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> Development at Former Marine Police Headquarters KIL 11161 Quarterly Environmental Monitoring & Audit Report for September 2008 – November 2008

(Ref No. 3.12/050/2006)

January 2009

Report Certified by the		
Environmental Team		
Leader:		
Report Verified by the		
Independent		
Environmental		
Checker:		

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EXECUTIVE SUMMARY

This is the eighteenth Quarterly Environmental Monitoring & Audit Report prepared by Nature & Technologies (HK) Ltd. for the development of the former Marine Police Headquarter. This report documents the impact environmental monitoring and audit work in the period from September 2008 to November 2008. Site audit inspections were performed by Environmental Team at least once per week and by the Independent Environmental Checker at least once per month.

Infrastructure furnishing was the major construction activity carried out within the Project site for the quarter.

Air and noise monitoring have been carried out in accordance with the EM&A Manual. Tree photographic survey is also provided in Appendices of the Monthly EM&A Reports for September 2008 to November 2008.

The High Volume Sampler located at Air Quality Monitoring Station A2a was removed during the dismantling of site hoarding on 18 August 2008. Approval was received from the EPD on 30 September 2008 to shift the air quality monitoring from A2a to A2b to suite the site development. Therefore, no 1-Hr and 24-Hr TSP measurement at A2a/A2b had been conducted in September 2008. 24-Hr TSP was also not conducted on 10 September 2008 at A3a and A4 due to power cut.

Bi-monthly water quality sampling was not conducted in this report period as there was no wastewater discharged from the water treatment plant and due to the completion of drainage connection works.

No other notifications of summons, prosecutions or non-compliances were received. The site was generally satisfactory and some improvement measures are recommended for further pursuit. These include proper covering of storage piles, watering to suppress dust emission, proper display of Construction Noise Permit and Environmental Permit and continuing protection of preserved historical building and trees.

1. Introduction

- 1.1 Hien Lee Engineering Co., Ltd. ["HL"] has taken over the site in May 2007 to carry out the remaining excavation work, building foundation and superstructure & furnishing for the development of FMPHQ. HL in turn has commissioned N&T to continue with the EM&A work for the project from May 2007 onwards.
- 1.2 Pursuant to Clauses 2.3 of the Environmental Permit ["EP"] EP-184/2004 of the project, the draft EM&A Manual was submitted on 29 April 2004 and the revised version was later approved in end July 2004. Due to project changes, the EM&A Manual was revised in May 2006. Further revision of the EM&A Manual to cater for the present phase of the construction works was submitted to EPD and approval was granted on 22 June 2007.
- 1.3 This report documents the quarterly EM&A work and summarizes its findings for the quarterly period from September 2008 to November 2008. This is the eighteenth quarterly report documenting the EM&A work since the commencement of the construction work.

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2. Project Information and Progress

Environmental Status

- 2.1 The location, site layout, historic buildings and structures to be preserved of the Project are shown in Figure 2.1.
- 2.2 Ms Vivian Chan was assigned as the new Independent Environmental Checker ["IEC"] for the report period.
- 2.3 The project organization, management structure and general lines of communication with respect to environmental protection works are shown in Figure 2.2 and the present key contacts are given in Table 2.1. Environmental Protection Department ["EPD"] is the control authority and may contact any party where necessary for their statutory duties.

Table 2.1 Key Contacts of the Project Team

Party	Company	Contact Person	Phone
Permit Holder	Flying Snow Ltd.	Mr H S Chan	2112 2634
Project Architect	A+T Design Ltd.	Mr Daniel Lin	2858 4778
Contractor	Konwall Construction &	Mr Eric Kwok	2563 1233
(up to April 2007)	Eng. Co., Ltd.		
Contractor	Hien Lee Engineering	Mr Howard Lui	9108 3955
(commencing May	Co., Ltd.		
2007)			
Independent	CH2M HILL Hong Kong	Ms Vivian Chan	2872 2929
Environmental	Limited		
Checker			
Environmental	Nature & Technologies	Ir Dr Gabriel C K	2877 3122
Team ["ET"] Leader	(HK) Ltd.	Lam	

Construction Programme, Works Undertaken & Status

- 2.4 The updated construction programme with milestones of environmental protection / mitigation activities annotated is given in Appendix A.
- 2.5 Superstructure furnishing was the main activity carried out within the project site in the quarter.

Monitoring Locations

- 2.6 Designated air quality and noise monitoring locations were selected for impact monitoring based on the EM&A Manual Section 3.8. They are shown in Figure 2.3. Air quality monitoring locations are briefly described below:
 - A1 is located on the rooftop of the Consumer Council office east of the construction site, estimated to be about 11m above ground.
 - A2 is at the Cultural Centre Studio Theatre podium level south of the construction site, estimated to be about 5m above ground. Monitoring at this location has not yet commenced at the time of preparation of this report as permission to carry out monitoring there has not been received.

- A2a is at south boundary of the construction site facing the Cultural Centre Studio Theatre selected as an alternative location to A2 in consultation with the IEC, estimated to be about 6m above ground. This is needed since permission from the Cultural Centre for monitoring there is not yet received and in order to reduce the delay to the construction programme by the permission.
- A2b is situated just outside of the building at the junction of Salisbury Road and Kowloon Park Drive, about 10m east of the earlier station A2a.
 The elevation is about the same as the original A2a.
- A3 is at the west site boundary of the construction site on top of the
 existing hoarding, estimated to be about 5m above ground. This position
 is slightly different to that originally proposed in the Project Profile due to
 the inability to obtain permission to gain access to the building at Star
 House or Marco Polo Hongkong Hotel for measurement and that the
 present revised position will provide a more conservative measurement for
 environmental protection
- A3a is situated just outside of the cordon area of the tree T96, positioned as close to Canton Road as possible and is about 20m south-east of the earlier station A3. The replacement of A3 with A3a was required due to the dismantling of west hoardings hence the removal of platform that host the air sampler. Approval for the replacement was granted by EPD on 14 May 2008 and monitoring at A3a was commenced on 21 May 2008 after installation completion.
- A4 is at the site boundary north of the construction site on top of the existing hoarding, estimated to be about 13m above ground.
- 2.7 The noise monitoring locations, namely CN1a (on the roof of Po Yip Building) & CN2a (on the 4/F YMCA), were selected for the impact noise monitoring. These locations are made up for the locations at CN1 & CN2 (podium of Hankow Centre east of the construction site) carried out for the baseline noise monitoring as Hankow Centre no longer permit to enter the premises for noise measurement since 28 May 2004. These locations are also shown in Figure 2.3 and are located on the roof of Po Yip Building and 4/F YMCA facing the east of the site.
- 2.8 The other monitoring locations are indoor of Hong Kong Cultural Centre ["HKCC"] (4/F Studio Theatre End Stage, 1/F Concert Hall & 1/F Grand Theatre) and Hong Kong Space Museum ["HKSM"] (G/F Lecture Room, 1/F Recording Studio & 1/F Sky Theatre) for ground-borne noise monitoring purpose.

