# MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Seventh Monthly EM&A Report (1 May to 31 May 2012)

Issue Date: June 2012

# **Environmental Resources Management**

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The Jockey Club CPS Limited

# Central Police Station Conservation and Revitalisation Project: Seventh Monthly EM&A Report (From 1 May to 31 May 2012)

Issue Date: June 2012 Reference 0095646

For and on behalf of	
ERM-Hong Kong, Limited	
Approved by: Frank Wan Signed: Auch A	
Position: Partner	
Certified by: (Environmental Team Leader – Winnie Ko	o)
Date:	

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

#### **EXECUTIVE SUMMARY**

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the seventh monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 May to 31 May 2012 in accordance with the EM&A Manual.

# Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Underpinning works, strengthening works and structural alteration works (Blocks 8 and 17);
- Demolition works (Stage 2); and
- Trial piling works and preservation by record.

#### **Environmental Monitoring and Audit Progress**

A summary of the monitoring activities in this reporting period is listed below:

<ul> <li>Construction noise monitoring during normal weekdays at each</li> </ul>	
monitoring station	5 times
Joint environmental site inspection	1 time
Joint heritage site inspection	1 time
Landscape & visual monitoring	1 time
Tree inspection	1 time
<ul> <li>Vibration monitoring for demolition works</li> </ul>	26 times
<ul> <li>Vibration monitoring for trial pile works</li> </ul>	26 times
Vibration Monitoring (initial) for other construction works in April	il 1 time
<ul> <li>Vibration Monitoring for other construction works in April</li> </ul>	5 times
<ul> <li>Vibration Monitoring for other construction works in May</li> </ul>	26 times

#### Noise

5 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

#### Cultural Heritage

26 numbers of vibration measurement events were carried out at each vibration monitoring station for Stages 1 and 2 demolition works during the reporting period. 26 numbers of vibration measurement events were carried out at each vibration monitoring station for trial pile works. An initial vibration monitoring and five numbers of vibration monitoring were

conducted in April 2012, and 26 numbers of vibration monitoring were carried in May for the structural alternations and additions. All monitoring was conducted for the demolition works at block 8. No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audit was conducted on 16 May 2012. The Contractor has generally implemented the mitigation measures as recommended.

# Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection has been conducted on 21 May 2012 by the arborist during the reporting period. A few observations were identified and mitigation measure was recommended for the Contractor to implement.

# Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 492.33 tonnes of inert C&D material were generated during the reporting period. 36.33 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 266 kg of paper/cardboard packaging were generated and sent to recyclers for recycling. No steel materials, plastics and chemical waste (asbestos) was generated during the reporting period.

# **Environmental Site Inspection**

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 16 May 2012. Details of the audit finding are presented in *Section 6*.

# Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance of the Action and Limit Levels of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

One enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

No complaint and summons/prosecution were received during the reporting period.

#### **Future Key Issues**

Works to be undertaken in the next month include:

- Underpinning works, strengthening works and structural alteration works (Blocks 8 and 17);
- Demolition work (Stage 2); and
- Trial piling works and preservation by record.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

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#### 1 INRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the **Central Police Station Conservation and Revitalisation Project** (the Project).

#### 1.1 Purpose of the Report

This is the seventh EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 May to 31 May 2012.

# 1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

#### Section 1: **Introduction**

details the scope and structure of the report.

#### Section 2: **Project Information**

summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

# Section 3: Environmental Monitoring Requirement

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements.

# Section 4: **Implementation Status on Environmental Protection Requirements**

summarises the implementation of environmental protection measures during the reporting period.

# Section 5: **Monitoring Results**

summarises the monitoring results obtained in the reporting period.

# Section 6: **Environmental Site Inspection**

summarises the audit findings of the weekly site inspections undertaken within the reporting period.

# Section 7: Environmental Non-conformance

summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

# Section 8: Future Key Issues

summarises the impact forecast and monitoring schedule for the next reporting month.

