$\label{eq:MTRC-Lai} \begin{array}{c} MTRC-Lai \ Chi \ Kok \ Station \\ Cheung \ Lai \ Street \ Pedestrian \ Subway \ and \ Entrance \ Works \\ 10^{th} \ Monthly \ EM&A \ Report \end{array}$

MTR Corporation Limited

MTR Lai Chi Kok Station Pedestrian Subway and Entrance Works

Monthly Environmental Monitoring & Audit Report

16 May 2008 – 15 June 2008

Environmental Pioneers & Solutions Limited

8/F, Chaiwan Industrial Centre Building20 Lee Chung Street, Chaiwan, Hong KongTel: 2889 0569 Fax: 2856 2010

MTR Lai Chi Kok Station

Cheung Lai Street Pedestrian Subway & Entrance Works

Environmental Permit No. EP - 253/ 2006

MTR Lai Chi Kok Station Cheung Lai Street Pedestrian Subway & Entrance Works

Submission Document Title: Environmental Permit Conditions - Monthly EM&A Report

Environmental Permit No.: EP-253/ 2006 Independent Environmental Checker Ref: EP2532006-LCK-IEC-013

According to Permit Condition 1.9 of the above Environmental Permit, the titled document(s) certified by the Environmental Team Leader has been checked and verified by the undersigned.. The document is considered to be in environmental acceptable manner.

Verified by:

nn trommer

Dr. Glenn H Fyommer Head of Sustainability Development of MTR Corporation

2 7 JUN 2008 Date

APPROVAL SHEET

Prepared and Certified by: ET Leader (En	nvironmental Pioneers & Solutions Limited)
Signature: Miss Patricia Chung	Date: 2 7 JUN 2008
Č	
(ET Leader)	

* ET - Environmental Team

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EXECUTIVE SUMMARY

This is the tenth Monthly Environmental Monitoring and Audit (EM&A) Report for "MTRC Lai Chi Kok Station Pedestrian Subway and Entrance Works". The Report concludes the impact monitoring and audit works for the construction works undertaken during the period of 16 May to 15 June 2008. The major construction activities in this reporting month include 1800mm dia sewer diversion works, sheetpiling and temporary support for subway construction, construction of fresh air intake shaft, backfilling, utility diversion works and temporary road diversion.

Impact monitoring for noise was conducted in this reporting period. There was no exceedance of action and limit levels recorded at the agreed sensitive receivers. There was one formal public concern on site dust emission with a reasonable follow up taken properly in accordance with the complaint response procedure in the EM&A manual. The contractor's performance on environmental issues was considered in general satisfactory.

1 INTRODUCTION

This is the 10th Monthly Environmental Monitoring and Audit (EM&A) Report for "MTRC Lai Chi Kok Station Pedestrian Subway and Entrance Works" (Environmental Permit No. EP-253/2006). The Report concludes the impact monitoring and audit works for the construction works undertaken during the period of 16 May to 15 June 2008.

2 PROJECT INFORMATION

2.1 Construction Program

Civil construction of the whole subway would take approximately 30 months to complete. The construction sites are mainly located at Cheung Lai Street, a section of Lai Chi Kok road near West Kowloon Corridor and a section of Cheung Sha Wan Road. The overall construction works of the project are currently on progress.

Construction of the subway would be carried out simultaneously by cut and cover method. Vertical open cut areas would be provided in phases to suit the project progress and laterally supported by sheetpile walls for temporary road decks construction. In order to maintain existing traffic flows at Lai Chi Kok Road, Cheung Sha Wan Road and Cheung Lai Street, temporary road decks would be provided as soon as possible. This would also act as a screen to minimize the nuisance to the public and pedestrian during construction of the subway structures. All excavation and construction of the subway and its ancillary underground structures would be carried out underneath the road decks thereby minimizing environmental impacts. At-grade access points would be provided for transportation of material/spoil and workers' access during implementation of the underground subway construction works. Once the construction of the subway structure is completed, the work areas would be backfilled and the road surface will be reinstated.

Site location plan is shown in Appendix 1. The construction programme is shown below.

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Activities			Mor	nth		
	Aug - Dec 07	Jan-May 08	Jun-Oct 08	Nov08 -Mar09	Apr-Aug 09	Sept 09 - Jan 10
1800 Ø Sewer Diversion of Lai Chi Kok Sewer						
Construction of Subway - Sheet Piling works & Temporary Support						
- Excavation works						
- Formwork & Concreting						
- Decoration Works						
- Backfilling & Reinstatement						
Construction of smoke extraction air shaft						
Construction of fresh air intake shaft						
Construction of subway entrance D1						
Construction of subway entrance D2						
Construction of subway entrance D3 inside Liberte						
Construction of subway entrance D4 inside The Pacifica						

2.2 Construction Activities in the Past Month

Major construction activities carried out by the contractor during this reporting period include:

1800 dia sewer diversion of Lai Chi Kok Sewer

- Construct 1800 dia sewer manhole (FM-2) and backfilling for future diversion connection.

Construction of ventilation ducts and shafts

- Make good finishing for fresh air ventilation shaft below West Kowloon Corridor.

Construction of subway

- Install road deck panels for temporary road diversion at north lane of Cheung Yee Street.
- Drive sheet piles at Cheung Lai Street between Cheung Shun Street and Cheung Yee Street.

- Install decking beams and panels for subsequent subway construction at the fast-lane of Lai Chi Kok Road (Eastbound).

2.3 Construction Activities for the Coming Month

Major construction activities by the contractor anticipated for the coming month include:

1800 dia sewer diversion of Lai Chi Kok Sewer

- Construct 1800mm dia sewer manhole (FM-1) and (FM-2) for the sewer diversion under West Kowloon Corridor.
- Make good internal lining of the existing 1800mm dia. sewer.

Construction of ventilation ducts and shafts

- Drive sheet piling for fresh air ventilation duct construction under West Kowloon Corridor.

Construction of subway

- Continue driving sheet piles at Cheung Lai Street between Cheung Shun Street and Cheung Yee Street.
- Continue trench excavation, driving sheet piles and temporary road deck installation for the subsequent subway construction at mid-lane of Lai Chi Kok Road.