Summary of EM&A Requirements

2.9 The environmental monitoring requirements given in this manual can be summarised as follows:

Table 2.2 Environmental Monitoring Summary Requirements

- 1. Air monitoring for 24-hour Total Suspended Particulates ["TSP"] with high volume samplers at four locations
 - Baseline continuously for14 consecutive days
 - Impact once every six-days
- 2. Air monitoring for 1-hour TSP with portable equipment at four locations
 - Baseline 3 times per day for 14 days
 - Impact 3 times per day, one day for every six-days
- 3. Noise measurement at two noise sensitive receiver locations (Leg, 30 min, Leg, 5 min,

	L ₁₀ and L ₉₀)
	Baseline – daily between 0700-1900 for 2 weeks
	 Impact – weekly between 0700-1900 hours on a normal weekday
4.	Ground-borne noise measurement inside HKSM and HKCC (Leq,30 min / Leq,5 min)
	Baseline – one time before commencement of piling works
	 ■ Impact – once per month on a normal weekday
5.	Building Settlement Marker
	Baseline – one time before commencement of piling works
	 ■ Impact – once per two days on a normal weekday
6.	Ground Settlement Marker
	Baseline – one time before commencement of piling works
	 Impact – once per two days on a normal weekday
7.	Crack Monitoring (Tell-Tale Device)
	Baseline – one time before commencement of piling works
	 Impact – once per two days on a normal weekday

2.10 Site inspection by the ET should be carried out at least once per week and IEC at least once per month to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. Report submissions should include Baseline Monitoring Report, Monthly, Quarterly and Final EM&A Reports. These reports should include photographic records for landscape and tree preservation, and monument structure monitoring records for heritage protection.

Environmental Quality Performance Limits

2.11 The calculation of the Action and Limit ["AL"] Levels for dust and noise were based on the baseline monitoring results. The AL levels for dust are set in Table 2.3.

Table 2.3 AL levels for 1-hour and 24-hr TSP

Location	1-hour TSP		24-hour TSP	
Location	Action	Limit	Action	Limit
A1	382	500	191	260
A2a/A2b	394	500	193	260
A3a	389	500	182	260
A4	384	500	187	260

2.12 As per requirements of the EM&A Manual, the AL Levels for noise were established as in Table 2.4 AL levels.

Table 2.4 AL levels for impact noise monitoring locations

Time Period	Action	Limit
0700-1900 hrs on normal	When one	75* dB(A)
weekdays	documented	,
0700-2300 hrs on holidays; and	complaint is	65 * * dB(A)
1900-2300 hrs on all other days	received	05 UB(A)
2300-0700 hrs of next day	received	50** dB(A)

 $^{^{*}\,}$ reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

2.13 The corresponding AL levels for ground borne noise indoor of HKCC and HKSM are as per Table 2.5.

^{**} Based on Area Sensitivity Rating 'B'.

Table 2.5 AL levels for HKCC and HKSM

Location	Action	Limit
HKCC	When one	60 dB(A)
HKSM Recording Studio (1/F)	documented	60 dB(A)
HKSM Sky Theatre (1/F)	complaint is	60 dB(A)
HKSM Lecture Room (G/F)	received	60 dB(A)

2.14 For monitoring of the monument structure during construction works, the AL levels given in Table 2.6 are adopted.

Table 2.6 AL levels of monument structural monitoring

Instrument	Unit	Alert	Alarm	Action
Ground Settlement Markers	Mm	10	15	20
Building Settlement Markers	Mm	5	8	10
Building tilting & settlement	-	1:2000	1:1500	1:1000
Tell-tales	Mm	5	8	10

Implementation Status

- 2.15 The construction and operational phase impacts of the project have been assessed and presented in the Project Profile submitted in November 2003. The Project Profile also specified the recommended environmental mitigation measures to minimize the potential adverse environmental impacts identified. An implementation schedule of the recommended environmental mitigation measures is prepared as part of the Project Profile is contained in Appendix B.
- 2.16 Site environmental audits were carried out by ET on a weekly basis and by IEC at least once per month to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. Site audit checklist reports and recommendations are given in Appendices of the Monthly EM&A Reports for September 2008 to November 2008.
- 2.17 The conditions of the site and the implementation of various environmental protection measures have been generally satisfactory. Superstructure furnishing was the major construction activities in the reporting quarter. The followings were noted for this quarterly period:
 - Proper covering of storage piles.
 - Watering to suppress dust emission.
 - Proper display of Construction Noise Permit and Environmental Permit.
 - Continual protection and closer monitoring of the trees and historical buildings.
- 2.18 The summary status of the submission under the EP is given in Table 2.7.

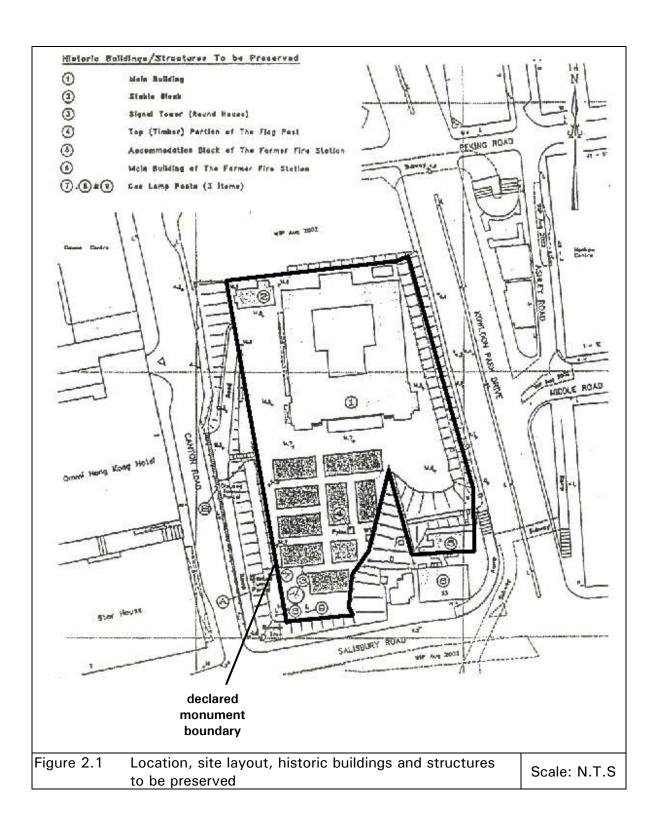
Table 2.7 Status of submission under EP up to 30 November 2008

