MTR Corporation Limited

MTR Lai Chi Kok Station Pedestrian Subway and Entrance Works Monthly Environmental Monitoring & Audit Report

16 August 2010 – 15 October 2010

11 NOV 2010

APPROVAL SHEET

Prepared and Certified by: ET Leader (Environmental Pioneers & Solutions Limited)

Date:

Signature: Miss Patricia Chung

(ET Leader)

* ET - Environmental Team

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-039

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:

Dr. Glenn H.Frommer

Head of Sustainability Development

of MTR Corporation

1 1 NOV 2010

Date

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Hong Kong Government Your ref:

Environmental Protection Department Headquarters

28/F, Southorn Centre, Our ref: C/HSD/NW/F1500 (LCK)

130 Hennessy Road, #030268

Wan Chai, Hong Kong

Attention: Mr. M.W. Ho

11 November 2010

Dear Mr Ho,

MTR Lai Chi Kok Station Pedestrian Subway and Entrance Works Environmental Permit No. EP-253/2006 Environmental Permit Conditions – Monthly EM&A Report

In compliance of Environmental Permit Item 4.3, attached please find three hard copies and one electronic copy of 37th monthly EM&A Report for your reference and retention.

Yours sincerely,

Dr. Glenn Frommer

Head of Sustainability Development

Encls.

GF/WC/ic

b.c.c. Resident Engineer - Bond Nong

SConE - Ken Wong ET Leader - Patricia Chung

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EXECUTIVE SUMMARY

This is the 37th 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 August 2010 to 15 October 2010. The major construction activities in this reporting period include construction of subway box and escalator at Entrance D3, the above ground decoration and reinstatement works under separated project managed by the Developer Sung Hung Kei at Entrance D3, station entrance installation at Entrance D4, road reinstatement at Cheung Lai Street and Lai Chi Kok Road West and E&M works inside the completed subway box sections.. Noise impact monitoring for construction maintained and conducted at the agreed NSRs with no exceedance recorded. The Contractor's performance on environmental issues was considered to be satisfactory in general.

The project construction programme as shown on Section 2.1 has been extended to suit progress of the project works due to longer time taken for the utility diversion works and resolving site constraints as well as the pervious 1800 mm dia sewer diversion of Lai Chi Kok Sewer. In general, all civil engineering and E&M works of the subway within the location of Designated Project as shown on Fig 1 of Environmental Permit No. EP- 253/2006 have been substantially completed.

1 INTRODUCTION

This is the 37th 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 August 2010 to 15 October 2010.

2 PROJECT INFORMATION

2.1 Construction Program

Civil construction of the whole subway would take totally approximate 40 months to complete for opening. The project construction programme has been extended to suit progress of the project works due to longer time taken for the utility diversion works and resolving site constraints as well as the pervious 1800 mm dia sewer diversion of Lai Chi Kok Sewer. 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 for the temporary works sites will be reinstated.

Activities				Мо	nth			
	Aug - Dec	Jan-May	Jun-Oct	Nov08 -	Apr-Aug	Sept 09 -	Feb - Jun	Jul - Oct
	07	08	08	Mar09	09	Jan 10	10	10
1800 Ф Sewer Diversion of Lai Chi Kok Sewer								
Construction of Subway								
- Sheet Piling works & Temporary								
Support								
- Excavation works								
- Formwork & Concreting								
- Decoration Works								
- Backfilling & Reinstatement								
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					ı			

2.2 Construction Activities in the Past Month

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

Site under West Kowloon Corridor

- Replanting works under the corridor;
- Construction of connection portion to Liberte;
- E&M installation inside completed subway sections

Site under Lai Chi Kok Road Westbound

- Construction of the subway box sections;
- E&M installation inside completed subway sections

Site at Cheung Lai Street

- Road reinstallation by phases;
- E&M works inside subway box sections.

Site at Entrance D3

- Complete the accessible landings and lift shafts;
- Connection between Liberte and completed subway constructed under the project;.
- Above ground reinstatement and decoration works by others.

Site at Entrance D4

- Complete the accessible staircases and entrance.

2.3 Construction Activities for the Coming Month

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

Site under West Kowloon Corridor

- Complete the remaining replanting works.

Site at Cheung Lai Street

- Complete the remaining road reinstatement works on ground;
- Open the completed subway sections between the existing Lai Chi Kok Station to Entrance D4 at Pacifica.

Site at Entrance D3

- Complete the remaining above ground reinstatement and decoration works by others.

Site at Entrance D4

- No construction activities.

_

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 measurements were accepted as valid if the calibration levels before and after the noise 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.

Table 3.1 – Noise Monitoring Stations

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

3.4 Monitoring Results

The results are presented in the Table 3.2. Relevant details of the noise monitoring results, graphic plots calculation references are presented in Appendix 2 and 3. The corrected LAeq results, ranged between 58.0 dB(A) and 70.8 dB(A), were within the limit levels and therefore, no exceedance was found.

