

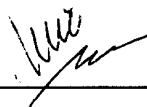

The Hongkong Electric Co Ltd
香港電燈有限公司



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMIT NO. EP-165/2003

**LAMMA POWER STATION
NAVIGATION CHANNEL IMPROVEMENT**

Report Title	<u>Monthly EM&A Report (January 2004)</u>
Date	<u>05/02/2004</u>
Certified by	 <u>(Mr. Ip Tat-Yan, Environmental Team Leader)</u>
Verified by	 <u>(Nature & Technologies (HK) Ltd, Independent Environmental Checker)</u>

1. INTRODUCTION

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

The proposed dredging work was substantially completed in December 2003. However, the subsequent sounding survey conducted in January 2004 revealed that there were still a few spot of soundings higher than the design dredging level (i.e. -16.0 mPD).

In order to meet the requirements of Hong Kong Pilots Association Limited on the navigation depth, dredging operation for removing those high spots above the design dredging level is required. The trimming of high spots by dredging will resume in mid 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 4), certified by the ET Leader and verified by the Independent Environmental Checker, was deposited with the Director of Environmental Protection on 29th January 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 next 3 months are shown in Appendix B.

~ End ~

Appendix A

Dredging Schedule for Grab Dredger Option (Revision 4)

Dredging Schedule for Grab Dredger Option (Revision 4) – Effective from 15 February 2004

Working Zone *	Construction Programme	
	February & March 2004	April 2004
ABn	2 Nos. **	2 Nos. **
ABs		
BCn		
BCs	No dredging	No dredging
Maximum total daily dredging rate (m ³ /day)	33,200	26,300
Maximum total hourly dredging rate (m ³ /hr)	1,522	1,205

Remarks:

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

** : A maximum of 2 numbers of grab dredgers, each with a grab capacity of no less than 8 m³ 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

Navigation Channel Improvement Project - Marine Water Monitoring Schedule

4/2/2004

Feb-2004

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	17/2/2004	Tue	Mid-ebb	09:29	11:45	09:30
			Mid-flood	18:27	11:45	14:00
2	19/2/2004	Thu	Mid-ebb	10:29	14:02	11:15
			Mid-flood	20:27	14:02	16:00
3	21/2/2004	Sat	Mid-flood	11:17	04:33	08:30
			Mid-ebb	11:17	15:38	12:30
4	23/2/2004	Mon	Mid-flood	11:37	05:28	08:30
			Mid-ebb	11:37	17:06	13:15
5	25/2/2004	Wed	Mid-flood	12:26	06:16	08:30
			Mid-ebb	12:26	18:37	14:30
6	27/2/2004	Fri	Mid-flood	13:01	06:40	08:45
			Mid-ebb	13:01	20:46	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.

5. Monitoring works will only be carried out during dredging period.

Navigation Channel Improvement Project - Marine Water Monitoring Schedule**Mar-2004**

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	1/3/2004	Mon	Mid-flood	16:41	01:11	08:30
			Mid-ebb	1/3/2004 16:41	2/3/2004 01:53	16:00
2	4/3/2004	Thu	Mid-ebb	10:02	13:01	10:30
			Mid-flood	19:37	13:01	15:15
3	6/3/2004	Sat	Mid-ebb	10:11	14:45	11:30
			Mid-flood	21:12	14:45	16:00
4	8/3/2004	Mon	Mid-ebb	10:35	16:11	12:30
			Mid-flood	22:41	16:11	16:00
5	10/3/2004	Wed	Mid-flood	11:31	05:33	08:30
			Mid-ebb	11:31	17:42	13:30
6	12/3/2004	Fri	Mid-flood	12:28	06:28	08:30
			Mid-ebb	12:28	19:34	15:00
7	15/3/2004	Mon	Mid-flood	15/3/2004 15:40	14/3/2004 23:07	08:30
			Mid-ebb	15/3/2004 15:40	16/3/2004 00:51	16:00
8	18/3/2004	Thu	Mid-ebb	09:38	13:22	10:30
			Mid-flood	19:44	13:22	15:30
9	20/3/2004	Sat	Mid-ebb	10:15	14:58	11:30
			Mid-flood	21:23	14:58	16:00
10	22/3/2004	Mon	Mid-flood	10:35	04:22	08:30
			Mid-ebb	10:35	16:20	12:30
11	24/3/2004	Wed	Mid-flood	11:17	05:06	08:30
			Mid-ebb	11:17	17:40	13:30
12	26/3/2004	Fri	Mid-flood	11:19	05:34	08:30
			Mid-ebb	11:19	19:11	14:15
13	29/3/2004	Mon	Mid-flood	29/3/2004 12:59	28/3/2004 22:00	08:30
			Mid-ebb	29/3/2004 12:59	30/3/2004 00:10	16:00
14	31/3/2004	Wed	Mid-flood	17:03	01:04	08:30
			Mid-ebb	31/3/2004 17:03	1/4/2004 01:43	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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Navigation Channel Improvement Project - Marine Water Monitoring Schedule

4/2/2004

Apr-2004

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	2/4/2004	Fri	Mid-ebb	09:17	13:17	10:15
			Mid-flood	19:21	13:17	15:15
2	5/4/2004	Mon	Mid-ebb	09:34	15:26	11:30
			Mid-flood	21:59	15:26	16:00
3	7/4/2004	Wed	Mid-flood	10:30	04:25	08:30
			Mid-ebb	10:30	16:54	12:45
4	9/4/2004	Fri	Mid-flood	11:32	05:21	08:30
			Mid-ebb	11:32	18:36	14:00
5	13/4/2004	Tue	Mid-flood	13/4/2004 15:31	12/4/2004 22:54	08:30
			Mid-ebb	13/4/2004 15:31	14/4/2004 00:15	16:00
6	15/4/2004	Thu	Mid-ebb	08:38	12:26	09:30
			Mid-flood	18:37	12:26	14:30
7	17/4/2004	Sat	Mid-ebb	09:12	14:12	10:45
			Mid-flood	20:36	14:12	16:00
8	19/4/2004	Mon	Mid-ebb	09:39	15:35	11:30
			Mid-flood	22:03	15:35	16:00
9	21/4/2004	Wed	Mid-flood	10:19	03:58	08:30
			Mid-ebb	10:19	16:52	12:30
10	23/4/2004	Fri	Mid-flood	10:39	04:32	08:30
			Mid-ebb	10:39	18:14	13:30
11	26/4/2004	Mon	Mid-flood	26/4/2004 11:31	25/4/2004 19:59	08:30
			Mid-ebb	11:31	21:12	15:15
12	28/4/2004	Wed	Mid-flood	28/4/2004 13:50	27/4/2004 22:28	08:30
			Mid-ebb	13:50	23:39	16:00
13	30/4/2004	Fri	Mid-ebb	08:15	11:59	09:00
			Mid-flood	17:40	11:59	13:45

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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