# Section 9: Conclusions

# 2 PROJECT INFORMATION

#### 2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the CPS Limited.

#### 2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex A1*. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

#### 2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1* and illustrated in *Annex A3*.

# Table 2.1 Summary of Construction Activities Undertaken from 1 May to 31 May 2012

# **Construction Activities Undertaken**

- Underpinning works, strengthening works and structural alteration works (Blocks 8 and 17);
- Demolition works (Stage 2); and
- Trial piling works and preservation by record.

# 2.4 PROJECT ORGANISATION

The Project organisation chart and contact details are shown in *Annex B*.

#### 2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air Pollution Control</i> ( <i>Construction Dust</i> ) <i>Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under Waste Disposal Ordinance	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under <i>Water</i> <i>Pollution Control</i> <i>Ordinance</i>	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under Air Pollution Control Ordinance	cation of - T nencement of C tos Abatement under Air on Control		EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012.	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.

#### 3

#### 3.1 Noise Monitoring

# 3.1.1 Monitoring Location

The construction noise monitoring locations are listed in *Table 3.1* and are shown in *Annex C*.

Table 3.1 Construction Phase Noise Monitoring Station

Monitoring Location	Proposed Construction Noise Monitoring Station			toring Station
	ID in EM&A Manual	ID	Type of Measurement	Remark
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion		NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex C*.

# 3.1.2 Monitoring Parameters, Frequency and Programme

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual. The monitoring programme for this reporting period is shown in *Annex D*.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ) in decibels dB(A).  $L_{eq~(30min)}$  were used as the monitoring parameter for the time period in between 0700 – 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels  $L_{10}$  and  $L_{90}$  - the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

# 3.1.3 Monitoring Equipment and Methodology

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures* of *Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO)* (Cap 400).

The sound level meters and calibrator used for the noise measurement, as listed in *Table 3.2*, complies with the IEC 651: 1979 and 804:1985 (Type 1) specifications. The calibration certificates of the sound level meters are appended in *Annex E*.

# Table 3.2 Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10997142)
	Sound Level Meter Rion-NL52 (S/N 00710259)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB.

#### 3.1.4 Event / Action Plan

# Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Noise Criteria, L <sub>eq(30mins), dB(A)</sub>	Remark
NM2, NM6	75	Applicable during 0700 – 1900 hours, Monday to Saturday.

The Event / Action Plan (EAP) for noise monitoring is presented in *Annex F*.

# 3.1.5 Mitigation Measures

The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in *Annex G*.

#### 3.2 CULTURAL HERITAGE

# 3.2.1 Vibration Monitoring

In accordance with the EM&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

#### Baseline Monitoring

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling Works

Vibration monitoring for trial piling works is required. The monitoring location is shown in *Annex M*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than the demolition and trail pile works are also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex N*. The number and location of monitoring location will depends on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in *Table 3.4*.

Table 3.4 Alert, Alarm and Action (AAA) Levels for Vibration Monitoring

Instrument Type	Item Monitored	Alert Level	Alarm Level	<b>Action Level</b>
Vibration Monitoring	Horizontal Movement	2.0 mm/s	2.5 mm/s	3.0 mm/s

The Event / Action Plan (EAP) for vibration monitoring is shown in *Table 3.5*.

Table 3.5 Event and Action Plan for Vibration Monitoring

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/ Resident Engineer
Exceedance of Action Level	Cease Works and submit mitigation

# 3.2.2 Mitigation Measures

Cultural heritage mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

# 3.3 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also monitored during the site inspection.

# 3.3.1 Mitigation Measures

Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

# 3.4 ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements.

# 4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implementation status during the reporting period is summarized in *Annex G*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

# Table 4.1 Status of Required Submissions

Submission		Submission Date
EP Condition		
Condition 3.4	Sixth Monthly EM&A Report	14 May 2012

# 5 MONITORING RESULTS

#### 5.1 Noise

A total of 5 sets of 30-minute construction noise measurements were carried out at the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

#### 5.2 CULTURAL HERITAGE

26 numbers of vibration monitoring were conducted in May 2012 for the Stage 1 and Stage 2 demolition works of building M and wall 12. The records of vibration monitoring are shown in *Annex L*.