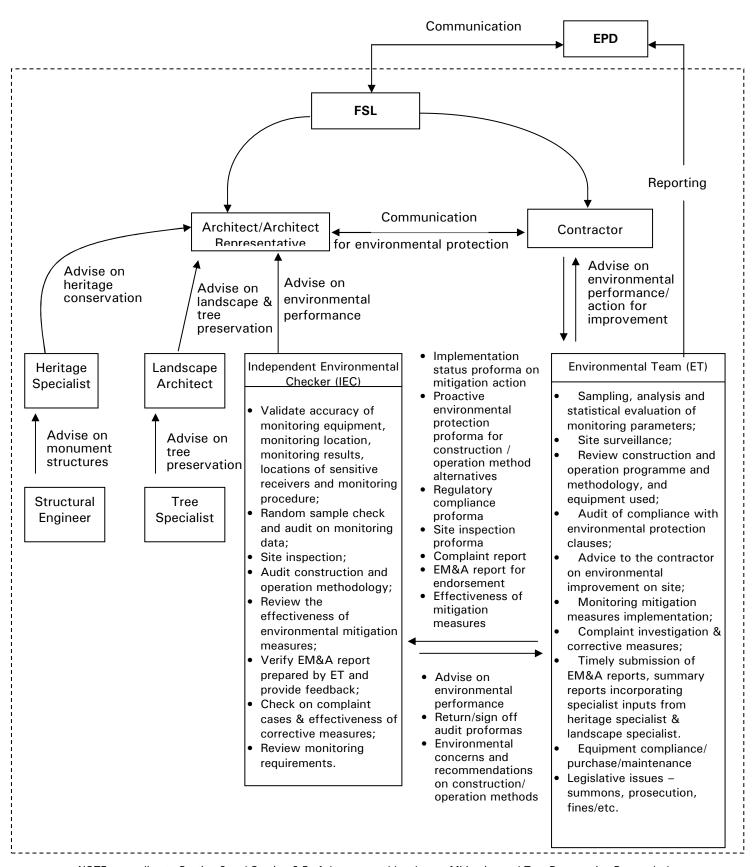
Item No.	Description	Submission Date to EPD
1.	Method Statement detailing the protective measures on declared monument buildings	06/02/2004
2.	Landscape Mitigation and Tree Preservation Proposal	06/02/2004

		1
3.	Draft EM&A Manual	29/4/2004
4.	Revised Landscape Mitigation and Tree Preservation Proposal	15/05/2004
5.	Draft Waste Management Plan	14/06/2004
6.	Final Method Statement detailing the protective measures on	14/06/2004
	declared monument buildings which is approved	14/00/2004
7.	Final Landscape Mitigation and Tree Preservation Proposal	21/06/2004
8.	Baseline Monitoring Report	25/06/2004
9.	Monthly EM&A Report for June 2004	21/07/2004
10.	Revised EM&A Manual (Rev. 1) which is approved	26/07/2004
11.	Revised Landscape Mitigation and Tree Preservation Proposal	26/07/2004
	which is approved	20/07/2004
12.	Revised Waste Management Plan which is approved	17/08/2004
13.	Monthly EM&A Report for July 2004	25/08/2004
14.	Revised EM&A Manual (Rev. 2) which is approved	06/09/2004
15.	Monthly EM&A Report for August 2004	21/09/2004
16.	Quarterly EM&A Report for June to August 2004	06/10/2004
17.	Monthly EM&A Report for September 2004	27/10/2004
18.	Monthly EM&A Report for October 2004	15/11/2004
19.	Monthly EM&A Report for November 2004	25/12/2004
20.	Quarterly EM&A Report for September to December 2004	20/01/2005
21.	Monthly EM&A Report for December 2004	28/01/2005
22.	Monthly EM&A Report for January 2005	18/03/2005
23.	Monthly EM&A Report for February 2005	04/04/2005
24.	Monthly EM&A Report for March 2005	10/04/2005
25.	Quarterly EM&A Report for December 2004 to February 2005	13/04/2005
26.	Revised EM&A Manual (April 2005) which is approved	11/05/2005
27.	Revised Waste Management Plan (April 2005) which is approved	11/05/2005
28.	Monthly EM&A Report for April 2005	13/06/2005
29.	Monthly EM&A Report for May 2005	09/07/2005
30.	Quarterly EM&A Report for March to May 2005	29/07/2005
31	Monthly EM&A Report for June 2005	08/08/2005
32	Monthly EM&A Report for July 2005	02/09/2005
33	Monthly EM&A Report for August 2005	14/10/2005
34.	Quarterly EM&A Report for June to August 2005	28/10/2005
35.	Monthly EM&A Report for September 2005	04/11/2005
36.	Monthly EM&A Report for October 2005	21/12/2005
37.	Monthly EM&A Report for November 2005	7/1/2006
38.	Quarterly EM&A Report for September to November 2005	12/1/2006
39.	Monthly EM&A Report for December 2005	09/2/2006
40.	Monthly EM&A Report for January 2006	07/3/2006
41.	Monthly EM&A Report for February 2006	31/3/2006
42.	Quarterly EM&A Report for December 2005 to February 2006	6/4/2006
43.	Monthly EM&A Report for March 2006	11/5/2006
44.	Revised EM&A Manual	11/5/2006
45.	Revised Waste Management Plan (WMP)	11/5/2006
46.	Monthly EM&A Report for April 2006	9/6/2006
47.	Monthly EM&A Report for May 2006	13/7/2006