Table 3.2 - Noise monitoring results for the reporting month

				Measured	Baseline	Correct	ted		
					Noise				
Location	Parameter	Time	Date	Leq	Level	LAeq	*	Limit	Exceedance
R1	Leq30min	9:41	19-Aug-10	73.2 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	14:49	24-Aug-10	72.7 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	14:25	3-Sep-10	73.7 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	13:38	7-Sep-10	72.9 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	9:53	17-Sep-10	74.9 dB(A)	74 dB(A)	68.4	dB(A)	75 dB(A)	N
R1	Leq30min	9:57	22-Sep-10	73.5 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	9:52	2-Oct-10	73.4 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	11:09	8-Oct-10	72.8 dB(A)	74 dB(A)	# 0	dB(A)	75 dB(A)	N
R2	Leq30min	9:04	19-Aug-10	75.9 dB(A)	74.3 dB(A)	70.8	dB(A)	75 dB(A)	N
R2	Leq30min	14:11	24-Aug-10	74.4 dB(A)	74.3 dB(A)	58	dB(A)	75 dB(A)	N
R2	Leq30min	13:47	3-Sep-10	74.2 dB(A)	74.3 dB(A)	# 0	dB(A)	75 dB(A)	N
R2	Leq30min	13:01	7-Sep-10	74.3 dB(A)	74.3 dB(A)	# 0	dB(A)	75 dB(A)	N
R1	Leq30min	9:17	17-Sep-10	75.4 dB(A)	74.3 dB(A)	68.9	dB(A)	75 dB(A)	N
R1	Leq30min	9:21	22-Sep-10	75.9 dB(A)	74.3 dB(A)	70.8	dB(A)	75 dB(A)	N
R1	Leq30min	9:18	2-Oct-10	74.5 dB(A)	74.3 dB(A)	61 0	dB(A)	75 dB(A)	N
R1	Leq30min	10:31	8-Oct-10	75.1 dB(A)	74.3 dB(A)	67.4	dB(A)	75 dB(A)	N

^{*}Corrected to baseline background level

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

[#] Measured Leq is lower than baseline noise measurement

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
other days	received	of Noise Control
		Ordinance
2300 – 0700 hrs of next day		Subject to the control
		of Noise Control
		Ordinance

Table 3.4 - Event/Action plan for construction noise

	_	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. 	Submit noise 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 	1. Discuss amongst RE, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise RE accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. 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.

3.5 Monitoring Schedule for Next Reporting Period

Noise monitoring in the next reporting period is scheduled for 21^{st} and 27^{th} October and 4^{th} and 10^{th} November 2010.

Site inspection schedule for the next reporting period is designated on 27th October and 10th November 2010.

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.

Table 5.1 Summary of Construction Waste Disposal

	Amount	of Construction Waste d	isposed
	Inert Waste	Non-inert Waste	Chemical Waste
	(to Public Fill) (tonnes)	(to Landfill) (tonnes)	(trip) (tonnes)
16 August 07 to 15 May 08	5642.79	0	0.4
16 May 08 to 15 February 09	12526.15	16.00	1
16 February 09 to 15 March 09	3871.40	0	0
16 March 09 to 15 April 09	5603.90	3.00	0.4
16 April 09 to 15 May 09	3354.90	6.50	0
16 May 09 to 15 June 09	4182.60	2.70	0
16 June 09 to 15 July 09	5594.20	9.50	
16 July 09 to 15 August 09	5667.33	4.45	0
16 August 09 to 15 September 09	1300.50	12.90	0
16 September 09 to 15 October 09	2442.80	32.00	0
16 October 09 to 15 November 09	0.00	145.00	0
16 November 09 to 15 December 09	0.00	140.00	0
16 December 09 to 15 January 10	0.00	29.00	0
16 January 10 to 15 February 10	0.00	81.00	0
16 February 10 to 15 March 10	0.00	267.00	0
16 March 10 to 15 April 10	0.00	106.00	0
16 April 10 to 15 May 10	0.00	31.00	0
16 May 10 to 15 June 10	0.00	106.00	0
16 June 10 to 15 July 10	0.00	33.00	0
16 July 10 to 15 August 10	0.00	35.00	0.4
16 August 10 to 15 September 10	0.00	24.00	0

16 September 10 to 15 October 10	0.00	37.00	0
Total	50186.57	1121.05	2.20

6 COMPLAINT LOG

·	Air	Noise	Water	Others
16 August 07 to 15 May 07	1	1	0	0
16 May 08 to 15 February 09	2	0	0	0
16 February 09 to 15 March 09	0	0	0	0
16 March 09 to 15 April 09	0	1	0	0
16 April 09 to 15 May 09	0	0	0	0
16 May 09 to 15 June 09	0	0	0	0
16 June 09 to 15 July 09	0	0	0	0
16 July 09 to 15 August 09	0	0	0	0
16 August 09 to 15 September 09	0	0	0	0
16 September 09 to 15 October 09	0	0	0	0
16 October 09 to 15 November 09	0	0	0	0
16 November 09 to 15 December 09	0	0	0	0
16 December 09 to 15 January 10	0	0	0	0
16 January 10 to 15 February 10	0	0	0	0
16 February 10 to 15 March 10	0	0	0	0
16 March 10 to 15 April 10	0	0	0	0
16 April 10 to 15 May 10	0	0	0	0
16 May 10 to 15 June 10	0	0	0	0
16 June 10 to 15 July 10	0	0	0	0
16 July 10 to 15 August 10	0	0	0	0
16 August 10 to 15 September 10	0	0	0	0
16 September 10 to 15 October 10	0	0	0	0
Total	3	2	0	0

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.

Table 7.1 Status of Permits and Licenses Obtained

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	GW-RW0093-10	9 March 2010	8 September 2010	
Effluent Discharge License	EP760/264/0124051	24 July 2007	31 July 2012	

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:

Table 8.1 Summary of inspection findings

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 to an acceptable standard, particularly inside the completed subway box sections.	The Contractor still need to pay attention on site housekeeping.
4	The Contractor was reminded to implement proper noise mitigation measures to shield the noise parts of circular saw and handheld breaker during construction.	Ongoing
5	The Contractor should regularly review the condition of hoardings or equivalent approved for Cheung Lai Street site area. In order to reduce any air pollution impact to the nearby public.	Ongoing
6	The Contractor was reminded to have regular view on potential oil leak from fuel containers and the stationery plants on site by providing proper drip trays or similar.	Ongoing
7	The Contractor was reminded to have regular check on the potential black smoke from working plants.	Ongoing
8	The Contractor should implement properly required dust mitigation measures at the progressing work sites	Ongoing
9	The Contactor should regularly check any ponding site water in order to prevent mosquito breeding problems and working condition of the working de-silting tanks.	The Contractor still need to pay attention on site ponding water

