# 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	Monthly EM&A Report (May 2004)
Date	08/06/2004
Certified by	(Mr. Ip Tat-Yan, Environmental Team Leader)
Verified by	(Nature & Technologies (HK) Ltd, Independent Environmental Checker)

### 1. INTRODUCTION

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

Dredging operation is planned to resume on 1<sup>st</sup> June 2004 for trimming high spots (above –16.0 mPD) within the channel which have not been revealed in the last sounding survey carried out in late February 2004.

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 5), certified by the ET Leader and verified by the Independent Environmental Checker, was deposited with the Director of Environmental Protection on 5<sup>th</sup> May 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 after resuming of dredging work in the coming month 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 tentative environmental monitoring schedules for the period from June to August 2004 are shown in Appendix B.

 $\sim$  End  $\sim$ 

# Appendix A

Dredging Schedule for Grab Dredger Option (Revision 5)

# Appendix A Dredging Schedule for Grab Dredger Option (Revision 5) – Effective from 19 May 2004

Working Zone*	Construction Programme					
Į.	May 2004	June 2004	July 2004	August 2004		
ABn						
ABs	3 Nos.**	3 Nos.**	3 Nos.**	3 Nos.**		
BCn						
BCs						
Maximum total daily dredging rate (m³/day)	21,200					
Maximum total hourly dredging rate (m³/hour)	972					

#### 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

# <u>The Hongkong Electric Co., Ltd.</u> Navigation Channel Improvement - EM&A Marine Water Monitoring Schedule

Jun-2004

Jun-2004							
No.	Date		Tide	High tide	Low tide	Tentative Start Time	
1 2/6/0	2/6/04	Wed	Mid-ebb	08:00	15:07	10:30	
1	2/0/04	wed	Mid-flood	22:05	15:07	16:00	
2	2 4/6/04	Fri	Mid-flood	09:23	02:59	08:30	
2 4/0/04	111	Mid-ebb	09:23	16:52	12:00		
3	7/6/04	Mon	Mid-flood	11:59	05:04	08:30	
3	//0/04		Mid-ebb	11:59	19:49	15:00	
4	0/6/04	1	Mid-flood	13:46	07:05	09:30	
4	9/6/04	Wed	Mid-ebb	13:46	21:32	16:00	
5	11/6/04	Fri	Mid-flood	16:08	10:29	12:15	
3	11/0/04	111	Mid-ebb	16:08	23:03	16:00	
6	14/6/04	Man	Mid-ebb	07:23	13:54	09:30	
6	14/6/04	Mon	Mid-flood	20:08	13:54	16:00	
7	16/6/04	Wed	Mid-ebb	08:11	15:24	10:45	
,	10/0/04		Mid-flood	22:03	15:24	16:00	
8	18/6/04	Fri	Mid-ebb	09:01	16:41	11:45	
0	16/0/04		Mid-flood	23:29	16:41	16:00	
9	21/6/04		Mid-flood	10:13	03:15	08:30	
9	21/0/04	Mon	Mid-ebb	10:13	18:39	13:30	
10	23/6/04	04 Wed	Mid-flood	11:31	04:29	08:30	
10 23.	23/0/04		Mid-ebb	11:31	20:00	14:45	
11	25/6/04	Fri	Mid-flood	13:16	07:18	09:15	
11	25/6/04		Mid-ebb	13:16	21:24	16:00	
1.2	28/6/04	Mon	Mid-ebb	05:37	12:04	08:30	
12			Mid-flood	18:18	12:04	14:15	
13	30/6/04	Wed	Mid-ebb	06:34	14:08	09:15	
			Mid-flood	21:12	14:08	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.