Table 2.7(continued) Status of submission under EP up to 30 November 2008

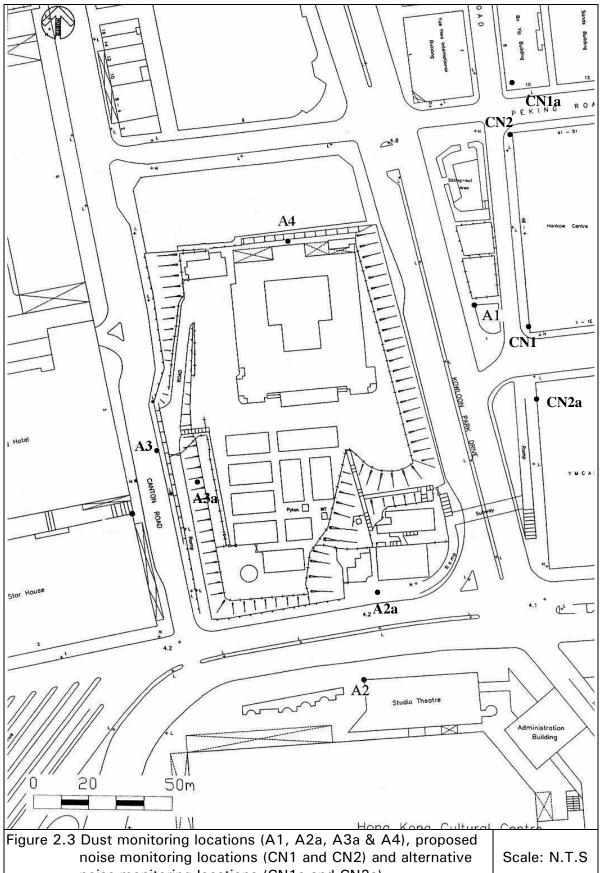
Item	2.7(continued) Status of Submission under EP up to 30 November 20		
No.	Description	Submission Date to EPD	
48.	Monthly EM&A Report for June 2006	11/8/2006	
49.	Quarterly EM&A Report for March 2006 to May 2006	11/8/2006	
50.	Monthly EM&A Report for July 2006	14/9/2006	
51.	Monthly EM&A Report for August 2006	11/10/2006	
52.	Quarterly EM&A Report for June 2006 to August 2006	28/10/2006	
53.	Monthly EM&A Report for September 2006	6/11/2006	
54.	Monthly EM&A Report for October 2006	15/12/2006	
55.	Monthly EM&A Report for November 2006	6/1/2007	
56.	Monthly EM&A Report for December 2006	2/3/2007	
57.	Monthly EM&A Report for January 2007	16/3/2007	
58.	Monthly EM&A Report for February 2007	17/4/2007	
59.	Monthly EM&A Report for March 2007	4/5/2007	
60.	Quarterly EM&A Report for December 2006 to February 2007	4/5/2007	
61.	Revised EM&A Manual	12/6/2007	
62.	Revised Waste Management Plan (WMP)	12/6/2007	
63.	Monthly EM&A Report for April 2007	12/6/2007	
64.	Monthly EM&A Report for May 2007	14/7/2007	
65.	Quarterly EM&A Report for March 2007 to May 2007	14/7/2007	
66.	Monthly EM&A Report for June 2007	14/8/2007	
67.	Monthly EM&A Report for July 2007	10/9/2007	
68.	Monthly EM&A Report for August 2007	16/10/2007	
69.	Quarterly EM&A Report for June 2007 to August 2007	16/10/2007	
70.	Monthly EM&A Report for September 2007	28/11/2007	
71.	Monthly EM&A Report for October 2007	27/12/2007	
72.	Monthly EM&A Report for November 2007	19/1/2008	
73.	Quarterly EM&A Report for September 2007 to November 2007	19/1/2008	
74.	Monthly EM&A Report for December 2007	15/2/2008	
75.	Monthly EM&A Report for January 2008	11/3/2008	
76.	Monthly EM&A Report for February 2008	14/4/2008	
77.	Quarterly EM&A Report for December 2007 to February 2008	14/4/2008	
78.	Monthly EM&A Report for March 2008	24/5/2008	
79.	Monthly EM&A Report for April 2008	28/6/2008	
80.	Revised EM&A Manual	3/7/2008	
81.	Monthly EM&A Report for May 2008	25/7/2008	
82.	Monthly EM&A Report for June 2008	30/8/2008	
83.	Quarterly EM&A Report for March 2008 to May 2008	30/8/2008	
84.	Monthly EM&A Report for July 2008	16/9/2008	
85.	Monthly EM&A Report for August 2008	13/10/2008	
86.	Monthly EM&A Report for September 2008	19/11/2008	





NOTE: according to Section 2 and Section 6.5 of the approved Landscape Mitigation and Tree Preservation Proposal, the Landscape Architect and the Third Party Tree Specialist are responsible to carry out their duties on monitoring landscape and tree preservation aspects for the above project during the construction and the establishment period.

Figure 2.2 Project Organisation, Management & Lines of Communication



noise monitoring locations (CN1a and CN2a).

3. Monitoring Results

Weather Condition

3.1 The weather during monitoring sessions varied from sunny to cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

Air Quality

- 3.2 The monitoring data of 1-hour and 24-hour TSP levels are attached in Appendices of the Monthly EM&A Reports for September 2008 to November 2008. The graphical presentations of the monitoring results are shown in Appendix C.
- 3.3 The summary of the air quality exceedances is attached in Appendix D.
- 3.4 1-hour and 24-hour TSP monitoring at A1, A3a and A4 were conducted as scheduled in the quarter. No 1-Hour and 24-Hour TSP monitoring was conducted at A2a in September 2008 and air monitoring at A2a was approved to relocated to A2b on 30 September 2008 by the EPD. 1-hour and 24-hour TSP measurements at A2b was resumed in October and November 2008. No AL Levels exceedance for 1-hour and 24-hour TSP was recorded in the quarter.

Noise

- 3.5 All noise monitoring for CN1a & CN2a were conducted as scheduled in the quarter. Noise monitoring data are attached in Appendices of the Monthly EM&A Reports for September 2008 to November 2008. The graphical presentations of the monitoring results are shown in Appendix E. Ground-borne noise measurements were not conducted inside Hong Kong Science Museum (HKSM) and in Hong Kong Cultural Centre (HKCC) for the quarter as there were no piling and excavation conducted in the reporting period.
- 3.6 No Limit Level exceedence was recorded during September 2008 to November 2008.

Water Quality

3.7 Wastewater sampling was not carried out in the reporting period as there was no wastewater discharge from the wastewater treatment plant. The existing drainage system was also completed and brought in operation.

Cultural Heritage and Landscape

- 3.8 The settlement monitoring was stopped in end April following approval by government as advised by the Contractor. No adverse comments on the structural integrity of the protected monuments have been received from the Heritage Specialist.
- 3.9 Inspection with horticulture specialist for T66/T67 was conducted in late September. Pruning on T66/T67 was suggested.

- 3.10 Close monitoring will be continued on T10, T54, T66, T67, T96, T120, T121 and T122.
- 3.11 Detailed on-site and off-site tree matters are being covered in the separate submissions to Planning Department under the approved landscape Mitigation and Tree Preservation Proposal.

4. Waste Management

- 4.1 According to the Waste Management Plan, all Construction & Demolition materials were recorded in the period from September 2008 to November 2008.
- 4.2 Types, quantities and disposal location of all surplus excavated materials and wastes arising from the site are summarised in Table 4.1 based on information from the Contractor. There were only general refuse and excavated soil disposal in the quarter.

Table 4.1 Summary of the wastes arising from the site from September 2008 to November 2008

Date	Quantity (tonnes)			
Date	Soil Sorting		General Refuse	
September 2008	134.4	344.1	80.2	
October 2008	0	109.3	20.4	
November 2008	9.3	96.0	16.5	

Note: SENT - South East New Territories Landfill Site

SYP - Public filling barging point at Sai Ying Pun (Public Filling Facility)

TKO - Fill Bank at Tseung Kwan O Area 137 (Public Filling Facility)

QB - Quarry Bay Barging Point

TM - Fill Bank at Tuen Mun Area 38

MW - Ma Wan Development -VDA Phase 3

- 4.3 There is need for the Contractor to obtain disposal records from the Authority as soon as the wastes are disposed at the Public Filling Facility and/or Landfill to check against the estimated quantities removed off site.
- 4.4 Chemical waste storage area was removed due to the lack of chemical waste produced. Contractor is reminded to reinstate the proper chemical waste storage area if there is chemical waste produced.

