

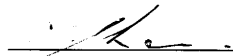
Mass Transit Railway Corporation Limited

Contract 5032 – Mong Kok Station New Integrated Entrance C3

Environmental Monitoring and Audit Report

(June 2003)

Certified:



(Dr. Kam Chan)

Position:

Environmental Team Leader

Date:

15 July 2003

Verified:



(Dr. Glenn Frommer)

Position:

Independent Environmental Checker

Date:

15 JUL 2003

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EXECUTIVE SUMMARY

This is the 3rd report prepared to document the environmental monitoring and audit works conducted for the modification works of Mong Kok Station under Contract 5032. Monitoring works for noise impact from the construction works were carried out during the period of June 2003. During this period, the major civil construction activities, including demolition of Entrance C3, concrete in-filling to Entrance C3 subway, sheetpiling works, placement of temporary road decks & drain pipe laying works were carried out.

With reference to the collected monitoring data and by field observation, environmental conditions of the construction site were said to be satisfactory in general. There were no limit level exceedance recorded in regular construction noise monitoring at the agreed sensitive receivers. In addition, no formal prosecution and complaint were received in this reporting period. The Contractor have provided reasonable effort to control the environmental impacts generated from the construction activities to the nearby surrounding.

As the concerned construction site is located in an urban area of Mong Kok, the noise and dust level are significantly affected by the busy traffic on Argyle Street and Portland Street and the works activities performed on the adjacent URA K2 Development site.

1 INTRODUCTION

1.1 Scope of the Report

The Environmental Team lead by the ET leader Dr. Kam Chan was responsible to provide baseline and impact environmental monitoring services for the Project and give advice to ER to supervise Contractor's performance on site environmental matters in order to comply with the requirements of the Project Profile, EM&A Manual and Environmental Permit approved by the Environmental Protection Department of HKSAR.

This is the 3rd impact monitoring report to cover the environmental monitoring works in the period of June 2003.

1.2 Structure of the Report

The structure of the report is as follows:

- Section 1: Introduction – details the scope and structure of the report.
- Section 2: Project Information – summarizes the scope of the construction activities in this monitoring reporting period and the coming month.
- Section 3: Impact Noise Monitoring – summarizes the monitoring programme, locations and results.
- Section 4: Compliance checking which compares the impact monitoring results with the A/L Levels to determine whether the construction activities have any adverse impacts on the environment and gives comment in order to alleviate those impacts.
- Section 5: Actions taken in events of noise level exceedance.
- Section 6: Construction wastes disposal.
- Section 7: Record of complaints from public & EPD.
- Section 8: Status of permits and licences obtained.
- Section 9: Action items for site audits recorded.
- Section 10: Conclusion.

2 PROJECT INFORMATION

2.1 Construction Programme

The construction for modifications to the existing Mongkok Station are scheduled to commence in April 2003 and to be completed in early 2005. MTRCL is responsible for overall programming of the construction works. It is recommended that the programming is such that environmental impacts are reduced as far as possible. Site location plan is shown on Appendix A EMOKC3-001.

2.2 Construction Activities

Major site activities carried out by the Contractor during this monitoring period include the following:-

- Implementation of TTM.
- Demolition of Entrance C3 structure (lower portion).
- Placement of temporary road decks.
- Trial hole excavation for king post installation.
- Works for concrete in-filling to Entrance C3 subway.
- Sheetpiling for underground construction.
- Drain pipe laying works.

Scheduled major site activities carried out by the Contractor in the next reporting period are as follows:-

- Continue demolition of Entrance C3 structure (lower portion).
- Continue placement of temporary road decks.
- Commence sheetpiling works for underground construction.
- Continue drain pipe laying works.
- Continue implementation of TTM.
- Commence installation of king posts.

3 **IMPACT NOISE MONITORING**

3.1 **Monitoring Parameters**

During this monitoring period, regular noise monitoring were made once a week at logging interval of 5 minutes in 30 minutes. 5 sets of 5 minutes average of Leq, L10 and L90 (in A-Weighting) were taken at N1MOKC3 and N2MOKC3.

3.2 **Monitoring Locations**

Noise

Noise monitoring was undertaken at the following locations:

N1MOKC3 Residential Building at 43-49A Argyle Street (Argyle House)
N2MOKC3 Residential Building at 35-37A Argyle Street

Location of the above agreed monitoring stations are shown on Appendix A Figure EMOKC3-001.

3.3 **Monitoring Time, Frequency, Duration and Weather**

Noise

Noise monitoring was performed once every six days. Below is the time schedule that noise monitoring was performed in this monitoring period.

