TABLE OF CONTENT

EXECUTIVE SUMMARY

LIST OF TABLES

LIST OF FIGURE

APPENDIX

EXECUTIVE SUMMARY

This is the nineteenth monthly Environmental Monitoring and Audit (EM&A) report for the Project "Operation of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality, noise, water quality and environmental audit for the operation of the said project in April 2008.

Air quality, noise and water quality monitoring were performed. The results were checked against the established Action/Limit (AL) levels. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Plant Availability

Unit L9 was out of service during the following period:

Period	Remark
12/4/2008 13:36 to 14/04/2008 05:28	Off load blade washing

Defect Rectification for Lamma Extension's Associated Transmission System

A defect was discovered in one of the newly laid submarine cables from Pak Kok Tsui Landing Point (N5) to Cyberport Landing Point (I1). It had been identified that the defective point of the cable was located at the offshore subsea area near Pak Kok Tsui Landing Point (N5). Permission to enter the site areas had been granted by the District Lands Office (DLO). Marine civil works were carried out at N5 and I1 seashore for detection of the cable fault in the reporting month.

Improvement Works for Lamma Extension

Civil works for installation of light oil facilities for Lamma Extension were carried out in the reporting month.

Environmental Monitoring Works

Environmental monitoring works, as mentioned in the EM&A Manual (Operational phase), were performed during the operation of Lamma Power Station Extension in the reporting period.

Air Quality
No exceedance of Action and Limit levels for stack NOx was recorded in the reporting month

Noise
No exceedance of Action and Limit levels for noise was recorded in the reporting month.

Water Quality
No exceedance of Action and Limit levels for water quality was recorded in the reporting month.

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting month.

Environmental Complaints

No complaint against the Project was received in the reporting month.

Future Key Issues

Key issues to be considered in the coming month include:

Air Impact
- To continuously monitor the stack NOx for Lamma Power Station Extension.

Noise Impact
- To continuously monitor the noise for Lamma Power Station Extension.

Water Impact
- To continuously carry out the water quality monitoring for Lamma Power Station Extension.

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

The operational phase Lamma Power Station Extension commenced in mid October 2006 following the completion of erection works and commissioning tests for Unit L9. The Environmental Team (hereinafter called the "ET") was formed within The Hongkong Electric Co. Ltd (HK Electric) to undertake Environmental Monitoring and Audit for "Operation of Lamma Power Station Extension" (hereinafter called the "Project"). Under the requirements of Section 6 of Environmental Permit EP-071/2000/C, an EM&A programme for impact environmental monitoring set out in the EM&A Manual (Operational Phase) is required to be implemented. In accordance with the EM&A Manual, environmental monitoring of air quality, noise and water quality are required for the Project.

This report summarizes the environmental monitoring and audit work for the Project for the month of April 2008.

1.1 Plant Availability

Unit L9 was out of service during the following period:

Period	Remark
12/4/2008 13:36 to 14/04/2008 05:28	Off load blade washing

1.2 Defect Rectification for Lamma Extension's Associated Transmission System

A defect was discovered in one of the newly laid submarine cables from Pak Kok Tsui Landing Point (N5) to Cyberport Landing Point (I1). It had been identified that the defective point of the cable was located at the offshore subsea area near Pak Kok Tsui Landing Point (N5). Permission to enter the site areas had been granted by DLO. Marine civil works were out at N5 and I1 seashore for detection of the cable fault in the reporting month.

1.3 Improvement Works for Lamma Extension

Civil works for installation of light oil facilities for Lamma Extension were carried out in the reporting month.

1.4 Summary of EM&A Requirements

The EM&A program requires environmental monitoring for air quality, noise and water quality. The EM&A monitoring work for air quality, noise and water quality are described in Sections 2, 3 and 4 respectively.

The following environmental audits are summarized in Section 5 of the report:

- Environmental monitoring results;
- The implementation status of environmental protection and pollution control / mitigation measures.

The future key issues for the Project will be reported in Section 6 of this report.

2. AIR QUALITY

2.1 Monitoring Requirements

In accordance with the EM&A Manual (Operational Phase) for Lamma Extension, stack NOx is continuously monitored. Stack NOx monitoring data would be checked against the Action/Limit Levels stated in the EM&A Manual. The monitoring frequency is shown in Table 2.1 below:

Table 2.1 Air Quality Monitoring Parameter and Frequency

Parameter	Frequency
Hourly Average Stack NOx	Continuous

2.2 Summary of Results and Observations

Monitoring of stack NOx was conducted during the operation of Unit L9 in the reporting month. A monthly summary of monitoring data is shown in Appendix C.

No Action/Limit Level exceedance on stack NOx was recorded in the reporting month.

3. NOISE

3.1 Monitoring Requirements

In accordance with the EM&A Manual for Lamma Extension (Operational Phase), continuous noise monitoring at Ash Lagoon is carried out to calculate the noise arising from the operation of Lamma Extension at the critical NSR at Hung Shing Ye. Baseline noise levels are applied for correction to the noise monitoring data. The data after corrections would be checked against the Limit Levels specified in the EM&A Manual.

The noise monitoring location is shown in Figure 3.1. The monitoring parameter and frequency are shown in Table 3.1 below:

Table 3.1 Noise Monitoring Parameter and Frequency

Parameter	Frequency	Time Period
30-min L_{Aeq}	continuous	0700-2300 hrs and 2300-0700 hrs of next day

3.2 Summary of Results and Observations

Continuous noise monitoring was conducted at the monitoring station at Ash Lagoon. The monitoring results are shown in Appendix D.

No Action/Limit Level exceedance on noise was recorded in the reporting month.