- 5. Summary of Non-compliance, Complaints, Notification of Summons and Successful Prosecutions, Environmental Licensing and Permitting
- 5.1 Further revision of the WMP to cater for the present phase of the construction works was submitted and approved by EPD on 12 June 2007.
- 5.2 No environmental prosecution was received in the quarter.
- 5.3 Status of environmental licensing and permitting are summarized as follows:

Table 5.1 Status of Environmental Licensing and Permitting

Description	Permit / Licence No.	Status	Permit Holder
Environmental Permit	EP-184/2004	Remain valid since 9 February 2004	Flying Snow Ltd.
WPCO Discharge Licence	RE/0907/211/1	Valid until 30 June 2012	Hien Lee Engineering Co., Ltd
Chemical Waste Producer Registration	5213-111-H2929-14	Remains valid since 2 August 2007	Hien Lee Engineering Co., Ltd

- 5.4 No other notifications of summons, prosecutions or non-compliances were received. No exceedance on noise Limit Level and 1-hour and 24-hour TSP Limit Level was recorded in the reporting quarter.
- 5.5 Summary on the complaints received since works commencement are summarised in Table 5.2

Table 5.2 Summary of the Complaints Received Since Work Commencement										
Log No.	Date of Complaint	<u>Description</u>	Status							
2004 001	19 and 21/6/2004	Noise from piling affected 1	Resolved by							
2004-001	19 dilu 21/0/2004	Peking Road during the daytime	rescheduling							
			Investigation showed							
		1-hr TSP Exceeded the Limit	nothing special on site.							
2004-002	19/8/2004	level at A1, A2a, A3 and A4	Repeat sampling had							
		lever at AT, AZa, AS and A4	been conducted and							
			result is pass							
			Investigation showed							
		1-hr TSP Exceeded the Limit	no site activities during							
2004-003	16/9/2004	level at A1, A3 and A4	the monitoring period,							
		level at A1, A3 and A4	no repeat sampling							
			was done							
			No percussive piling							
2005-001	27/1/2005	Noise from piling affected 1	was used, complaint							
2003-001	27/1/2003	Peking Road during the daytime	resolved by							
			rescheduling							
2005-002	27 and 30/4/2005	Noise from construction affected	Resolved as the noise							
2000-002	27 and 30/4/2000	Marco Polo Hongkong Hotel	level is acceptable							
		Muddy water overflow from site	Resolved after							
2005-003	8 and 22/8/2005	to nearby storm water drainage	mitigation measures							
		system	were made							
		Muddy water overflow from site	Resolved after							
2005-004	8 and 22/8/2005	to nearby storm water drainage	mitigation measures							
		system	were made							
2006-001	15/12/2006	Consistent noise affected Hong	Resolved by							
2000-001	13/12/2000	Kong Cultural Center	rescheduling							
			Resolved after							
		Public complaint concerning	investigation showed							
2007-001	3/1/2007	possible use of percussive piling	no percussive piling							
		possible use of percussive plining	was used and							
			mitigation was made							
			Resolved after							
			mitigation suggested							
2007-002	19/1/2007	24-hr TSP exceedance at A3	and subsequent							
			measurement pass the							
			limit level							
			Resolved after							
		Construction noise affected	obtaining performance							
2007-003	23/1/2007	performance in Hong Kong	schedule in HKCC and							
		Cultural Center	reschedule excavation							
			to avoid disturbance							
	.	Construction noise affected	Additional noise mats							
2007-004	2/2/2007	YMCA Hotel guests	were suggested to be							
		J	installed							
0007 555	F /0 /00 = =	Construction noise affected	Additional noise mats							
2007-005	5/3/2007	YMCA Hotel guests	were suggested to be							
		3	installed							
0007.007	F /0 /000=	Noise level exceedance at N2	Additional noise mats							
2007-006	5/3/2007	(YMCA) recorded	were suggested to be							
			installed							
		Violation to Noise Control	Resolved after							
2007-007	5/3/2007	Ordinances by not showing	contractor was							
		proper noise labels for operating	reminded to put the							
		compressors	original copy on site.							

Log No.	Date of Complaint	Description	Status				
		Noise level exceedance at N2	Additional noise mats				
2007-008	9/3/2007	(YMCA) recorded	were suggested to be				
		(TIVICA) recorded	installed				
2007-009	16/3/2007	Air nuisance affected the public	Resolved after tarpaulin				
2007-009	10/3/2007	·	sheets were installed				
2007-010	15/3/2007	Construction noise affected	Resolved after				
2007 010	13/3/2007	YMCA Hotel guests	excavation completed				
2007-011	20/3/2007	Construction noise affected	Resolved after				
2007-011	20/3/2007	YMCA Hotel guests	excavation completed				
2007-012	3/4/2007	Construction noise affected	Resolved after				
2007 012	3/4/2007	YMCA Hotel guests	excavation completed				
2007-013	10/4/2007	Noise level exceedance at N2	Resolved after				
2007 010	10/4/2007	(YMCA) recorded	excavation completed				
2007-014	19/4/2007	Noise level exceedance at N2	Resolved after				
2007 014	10/4/2007	(YMCA) recorded	excavation completed				
		Construction noise affected	Resolved after				
2007-015	5/5/2007	performance in Hong Kong	communication channel				
200, 010	0/0/2007	Cultural Center	agreed for future noise				
		Cartarar Correct	sensitive performances				
		Public complaint against air	Resolved after				
2008-001	1/4/2008	Inuisance	mitigation measures				
			has been installed				
		EPD observed the water	Resolved after				
2008-002	3/4/2008	treatment system was idle and	communication was				
	5, 1, 2000	plastic pipe installed to a	made with all				
		roadside gully	subcontractors				
		EPD observed a number of non-					
		compliance including inadequate					
		wheel washing facilities, tire					
		track observed at site entrance,	Resolved after				
2008-003	23/7/2008	surface run-off was not diverted	contractor rectified the				
		to the on-site treatment	problems				
		facilities, on-site treatment was	'				
		not found, stockpile spoils were					
		not covered with tarpaulin and					
		wastes are not stored properly					

6. Conclusion

- 6.1 EM&A work for September 2008 to November 2008 has been successfully completed.
- 6.2 Bi-monthly water quality sampling was conducted in the reporting quarter due to no wastewater discharge from the wastewater treatment plant and <u>as the</u> existing drainage system was completed and brought in operation
- 6.3 No Limit Level exceedance on noise was found in the reporting quarter.
- 6.4 No Limit Level exceedance on 1-hour and 24-hour TSP was found in the reporting quarter.
- 6.5 No other notifications of summons, prosecutions or non-compliances was received in the reporting quarter. Proper environmental licence and permits are in place.
- 6.6 Monitoring of the monument structure and trees was also made.
- 6.7 Site audits were carried out by ET on a weekly basis and by IEC at least once per month. The following improvements are to be further pursued:
 - Proper covering of storage piles.
 - Watering to suppress dust emission.
 - Proper display of Construction Noise Permit and Environmental Permit.
 - Continual protection and closer monitoring of the trees and historical buildings.

Appendix A:	The construction protection/mitigati	programme ion activities	with	milestones	of	environmental

Updated Construction Programme

Phase	Description	2004					2	2005						2006						200	7									2	2008				
Hase	Description	6	1	2	3	4	5 6	7	8	9	10	11	12	1	1	2	3	4	5	6	7 8	3 9	9 1	0 1	1 12	1	2	3	4 !	5 6	6 7	8	9 1	10 1	1 12
1	Site Formation																																		
1.1	Site Formation - Tree Retaining, Underpinning & Tree Column																																		
1.2	Site Formation - Retaining wall for Main Building																																		
	Site Formation - Open Cut Excavation																																		
	Site Formation - Remaining Excavation																																		
2	Building Foundation																																		
3	Superstructure & Furnishing																																		

General Mitigation Measures

7/6/2004: All mitigation measures in place except wheel washing pond & barrier mat.