9 CONCLUSION

In this reporting month, construction activities for this project "MTRC Lai Chi Kok Station Pedestrian Subway and Entrance Works" include backfilling and utility reinstatement under West Kowloon Corridor and Lai Chi Kok Road Westbound; the backfilling, road reinstatements and E&M installation of the completed subway boxes under Cheung Lai Street; construction of station entrances at the Liberta and Pacifica. 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. The ET will continue to execute the environmental monitoring and 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

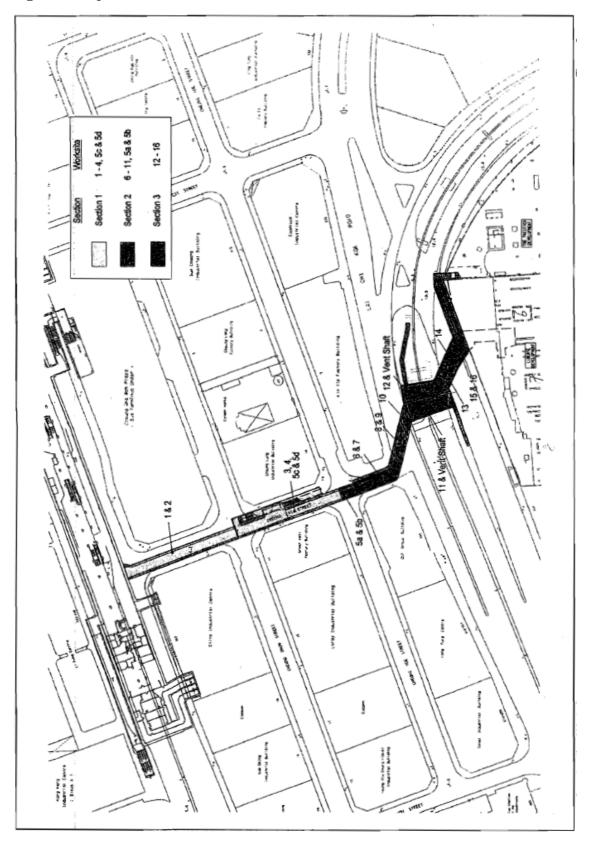
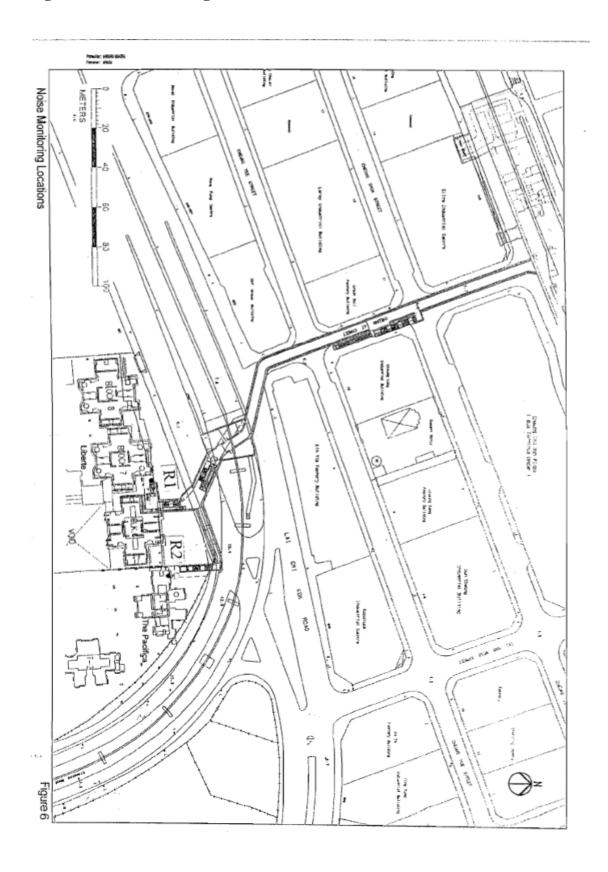
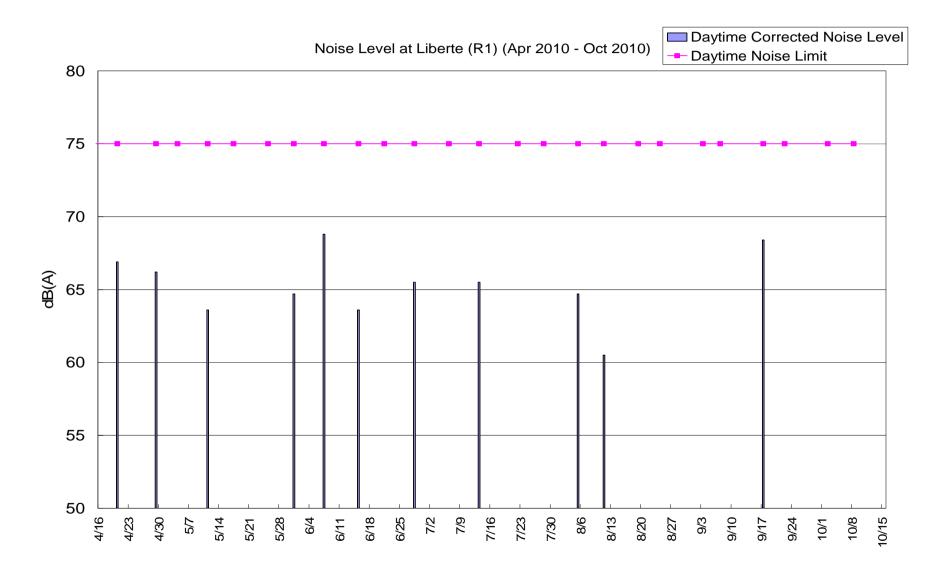
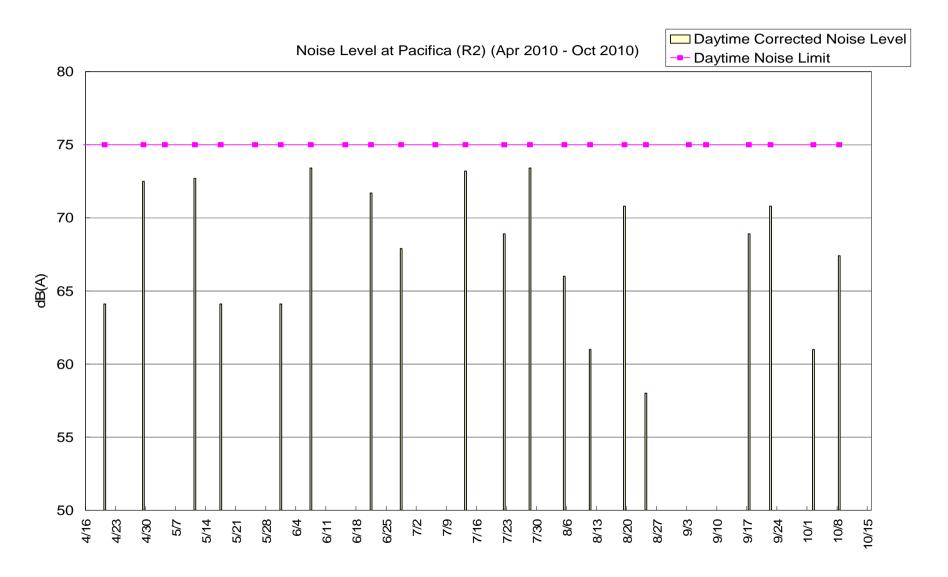


