

Kowloon-Canton Railway Corporation

KCRC East Rail Extensions Sheung Shui to Lok Ma Chau

Monthly EM&A Report –
December 2002

January 2003

Report no: EA00761/R73/1



Kowloon-Canton Railway Corporation

KCRC East Rail Extensions Sheung Shui to Lok Ma Chau

Monthly EM&A Report – December 2002

Author: Claudine Lee

Checker: Jacquelyn Anderson

Approver: Jacquelyn Anderson

Report no: EA00761/R73/1

Date: January 2003

This report has been prepared for Kowloon-Canton Railway Corporation in accordance with the terms and conditions of appointment for KCRC East Rail Extensions Sheung Shui to Lok Ma Chau Spur Line dated March 2001. Hyder Consulting Limited (COI number 126012) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.



Contents

Executive Summary	1
1 Introduction	4
2 IEC monthly site audits	4
2.1 Contract LCC206	4
2.2 Contract LDB201	4
2.3 Contract LCC300	4
3 Public Consultation	5

Appendix 1

LCC206 TBM Launching Shaft Diaphragm Walls Monthly EM&A Report

Appendix 2

LDB201 Sheung Shui to Chau Tau Tunnels Monthly EM&A Report

Appendix 3

LCC300 Lok Ma Chau Station and Associated Works

EXECUTIVE SUMMARY

INTRODUCTION

This Report (in HTML format) is the sixth Monthly EM&A Report for the Sheung Shui to Lok Ma Chau Spur Line and includes the Monthly EM&A Reports for construction contracts LCC206, LDB201 and LCC300. This Report and all monitoring data collected under the EM&A Programme are available on the KCRC East Rail Extensions Environmental Monitoring and Audit Website at www.env-ere.kcrc.com.

LCC206 TBM Launching Shaft Diaphragm Wall

The EM&A programme for LCC206 commenced on 23 July 2002. 24-hr TSP monitoring was conducted once every six days and three sets of 1-hr TSP monitoring were conducted once every six days at AM1 Village House in Tsung Pak Long. No exceedance of the Action/Limit Level for 24-hr or 1-hr TSP was recorded during December.

Noise monitoring was conducted once every six days during non-restricted hours at NM3 Village House in Tsung Pak Long. No noise level exceedance was recorded during December. The Contractor reported that no construction activities were undertaken during restricted hours in the reporting month.

Water quality monitoring was conducted at one upstream control station URS and one downstream monitoring location RS1 in the River Sutlej. Full compliance for pH, oil & grease, suspended solids and turbidity were reported during December. However exceedances of the limit levels of dissolved oxygen on 2 and 6 December were recorded during the reporting month. CET explained that the exceedance was subject to natural seasonal variation in River Sutlej.

No complaints or notification of summons were received during the reporting month.

Weekly site inspections were carried out by the CET and an IEC monthly site audit was conducted on 18 December. These resulted in the improvement on the regular water spraying on the haul road and bare ground to control dust emissions. The implementation and effectiveness of the corrective actions will be assessed during the next site audit.

LDB201 Shueng Shui to Chau Tau Tunnels

The construction works for LDB201 commenced in late November. This report presents the EM&A findings in the period from 27 November to 25 December. As part of the site area of LCC206 has been handed over to LDB201 for site preparation works, the major works area for LDB201 was on the same site as the LCC206 Contract.

Currently monitoring is still being undertaken by LCC206 however it is anticipated that LDB201 will take over existing locations AM1, NM3, URS and SR1 in the next reporting month.

TSP monitoring was conducted once every six days and three sets of 1-hr TSP monitoring were conducted once every six days at AM1 Village House in Tsung Pak Long. No exceedance of the Action/Limit Level for 24-hr or 1-hr TSP was measured during the reporting month.

Noise monitoring was conducted once every six days during non-restricted hours at NM3 Village House in Tsung Pak Long. No noise level exceedance was recorded. The Contractor reported that no construction activities were undertaken during restricted hours in the reporting month.

Water quality monitoring was conducted at one upstream control station URS and one downstream monitoring location RS1 in the River Sutlej. Full compliance for pH, oil & grease, suspended solids and turbidity were recorded during the reporting month. However exceedances of the limit levels of dissolved oxygen on 30 November, 2 and 6 December were recorded during the reporting month. CET explained that it was unlikely that the exceedance was due to the LDB201 construction works as no major construction works in the vicinity of River Sutlej had started in early December.

