E	Potentially contaminated soil should be treated in accordance with the remediation actions specified in the Remediation Action Plan (RAP) of this EIA Report and the treated soil should be reused within the Project Site as far as possible.	Within the contaminated area /Throughout the construction period	Contractor		×	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA Annex E	The temporary stockpile of excavated potentially contaminated materials should be contained in a container covered by HDPE sheet on top	Within the contaminated area /Throughout the construction period	Contractor		×	С
EIA Annex E	Bioremediation by applying nutrient to the soil should be employed for the on-site treatment of excavated materials potentially contaminated by TPH.	Within the contaminated area /Throughout the construction period	Contractor		1	С
EIA Annex E	If disposal of the treated excavated soil to the public fill bank is required, vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or wastewater run-off, and truck bodies and tailgates will be sealed to minimise the risk of a discharge during transportation or during wet conditions.	Within the contaminated area /Throughout the construction period	Contractor		×	N/A
EIA Annex E	Records of the quantities of soil generated for off-site disposal will be maintained.	Within the contaminated area /Throughout the construction period	Contractor		~	С
EP Con 2.9, EIA Annex E	As groundwater is not used for either domestic or industrial purposes at the site or in the adjacent areas, remediation of groundwater is not considered to be necessary for the Project to proceed. If groundwater is encountered during the construction of foundations, the groundwater abstracted or collected will be recharged back to the site.	Within the contaminated area /Throughout the construction period	Contractor		¥	С
EIA Annex E	The FODT and the oil separator serving it should be cleaned prior to demolition.	Within the contaminated area /Throughout the construction period	Contractor		1	С
EIA Annex E	Oily water and sludge collected from the cleaning should be treated at the on-site wastewater treatment facility. Oily water and sludge collected from the cleaning should be collected and disposed of as chemical waste at Government chemical waste treatment facility.	Within the contaminated area /Throughout the construction period	Contractor		✓	С
EIA Annex E	Only licensed waste contractors should be used to collect and transport any chemical waste. The necessary waste disposal permits will be obtained, as required, from the appropriate authorities, in accordance with the <i>Waste Disposal Ordinance (Cap 354)</i> and <i>Waste Disposal</i> <i>(Chemical Waste) (General) Regulation (Cap 354C)</i> , as required.	Within the contaminated area /Throughout the construction period	Contractor		¥	С

Ref.	Environmental Protection Measures	Location/Duration of	Implementation	Implemen	tation Stage	Implementation Status during
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
EIA Annex E	Prior to commence any remediation work, a health and safety risk assessment should be performed for the remediation work to identify potential work related hazards and prepare appropriate control measures.	Within the contaminated area /Throughout the construction period	Contractor		✓	С
EIA Annex E	Appropriate Personal Protective Equipment (PPE) such as safety hat, chemical protective gloves, masks (for both dust and vapour), eye goggles, protective clothing and protective footwear should be provided to staff who would be involved in the tank cleaning and contaminated area (FODT and TP3) remediation works. No works should be allowed without the suitable PPE.	Within the contaminated area /Throughout the construction period	Contractor		¥	С
EIA Annex E	The workers should inspect and check their PPE before, during and after use. In cases where any of the PPE is impaired, the workers should stop work immediately and inform their supervisor. The workers should not be allowed to re-start their work until the impaired PPE is replaced.	Within the contaminated area /Throughout the construction period	Contractor		×	С
EIA Annex E	The workers should always maintain basic hygiene standard (e.g. hand wash before leaving the contaminated work area). The workers should also be responsible for cleaning and storing their own PPE in a secure place before leaving the site.	Within the contaminated area /Throughout the construction period	Contractor		×	С
EIA Annex E	Eating, drinking and smoking should be strictly prohibited within the contaminated site area.	Within the contaminated area /Throughout the construction period	Contractor		<b>v</b>	С
EIA Annex E	The designated site management representatives must be informed if any workers feel uncomfortable physically or mentally during the remediation works. All workers should leave the work areas and the work should be temporarily suspended until the reason for the uncomfortable feeling has been identified.	Within the contaminated area /Throughout the construction period	Contractor		*	С
EIA Annex E	The works should be stopped or discontinued when Typhoon Signal No. 3 or Rainstorm Warning signals are hoisted. All stockpile materials (if any) should be covered immediately by tarpaulin or other similar protective and waterproof materials.	Within the contaminated area /Throughout the construction period	Contractor		×	С
EIA Annex E	Bulk earth-moving excavator equipment should be used to minimise construction workers' potential contact with contaminated materials.	Within the contaminated area /Throughout the construction period	Contractor		<b>√</b>	С