3 Noise Monitoring

3.1 Monitoring Methodology

In accordance with the EM&A Manual, the construction noise level is measured in terms of A-weighted equivalent continuous sound pressure level (L_{Aeq}). During normal construction working hours (0700-1900 Monday to Saturday), monitoring of $L_{Aeq, 30min}$ noise levels (as six consecutive $L_{Aeq, 5min}$ readings) was carried out once every week.

3.2 Equipment Used and Calibration Details

Impact noise monitoring was conducted using SVAN sound analysis equipment – SVAN 949, which complied with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1 985 (Type 1) Specifications as referred to in the Technical Memorandum to the Noise Control Ordinance. The equipment were calibrated and verified by certified laboratory or manufacturer every two years to ensure they perform to the same level of accuracy as stated in the manufacturer's specification. Before and after each measurement, the reading of sound level meter was checked with the acoustic calibrator and the measurement agreed to within 1.0 dB. Free field and weatherproof microphone was extended 1m from the exterior of the sensitive receivers building façade and with an unobstructed field of view of the proposed construction site. Measurements were recorded to the nearest 0.1 dB.

3.3 Monitoring Station

In accordance with the EM&A Manual, monitoring stations were established at 2 locations, which are summarized in Table 3.1 and depicted in Appendix 1.

Sensitive Receiver No.	Location
R1	Podium, Block 7, Liberte
R2	Podium, Tower 1, The Pacifica

Table 3.1 – Noise Monitoring Stations

3.4 Monitoring Results

The results are presented in the Table 3.2. Relevant details of the noise monitoring results, graphic plots calculation reference are presented in Appendix 2 and 3. The results, ranged between 57.7 dB(A) and 74.2 dB(A), were within the limit levels and therefore, no exceedance was found.

				Measured	Baseline	Corrected		
Location	Parameter	Time	Date	Leq	Noise Level	LAeq*	Limit	Exceedance
R1	Leq30min	14:15	19-May-08	74.1 dB(A)	74 dB(A)	57.7 dB(A)	75 dB(A)	Ν
R1	Leq30min	14:07	26-May-08	75.2 dB(A)	74 dB(A)	69.0 dB(A)	75 dB(A)	Ν
R1	Leq30min	14:24	2-June-08	77.1 dB(A)	74 dB(A)	74.2 dB(A)	75 dB(A)	Ν
R1	Leq30min	11:09	10-June-08	76.2 dB(A)	74 dB(A)	72.2 dB(A)	75 dB(A)	Ν

Table 3.2 – Noise monitoring results for the reporting month

R2	Leq30min	13:25	19-May-08	76.1 dB(A)	74.3 dB(A)	71.4 dB(A)	75 dB(A)	Ν
R2	Leq30min	13:17	26-May-08	75.4 dB(A)	74.3 dB(A)	68.9 dB(A)	75 dB(A)	Ν
R2	Leq30min	13:43	2-June-08	76.4 dB(A)	74.3 dB(A)	72.2 dB(A)	75 dB(A)	Ν
R2	Leq30min	10:27	10-June-08	76.2 dB(A)	74.3 dB(A)	71.7 dB(A)	75 dB(A)	Ν

*Corrected to baseline background level

Measured Leq is lower than baseline noise measurement

Action and Limit levels and the associated Event/ Action Plan in event of exceedence are summarized in Table 3.3 and 3.4, respectively.

Table 3.3 – Action and Limit Levels for Construction Noise at Sensitive Receivers R1 and R2

Time Period	Action	Limit
Daytime	When one	75 dB(A)
0700 – 1900 hrs on normal weekdays	documented	
0700 – 2300hrs on holidays; and 1900 – 2300 hrs on all	complaint is	Subject to the control of
other days	received	Noise Control Ordinance
2300 – 0700 hrs of next day		Subject to the control of
		Noise Control Ordinance

		Action		
Event	ET Leader	IEC	RE	Contractor
Action Level	 Notify IEC, RE and the Contractor. Carry out investigation. Report the results of investigation to IEC,RE and the Contractor. Discuss with the RE and the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation measures. 	 Review with analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise RE accordingly. Supervise the implement of remedial measures. 	 Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	 mitigation proposals to RE / ET. Implement noise mitigation proposals.
Limit Level	 Identify the source. Notify IEC, RE, EPD and the Contractor. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, RE, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and RE informed of the results. If exceedance stops, cease additional monitoring 	 Discuss amongst RE, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise RE accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to RE and IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the RE until the exceedance is abated.

 Table 3.4 - Event/Action plan for construction noise

3.5 Monitoring Schedule for Next Reporting Period

Noise monitoring in the next reporting period is scheduled for 16th, 23rd, 30th June 2008, as well as 7th and 14th July 2008.

Site inspection schedule for the next reporting period is designated on 16th, 30th June 2008 and 7th July 2008.

4 ACTION TAKEN IN EVENT OF EXCEEDENCE

There were no exceedance recorded during this reporting period, therefore no actions were taken.

5 CONSTRUCTION WASTE DISPOSAL

Dumping locations for disposal of C&D wastes from the construction site were appointed and allocated by EPD/CEDD. The contractor has implemented the delivery trip ticket system for recording the waste disposal to the public fill and landfill areas. Excavated materials are reused as back-fill material to balance cut and fill and hence reduce the generation of materials. Table 5.1 is a summary of updated figures of the construction wastes disposal provided by the Contractor. The relevant disposal records are kept in Contractor's site office for inspection.