Figure 2 Noise Monitoring Stations R1 and R2



APPENDIX 2 – Environmental Monitoring Data / Charts





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:

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

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.

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte
Sampling Date		19 August 2010
Sampling Time		09:41 - 10:11
Weather Condition		Overcast
Baseline Noise Level	dB(A)	73.8
	L _{eq} , dB(A)	73.2
Monitoring Results	L ₁₀ , dB(A)	76.8
	L ₉₀ , dB(A)	72.0
Calibration before Measurement	dB(A)	94.0
Calibration after Measurement	dB(A)	94.0
Hammering noise by (Hammer x 1) Transportation noise by public transp	poration	
	ooration	

With Baseline Correction : #Note dB(A)

#Note: The measurement noise level is lower than the baseline noise level Therefore, no baseline correction is calculated.

Recorded by : William Law Date : 19 August 2010

		CAN	L Auq	70%	22.22	73.30	3.8	72.90	72. B	29 Hum = 73.20	es 30mm - H. So	9. Hum = 72.00	
		Recorded by: MILLIAM CAN	Lyo	27 62	20.27	21.90	31.80	71.30	72.10	Lag Mun	(ex 300mm	(4° 30mm	
		Recorded by:	L10	26.94	77.0	78.20	76.60	75.th	76.10				
			Lmin	70. W	2,7	71.30	68.Po	2.8	71.10		í		
	SUMMARY	Weather: Cloudy	L max	7.60	80.80	81.30	B. B	29.20	79.32				
	18.10.4	Weather:	Comment/Source										
TENT RECORD		.:dBA	Time/H Duration Min.	8:41-4:45	15:60-95:60	75-60-15-60	p:0/-95:fa	10:01-10:01	11:01-90:0)				
NOISE MEASUREMENT RECORD		Frequency weightings: _	Location	19/1/volo R. Libere		-							
ž		Fr	Datc	19/1//2010									

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica						
Sampling Date		19 August 2010						
Sampling Time		09:04 - 09:34						
Weather Condition		Overcast						
Baseline Noise Level	dB(A)	74.3						
	L _{eq} , dB(A)	75.9						
Monitoring Results	L_{10} , $dB(A)$	79.0						
_	L ₉₀ , dB(A)	72.4						
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 transportation	ooration							
D 1								
Remarks								
With Baseline Correction :	70.8	dB(A)						
THE DASCHIE COLLECTION.	_uD(\(\alpha\)							
# Note: The measurement level is lower than the baseline noise level. Therefore, no baseline correction is calculated								
Recorded by : William Law		Date : 19 August 2010						
		Date . 17 Magust #010						

										9:	B.	se N
		CON	L Acq	- / (70.10	73.9V	76.00	75.8	35.70	eg30w = 75.90	LAD 30-in- 79.00	190 sour = 72 60
		Which you way	L90	,	71.80	27 20	7.60	72.60	77.30	80	-	190
		Recorded by:	L10	74 1-	01:10	70.10	79.00	0. Pt	78.70			
			Lmin	7130	2 3	7.30	7.2	31.30	1.0			
	SUMMARY	Clarky	L max	12.50	13.10	85.20	83.10	82,80	83.00			•
		Weather:	Comment/Source							and a		MATERIA DE LA CASA
ENT RECORD		dBA	Time/H Duration Min.	9:04-09:09	91:60-60:14	81:6-09:18	g:18-9:24	8-24-09.29	03:4-9:34			
NOISE MEASUREMENT RECORD		Frequency weightings:	Date Location	1981200 Ry Pacifica								
			ă	19/1								

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte						
Sampling Date		24 August 2010						
Sampling Time		14:49 - 15:19						
Weather Condition		Overcast						
Baseline Noise Level	dB(A)	73.8						
	L _{eq} , dB(A)	72.7						
Monitoring Results	L ₁₀ , dB(A)	76.6						
	L ₉₀ , dB(A)	70.7						
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 transporation Remarks N/A								
With Baseline Correction:	#Note	dB(A)						

Date: 24August 2010

Therefore, no baseline correction is calculated.