Marine Mammal	Measures/Timing of Completion of Measures	Agent			Implementation Status during
			Design	Construction	the reporting month
				•	
<ul><li>To limit potential impacts to cetaceans from underwater percussive piling, the following steps should be taken:</li><li>Only hydraulic hammers should be used;</li></ul>	Within the dredging area /Throughout the construction period	Contractor		✓	С
• An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and,	1				
• Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge.					
To minimize potential construction and operation impacts on dolphins and porpoises, no dumping of rubbish, food, oil, or chemicals from the marine vessels shall be allowed.	Within the dredging area /Throughout the construction period	Contractor		*	С
<ul> <li>The following recommendations should be considered to minimize potential construction impacts on dolphins and porpoises.</li> <li>All vessel operators working on the Project construction should be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence of cetaceans. If high speed vessels are used, they should be required to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau);</li> <li>The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters;</li> <li>The vessel operators should be required to control and manage all effluent from vessels;</li> </ul>	Within the marine works area /Throughout the construction period of the additional berthing facility	Contractor / CLP Power (as CAPCO operator)		✓	С
	An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and, Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge. o minimize potential construction and operation impacts on dolphins ad porpoises, no dumping of rubbish, food, oil, or chemicals from the tarine vessels shall be allowed. he following recommendations should be considered to minimize botential construction impacts on dolphins and porpoises. All vessel operators working on the Project construction should be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence of cetaceans. If high speed vessels are used, they should be required to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau); The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters; The vessel operators should be required to control and manage all	An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and, Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge. o minimize potential construction and operation impacts on dolphins ad porpoises, no dumping of rubbish, food, oil, or chemicals from the arine vessels shall be allowed. Mithin the dredging area /Throughout the construction arine vessels shall be allowed. Mithin the marine works area /Throughout the construction period Mithin the marine works area /Throughout the construction period of the additional be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence of cetaceans. If high speed vessels are used, they should be required to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau); The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters; The vessel operators should be required to control and manage all effluent from vessels;	An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and, Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge. o minimize potential construction and operation impacts on dolphins do porpoises, no dumping of rubbish, food, oil, or chemicals from the afformative vessels shall be allowed. He following recommendations should be considered to minimize otential construction impacts on dolphins and porpoises. All vessel operators working on the Project construction should be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence of cetaceans. If high speed vessels are used, they should be required to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau); The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters; The vessel operators should be required to control and manage all effluent from vessels;	An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and, Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge. o minimize potential construction and operation impacts on dolphins and porpoises, no dumping of rubbish, food, oil, or chemicals from the arine vessels shall be allowed. he following recommendations should be considered to minimize toential construction impacts on dolphins and porpoises. All vessel operators working on the Project construction should be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence of cetaceans. If high speed vessels are used, they should be required to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau); The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters; The vessel operators should be required to control and manage all effluent from vessels;	An exclusion zone of 500 m radius should be scanned around the work area for at least 30 minutes prior to the start of piling. If cetaceans are observed in the exclusion zone, piling should be delayed until they have left the area; and, Acoustic decoupling of noisy equipment on work barges should be undertaken. These techniques include the use of a soft sling to retain the pile driving hammer, rubber tyred air compressor for bubble jacket/curtain, rubber pads on barge leaders and guides, and an air curtain around the pile barge. o minimize potential construction and operation impacts on dolphins di porpoises, no dumping of rubbish, food, oil, or chemicals from the arine vessels shall be allowed. He following recommendations should be considered to minimize toential construction impacts on dolphins and porpoises. All vessel operators working on the Project construction should be given a briefing, alerting them to the possible presence of dolphins in the area, and the guidelines for safe vessel operation in the presence to slow to 10 knots when passing through a high density dolphin area (west Lantau, Sha Chau and Lung Kwu Chau); The vessel operators should be required to use predefined and regular routes, as these will become known to dolphins using these waters; The vessel operators should be required to control and manage all effluent from vessels;

Ref.		. •	Implementation Stage		Implementation Status during	
		Measures/Timing of Completion of Measures	Agent	Design	Construction	the reporting month
	<ul> <li>strictly enforced. This should also be covered in the contractor briefings;</li> <li>Every attempt should be made to minimize the effects of construction of the Project on the water quality of the area;</li> </ul>					
\$9.3.5	The new structures associated with the Project, including those of the additional conveyor systems, should be painted in a colour scheme that complements the surrounding industrial setting of the existing CPPS.	New structures associated with the Project	Contractor		✓	N/A