


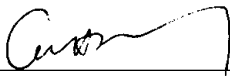
**The Hongkong Electric Co Ltd**  
香港電燈有限公司



**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**ENVIRONMENTAL PERMIT NO. EP-165/2003**

**LAMMA POWER STATION  
NAVIGATION CHANNEL IMPROVEMENT**

Report Title	<u>Monthly EM&amp;A Report (September 2004)</u>
Date	<u>11/10/2004</u>
Certified by	 <u>(Mr. Ip Tat-Yan, Environmental Team Leader)</u>
Verified by	 <u>(Nature &amp; Technologies (HK) Ltd, Independent Environmental Checker)</u>

## **1. INTRODUCTION**

This is the fifteenth monthly Environmental Monitoring and Audit (EM&A) report for the Project "Navigation Channel Improvement" for September 2004 prepared by the Environmental Team (ET).

The dredging contractor has temporarily suspended the dredging work in the reporting month for the review of survey results.

Pursuant to Section 3.5(b) of the Environmental Permit No. EP-165/2003, a copy of the Dredging Schedule for Grab Dredger Option (Revision 6), certified by the ET Leader and verified by the Independent Environmental Checker, was deposited with the Director of Environmental Protection on 12<sup>th</sup> August 2004. The dredging schedule is provided in Appendix A.

## **2. WATER QUALITY MONITORING**

There was no dredging work performed in the reporting month. In this regard, no impact monitoring on marine water quality pertinent to the project was carried out in the reporting month.

## **3. FUTURE KEY ISSUES**

### **3.1 Key Issues for the Coming Month**

Key issues to be considered in the coming month when the dredging work is resumed include:

#### *Noise Impact*

- To continue executing the preventive measures for avoiding noise exceedance and monitoring/ reviewing the noise performance.
- To ensure compliance with the CNP if applicable.

#### *Water Impact*

- To keep reviewing the monitoring results in order to take corresponding action to ensure the seawater quality.
- To carry out routine inspection and necessary maintenance for the cage-type silt curtains.
- To carry out special inspection and maintenance works should there be significant muddy water observed outside the cage-type silt curtains.

### **3.2 Monitoring Schedules for the Next 3 Months**

The dredging contractor has temporarily suspended the dredging work in the reporting month for the review of survey results. The marine water impact monitoring work would be suspended until the dredging work is resumed.

The tentative environmental monitoring schedules for the period from October to November 2004 are shown in Appendix B.

### **3.3 Construction Program for the Next 3 Months**

The tentative construction program for the period from October to November 2004 is shown in Appendix C.

~ End ~

Appendix A Dredging Schedule for Grab Dredger Option (Revision 6) – Effective from September 2004

Working Zone*	Construction Programme	
	September 2004	October – November 2004
ABn	3 Nos.**	3 Nos.**
ABs		
BCn		
BCs		
Maximum total daily dredging rate (m <sup>3</sup> /day)	21,200	33,200
Maximum total hourly dredging rate (m <sup>3</sup> /hour)	972	1,522

Remarks:

\*: This table should be read in conjunction with Figure 4 of Environmental Permit No. EP-165/2003

\*\* : A maximum of 3 numbers of grab dredgers, each with a grab capacity of no less than 8 m<sup>3</sup> is allowed.

Note:

The above maximum daily dredging rates are derived based on 24-hour dredging operations. If the daily workings hours are restricted, the maximum daily dredging rates will have to be reduced proportionally based on the allowable working hours.