Recorded by : William Law

#Note: The measurement noise level is lower than the baseline noise level

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									2	3,0	4.
	CAM	L Acq	75.70	72.50	72.70	72.50	2.8	72.40	Lag 30 mm = 72.70	10 30 m= 76.60	(4. 30 mm = 70.70
	Recorded by: MILLIAM (AN)	L90	No. 50	2020	7.4	21.30	م. م. حب	70.60	وا	7	Ž
	Recorded by:	L	75.B	36.10	76.76	7.10	76.90	36.80			
		Lmin	69.70	69.60	70.30	30.80	68.70	69.60			
SUMMARY	Clardy	L max	7.8	£.6	29.45	79. Fr	78.90	8.00			
	Weather:	Comment/Source									
-	dBA	Time/H Duration Min.	かかかか	15.4) - y2.4)	A0:51-65:H)	15=0K-15=09	A1=51-60=5)	1/51/4-12-18			
	Frequency weightings:	Location	XISTOOL, Liberte								
•	ír.	Date	0)01/8/2010								

NOISE MEASUREMENT RECORD

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica						
Sampling Date		24 August 2010						
Sampling Time		14:11 - 14:41						
Weather Condition		Overcast						
Baseline Noise Level	dB(A)	74.3						
	L _{eq} , dB(A)	74.4						
Monitoring Results	L ₁₀ , dB(A)	79.2						
	L ₉₀ , dB(A)	72.7						
Calibration before Measurement	dB(A)	94.0						
Calibration after Measurement	dB(A)	94.0						
Hammering noise by (Hammer x 1) Transportation noise by public transporation Remarks								
With Baseline Correction: 58.0 dB(A)								

Note: The measurement level is lower than the baseline noise level. Therefore, no baseline correction is calculated

Date: 24 August 2010 Recorded by : William Law

	SUMMARX	Weather: Cloudy Recorded by: Waltham (A)	Comment/Source L max L min L 10 L 90 L Acq	0		71.30 79.20 73.30	7.6 N. 72.50	78.90 72.50	79.00 72.70	(of 30 min = 74.45	L(030mm = 79.20	F. ST - ~~ (6, 2)
ENT RECORD		dBA	Time/H Comment/Source	91:31-11:01	14:19-14:21	97:31-17:31	(4:36-14:31	16.31 - 14:36	1かか1-9(か)			ar e e e
NOISE MEASUREMENT RECORD		Frequency weightings:	Date Location	HRING Ry Austrea								

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte				
Sampling Date		03 September 2010				
Sampling Time		14:25 - 14:55				
Weather Condition		Overcast				
Baseline Noise Level	dB(A)	73.8				
	L_{eq} , $dB(A)$	73.7				
Monitoring Results	L_{10} , $dB(A)$	78.4				
	L ₉₀ , dB(A)	71.4				
Calibration before Measurement	dB(A)	94.0				
Calibration after Measurement	dB(A)	94.0				
Remarks N/A						

With Baseline Correction : #Note dB(A)

#Note: The measurement noise level is lower than the baseline noise level Therefore, no baseline correction is calculated.

Recorded by: William Law Date: 03 September 2010

(And	L Acq	75 60	73. Rs	23.60	77 74	2 2	7.30	2930m = 73.70	9/H = -	4. 30 mm = 7. 40
Recorded by: MILLIAM (AN)	L90	70.50	7.10	72.30	22.60	30.90	71.30	[ag30en	[] J	19.30
Recorded by:	L10	27.90	2 2	79.30	28.90	# D	28.40			
	Lmin	69,00	69.69	7.74	20 30	Eg. 70	30.00			
SUMMARY Weather: [Crudu	Lmax	81.20	Jo. 60	g. 00	80.60	28.90	81.10			
Weather:	Comment/Source	<u>-</u>								
dBA dBA	Time/H Duration Min.	of:j)-57:j)	(4570 - (4535	(P.35- (P.590	14.64	16:18-16:50	16:50 - 16:55			
Frequency weightings: _	Location	319/2010 R. Liberce								
.	Date	3/26/0								

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica						
Sampling Date		03 September 2010						
Sampling Time		13:47 - 14:17						
Weather Condition		Overcast						
Baseline Noise Level	dB(A)	74.3						
	L _{eq} , dB(A)	74.2						
Monitoring Results	L ₁₀ , dB(A)	78.9						
	L ₉₀ , dB(A)	71.4						
Calibration before Measurement	dB(A)	94.0						
Calibration after Measurement	dB(A)	94.0						
Remarks								

With Baseline Correction: #Note dB(A)

Note: The measurement level is lower than the baseline noise level.