26 numbers of vibration monitoring were conducted in May 2012 for the trial pile works. The monitoring readings are presented in *Annex M*.

An initial vibration monitoring and five numbers of vibration monitoring were conducted in April 2012  $^{(1)}$ , and 26 numbers of vibration monitoring were carried in May for the structural alternations and additions at Block 8. The monitoring readings are presented in  $Annex\ N$ .

All monitoring results were below the Alert/Alarm/Action Levels.

Monthly heritage site audit was conducted on 16 May 2012 by the Heritage Checker. Excessive amounts of pigeon guano were observed in Barrack Block. The Contractor was reminded to clean the guano on a daily basis. The follow-up actions recommended in the April audit have been implemented.

<sup>(1)</sup> The monitoring result was received after the submission of 6th Monthly EM&A report.

# 5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 21 May 2012 and major findings and recommendations in the reporting period are summarised as *Table 5.1*. The tree inspection report is contained in *Annex J*.

Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations	
Tree -5	Mangifera indica	Good	<ul><li>To trim the lower branches; and</li><li>To remove all undergrowth.</li></ul>	
Tree -6	Aleurites moluccana	Fair	To trim the lower branches.	
Tree-7	Aleurites moluccana	Fair	To trim the lower branches.	
Tree-8	Plumeria rubra	Fair	• N.F.A	
Tree-9	Araucaria cunninghamia	Fair	• Wounds of the tree have been recovered.	
Tree-11	Dracaena marginata	Fair	To remove the dead branches before typhoon seasons.	

The follow-up actions recommended in the April inspection were still implementing at the time of the site inspection in May.

#### 5.4 WASTE MANAGEMENT

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.2*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. No metal materials and plastic were generated or sent to recyclers for recycling. 266 kg of paper/cardboard packaging was collected for recycling. No chemical waste was generated during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month /	Quantity					
Year	C&D	C&D	Chemical	Recycled materials		
	Materials	Materials	Waste (c)	Paper /	Plastics	Metals
	(inert) (a)	(non-inert) (b)		cardboard		
May 2012	492.33	36.33	0 kg	266 kg	0 kg	0 kg
	tonnes	tonnes				

#### Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. Inert C&D materials will be collected by private licensed collector.
- (b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately.
- (c) If necessary, the conversion factor of 3/4 load of dumping truck being equivalent to  $6.5~\rm m^3$  by volume was used.

# 6 ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 16 May 2012. There was no non-compliance recorded during the site inspections.

Major issues with environmental implications were observed during the site inspection as follows:

- Stagnant water was observed in the yellow rubbish bin near the site office.
   The Contractor was reminded to remove the stagnant water and cover the holes on all rubbish bins on site with plastic sheet to prevent water entering the rubbish bins.
- Stockpile of soil was observed near the Arbuthnot Wing. The Contractor
  was recommended to cover the temporary stockpile of soil with
  impervious sheet to avoid fugitive dust emission and the generation of
  muddy water during raining season.
- No noise barrier or noise insulating sheet was provided for the trial piling works during the site inspection. The Contractor was reminded to implement proper noise mitigation measures to reduce the noise impact.

# 7 ENVIRONMENTAL NON-CONFORMANCE

#### 7.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of the Action and Limit Levels of construction noise and Alert, Alarm and Action Levels of vibration were recorded during the reporting period.

# 7.2 SUMMARY OF ENQUIRY

On 22 May 2012, an enquiry letter from residents at Mood@Soho on start time of construction work was received by Gammon Construction Limited (GCL). The enquiry was raised whether the construction works can be delayed 30 mins to an hour each day for heavy/noisy machinery. GCL has liaised with the managing agent of the Mood@Soho, and a written reply will be provided by GCL to reply the enquiry.