Location	Date and Time of Monitoring		Climate
N1MOKC3 (Argyle House)	5/6/03	2:03pm	Clear
	13/6/03	10:25am	Cloudy
	18/6/03	1:24pm	Cloudy
	26/6/03	2:32pm	Clear
	30/6/03	2:25pm	Clear
N2MOKC3 (Residential Bldg 35-37A Argyle Street)	5/6/03	2:51pm	Clear
	13/6/03	11:09am	Cloudy
	18/6/03	2:11pm	Cloudy
	26/6/03	1:39pm	Clear
	30/6/03	1:45pm	Clear

3.4 **Monitoring Schedule for Next Month**

Noise monitoring at N1MOKC3 and N2MOKC3 will be performed on 7, 14, 21 & 28 July 2003.

3.5 Monitoring Results

Noise

A summary of the results (Leq30min) recorded during this monitoring period is shown in following table. Relevant details of the noise monitoring results and graphic plots are presented in Appendix B. Having compared the results with the limit levels, no exceedance were found.

Summary of Noise Monitoring Results measured in 30 minutes and dBA

Location	N1MOKC3 (Argyle House)						
	Date	Leq (30 min)	Leq corrected (30 min)	L10(30min)	L90(30min)	Allowable limit (30min)	Exceedance
	5/6/03	76.6	74.7	79.5	69.5	75	N
	13/6/03	74.1	69.2	75.8	69.8	75	N
	18/6/03	74.7	72.7	77	70.5	75	N
	26/6/03	73.9	69.4	75.5	70.4	75	N
	30/6/03	73.2	67	74.5	71	75	N
	N2MOKC3 (Residential Building at 35-37A Argyle Street)						
	5/6/03	75.6	****	77.5	72	75	N
	13/6/03	76.5	68.7	76.8	70.5	75	N
	18/6/03	76.1	66.5	77.5	72	75	N
	26/6/03	75.7	****	76.5	72.5	75	N
	30/6/03	78.7	75.4	81.5	73.1	75	N

Note:- **** measured noise level Leq(30min) less than or equal to background noise.

Leq(30min) corrected Measured noise level Leq(30min) with background correction.

4 ASSESSMENT AND AUDIT RESULTS

With reference to the monitoring results obtained, there was no exceedance of limit level occurred in noise monitoring taken during this reporting period. Levels of the construction noise recorded at the agreed NSRs in this reporting period are in average lower than the allowable limit. By site observations, the major noise sources mainly came from the busy traffic on Argyle Street and Portland Street, the construction activities in URA K2 Development site and the Project construction activities. The Contractor have provided reasonable monitoring and supervision to control the construction noise generated from the construction site.

5 ACTION TAKEN IN EVENT OF CONSTRUCTION NOISE LEVEL EXCEEDANCE

There was no exceedance recorded during regular noise monitoring recorded at the agreed NSRs during this reporting period hence no actions were required to take.

6 CONSTRUCTION WASTE DISPOSAL

Certain amount of excavated material and concrete debris were generated from the construction activities during this reporting period. The Contractor have to set up implementation of the delivery trip ticket system for waste disposal.

	Amount of Construction Wastes Disposed		
	Inert Waste (to PPE) (m ³)	Non-inert waste (to Landfill) (m ³)	Chemical waste (trip)
April 2003	0	0	0
May 2003	78	0	0
June 2003	148	0	0
Accumulated total since April 2003	226	0	0

7 **RECORD OF COMPLAINTS FROM PUBLIC & EPD**

No complaint was received during this monitoring period.

Formal complaint				
	Air	Noise	Water	Others
April 2003	0	0	0	0
May 2003	0	0	0	0
June 2003	0	0	0	0
Accumulated total since April 2003	0	0	0	0

8 **STATUS OF PERMITS AND LICENCES OBTAINED**

No new environmental permit/licence was obtained by the Contractor during this reporting period.

Type	Reference No.	Commencement Date	Expired Date	Remarks
Chemical waste disposal	WPN5117-229-K2801-01	29/4/03	end of the Project	
Waste water disposal	EP482/229/0302/1	30/4/03	31-5-2008	

9 ACTION ITEMS FOR SITE AUDITS IN PAST MONTH

During this monitoring period, regular weekly joint site audits lead by the senior of MTRC and the Contractor were taken. The Contractor's performance on the environmental matters were assessed and concerned items were raised for rectification. Status of required actions taken by the Contractor can be summarised as follows.