Therefore, no baseline correction is calculated

Recorded by : William Law Date : 03 September 2010

				-	· · · ·	- r	·1	7	£39	3 %	S	ŕ
	(An	L Acq	316 13	2 2 2	7 2 2	2 2	7660	20,2%	eg 30 mm - 74.20	Les 30 mm - 78, 90	4.60 H.60	
	Recorded by: WILL (AM CAN)	L90	71.80	3.5	71.30	7, 5	7.40	30.90	2	9	9	
	Recorded by: _	L10	78.8¢	7 8	24.62	78.95	79.30	78.8c			• •	
		Lmin	2.8	2.2	3.6	69.73	69.80	70.00				
SUMMARY	Clendy	L max	83.10	82.30	31.80	83.50	Pr. 45	83.00				
	Weather	Comment/Source										
	dBA	Time/H Duration Min.	13:67-13:52	45:81-15:81	13:57-14:02	to:0)-20:1	14:07-14:12	したかーしたけ	·			
	Frequency weightings:	Location	3/9/20 R. Paestrea									
	<u>ਫ</u>	Datc	3/9/26									

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Block 7, Liberte
Sampling Date		07 September 2010
Sampling Time		13:38 - 14:08
Weather Condition		Overcast
Baseline Noise Level	dB(A)	73.8
****	L _{eq} , dB(A)	72.9
Monitoring Results	L ₁₀ , dB(A)	76.9
	L ₉₀ , dB(A)	69.7
Calibration before Measurement	dB(A)	94.0
Calibration after Measurement	dB(A)	94.0
Transportation noise by public transp	ocration	
ransportation noise by public transportation noise public	ocration	

#Note: The measurement noise level is lower than the baseline noise level Therefore, no baseline correction is calculated.

Date: 07 September 2010 Recorded by : William Law

CAN	L Acq	73.00	7.7	72.90	73.10	72.75	32.90	p30m = 72.90	La 30 mm = 76.90	w = 69-20
Recorded by: WILLIAM CAN	L90	69.80	69.70	69.80	69.60	69.m	69.80	Leg 30m	16.30	[q. 30 mm
Recorded by: 🛚	L10	7,	77.00	76.90	76.85	26.90	77.10			• •
	7. min	68.30	68.50	69.00	68.70	68.80	69.20			
Cloudy	Lmax	Pr. Fr	81.10	80.8	39.60	81.30	D.50			
SC Weather:	Comment/Source									
dBA	Time/H Duration Min.	13:38-15:43	13:43-13:48	13-59- B-SI	13-53-13-58	13-51-14:03	14:03-14:03			
Frequency weightings:	Location	R. Liberte								
- 1	Date	spec/blk								

Noise Level Monitoring Log Sheet

Monitoring Location		Podium, Tower 1, The Pacifica				
Sampling Date		07 September 2010				
Sampling Time		13:01 - 13:31				
Weather Condition		Overcast				
Baseline Noise Level dB(A)		74.3				
	L _{eq} , dB(A)	74.3				
Monitoring Results	L ₁₀ , dB(A)	78.3				
	L ₉₀ , dB(A)	71.2				
Calibration before Measurement	dB(A)	94.0				
Calibration after Measurement	dB(A)	94.0				
Transportation noise by public transportation noise public transportation no						

With Baseline Correction: #Note dB(A)

Note: The measurement level is lower than the baseline noise level.

Therefore, no baseline correction is calculated

Recorded by : William Law Date : 07 September 2010

						·			-	(30	30	Ş	
		Cofte	L Acq		45.60	72.90	227	X 3K	0).*	of 30 mon = 74.30	La 30mn = 78:30	4.7 = mm Bob	
		MILLIAM	L.90		2 4	70.00	71.10	7.6	20.80	1930	L (0.30)	(4°30°	
		Recorded by: W(CCIAM	L10	0	4.10 7.4.8	18.70 T. 84	2,2	79.10	77. Ph				
			Lmin	بم	18.30	30.50	2.8	₹.8	30.00				
	SUMMARY	Cloudy	L max	Pr 2	93. Pr	83. 70	83.40	83.60	83.70				
		Weather:	Comment/Source									·	
NT RECORD		dBA	Time/H Duration Min.	13-10-13-06	11.51-99-5)	13-11-13:16	13:16-13:21	B.x-B-x	18:26-18:31				
NOISE MEASUREMENT RECORD		Frequency weightings:	Location	79/2010 Ry Austra									
ž		Fr	Date	ope/b/t									

Monitoring Location		Podium, Block 7, Liberte
Sampling Date		17 September 2010
Sampling Time		09:53 - 10:23
Weather Condition		Sunny
Baseline Noise Level	dB(A)	73.8
	L _{eq} , dB(A)	74.9
Monitoring Results	L ₁₀ , dB(A)	78.1
<u> </u>	L ₉₀ , dB(A)	72.8
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 trans	poration	
·		
		•
Remarks		
N/A		
N/A		
		dB(A)
With Baseline Correction :	68.4	_ub(A)
		- ` '
With Baseline Correction: #Note: The measurement noise leve		- ` '
	l is lower than	- ` '
#Note: The measurement noise leve	l is lower than	- ` '

					· · · · · ·	· 			90	0)	2
	(4)	L Acu	25.70	X.80	X.8	34.45	3 24 10	73.60	ig 30 min = 74.90	01.86 = mos 01-	(4, 30mm= 7) &
	HICCIAN	L90	73.50	73.90	7.50	7.30	7.00	71.60	12930	L 60 300	[4,30
	Recorded by: [VICLIAM (A)	L10	0) 55	69.50 H.50	29.30		77. Po	36.40			• •
		Lmin	69.40	69.50	8.89	68. Fr	03.89	69.80			
SUMMAKI	Surve	L max	86.10	N.90	B.70	Py. So	83.60	89.10			
	Weather: July	Comment/Source									
	dBA	Time/H Duration Min.	8542-85:60	(a:0) - 85-60	foral -50:01	87.01-80.01	(1013-10-18	10:18-10:23			
	Frequency weightings:	Location	19/2010 A Weste								
	Œ	Date	14/2010						:		

Monitoring Location		Podium, Tower 1, 7	Γhe Pacifica					
Sampling Date		17 September	2010					
Sampling Time		09:17 - 09:47						
Weather Condition		Sunny						
Baseline Noise Level	dB(A)	74.3						
	L _{eq} , dB(A)	75.4						
Monitoring Results	L ₁₀ , dB(A)	77.6						
_	L ₉₀ , dB(A)	73.8						
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 transp	ooration							
Remarks								
With Baseline Correction:	68.9	_dB(A)						
# Note: The measurement level is lo		aseline noise level.						
Therefore, no baseline correction is	calculated		i					
Recorded by : William Law		Date: 17 September 2010	!					