#### 7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

#### 7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

# 7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

# 8 FUTURE KEY ISSUES

#### 8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

# Table 8.1 Construction Works to be Undertaken in the Coming Month

#### Work to be taken

- Underpinning works, strengthening works and structural alteration works (Blocks 8 and 17).
- Demolition works (Stage 2); and
- Trial piling works and preservation by record

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

#### 8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

The tentative schedule of noise monitoring for the next reporting period is presented in *Annex D*.

# 8.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

The most updated construction programme for the Project is presented in *Annex I*.

# 9 CONCLUSIONS

The *Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 May to 31 May 2012 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

No exceedance of the Action and Limit Levels of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

One enquiry was received during the reporting period.

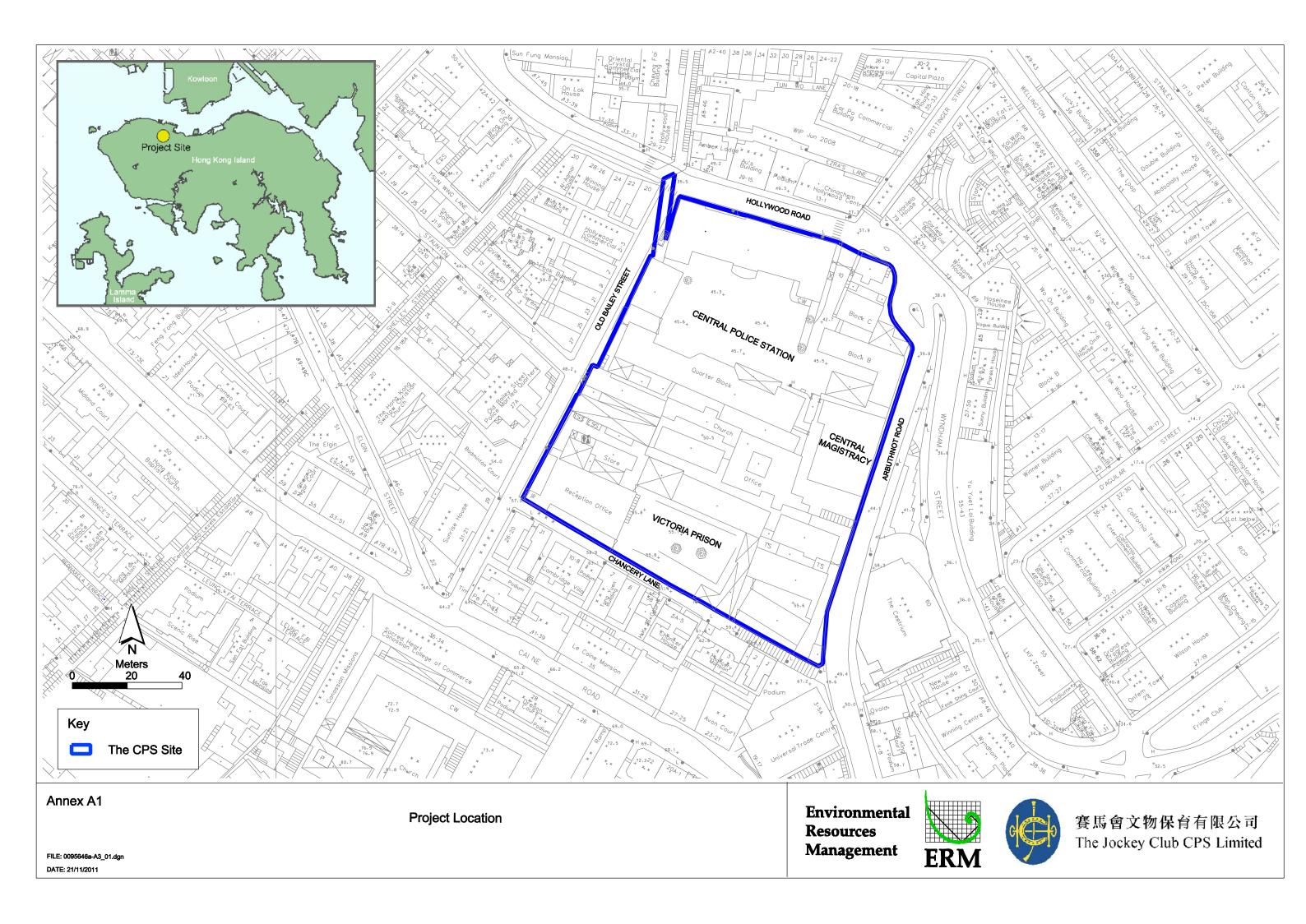
No non-compliance event was recorded during the reporting period.