25/6/2004: Sound barrier mat ready. 9/7/2004: Wheel washing pond provided.

May 2007: setup of scaffolding supported noise screen.

Wastewater Discharge

June 2004: Zero discharge from site 9/7/2004: Discharge Licence approval

7/5/2007: Application of WPCO Discharge Licence.

22/6/2007: Discharge Licence approval

Construction Noise Permit

19/10/2005: Construction Noise Permit ["CNP"] for submersible pumps.

22/2/2006: CNP renewed. 26/7/2006: CNP renewed. 9/2/2007: CNP Expired.

April 2007: Application of CNP by HL.

Chemical Wastes

02/08/2007: Waste Producer Registration Completed

Appendix B:	Implementation schedule for recommended mitigation measu	res

Implementation Schedule Redevelopment of Former Marine Police Headquarters, KIL11161

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Fugitive Dust Impact on the Surrounding Sensitive Uses					
4.1.2.10	To erect site hoarding of at least 2.4m high along the boundaries of the Project Site (particularly along the northern boundary adjacent to No. 1, Peking Road) except at the site entrance/ exit	Site (site boundary)	Site Formation Contractor (for maintenance or improvement as the hoarding was already erected by the Hoarding Contractor earlier)	Construction Phase (prior to construction)	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Provide shielding against dispersion of fugitive dust
	To control truck speed to within 8 km/hr and that dusty vehicle loads transported to and from the work location should be covered by tarpaulin sheets and should not be overloaded	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
	To provide vehicle wheel washing facilities including high pressure water jets at designated vehicle exit points	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
	To use impervious sheeting where practicable for side enclosure and covering of any aggregate or other dusty material storage piles, to place stockpiles in an area sheltered on the top and the three sides, and/or to spray with water	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	To cover the demolished items by impervious sheeting or to place in area sheltered on the top and the three sides within a day of demolition.	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
	To spray all dusty material with water prior to loading, unloading or transfer so as to maintain the C&D material wet	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
	To apply wet suppression at least four times per day at the worksites with active dusty operations and to water all dust emission sources when necessary. The frequency shall be increased when the weather is dry	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
	To control the drop height of excavated materials to a minimum to limit fugitive dust generation from unloading as far as practicable	Site	Site Formation Contractor	Construction Phase	TM-EIA, APC(CD)R & AQO in APCO	To control fugitive dust emissions in accordance with the requirements of Air Pollution Control (Construction Dust) Regulation in principle; Reduce fugitive emission wherever possible
5.2.1.3	To carry out EM&A programme	Site	Site Formation Contractor & Superstructure Contractor	Pre-Construction and Construction Phase	TM-EIA & AQO in APCO	To proactively monitor fugitive dust impact and take necessary action against any unacceptable impact

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Construction Noise Impact on the Surrounding Sensitive Uses					
4.2.1.5	To restrict operation to within non-restricted hours only	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	NCO	To avoid generation of noise during restricted hours under NCO
4.2.1.11	To use quiet PME with lower sound power level	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	TM-EIA	To reduce noise generation and in turn the construction noise impact
	To provide site hoarding of 4m to 6m high along the eastern boundary with sufficient surface density (10 to 15 kg/m²), use of noise curtain or other mitigation measures for noise abatement as soon as Action Level is exceeded and confirmed to be due to the construction works	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	TM-EIA	To provide noise shielding or equivalent measures to reduce construction noise impact as per @ or equivalent subject to IEC/ AR's agreement.
	To adopt noise enclosure and temporary noise barriers with sufficient surface density (10 to 15 kg/m²) (vertical and cantilevered types)	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	TM-EIA	To provide noise shielding to reduce construction noise impact or equivalent measures subject to IEC/ AR's agreement.
	To make use of the topography by carrying out excavation from west to east so that the original platform can act as effective noise barrier	Site	Site Formation Contractor	Construction	TM-EIA	To provide noise shielding to reduce construction noise impact or equivalent measures subject to IEC/ AR's agreement.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
4.2.1.12	 To implement good site practice and noise management To submit to the Engineer for approval the method of working, equipment and sound-reducing measures intended to be used at the site before the commencement of any work To allow only well-maintained plants to operate on-site; To service the plants regularly during the construction program; To shut down or throttle down machines that may be in intermittent use to a minimum between work periods; To utilize and maintain silencer and mufflers on construction equipment during the construction program; To schedule noisy activities to minimise exposure of nearby NSRs to high levels of construction noise. For example, noisy activities can be scheduled for midday or at times coinciding with periods of high background noise (such as during peak traffic hours); To site noisy equipment such as emergency generators as far away as possible from NSRs; To site mobile plants as far away from NSRs as possible; and To utilize material stockpiles and other structures as noise barrier, where practicable. 	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	NCO & TM-EIA	To reduce noise generation and its impact in accordance with NCO and its subsidiary regulations

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
4.2.1.23	No percussive piling	Site	Site Formation Contractor	Construction Phase	TM-EIA & NCO	To eliminate possibility of generating any significant ground borne noise impact
4.2.1.81	To avoid concurrent pipe piles driving near the tree ring and the Main Building when the pipes near the Main Building is about to penetrate the bedrock	Site	Site Formation Contractor	Construction Phase	TM-EIA & NCO	To avoid adverse cumulative ground borne noise impact
	To conduct on-site noise measurement at the HKCC and the HKSM when the works at the FMPH commences to verify the level of transmitted ground-borne noise	Site	Site Formation Contractor	Construction Phase	TM-EIA & NCO	To avoid adverse cumulative ground borne noise impact
	To establish a communication channel with HKCC and HKSM to stagger, if necessary, the ground-borne noise causing construction activities to avoid clashing with hours of performance at both venues	Site	Site Formation Contractor	Construction Phase	TM-EIA & NCO	To avoid adverse cumulative ground borne noise impact
5.2.1.3	To carry out EM&A program	Site	Site Formation Contractor & Superstructure Contractor	Pre-Construction and Construction Phase	TM-EIA	To proactively monitor construction noise impact and take necessary action against any unacceptable impact