	(An)	L Acq	78.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	26.75	73.20	25 GO	75.50	29-30mm J5-40	10 30mm= 77.60	4080min 13.10
	Recorded by: WILLIAM (AM	L90	J. 20	7. F.	1	}	34.8	73.00	643	L. 30	19.30
	Recorded by: _	L10	68.20 74 30	79.30		35.90	22	77-10			
		Lmin	68.20	30.40	05.99	67.20	64.30	68.20			
SUMMARY	Juny	L max	89.60	91.10	B. 60	f2.30	83.10	79.B			
	Weather:	Comment/Source	,								•••
	ABA.	Time/H Duration Min.	B:17-A:22	12:80-11:80	8:27-09:32	8:32-09:37	8.37-03.42	8-45-03:47			
	Frequency weighings:	Location	boto Ry Actifica								
	T.	Date	19/9/poto						•		

	Podium, Block 7, Liberte								
	22 September 2010								
	09:57 - 10:27								
	Overcast								
dB(A)	73.8								
L _{eq} , dB(A)	73.5								
L_{10} , $dB(A)$	76.2								
L ₉₀ , dB(A)	71.5								
dB(A)	94.0								
dB(A)	94.0								
Calibration after Measurement dB(A) 94.0 Observation(s)									
poration									
	<u> </u>								
#Note	_dB(A)								
	-								
	_dB(A) the baseline noise level								
	-								
el is lower than	-								
	$L_{eq}, dB(A)$ $L_{10}, dB(A)$ $L_{90}, dB(A)$ $dB(A)$ $dB(A)$	09:57 - 10:27 Overcast dB(A) 73.8 L _{eq} , dB(A) 73.5 L ₁₀ , dB(A) 76.2 L ₉₀ , dB(A) 71.5 dB(A) 94.0 dB(A) 94.0 dB(A) 94.0							

				4				- ŋ	3.50	6.20	1,50
	M	LAcq	2410	1	73.80	73.20	1	37.90	02.84 - June pa-	1030 min - 76.20	90 Davis - 71.50
	Recorded by: WILLIAM CAN	L90	7.62	73.80	7.5	70.30	7.3	30.60	ba	, e	9
	Recorded by: _	L ₁₀	76.10 76.60	76.50	26.30	15.B	X	36.00			
		Lmin	Jo. 10	19.30	69.60	69.60	67.70	64.60			
SUMMARY	Cloudy	L max	81.30	ro. go	82.40	81.70	81.60	38.90			
	Weather: Cloudy	Comment/Source									
	dBA	Time/H Duration Min.	如去十十十	(0:07-70:0)	10-07-10-12	10:01-11:01	(0=19-(0122	fo:0-22:0/			
	Frequency weightings:	Location	rate of liberte								
	F.	Date	201/19/2								

Monitoring Location		Podium, Tower 1, The Pacifica
Sampling Date		22 September 2010
Sampling Time		09:21 - 09:51
Weather Condition		Overcast
Baseline Noise Level	dB(A)	74.3
	L_{eq} , $dB(A)$	75.9
Monitoring Results	L ₁₀ , dB(A)	78.5
	L ₉₀ , dB(A)	74.6
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 trans	poration	
		· · · · · · · · · · · · · · · · · · ·
Remarks		
		i
With Baseline Correction :	70.8	_dB(A)
# Note: The measurement level is lo Therefore, no baseline correction is		aseline noise level.
Recorded by : William Law		Date: 22 September 2010

		_Y	ı		· ,	·		5.30	S. 8	4.60
CMJ	L Acq	8.8	×1.0	8.8	74.50	73.70	33.20	-8930mm - 75.90	03.84 - mosco-	195 Som - 74.60
Recorded by: MILI MM LAN	L90	76. A	77.70	75. So	72.40	37.60	72.30	907	ع ا	6
Recorded by:	7.00	fz. 10	81.10	78. bo	77.40	26.82	35.50			•
	Lmin	73 60	72.70	71.50	71.60	70.80	20.60			
SUMMARY ((outly		92.60	91.30	89.60	90.80	89.30	8.20			
Weather:	Comment/Source									
dBA.	Time/H Duration Min.	8.21-09:26	d:26.03.31	26:31-09:36	13.6. 08.41	32.10 - 12.60	d=16-01.51			
Frequency weightings:	Location	mylyon Re Author								
	Date	sox/lither						!		

	Podium, Block 7, Liberte						
	02 October 2010						
	09:52 - 10:22						
	Sunny						
dB(A)	73.8						
L _{eq} , dB(A)	73.4						
L ₁₀ , dB(A)	75.9						
L ₉₀ , dB(A)	73.6						
dB(A)	94.0						
dB(A)	94.0						
oration							
#Note	iB(A)						
#Note	dB(A)						
is lower than th	dB(A) e baseline noise level						
is lower than th							
	L _{eq} , dB(A) L ₁₀ , dB(A) L ₉₀ , dB(A) dB(A)						