	Description	Status
1.	The Contractor reminded to have regular check on site to ensure the compliance of relevant environmental regulations, permits and licence	On going
2.	The Contractor reminded to remove the accumulated construction debris off site as soon as practical.	On going
3.	The Contractor reminded to place the movable noise barrier as close as possible to the breaker head during road slab breaking	On going
4.	The Contractor reminded to provide proper desilting tank for site water discharging to public drain services.	Done
5.	The Contractor reminded to replace the displayed EP damaged by inserting rain water.	Done

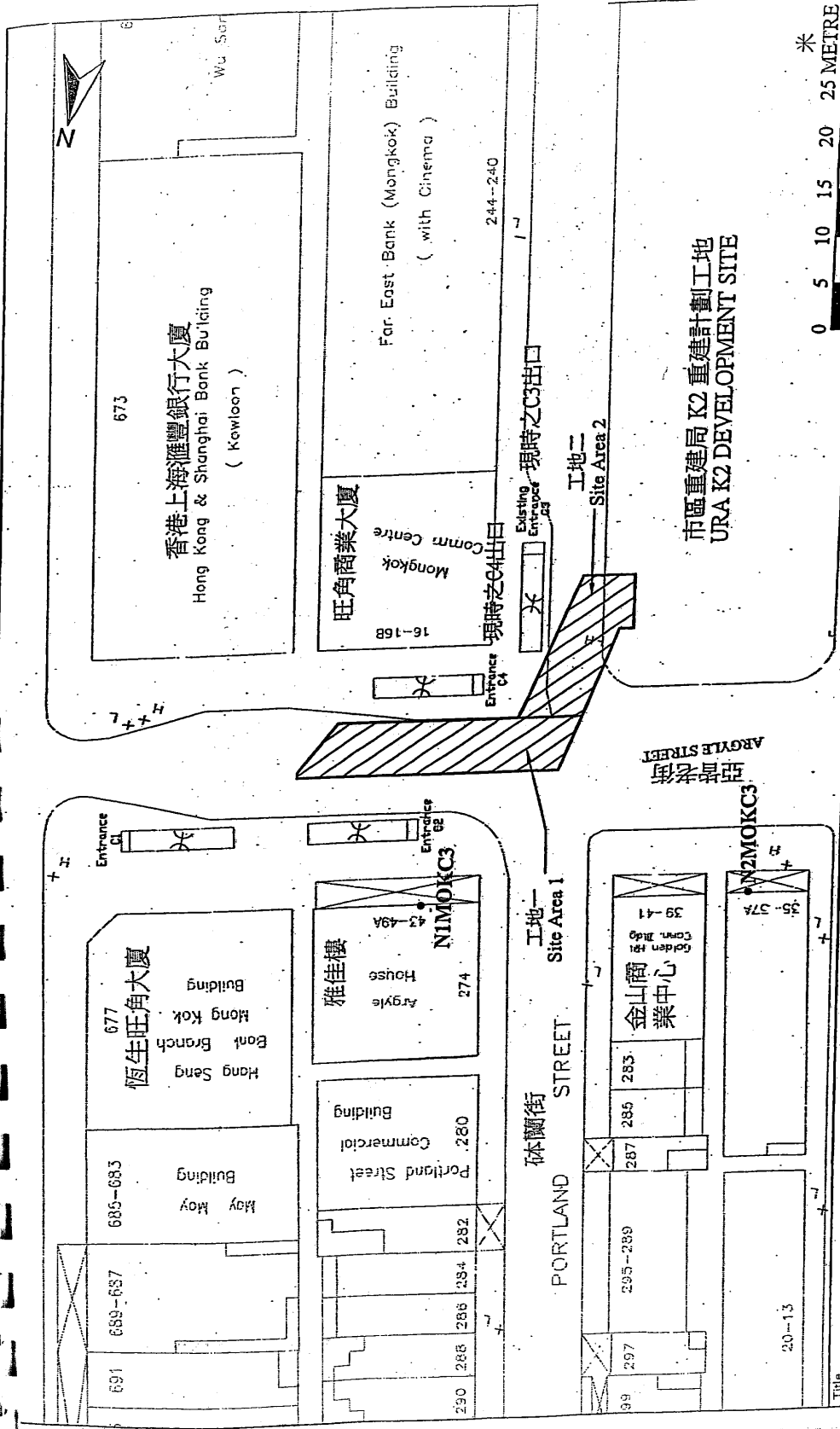
10 CONCLUSION

Major civil activities including demolition of Entrance C3, placement of temporary road decks, concrete infilling for Entrance C3 subway, drain pipe laying, sheetpiling works were carried out by the Contractor during this reporting period. Regular meetings and joint site audits lead by the seniors for discussing site environmental matters were held to resolve the site environmental problems.