# <u>The Hongkong Electric Co., Ltd.</u> Navigation Channel Improvement - EM&A Marine Water Monitoring Schedule

Jul-2004

NT.	Jul-2004	•	mta.	H(ab 483-	I c. 43.	Tentative Start
No.	Date		Tide	High tide	Low tide	Time
1	2/7/04	Fri	Mid-ebb	08:00	15:57	11:00
	2///04		Mid-flood	23:15	15:57	16:00
2 5/7/04	5/7/04	Mon	Mid-flood	10:54	04:09	08:30
	Wion	Mid-ebb	10:54	18:31	13:45	
3	7/7/04	Wed	Mid-flood	12:31	05:59	08:30
3	7/7/04	wea	Mid-ebb	12:31	19:55	15:15
4	9/7/04	Fri	Mid-flood	14:11	08:21	10:15
4	9/1/04	111	Mid-ebb	14:11	21:07	16:00
5	13/7/04	Tue	Mid-ebb	06:33	13:54	09:15
3	13/7/04	Tue	Mid-flood	20:39	13:54	16:00
6	15/7/04	Thu	Mid-ebb	07:28	15:22	10:30
O	13/7/04	Thu	Mid-flood	22:24	15:22	16:00
7	17/7/04	Sat	Mid-ebb	08:31	16:30	11:30
,	17/7/04		Mid-flood	23:18	16:30	16:00
8	10/7/04	19/7/04 Mon	Mid-flood	09:44	02:44	08:30
0	19/7/04		Mid-ebb	09:44	17:35	12:45
9	21/7/04	4 Wed	Mid-flood	10:56	04:25	08:30
,	21/7/04	wed	Mid-ebb	10:56	18:40	13:45
10	23/7/04	3/7/04 Fri	Mid-flood	12:10	06:16	08:30
10	23/1/04		Mid-ebb	12:10	19:42	15:00
11	27/7/04	7/7/04 Tue	Mid-ebb	04:36	11:55	08:30
11			Mid-flood	18:46	11:55	14:15
10	29/7/04	9/7/04 Thu	Mid-ebb	06:00	14:10	09:00
12			Mid-flood	21:37	14:10	16:00
13	31/7/04	Sat	Mid-ebb	07:54	15:52	11:00
13			Mid-flood	23:02	15:52	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.

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Aug-2004

Aug-2004							
No.	Date		Tide	High tide	Low tide	Tentative Start Time	
1 2/8/04	Mon	Mid-flood	09:50	03:18	08:30		
1	2/6/04	Mon	Mid-ebb	09:50	17:17	12:30	
2 4/8/04	Wed	Mid-flood	11:25	05:00	08:30		
		Mid-ebb	11:25	18:24	14:00		
3	6/8/04	Fri	Mid-flood	12:51	06:46	08:45	
3	0/8/04		Mid-ebb	12:51	19:20	15:00	
4	10/0/04	Tue	Mid-ebb	04:46	13:01	08:30	
4	10/8/04		Mid-flood	11/8/04 05:32	10/8/04 13:01	16:00	
	10/0/04	TO I	Mid-ebb	06:15	14:34	09:30	
5	12/8/04	Thu	Mid-flood	13/8/04 06:55	12/8/04 14:34	16:00	
	14/0/04	G-4	Mid-ebb	07:35	15:37	10:30	
6	14/8/04	Sat	Mid-flood	22:27	15:37	16:00	
7	16/0/04		Mid-ebb	08:57	16:32	11:45	
7	16/8/04	Mon	Mid-flood	22:48	16:32	16:00	
0	10/0/04	XX 1	Mid-flood	10:19	03:55	08:30	
8	18/8/04	Wed	Mid-ebb	10:19	17:26	12:50	
9	20/8/04	Fri	Mid-flood	11:37	05:25	08:30	
9	20/8/04		Mid-ebb	11:37	18:19	14:00	
10	24/8/04	Tue	Mid-ebb	02:19	10:20	08:30	
10	24/8/04	Tue	Mid-flood	17:45	10:20	13:00	
11	26/9/04	Thu	Mid-ebb	04:47	13:18	08:30	
11	26/8/04		Mid-flood	21:05	13:18	16:00	
10	28/8/04	Sat	Mid-ebb	06:57	14:53	10:00	
12			Mid-flood	22:02	14:53	16:00	
12	30/8/04	Mon	Mid-ebb	08:54	16:07	11:30	
13			Mid-flood	22:51	16:07	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.

- $2.\ Monitoring\ works\ will\ not\ be\ arranged\ during\ night\ time\ period\ for\ safety\ reasons.$
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