	Amount of Construction Waste disposed						
	Inert Waste (to Public Fill) (tonnes)	Non-inert Waste	Chemical Waste (trip)				
16 August 07 to 15 September 07	963.75	34.8					
16 September 07 to 15 October 07	1220.02	0					
16 October 07 to 15 November 07	186.89	0					
16 November 07 to 15 December 07	136.7	0	13				
16 December 07 to 15 January 08	698.2	102.3	0				
16 January 08 to 15 February 08	586.1	0	0				
16 February 08 to 15 March 08	322.9	0	0				
16 March 08 to 15 April 08	136.71	0	0				
16 April 08 to 15 May 08	239.28	0	0				
16 May 08 to 15 June 08	0	0	0				
Total	4490.55	137.1	13				

Table 5.1 Summary of Construction Waste Disposal

6 COMPLAINT LOG

	Air	Noise	Water	Others
16 August 07 to 15 September 07	0	0	0	0
16 September 07 to 15 October 07	0	0	0	0
16 October 07 to 15 November 07	0	0	0	0
16 November 07 to 15 December	0	0	0	0
07				
16 December 07 to 15 January 08	0	0	0	0
16 January 07 to 15 February 08	0	0	0	0
16 February 07 to 15 March 08	0	0	0	0
16 March 07 to 15 April 08	0	1	0	0
16 April 07 to 15 May 08	1	0	0	0
16 April 07 to 15 May 08	1	0	0	0
Total	2	1	0	0

Table 6.1 Summary of Formal Complaints received

A tenant showed a concern on dust emission from the construction activities on Cheung Lai Street. The compliant was received by Environmental Team on 26th May 2008 via EPD. Proper follow up was taken by Resident Engineer/ Contractor/ Environmental Team and Independent Environmental Checker for investigation and resolution. The Contractor has agreed to carry out mitigation measures to resolve the incident. The details can be referred to the complain report and log in Appendix 4, as well as the Environmental follow-up Action Photos in Appendix 5.

7 STATUS OF PERMITS AND LICENSES OBTAINED

Table 7.1 is the updated status of environmental related permits/ license obtained for the construction activities. Construction Noise Permit is renewed in the reporting month.

Description	License / Permit No.#	Date of Issue	Date of Expiry	Remarks
Environmental Permit	EP-253/2006	11 Aug 2006		
Registration of C&D Waste Producer	7005542	1 Jun 2007		
Chemical Waste Producer	5214-264-K2869-08	08-May 2007		
Construction Noise Permit	PP-RW0002-08	6 Feb 2008	14 Aug 2008	
Effluent Discharge License	EP760/264/0124051	24 July 2007	31 July 2012	

Table 7.1 Status of Permits and Licenses Obtained

8 SITE INSPECTION AND AUDITS

During the reporting period, regular bi-weekly joint site inspections led by senior staffs from MTR, Residential Engineer, Contractor and the ET were carried out. The Contractor's performance on the environmental matters was assessed and concerned items were raised for rectification. Inspection findings from the reporting period are summarized as follows:

Item	Observations/ Description	Status
1	The Contractor was reminded to have regular check on site to ensure the compliance of relevant environmental regulations, permits and licenses.	Ongoing
2	The Contractor was reminded to ensure all required construction noise mitigation measures to be followed properly.	Ongoing
3	The Contractor was reminded to keep the site works area and site office tidy as good housekeeping.	Ongoing
4	The Contractor was reminded to implement proper noise mitigation measures to shield the noise parts of circular saw, handheld breaker and vibratory hammer during construction.	Ongoing
5	The Contractor should regularly review the condition of hoardings for Cheung Lai Street site area.	Ongoing
6	The Contractor was reminded to prevent the possible oil leak from fuel containers and the stationery plants by providing drip trays or similar.	Ongoing
7	The Contractor was reminded to have regular check on the potential black smoke from working plants	Done
8	The Contractor was reminded to have close monitoring on the dust pollution at Cheung Lai Street.	Done
9	The Contractor was reminded to properly locate the oil drum in use inside in the drip pan at the site under West Kowloon Corridor.	Done

Table 8.1 Summary of inspection findings

.

9 CONCLUSION

In this reporting month, construction activities for this project "MTRC Lai Chi Kok Station Pedestrian Subway and Entrance Works" included 1800mm dia sewer diversion works, sheetpiling and temporary support for subway construction, construction of smoke extraction air shaft and fresh air intake shaft, utility diversion works and temporary road diversion. Regular monthly meetings and weekly site audits, led by the seniors and attended by representatives of RE, ET, IEC and the Contractor, were held for discussing site environmental related issues. Concerned site environmental items raised during the audits were generally followed up by the Contractor for rectification. The overall environmental pollution control measures provided by the Contractor were considered satisfactory. Noise levels recorded during the monitoring period were within limits. There was one public concern on dust emission recorded that had been handled properly in accordance with the complaint response procedure in the EM&A Manual. The contractor has also been reminded to take serious notice on the public concern and always provide and maintain proper mitigation measure and always keep good management at site. The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements.