No complaints or notification of summons were received during the reporting month. A warning was received from EPD during their site visit on 19 December regarding the washing of paving between the site hoarding and the former KMB depot chain link fence.

Weekly site inspections were carried out by the CET and an IEC monthly site audit was conducted on 18 December. These resulted in the improvements including the regular water spraying on the haul road and bare ground to control dust emissions, covering of stockpiled aggregate or spoil with tarpaulins, removal of stockpiles everyday and installation of noise barriers during sheet piling and rock breaking activities. The implementation and effectiveness of the corrective actions will be assessed during the next site audit.

LCC300 Lok Ma Chau Station and Associated Works

The EM&A programme for LCC300 commenced in mid-December. This report summarises the EM&A works conducted during the period from 15 December to 25 December. During the reporting month no major construction works were conducted. The preparation works carried out on site include the erection of hoarding and site offices, site investigation, and the preparation of site installations and pipe-jacking for the drainage outfall.

One set of 24-hr TSP and two sets of 1-hr TSP monitoring were conducted at AM4, Ha Wan Tsuen Village Playground. No exceedance of the Action/Limit Level for 24-hr or 1-hr TSP was measured during the monitoring period.

Noise monitoring was conducted once every six days during non-restricted hours at three monitoring locations: NM13, Rear of Shop at Lok Ma Chau Closed Area Police Checkpoint, NM14, Front of house south of Lok Ma Chau Closed Area Police Checkpoint and NM15, Ha Wan Tsuen Village. No noise level exceedance was recorded during monitoring period. There is no report of noise monitoring undertaken during restricted hours.

Water quality monitoring was conducted at one upstream station USTR, one downstream monitoring location STR1 at San Tin River, and three selected fishponds, namely, FP1, FP2 and FP3. Full compliance for pH, dissolved oxygen and oil & grease were reported. However exceedances of the action level and in some cases the limit level of suspended solids and turbidity were recorded during the reporting month. CET explained that the exceedance was due to the low water levels in STR1, USTR and FP3 where the bottom sediments were disturbed easily during sampling.

No complaints or notification of summons was received during the reporting month.

ET Leader has conducted site inspections during the reporting month. Due to the limited works on site, no significant environmental impact was observed during the site inspections. Nevertheless the ET Leader has given recommendations to assist site installation and management.

1 Introduction

Hyder has been commissioned by KCRC as the IEC for the East Rail Extensions, which include the Ma On Shan to Tai Wai Rail, the Hung Hom to Tsim Sha Tsui Extension and the Lok Ma Chau Spur Line. A requirement of the Contract is for the IEC to prepare a combined EM&A Report on a monthly basis for each of the above rail lines. The combined report combines the Monthly EM&A Reports for each of the construction contracts within each rail line. This Report (in HTML format) is the sixth IEC Monthly EM&A Report for the Sheung Shui to Lok Ma Chau Spur Line and includes the Monthly EM&A Reports for construction contracts LCC206, LDB201 and LCC300 and a summary of the reports. It also includes a brief summary of the IEC Site Audits and information supplied by KCRC on Public Consultation activities.

2 IEC monthly site audits

IEC monthly site audit was conducted on 18 December. Non-compliances and observations issued by the IEC are based on the requirements of KCRC's Environmental Management System.

2.1 Contract LCC206

Site audit was undertaken by the IEC on 18 December. The major construction activities had already been completed and only pumping test was undertaken during the audit. One observation recommending that the dry haul road and bare ground should be watered whenever necessary to control dust emissions was raised. As a result of the observation raised by the IEC, the Contractor proposed more regular water spraying. The implementation and effectiveness of the measure will be assessed and verified during the next site audit.

2.2 Contract LDB201

The IEC site audit for LDB201 was also undertaken on the same day. The major construction activities include the clearance of planters at East Approach – San Wan Road, ground treatment works at Sutlej Channel, site clearance at Dills Camp and demolition of guidewall for diaphragm wall construction at Sheung Shui Launching Shaft Area. No observation or non-compliance was raised during the site audit.

2.3 Contract LCC300

As no major construction works were carried out during December 2002, the first IEC site audit for this contract will be conducted in January 2003. The implementation of the ET Leader's recommendations on site installation and management will be inspected during the coming site audit.

3 Public Consultation

No information on Public Consultation was provided by KCRC in December.