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Construction Phase Water Quality Impact					
4.3.1.7	To carry out the Works in such a manner as to minimize adverse impacts on the water quality during execution of the works. In particular he shall arrange his method of working to minimize the effects on the water quality within and outside the Site, on the transport routes and at the loading, dredging and dumping areas.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WPCO	To comply with the Water Pollution Control Ordinance and its subsidiary regulation.
	To follow the practices, and be responsible for the design, construction, operation and maintenance of all the mitigation measures as specified in the Professional Persons Environmental Consultative Committee Practice Note (ProPECC PN) 1/94 "Construction Site Drainage" issued by the Director of Environmental Protection. The design of the mitigation measures shall be submitted by the Contractor to the Engineer for approval.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	ProPECC PN1/94 & WPCO	To comply with the Water Pollution Control Ordinance and its subsidiary regulation.
	To contain within the Site all surface runoff generated from foundation works, dust control and vehicle washing, etc.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WPCO	To comply with the Water Pollution Control Ordinance and its subsidiary regulation.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	To avoid discharge directly or indirectly or cause or permit or suffer to be discharged into any public sewer, stormwater drain, channel, stream-course or sea any trade effluent or foul or contaminated water or cooling or hot water without the prior written consent of the Engineer in consultation with the Director of Environmental Protection and Director of Water Supplies, who may as a condition of granting his consent require the Contractor to provide, operate and maintain at the Contractor's own expense to the satisfaction of the Engineer suitable works for the treatment and disposal of such trade effluent or foul or contaminated or cooling or hot water. [The design of such treatment works shall be submitted to the Engineer for approval not less than one month before the commencement of the relevant works.]	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WPCO	To comply with the Water Pollution Control Ordinance and its subsidiary regulation.
	To direct foul water effluent to a foul sewer or to a sewage treatment and disposal facility either directly or indirectly by means of pumping or other means approved by the Engineer if any office, site canteen or toilet facilities is erected	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WPCO	To comply with the Water Pollution Control Ordinance and its subsidiary regulation.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Operational Phase Water Quality Impact					
4.3.2.1	To discharge sewage/wastewater generated from the Project to the nearby public sewers	Site	Project Proponent/Opera tor	Design / Operational Phase	WPCO	To meet the requirement as stipulated in the Technical Memorandum on Water Pollution Control Ordinance
	Waste Management					
4.5.1.7	To minimize the production of construction waste through careful design, planning, good site management, and control of ordering procedures, segregation and reuse of materials; To arrange for private contractors to collect used formwork materials for reuse.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WDO	To follow relevant regulations (Waste Disposal Ordinance) in all circumstances.
4.5.1.8	To dispose of any chemical wastes such as lubricating oil or solvent in strict accordance with the Waste Disposal (Chemical Waste) (General) Regulation	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WDO	To follow relevant regulations (Waste Disposal Ordinance) in all circumstances.
4.5.1.9	To assign a reliable waste collector to collect general refuse generated from the construction site on a daily basis to minimise the potential odour, pest and litter impacts.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	WDO	To follow relevant regulations (Waste Disposal Ordinance) in all circumstances.
4.5.2.1	To identify requirements on proper waste management for implementation during the operation of the Project	Site	Operator	Operational Phase	WDO	To follow relevant regulations (Waste Disposal Ordinance) in all circumstances.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Construction Phase Landscape and Visual Impact					
4.6.2.2	To screen the works area during the construction phase through the use of decorative hoarding along the site boundary with unified edge treatment and interface	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	A&MO, TM-EIA, Project Profile ["PP"], Landscape Mitigation and Tree Preservation Proposal ["LMTPP"] & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
4.6.2.11	Creation of precautionary area (Cordon Area) around trees to be retained equal to the spread of the trees canopy diameter. Precautionary area to be fenced. Following the completion of the piling the Cordon Area would be based on the retained rootball.	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the Cordon Area.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Phased segmental root pruning for trees to be retained over a six-month period prior to or site formation works, which affect the existing rootball of trees identified for retention. The extent of the pruning shall be based on a minimum half canopy and has been determined on a tree by tree basis. Phased segmental root pruning over a three-month period prior to lifting the tees identified for transplantation.	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	The rectification and repair of damaged vegetation following the construction phase to it's original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the implementation of protection measures and health monitoring through out the construction period	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	The tree transplanting and planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents. Tree preservation proposals and procedures for the protection and preservation of the existing trees to be reviewed by third party Tree Specialist including the provision of an additional level of monitoring during the construction phase.	Site	Specialist Landscape Contractor	Construction Phase	A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Interim measures designed to ensure acceptable landscape and visual impact on completion. Implementation of the LMTPP to the mature trees during the construction period.
	Operational Phase Landscape and Visual Impact					
4.6.3.4	To retain trees that have historic value and contribute most to the landscape and visual amenity of the site and its immediate environs	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape
4.6.3.5	To restore the main buildings and to create landscaped gardens in order to beneficially affect the landscape character and quality of the area	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape
	To create the plaza to the south of the main colonial buildings to increase public access to the site and to open up views of the building façade	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	To provide where conditions allow new street planting along Canton Road, from No. 1 Peking Road to the intersection at Salisbury Road, and along the Salisbury Road frontage in order to create a boulevard type landscape to partially screen the development, and to enhance the green edge effect that is a dominant feature of both the site and its urban context.	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP, LMTPP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape
	To conduct new paving works at the street level as a result of the development and the widening of Canton Road which will lead to a significant improvement in the landscape and visual amenity of the streetscape within the study area	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP	Long term measures deigned to ensure creation of a high quality urban landscape
	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with WBTC No. 14/2002.	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape
4.6.3.8	All landscape and visual mitigation works will be funded, implemented managed and maintained by the project proponent.	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	A qualified or registered landscape architect will be involved in the design, construction supervision and monitoring, and maintenance period to oversee the implementation of the recommended landscape and visual mitigation measures including the tree preservation and landscape works on site. Tree preservation proposals to be reviewed by third party Tree Specialist including monitoring during the establishment period.	Site	Project Proponent/ Operator	Design, Construction and Operational Phase	TPO, A&MO, TM-EIA, PP & WBTC No. 14/2002	Long term measures deigned to ensure creation of a high quality urban landscape

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
	Cultural Heritage Impact					
4.7.1.1	All monuments within the site will be preserved to an extent given according to the in the tender requirement	Site	Project Proponent	Design, Construction and Operational Phase	Tender Document	To preserve the monument
4.7.4.1	To prepare and submit a detailed study report comprising the historic archives, measured drawings, photographic records and full bibliography in support of the historic evidence prepared by experts in cultural heritage for their approval under the Antiquities and Monuments Ordinance (Cap. 53)	Site	Project Proponent	Design Phase	A&MO	To observed principles in the Charter of Venice (ICOMOS) and the Burra Charter (ICOMOS Australia) and requirement of A&MO
4.7.4.2	To submit detailed descriptions, plans for building and mitigation works and implementation programme to AMO for their approval and monitoring before commencement of works.	Site	Project Proponent	Design Phase	A&MO	To observed principles in the Charter of Venice (ICOMOS) and the Burra Charter (ICOMOS Australia) and requirement of A&MO
4.7.4.3	To preserve the Historic Buildings to meet international standard. Relevant legislations, standards, Charters and planning guidelines will be observed.	Site	Project Proponent	Design, Construction & Operational Phase	A&MO	To observed principles in the Charter of Venice (ICOMOS) and the Burra Charter (ICOMOS Australia) and requirement of A&MO
4.7.4.4	To allow only alteration or addition works to the Historic Buildings, which are reversible except those, considered to be minor by AMO.	Site	Superstructure Contractor	Construction Phase	A&MO	To observed principles in the Charter of Venice (ICOMOS) and the Burra Charter (ICOMOS Australia) and requirement of A&MO
4.7.4.5	To take necessary precautions during construction and excavation work to prevent any damage to the Historic Buildings. Structural monitoring system will be designed and supervised by a Registered Structural Engineer during the whole of construction works on the site.	Site	Site Formation Contractor & Superstructure Contractor	Construction Phase	A&MO	To prevent any damage to the historic buildings and structures during the site formation.