APPENDIX 1 – REFERENCE FIGURES

Figure 1 Project Construction Area

Figure 2 Noise Monitoring Stations

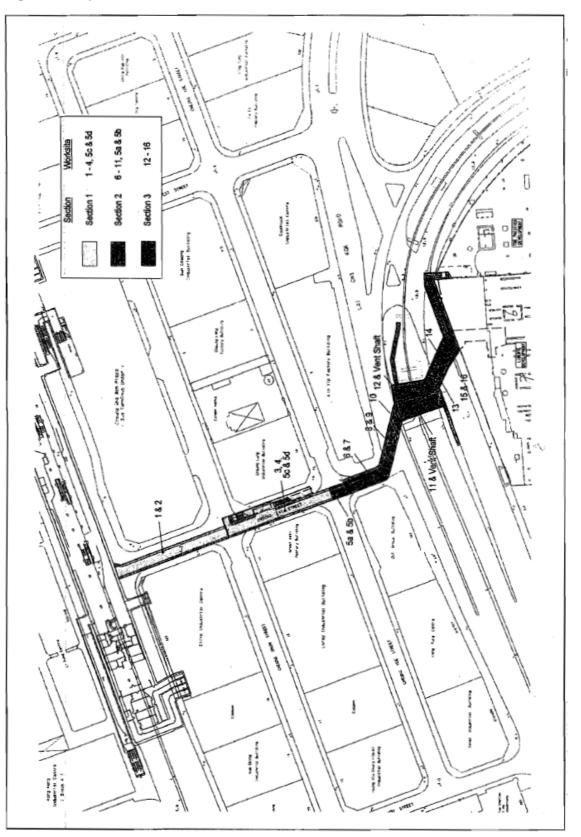


Figure 1 Project Construction Area

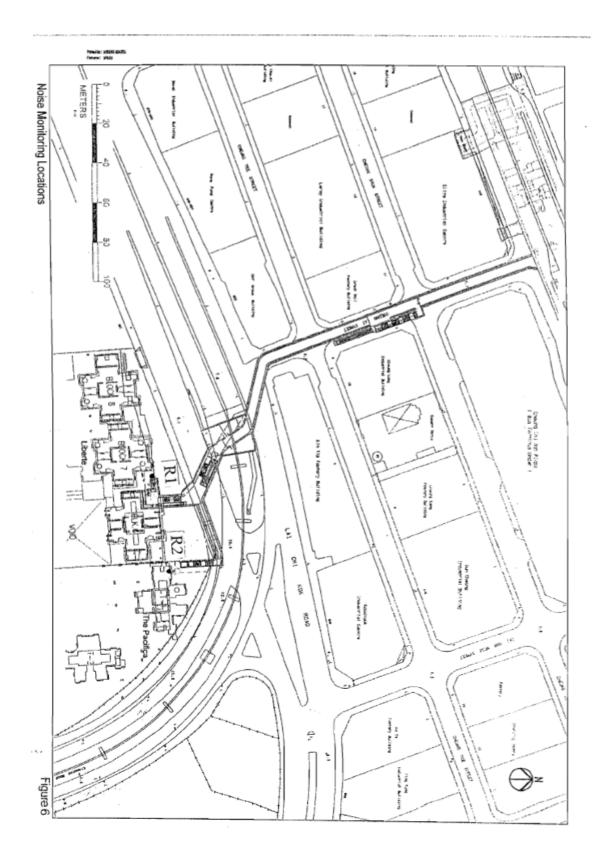
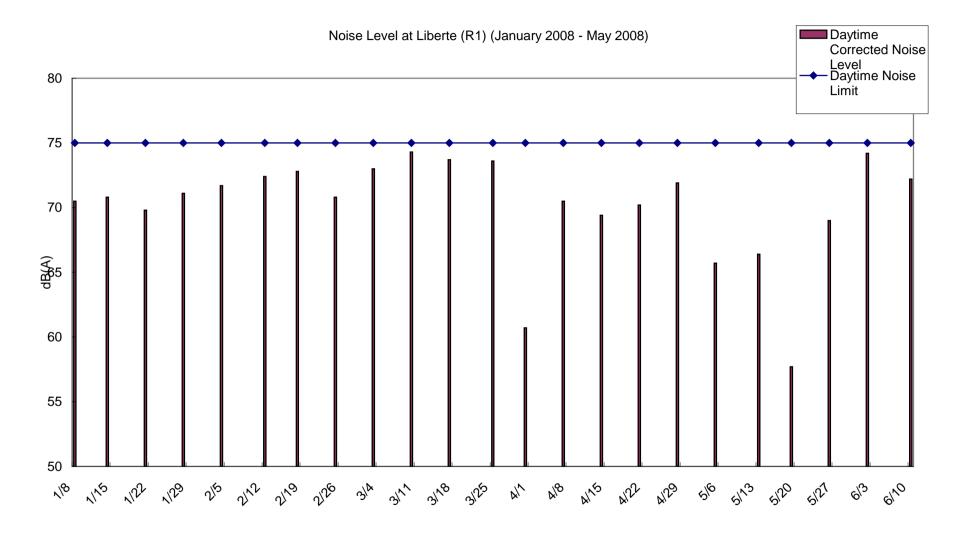


Figure 2 Noise Monitoring Stations R1 and R2

 $\label{eq:MTRC-Lai} \begin{array}{c} MTRC-Lai\ Chi\ Kok\ Station\\ Cheung\ Lai\ Street\ Pedestrian\ Subway\ and\ Entrance\ Works\\ 10^{th}\ Monthly\ EM&A\ Report\\ \end{array}$

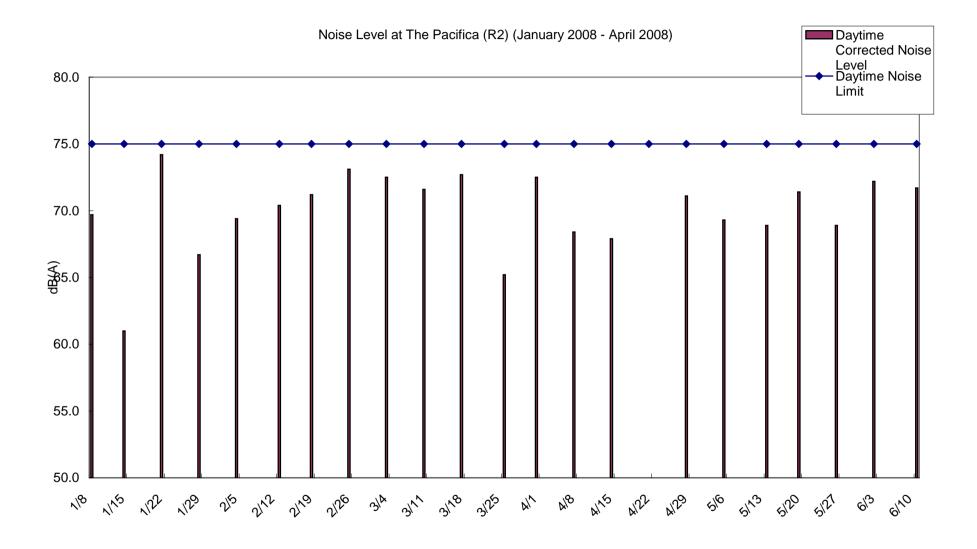
APPENDIX 2 – Environmental Monitoring Data / Charts

 $\begin{tabular}{ll} MTRC-Lai \ Chi \ Kok \ Station \\ Cheung \ Lai \ Street \ Pedestrian \ Subway \ and \ Entrance \ Works \\ 10^{th} \ Monthly \ EM&A \ Report \end{tabular}$



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APPENDIX 3 – Noise Monitoring Data Sheet and Calculation

Calculations and Equations:

The 30minutes A-weighted equivalent continuous sound pressure level ($L_{Aeq, 30min}$) is calculated by geometric mean from 6 consecutive $L_{Aeq, 5min}$ readings:

$$L_{Aeq, 30min} = 6^{th} root of (L1)(L2)...(L6)$$

Where: L1~6 is the 6consecutive $L_{Aeq, 5min}$ readings

And the equation of the Baseline correction:

$$10\log(10^{\text{Laeq}/10}-10^{\text{Lb}/10})$$

Where:

 L_{aeq} is the $L_{Aeq, 30min}$ from the geometric mean of 6 consecutive L_{eq5min} results Lb is the baseline noise level.

Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte				
Sampling Date		19 May 2008				
Sampling Time		1415-1445				
Weather Condition		Cloudy				
aseline Noise Level dB(A)		74.0				
	Leq, dB(A)	74.1				
Monitoring Results	L10, dB(A)	75.5				
_	L ₉₀ , dB(A)	71.6				
Calibration before Measurement	dB(A)	94.0				
Calibration after Measurement	dB(A)	94.0				
Observation(s)						
Transportation noise by public transp Remarks N/A	portation					

With Baseline Correction :

57.7 dB(A)

Recorded by : Stephen Tsang

Date : 19 May 2008

								14. (1. C	6.5
	L Aeq	74.9	73.8	73.0	74.4	73.4	75-1	7 LA. 4 -	2 - 06 7 4	30-14 10 = 76.5
	L90	12.2	71.5	71.3	21.5	71.3	71-6	30	30,	30,
Recorded by:	L10	76-6	75.0	74.3	76.7	74.8	75.4			
	Lmin	68.4	69.6	69.7	70.3	69.5	1.02			
cloudy	Lmax	30.6	89.3	C.48	87.6	80.9	84.9		÷	
Weather:	Comment/Source									
dBA	Time/H Duration Min.	2:15 - 2:20	2:20-2:25	5: 25- 2.30	2:30-2:35	2:35-2:40	22:40-2:45			
equency weightings: _	Location	RI-Liberte								
Ϋ́	Date	19-5-2008								
	Frequency weightings:dBA Weather:C [ou d Recorded by:	Frequency weightings: dBA Weather: Clow dev Recorded by: Location Time/H Comment/Source L _{max} L _{min} L ₁₀ L ₉₀	Frequency weightings: dBA Weather: Clouder Recorded by: Location Time/H Comment/Source Lmax Lmin L10 L00 Bey Ri-Liberte 2:15-2:20 90.6 68-4 76-6 72.2	Weather: C [C_{u_1} d_{-} Recorded by: Comment/Source L_{max} L_{min} L_{10} L_{90} 90.6 68.4 76.6 $72.289.3$ 69.6 75.0 71.5	Weather: C [$C_{\rm Ur}$ d_{-} Recorded by: Comment/Source $L_{\rm max}$ $L_{\rm min}$ L_{10} L_{00} L_{00} 30.6 6 $8-4$ $76-6$ $12.289.3$ 69.6 75.0 $71.584.7$ 69.7 74.3 71.5	Weather: C (cu, d-/ Recorded by: Comment/Source Lmax Lmin Lio Loo 70.6 68.4 76.6 72.2 89.3 69.6 75.0 71.5 87.6 76.7 71.5 87.6 76.7 71.5	Weather: C [C u, d -/ Recorded by: Comment/Source L _{max} L _{min} L ₁₀ L ₉₀ 70.6 68.4 76.6 72.2 89.3 69.6 75.0 71.5 87.6 70.3 76.7 71.5 87.6 76.7 71.5 71.5 80.7 69.5 74.8 71.5	Weather: C [C_{U_1} d_/ Recorded by: Comment/Source L _{max} L _{min} L ₁₀ L ₉₀ 70.6 68.4 76.6 72.2 75.0 71.5 89.3 69.6 75.0 71.5 76.7 71.5 87.6 70.3 76.7 71.5 76.7 71.5 87.6 70.3 76.7 71.5 76.7 71.5 87.6 70.3 76.7 71.5 76.7 71.5 87.6 70.3 76.7 71.5 71.5 71.5 87.9 69.7 69.5 74.8 71.5 71.5 84.9 70.1 75.4 71.5 71.5	Weather: C [C u, d -/ Recorded by: Comment/Source L_{mix} L_{min} L_{10} L_{00} 90.6 68.4 76.6 72.2 89.3 69.6 75.0 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5	Weather: C [Cu, d-/ Recorded by: Comment/Source Lmix Lmin Lio Loo 90.6 68.4 76.6 72.2 89.3 69.6 75.0 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5 87.6 70.3 76.7 71.5

NOISE MEASUREMENT RECORD

SUMMARY

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Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica				
Sampling Date		19 May 2008				
Sampling Time		1325-1355				
Weather Condition		Cloudy				
Baseline Noise Level	dB(A)	74.3				
	Leq, dB(A)	76.1				
Monitoring Results	L10, dB(A)	78				
	L ₉₀ , dB(A)	73.6				
Calibration before Measurement	dB(A)	94.0				
Calibration after Measurement	dB(A)	94.0				
Observation(s)						
Hammering noise by (Hammer x 1) Transportation noise by public transo Remarks	portation.					
N/A	×	· · ·				

With Baseline Correction :

71.4 dB(A)

Recorded by : Stephen Tsang

Date : 19 May 2008

.

Durin Lgo = 73.6 2041 L 10= 78.0 30 millArg= 76-5 76.5 L Acq 75. 6 76. 75. 2 5 5 72.7 74.5 73.0 2° 74. 3 74 ٢ Recorded by: 8 σ 5.2 0 s L10 77. 76. 78. ſ r 5 72.4 σ + t ٢ 6 Lmin 6, '19 0 p ř ف ٢ Weather: Clou 34 88.8 81.8 84.3 L max 80. 25 2 ò Comment/Source dBA Time/H Duration Min. 1=40-1=45 1:50 - 1:55 1:35-1:40 1:45-1:50 1:30-1:35 1:25-1:30 Frequency weightings: 19-5-2018 R2- Pacifica Location Date

NOISE MEASUREMENT RECORD

SUMMARY

 $\label{eq:MTRC-Lai} \begin{array}{c} MTRC-Lai \ Chi \ Kok \ Station \\ Cheung \ Lai \ Street \ Pedestrian \ Subway \ and \ Entrance \ Works \\ 10^{th} \ Monthly \ EM&A \ Report \end{array}$