By field observation, the environmental pollution control measures provided by the Contractor were generally acceptable. The construction noise levels recorded during the reporting period were in average below the allowable limits. No formal complaint and prosecution obtained in this monitoring period. Concerned site environmental items raised have been followed by the Contractor in a reasonable time.

Appendix A

- Reference Figures



0 5 10 15 20 25 METRE
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Title		Scale	
MONG KOK STATION INTEGRATED ENTRANCE C3		As Shown	
LOCATIONS OF NOISE SENSITIVE RECEIVERS		Date	Dec 2002
		Figure No.	EMOKC3-001

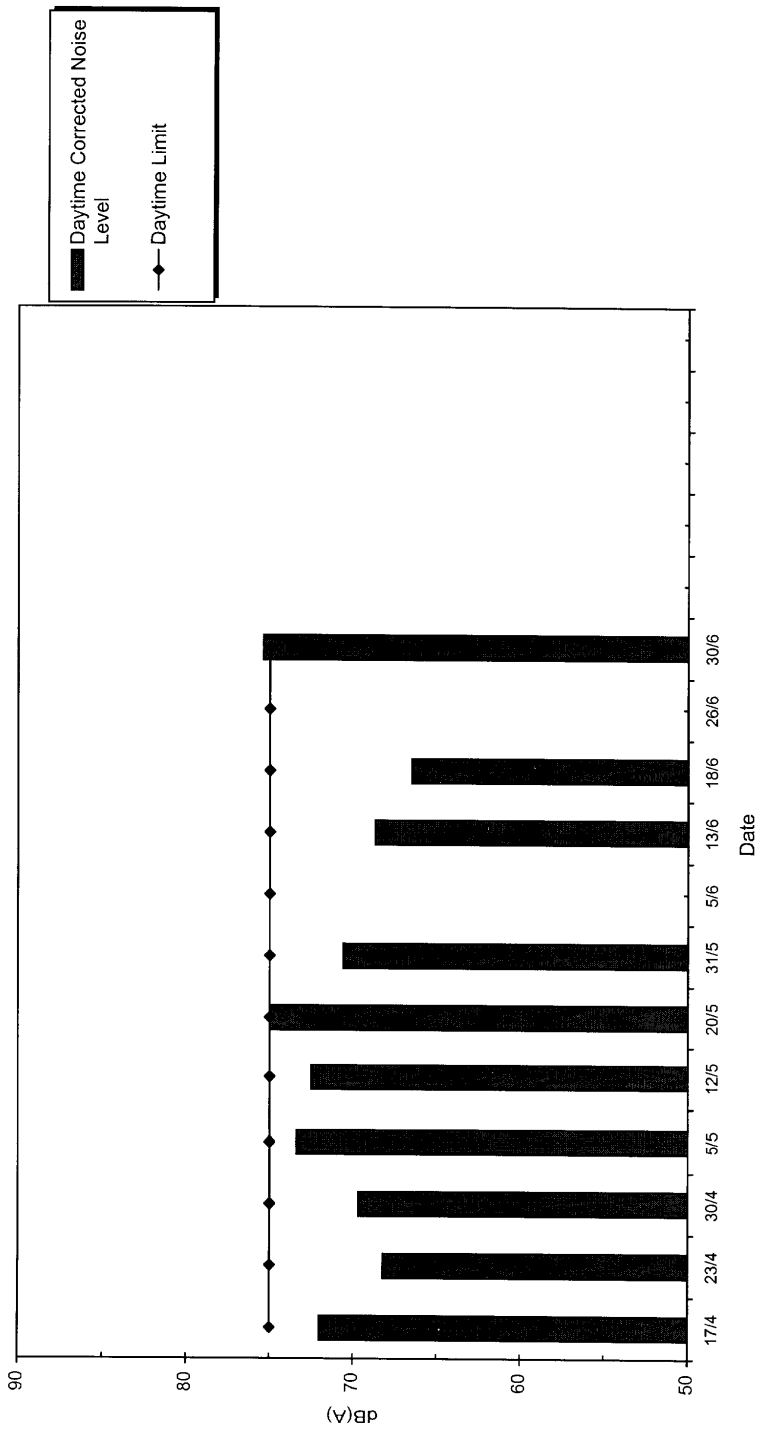
Mainsell
PLANNING CONSULTANTS
MANAGEMENT CONSULTANTS LTD

SCALE: 1:1000 (AS SHOWN)

Appendix B

- Environmental Monitoring
Data

C5032 - Noise Level at Monitoring Station N2MOKC3 (June 03)



C5032- Noise Level at Monitoring Station N1MOKC3 (June 03)