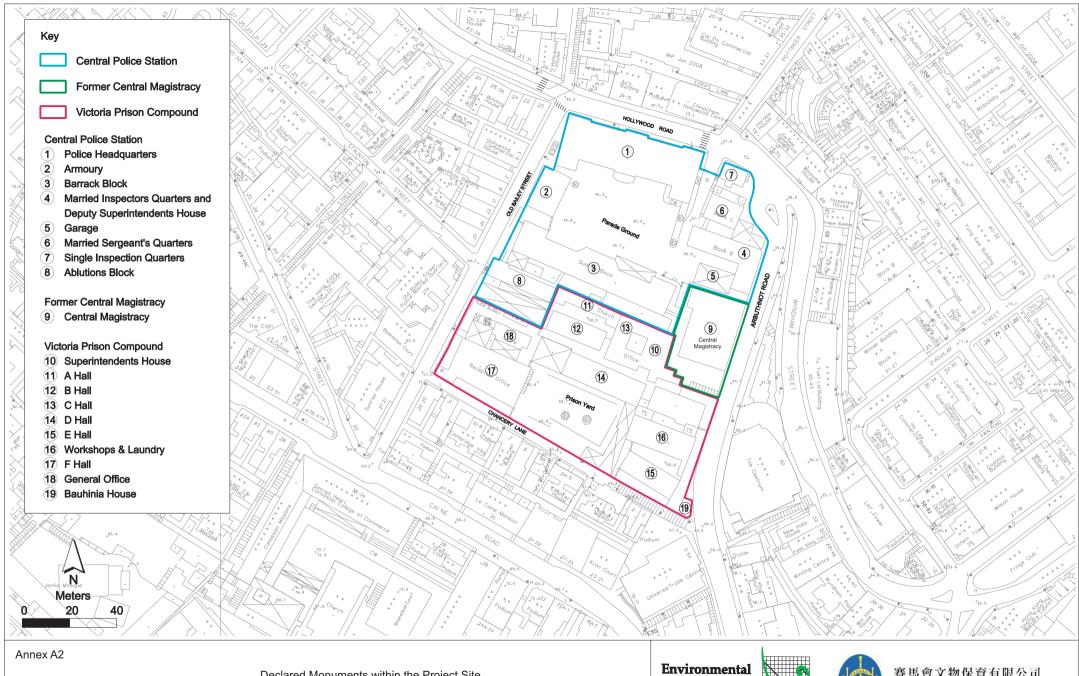
No complaint and summon/prosecution were received during the reporting period.