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Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte			
Sampling Date		26 May 2008			
Sampling Time		1407-1437			
Weather Condition		Cloudy			
Baseline Noise Level	dB(A)	74.0			
	Leq, dB(A)	75.2			
Monitoring Results	L10, dB(A)	76.9			
	L ₉₀ , dB(A)	72.8			
Calibration before Measurement	dB(A)	94.0			
Calibration after Measurement	dB(A)	94.0			
Observation(s)					
Transportation noise by public trans					
Remarks					

With Baseline Correction :

69.0 dB(A)

Recorded by : Stephen Tsang

Date : 26 May 2008

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SUMMARY

Weather: OVEN CASE

Recorded by: Stephen Tsang

dBA
rrequency weightings:

Location	Time/H Duration Min.	Comment/Source	L max	Lmin	L10	L90	L Acq
265-2008 RI Liberte	10 1407-1412		80.5	69.1	76.3	72.(	74.5
	L141 - 2141		19.1	L.OL	76.1	72.5	74.6
	1417-1422		80.08	11,4	77.0		75.4
	L241-2241		0.4.8	11-12	77.8		- 5
	2641-1241		86.3	70.4	17.1	13.1	2.56
	1432-1437		2.16	2.11	6.91	C. 22	1 2

MTRC - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works  $10^{th}$  Monthly EM&A Report

30min LART = 75.2 30min LARE = 76.9 20min LARE 72.8

Lgo = 72.

#### Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

#### Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica			
Sampling Date		26 May 2008			
Sampling Time		1317-1347			
Weather Condition		Cloudy			
Baseline Noise Level	dB(A)	74.3			
	Leg, dB(A)	75.4			
Monitoring Results	L10, dB(A)	77.2			
	L ₉₀ , dB(A)	73.3			
Calibration before Measurement	dB(A)	94.0			
<b>Calibration after Measurement</b>	dB(A)	94.0			
Observation(s) Excavation noise by (Excavator x 1)					
Transportation noise by public transportation Remarks		5			
N/A					

With Baseline Correction :

68.9 dB(A)

Recorded by : Stephen Tsang

Date : 26 May 2008

0.5L 0.1L 2.0L	7.62 2.67 1.12	71.5 77.6 73.3 3.5 2.55 1.15	71.5 77.6 73.3	21.5 71.6 73.3 2.55 2.17 1.17 2.55 2.17 2.05 2.55 2.16 2.15	1.17 9.11 1.17 9.17 1.2.21	Jowin LARG = 75.4 J. FT = VI nim 20min LIU = 77.4	30min Lago = 73.3
86.5	2.v2	VU. )	<.v>	86.5 86.5	84-1		
	2851-F261	2851-1281	2851-F261	1332-1337	1337-1342		

NOISE MEASUREMENT RECORD

SUMMARY

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#### Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

#### Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte
Sampling Date		2 June 2008
Sampling Time		1424-1454
Weather Condition		Cloudy
Baseline Noise Level	dB(A)	74.0
	Leq, dB(A)	77.1
Monitoring Results	L10, dB(A)	79.1
	L ₉₀ , dB(A)	74.0
Calibration before Measurement	dB(A)	94.0
Calibration after Measurement	dB(A)	94.0
Observation(s)		
Crane lifting noise by (Crane Lifter x Hand breaking noise by (Pneumatic I Transportation noise by public transp Remarks N/A	hand held break	cer x 1)

With Baseline Correction :

74.2 dB(A)

Recorded by : Stephen Tsang

Date : 2 June 2008

.

L.90 30min=74.0 LIO 30,000 = 79. LAcq 30min=77. Recorded by: Stephen [ Sam9 đ 74-9 7.85 b L Acq 79.4 26. 32 F 1 0 -75.1 74. 36 N ŝ m L ſ 28-9 7.87 0 7 80.9 6 ŝ 20.8 79. 5 5 71.5 b 0 L_{min} 73.1 2 in the F ſ LOUPY 82.5 8-62 80.9 5.48 L max 8 4 5 60 Weather: Comment/Source dBA Time/H Duration Min. 2:44-2-49 2:49-2:54 2:34-244 2:34-2:39 2:24-2:29 45:2-96-2 Liberte Location . ž 2-6-2008 Date

NOISE MEASUREMENT RECORD

SUMMARY

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## MTRC - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works $10^{th}$ Monthly EM&A Report

Frequency weightings:

,

#### Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

#### Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica
Sampling Date		2 June 2008
Sampling Time		1343-1413
Weather Condition		Cloudy
Baseline Noise Level	dB(A)	74.3
	Leq, dB(A)	76.4
Monitoring Results	L10, dB(A)	78.4
	L ₉₀ , dB(A)	72.9
Calibration before Measurement	dB(A)	94.0
Calibration after Measurement	dB(A)	94.0
Observation(s) Shoveling noise by (Shovel x 2)		
Transportation noise by public transp	portation	
Remarks		
N/A		

With Baseline Correction :

72.2 dB(A)

Recorded by : Stephen Tsang

Date : 2 June 2008

.

							10		
								in = 76.4	n =72.9
159.19	L Acq	756	75.4	77.5	78.6	75.3	75.9	LARF JOWIN = 76.4	L go 30min =72.9 Lio 30min =78.4
Recorded by: Stephen Isang	L90	73.5	73.3	73.8	14.0	71.0	72.0		
Recorded by: _	Lio	77.3	76.9	80.5	80.8	2.775	5-22		
	Lmin	72.2	71.8	72.0	0.0L	65.2	70-2		
Weather: Llow dy	Lmex	83.1.	81.9	84.1	8.2.8	1-08	79.(		
Weather:	Comment/Source								
dBA	Time/H Duration Min.	1:48	1:48-1:53	1:53-1:58	:58: 2:03	2:03-2:08	51:2-80:2		
Frequency weightings: _	Location	2-6-2008 Rz Pacifica							
Fre	Date	2-6-2008							

NOISE MEASUREMENT RECORD

SUMMARY

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# $MTRC-Lai\ Chi\ Kok\ Station$ Cheung Lai Street Pedestrian Subway and Entrance Works $10^{\rm th}\ Monthly\ EM\&A\ Report$

.

#### Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

#### Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte		
Sampling Date	10 June 2008			
Sampling Time	1109-1139			
Weather Condition		Sunny		
Baseline Noise Level dB(A)		74.0		
	Leq, dB(A)	76.2		
1onitoring Results	L ₁₀ , dB(A)	77.8		
	L ₉₀ , dB(A)	74.0		
Calibration before Measurement	dB(A)	94.0		
Calibration after Measurement	dB(A)	94.0		
Observation(s)				
Water punping noise by (Water pump	p)			
Course lifetan analas has (Course Lifetan				

Crane lifting noise by (Crane Lifter x 1) Transportation noise by public transportation

Remarks	 
Remarks N/A	

With Baseline Correction :

72.2 dB(A)

Recorded by : Stephen Tsang

Date : 10 June 2008

.

L Acq							=76.2	8-11-1 8-11-1	
L Acq				- r		-	ើ	5 5	
	LST	176	5/1	2/2	19/	7.92	LACA 30min=76.2	L10 30 min=72.8 L90 20 min= 74.0	,
L50	74.1	74.	526	14.6	12.8	13.5			
L10	76.9	8-66	78.4	2.8	8-66	6.LL			
Lmin	72.3	72.3	72.0	72.8	72.4	71.3			
Lmix	20.7	83-2	2.12	87.7	80.3	20-7		r	
Comment/Source									
Time/H Duration Min.	11:09-11:14	1-14-149	4761-1574	1:24-11:29	11-24-11:34	11:34-11:39			
Location									
Date	10-6-200%								
	Location Time/H Comment/Source L _{max} L _{min} L ₁₀	Location     Time/H     Comment/Source     Lmix     Lmin     L10     L90       N     L:berte     11:04-11:14     80.7     72.3     76.9     74.1	Time/H         Comment/Source         Lmix         Lmin         L10         L90           Duration Min.         Comment/Source         Lmix         T         72.3         76.9         74-1           11:09-11:14         83-2         72.3         76.9         74-1	Time/H         Comment/Source         L mix         L min         Lio         Loo           Duration Min.         Comment/Source         L mix         L min         Lio         Loo           11:09-11:14         80.7         72.3         76.9         74-1           11:19-11:14         83.2         72.5         77.8         74-1           11:19-11:24         91.2         72.0         78.4         72.7	Time/H         Comment/Source         L min         Lio         Loo         Loo           Duration Min.         Comment/Source         L mix         L min         Lio         Loo $ 1:09-1 1:14$ $go.7$ $72.3$ $76.3$ $74-1$ $ 1:14-1 24$ $go.7$ $72.3$ $76.3$ $74-1$ $ 1:14-1 24$ $gs.2$ $72.3$ $77.8$ $74-1$ $ 1:24-1 :29$ $g7.7$ $77.6$ $78.4$ $7.7$	Time/H         Comment/Source         L min         Lio         Loo         Loo           Duration Min.         Comment/Source         L mix         L min         Lio         Loo $  :09-  :14-  :14         80.7         72.3         76.9         74-1            1:19-  :14-  :14         83.2         72.5         77.8         74-1            1:19-  :14         83.2         72.5         77.8         74-1            1:19-  :24         87.7         72.6         78.4         73.7            1:24-  :24         87.7         72.8         78.5         74.6            1:29-1 :24         80.5         72.4         73.8         74.6  $	Time/H         Comment/Source         L min         Lio         Loo         Loo           Duration Min.         Comment/Source         L min         Lio         Loo         Loo $ 1:09-1 1:14$ $go.7$ $72.3$ $76.9$ $74-1$ $ 1:19-1 24$ $go.7$ $72.3$ $76.9$ $74-1$ $ 1:19-1 24$ $gs.2$ $72.3$ $76.9$ $74-1$ $ 1:19-1 24$ $gs.2$ $72.3$ $76.9$ $74-1$ $ 1:24-1 :24$ $gs.2$ $72.6$ $78.4$ $75.7$ $ 1:24-1 :24$ $go.5$ $72.4$ $72.8$ $74.6$ $ 1:24-1 :24$ $go.5$ $72.4$ $72.8$ $74.6$ $ 1:24-1 :24$ $go.5$ $72.4$ $73.8$ $74.6$ $ 1:24-1 :34$ $go.5$ $72.4$ $73.8$ $73.8$	Time/H         Comment/Source         L min         Lio         Loo         Loo           Duration Min.         Comment/Source         L min         Lio         Loo         Loo $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :1 ^{4}$ $  :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :0^{4} -   :$	Time/H         Comment/Source         Lmin         Lio         Lo         Lo           Duration Min.         Comment/Source         Lmin         Lio         Lo         Lo $ 1:0^{4}-1 :14$ 80.7         72.5         76.4         74-1 $ 1:19^{4}-1 :19$ 83.2         72.5         77.8         74-1 $ 1:19^{4}-1 :12$ 83.2         72.6         78.4         73.7 $ 1:24-1 :29 $ 87.7         72.8         78.5         74.6 $ 1:24-1 :29 $ 87.7         72.4         71.8         73.8 $ 1:24-1 :29 $ 80.5         72.4         71.8         73.8 $ 1:24-1 :29 $ 80.5         72.4         71.8         73.8

SUMMARY

NOISE MEASUREMENT RECORD

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### MTRC – Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works 10th Monthly EM&A Report

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#### Mass Transit Railway - Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works

#### Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica			
Sampling Date		10 June 2008			
Sampling Time		1027-1057			
Weather Condition		Sunny			
Baseline Noise Level	dB(A)	74.3			
	Leq, dB(A)	76.2			
Monitoring Results	L10, dB(A)	77.8			
	L ₅₀ , dB(A)	74.1			
Calibration before Measurement	dB(A)	94.0			
Calibration after Measurement	dB(A)	94.0			
Observation(s) Water pumping noise by (Water Pum					
Remarks N/A					

With Baseline Correction :

71.7 dB(A)

Recorded by : Stephen Tsang

Date : 10 June 2008

.