## Appendix B

### Environmental Monitoring Schedule

**The Hongkong Electric Co., Ltd.**  
**Navigation Channel Improvement - EM&A Marine Water Monitoring Schedule**

**Oct-2004**

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	2/10/2004	Sat	Mid-flood	11:46	05:25	08:30
			Mid-ebb	11:46	16:59	13:15
2	4/10/2004	Mon	Mid-flood	13:25	06:59	09:15
			Mid-ebb	13:25	16:46	14:00
3	6/10/2004	Wed	Mid-ebb	5/10/04 23:46	6/10/04 09:46	08:30
			Mid-flood	7/10/04 00:38	6/10/04 09:46	16:00
4	8/10/2004	Fri	Mid-ebb	02:55	12:31	08:30
			Mid-flood	9/10/04 04:41	8/10/04 12:31	16:00
5	11/10/2004	Mon	Mid-ebb	06:51	14:10	09:30
			Mid-flood	20:42	14:10	16:00
6	13/10/2004	Wed	Mid-ebb	08:40	15:00	10:45
			Mid-flood	20:57	15:00	16:00
7	15/10/2004	Fri	Mid-ebb	10:21	15:52	12:00
			Mid-flood	21:46	15:52	16:00
8	18/10/2004	Mon	Mid-flood	13:24	06:07	08:45
			Mid-ebb	13:24	17:09	14:15
9	21/10/2004	Thu	Mid-ebb	01:11	10:05	08:30
			Mid-flood	22/10/04 02:42	21/10/04 10:05	16:00
10	23/10/2004	Sat	Mid-ebb	04:24	12:20	08:30
			Mid-flood	19:57	12:20	15:00
11	25/10/2004	Mon	Mid-ebb	07:02	13:40	09:15
			Mid-flood	20:28	13:40	16:00
12	27/10/2004	Wed	Mid-ebb	08:52	14:39	10:45
			Mid-flood	20:56	14:39	16:00
13	29/10/2004	Fri	Mid-ebb	10:18	15:24	11:45
			Mid-flood	21:32	15:24	16:00

Notes: 1. The time of high tide and low tide is made reference to tidal information at Chi Ma Wan provided by the HKO.

2. Monitoring works will not be arranged during night time period for safety reasons.
3. Monitoring works should be carried out three days per week at mid-flood and mid-ebb.
4. The interval between two sets of monitoring should not be less than 36 hours.

**The Hongkong Electric Co., Ltd.**  
**Navigation Channel Improvement - EM&A Marine Water Monitoring Schedule**

**Nov-2004**

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	1/11/2004	Mon	Mid-flood	12:31	05:55	08:30
			Mid-ebb	12:31	15:46	13:00
2	5/11/2004	Fri	Mid-ebb	4/11/2004 23:47	5/11/2004 09:53	08:30
			Mid-flood	6/11/2004 01:11	5/11/2004 09:53	16:00
3	7/11/2004	Sun	Mid-ebb	03:30	11:47	08:30
			Mid-flood	19:30	11:47	14:30
4	9/11/2004	Tue	Mid-ebb	06:18	13:02	08:30
			Mid-flood	19:28	13:02	15:15
5	11/11/2004	Thu	Mid-ebb	08:31	14:02	10:15
			Mid-flood	20:02	14:02	16:00
6	13/11/2004	Sat	Mid-ebb	10:25	15:01	11:45
			Mid-flood	20:47	15:01	16:00
7	15/11/2004	Mon	Mid-flood	12:33	05:14	08:30
			Mid-ebb	12:33	15:57	13:15
8	17/11/2004	Wed	Mid-flood	15:02	07:16	10:00
			Mid-ebb	15:02	16:24	15:00
9	20/11/2004	Sat	Mid-ebb	02:25	10:31	08:30
			Mid-flood	18:32	10:31	13:30
10	22/11/2004	Mon	Mid-ebb	05:34	12:06	08:30
			Mid-flood	19:14	12:06	14:45
11	24/11/2004	Wed	Mid-ebb	07:52	13:14	09:30
			Mid-flood	19:53	13:14	15:30
12	26/11/2004	Fri	Mid-ebb	09:37	13:57	10:45
			Mid-flood	20:24	13:57	16:00
13	29/11/2004	Mon	Mid-flood	11:46	05:04	08:30
			Mid-ebb	11:46	14:41	12:15

Notes: 1. The time of high tide and low tide is made reference to tidal information at Chi Ma Wan provided by the HKO.

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3. Monitoring works should be carried out three days per week at mid-flood and mid-ebb.
4. The interval between two sets of monitoring should not be less than 36 hours.

# Appendix C

## Tentative Construction Programme



Hong Kong Electric Co., Ltd.  
Lamma Power Station Navigation Channel Improvement

Construction Programme (up to -16mPD)

Description	Oct. 04		Nov. 04		Dec. 04	
	10	20	10	20	10	20
Dredging						