The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

# Annex A

# Locations of Works Areas and the Surroundings





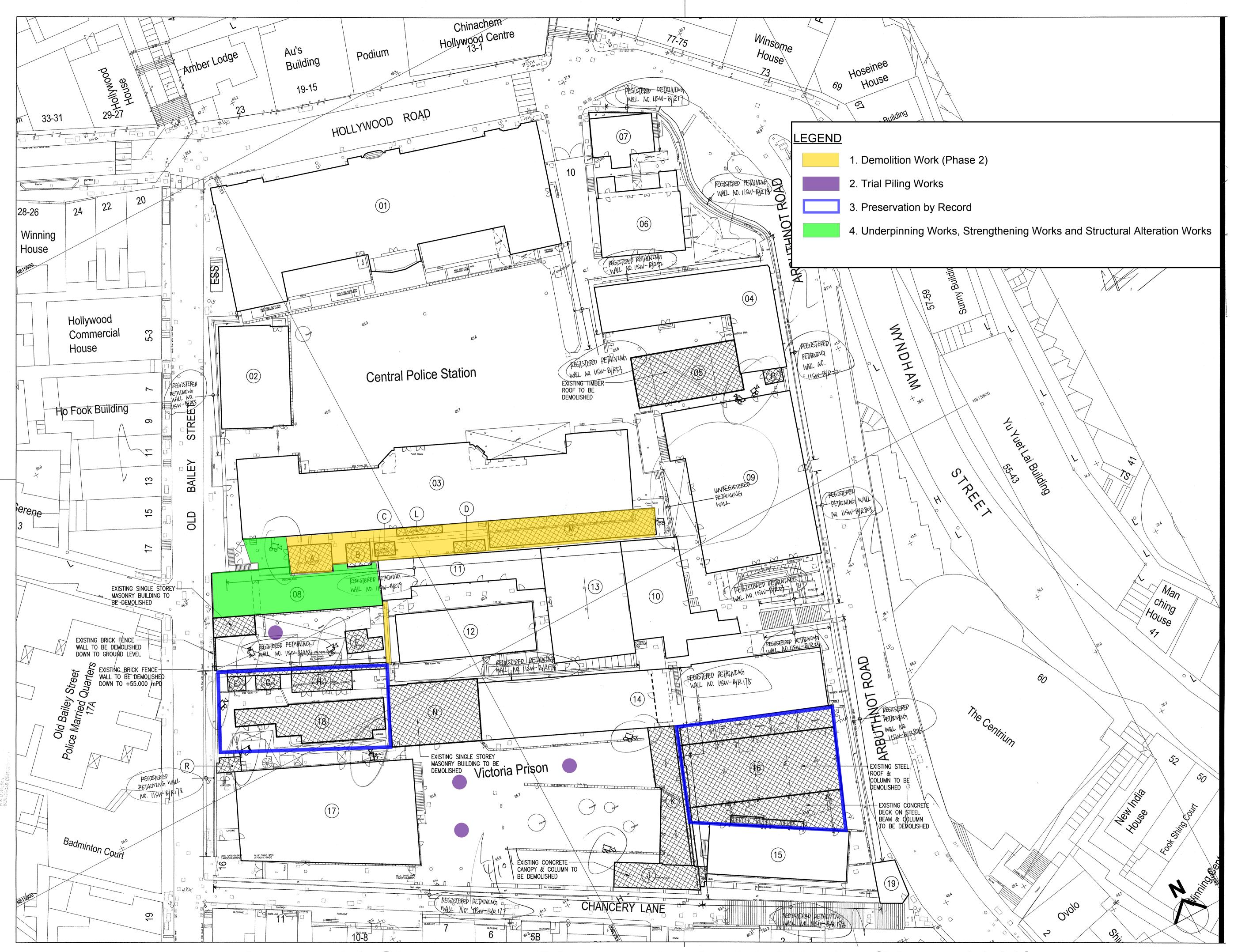
FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