							1	U M	onuny	/ EIVIO
								= 76.2	8.LL =	- 74.1
[5949.	L Acq	75.6	77.2	76.6	75-5	75-9	76.5	LARG 30min = 76.2	Lid 30 min= 77.8	Lgo 30 min = 74.1
Stephen	L90	73.3	75.2	74.2	73.4	74.2	14-4			
Recorded by: Stephen TS9 4 9	L10	1.17	7.82	78.5	671.	77.3	1.81			
	L ^{min}	71.3	73.4	2.15	P.15	71.5	73.0			
SUNNY	Lmex	82.6	82-6	81.5	80.5	81.3	2-98			
Weather: Sun n Y	Comment/Source									
dBA	Time/H Duration Min.	10:27-10:32	10:32-10:37	10:37-10:42	14:01-74:0]	( 0:47 - lo:52	0:52-10:57			
Froquency weightings: _		10-6-2098 R2 Pacifica					-			
Fr	Date	16-6-201								

NOISE MEASUREMENT RECORD

SUMMARY

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#### MTRC – Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works 10th Monthly EM&A Report

 $\begin{tabular}{ll} MTRC-Lai Chi Kok Station \\ Cheung Lai Street Pedestrian Subway and Entrance Works \\ 10^{th} Monthly EM&A Report \end{tabular}$ 

## APPENDIX 4 – COMPLAINT REPORT AND LOG

10 th Monthly EM&A Report MTR Project – MTR Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrances Works
Report for Complaint/ Concern
Ref: LCK-Ct03/08         Sheet: 1 of 2           RECIPIENT         RECIPIENT
Name: MTR Corporation Limited         Details: The EPD's fax dated 22 May 2008 regarding a public complaint on dust emission was received by MTR.         Received Date: 22 May 2008         Received Time:
COMPLAINANT / Concern
Name:A tenant from LiberteTel:n/aAddress:n/a
COMPLAINT
□Noise ☑Air quality/Dust □Water □Odour □Environment □Traffic/Pedestrian □Safety □Others
Event Date and Time: 15 May 2008 Location: A tenant showed his concern on dust emission from the construction activities on Cheung Lai Street to the EPD.
INVESTIGATION RESULTS & MITIGATION MEASURES
<ol> <li>As per the EM&amp;A Manual section 7.3, relevant follow up discussion and investigation with the representatives from RE/ Contractor/ Environmental Team/ IEC have been made on 24 and 26 May to resolve the above incident after receipt of the public concern.</li> </ol>
2. The investigation findings indicate the Contractor's performance on dust control at Cheung Lai Street site is satisfactory. Constant watering on the construction area and site cleaning are kept to reduce/ stop the potential air pollution from the working site.
3. The contractor agreed to provide additional tarpaulin covering on the installed temporary water-filled plastic site barriers at Cheung Lai Street site to minimize visual impact caused by heavy construction activities.
<ol> <li>The measure stated in item 3 was completed by the contractor on 26th May 2008 and re-inspected by the ET with satisfaction on the same day.</li> </ol>

RECOMMENDATIONS		:		
<ul> <li>Tarpaulin covering or caused by heavy cons</li> <li>The Contractor should</li> </ul>	struction activities as practica	arriers sh l as possi ublic cor	ould be install ible; ncern and alwa	site equipments and plants; ed to minimize visual impact ays provides and maintains proper
Signed:	Date: 20	5-5-200	8	

MTRC – Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works 10th Monthly EM&A Report

#### COMPLAINT / CONCERN LOG

Ref:

Log Ref	Event Date/Location	Complainant/ Date of Contact	Details of Complaint	Investigation/Mitigation Action	File Closed
LCK-Ct03/08	15 th May 2008; Cheung Lai St.	A public concern received by MTR via EPD on 23 rd May 08	A tenant showed a concern on the construction activities which generated dust emission in Cheung Lai Street to the EPD on 15 th May 2008	<ol> <li>1)The event investigation on 24 and 26 May 2008 have been conducted to figure out major source of impacts produced from the site.</li> <li>2)The investigation outcome shows the Contractor's performance in dust control at Cheung Lai Street site is satisfactory. Constant watering on the construction area and site cleaning are kept.</li> </ol>	
··· ··				3) The Contractor agreed to improve visual impact at the working locations to the passing pedestrians by providing additional tarpaulin layers on the installed temporary site separation at Cheung Lai Street site.	

Filed by Environmental Team Leaderz Date:

 $\begin{tabular}{ll} MTRC-Lai Chi Kok Station \\ Cheung Lai Street Pedestrian Subway and Entrance Works \\ 10^{th} Monthly EM&A Report \end{tabular}$ 

**APPENDIX 5 – Environmental Follow-Up Action Photos** 

# **Kaden Construction Limited**

## Environmental Follow-up action photos taken on 30 May 2008



# **Kaden Construction Limited**

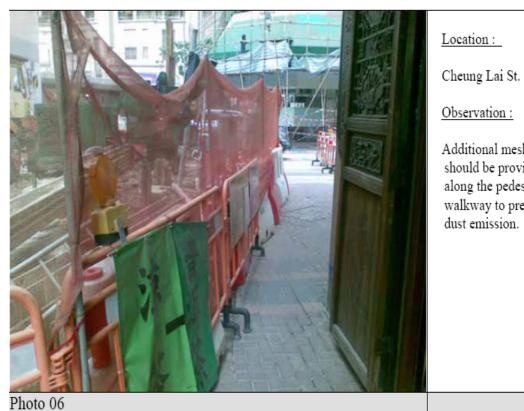
### Environmental Follow-up action photos taken on 30 May 2008



# **Kaden Construction Limited**

## Environmental Follow-up action photos taken on 30 May 2008

### Photo Evidence



# Location :

Observation :

Additional mesh should be provided along the pedestrian walkway to prevent dust emission.



## Follow Up Action

Additional tarpaulin layer has been properly installed along the pedestrian walkway to prevent dust emission on 26th May 2008.

MTRC – Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works 10th Monthly EM&A Report

# Kaden Construction Limited

Environmental Follow-up action photos taken on 30 May 2008



MTRC – Lai Chi Kok Station Cheung Lai Street Pedestrian Subway and Entrance Works 10th Monthly EM&A Report

# Kaden Construction Limited

# Environmental Follow-up action photos taken on 30 May 2008