	1 .				Ţ	T	Ţ		Leg-30-2-7340	Lio Stamma 75.90	930 mm= 73.60
	L CON	L Acq	72.30	736	73.30	74.74	73.66	73.90	9-30 mm	to House	9030 run
	Recorded by: WILLIAM CAN	L90	\$2.30	7360	73.80	74.50	73.90	73. So		ت	ل
	Recorded by: _	L10	74.Po	75.60	2.2	76.B	75.90	26.20			
		Lnin	09.19	65-90	68.60	67.80	67.60	01.89			
SUMMARY	KNN	L max	Po. (0	79.PV	Se. 70	80.60	79.30	17.7º			
	Weather:	Comment/Source							and a		
	:	Time/H Duration Min.	8:50-8:57	A.57-10:02	£0:07-20:01	21:01-60:01	4):0)-21:01	16217-1022			
	Frequency weightings:	Location	10/2020 Rr Liberte								
	ñ	Date	2/10/2010						:		

Monitoring Location		Podium, Tower 1, The Pacifica					
Sampling Date		02 October 2010					
Sampling Time		09:18 - 09:48					
Weather Condition		Sunny					
Baseline Noise Level	dB(A)	74.3					
	L _{eq} , dB(A)	74.5					
Monitoring Results	L ₁₀ , dB(A)	76.8					
	L ₉₀ , dB(A)	73.9					
Calibration before Measurement	dB(A)	94.0					
Calibration after Measurement	dB(A)	94.0					
Remarks							
Remarks With Baseline Correction:	61.0	dB(A)					
	wer than the ba	. ,					

				 1	,	7		·		T G	0.8	96	
		3	L Acq	76.3	2 2 2	25.10	7.8	34.40	74.30	09 30mm - 7450	Les 30mm - 76.80	m 73.90	
		Recorded by: WILL CAM CAN	L90	33	3 8 5	74.10	75.6	74.00	T	[2,30c	- P 37	(40 30mm)	
		Recorded by: _	Lio	68.50 76.30	75.90	77.60	8.85	26.90	76.30			• •	
			Lmin	68.50	67.90	69.20	68.70	66. Bo	69.60		. *		
	SUMMARY	Survy	L max	Po 70	8.8	29.8¢	81.30	Ab. 20	01.08				
		Weather:	 Comment/Source									Mana	
ENT RECORD		dBA	Time/H Duration Min.	8/518-69:23	09.28-09:28	69:4-61:33	09:33-09:38	8/218-09:43	09:18-8:18				
NOISE MEASUREMENT RECORD		Frequency weightings:	Location	Rz fact es									
Z		Œ	Date	2/10/2010									

Sampling Date		Podium, Block 7, Liberte						
		08 October 2010						
Sampling Time		11:09 - 11:39						
Weather Condition		Sunny						
Baseline Noise Level	dB(A)	73.8						
	L _{eq} , dB(A)	72.8						
Monitoring Results	L ₁₀ , dB(A)	74.9						
·	L ₉₀ , dB(A)	71.6						
Calibration before Measurement	dB(A)	94.0						
Calibration after Measurement	dB(A)	94.0						
Observation(s)								
Hammering noise by (Hammer x 1)								
Fransportation noise by public transp	oration							
)l								
Remarks								
Remarks N/A								
N/A	#Note	dB(A)						
	#Note	_dB(A)						
N/A With Baseline Correction :		_ :						
N/A With Baseline Correction: #Note: The measurement noise level	is lower than	_ :						
N/A With Baseline Correction :	is lower than	_ :						

	1 CAN	L Acq	34. 00	72.60	72.10	71.80	7.8°	74.60	eg 30 mm = 73.80	L10 30 mm = 74.90	Lgs 30mm= 71.60
	Recorded by: WILLIAM CAN	L-90	73.00	72.00	708	30.96	to.to	72.10	Lay 30 m	L10 30 m	Lgs 30~
	Recorded by: _	L10	35.20	75.30	24.20	74.60	74.10	16. M			
		Lain	70.60	68.60	66.40	66.50	66.50	08:49			
SUMMARY	Cloudy	L max	7. P	78.30	So. 70	B.So	82.60	87.70			
	Weather	Comment/Source									
	dBA	Time/H Duration Min.	J:11-60:11	6=1)-31-[]	16:19-11:29	K=10-3x=]	h(-1)-b(<1)	11:34-(1:3/1			
	Frequency weightings:	Location	Stototo Ri Libra								
	<u>.</u> [Date	8/0/2010								

Monitoring Location		Podium, Tower 1, The Pacifica
Sampling Date		08 October 2010
Sampling Time		10:31 - 11:01
Weather Condition	•	Overcast
Baseline Noise Level	dB(A)	74.3
	L _{eq} , dB(A)	75.1
Monitoring Results	L ₁₀ , dB(A)	77.3
	L ₉₀ , dB(A)	74.7
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 transp	ooration	
Remarks		
With Baseline Correction:	67.4	_dB(A)
		:
# Note: The measurement level is lo		aseline noise level.
Therefore, no baseline correction is	calculated	
		1
Recorded by : William Law		Date: 08 October 2010

	7	L Acq	30	1 L	H. 60	75.20	2	32.90	eg 30 mm = 75.10	-65 John = 47.30	19030min= 747
SUMMARY	5	1	36.30	 	4	74.	75.60		12 12	4	Wark 1
	Recorded by: WILL AN CAN	L90	76.9	75 20	36.8	20	2,5	33.40	10930	L63	L9.30
	Recorded by: _	L10	79.36	37.60	78.30	36 60	36.56	35.70			
		Lmin	17.50 71.10	20.20	28	69.60	68.30	69.60			
	Cloudy	L max	17.50	86.90	88.30	88.10	82.90	87.30			
	Weather: Cloudy	Comment/Source									
	dBA	Time/H C Duration Min.	18:01-18:01	16:01-98:07	9h=07-150)	10:46-10:51	75:01-15:0)	10:56 - (1:0[·		
	Frequency weightings: _	Location	Mobile Remoter								
-	Ë.	Date	8/10/2018								