Resources Management



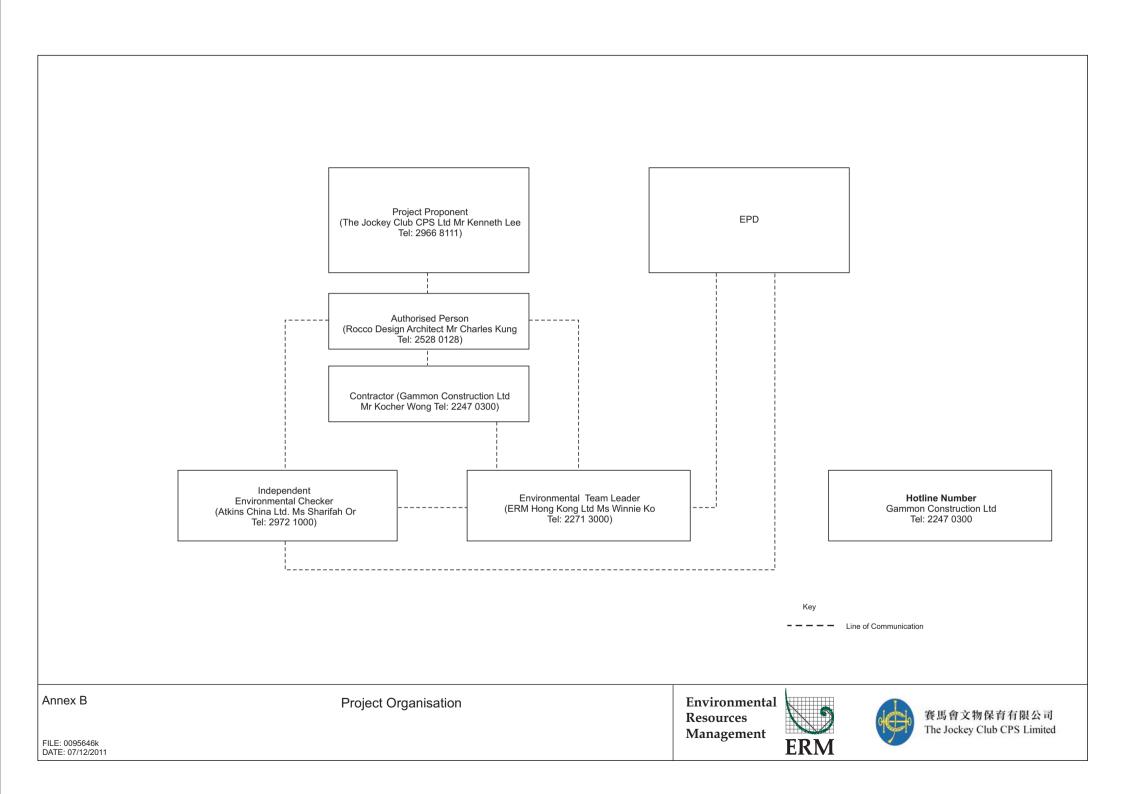




Annex A3 Site Layout Plan marked with Works (May - 2012)