Project Profile Ref.:	Recommended Mitigation Measures	Location of the measure	Who to implement the measure	When to implement the measures	What requirements or standards for the measure to achieve*	Objectives of the Recommended Measure & Main Concern to address
4.7.4.8	A comprehensive management plan including a heritage building maintenance guideline for the operation of FMPHQ would be prepared by conservation experts.	Site	Agent appointed by Project Proponent	Prior to Operational Phase	A&MO	To maintain the historic site and buildings in a proper manner
4.7.4.9	Periodic site inspection to heritage buildings on external areas, interior decoration and covered-up areas to ensure a constant monitoring of building condition is conducted.	Site	Agent appointed by Project Proponent	Operational Phase	A&MO	To maintain the historic site and buildings in a proper manner
4.7.4.10	The Permit on routine maintenance would be applied to AMO under the A & M Ordinance.	Site	Agent appointed by Project Proponent	Operational Phase	A&MO	To maintain the historic site and buildings in a proper manner

*Abbreviation

TM-EIA – Technical Memorandum on Environmental Impact Assessment Process

AQO - Air Quality Objectives

APCO - Air Pollution Control Ordinance

APC(CD)R - Air Pollution Control (Construction Dust) Regulation

HKPSG - Hong Kong Planning Standards and Guidelines

TPO - Town Planning Ordinance

NCO - Noise Control Ordinance

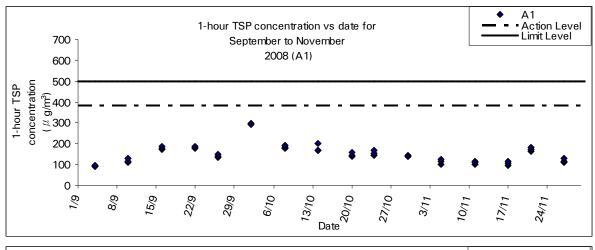
WPCO - Water Pollution Control Ordinance

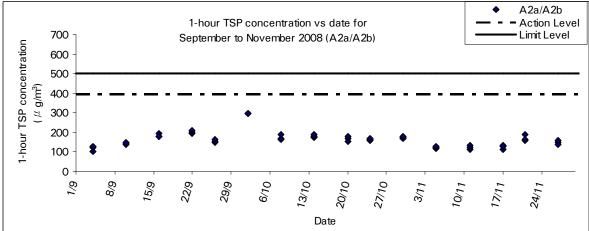
PN1/94 - Professional Persons Environmental Consultative Committee Practice Note (ProPECC PN) 1/94 "Construction Site Drainage"

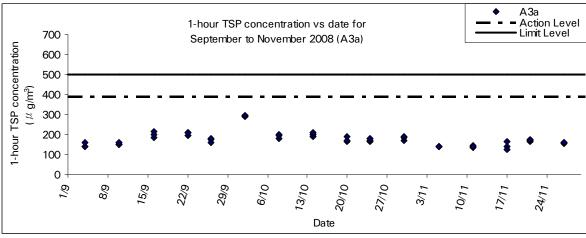
WDO - Waste Disposal Ordinance

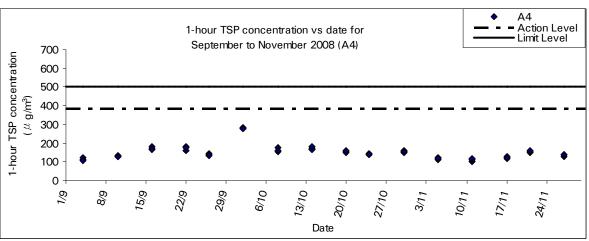
A&MO - Antiquities and Monuments Ordinance

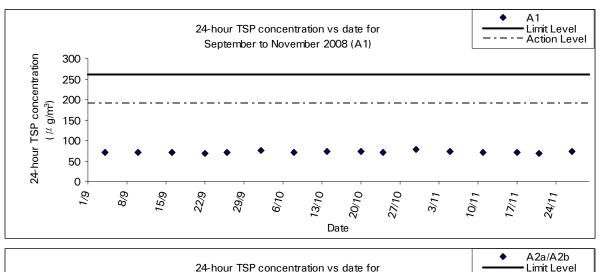
Appendix C:	Graphical prese	entations of the	e air impact m	onitoring results	

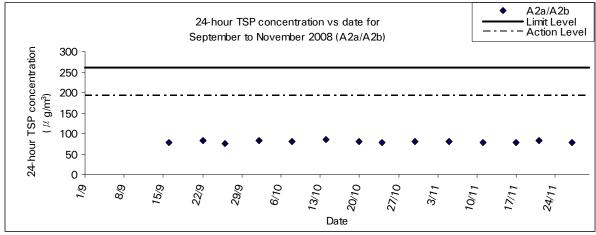


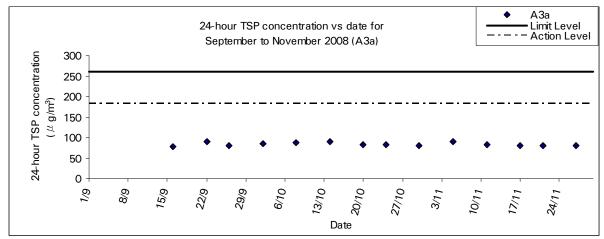


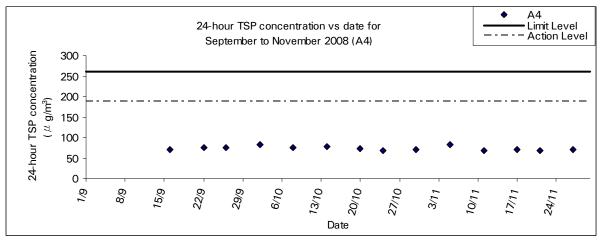














Parameter	Location	Monitoring Period	No. of Exc	eedance(s)
Farameter	Location	Worldoning Period	Action Level	Limit Level
	A1	01/09/2008 - 30/11/2008	0	0
Air	A2a/A2b	16/09/2008 - 30/11/2008	0	0
(1-hour TSP)	A3a	16/09/2008 - 30/11/2008	0	0
	A4	16/09/2008 - 30/11/2008	0	0
	A1	01/09/2008 - 30/11/2008	0	0
Air	A2a/A2b	16/09/2008 - 30/11/2008	0	0
(24-hour TSP)	A3a	16/09/2008 - 30/11/2008	0	0
	A4	16/09/2008 - 30/11/2008	0	0
Noise	CN1a	01/09/2008 - 30/11/2008	0	0
ivoise	CN2a	01/09/2008 - 30/11/2008	0	0

Appendix E:	Graphical presentations of	of the noise impact mon	iitoring results