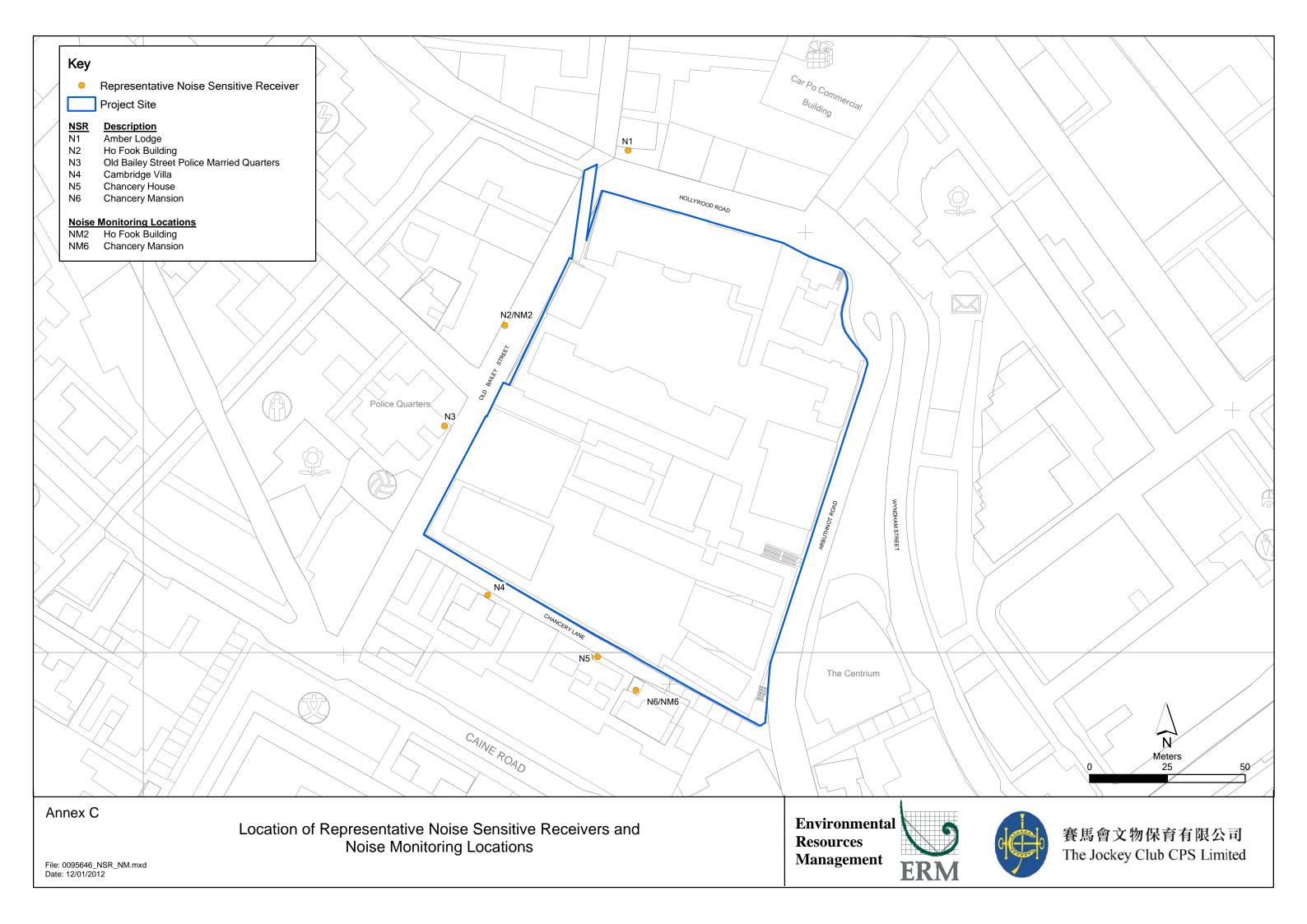
# Annex B

# Project Organization Chart and Contact Detail



# Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



# Annex D

Monitoring Schedule of the Reporting Period and Next Month

# Central Police Station Compound Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - May 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-May	2-May	3-May	4-May	5-May
				Noise Monitoring at NM2 & NM6		
6-May	7-May	8-May	9-May	10-May	11-May	12-May
			Noise Monitoring at NM2 & NM6			
13-May	14-May	15-May	16-May	17-May	18-May	19-May
		Noise Monitoring at NM2 & NM6				
20-May	21-May	22-May	23-May	24-May	25-May	26-May
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
27-May	28-May	29-May	30-May	31-May		

# Central Police Station Compound Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - June 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Jun	2-Jun
					Noise Monitoring at NM2 & NM6	
3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun
				Noise Monitoring at NM2 & NM6		
10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun
			Noise Monitoring at NM2 & NM6			
17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun
		Noise Monitoring at NM2 & NM6				
24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6

#### Annex E

Calibration Reports for Calibrators and Sound Level Meters

Certificate No.: C113870

# Certificate of Calibration

## This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10997142

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113870.

## The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue: 11 July 2011

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

# Calibration Report

ITEM TESTED

DESCRIPTION

Sound Level Calibrator

MANUFACTURER: Rion

MODEL NO.

: NC-73

SERIAL NO.

: 10997142

TEST CONDITIONS

AMBIENT TEMPERATURE :  $(23 \pm 2)^{\circ}$ C

RELATIVE HUMIDITY:  $(55 \pm 20)\%$ 

LINE VOLTAGE

TEST SPECIFICATIONS

Calibration

DATE OF TEST: 11 July 2011

JOB NO. : IC11-1713

#### TEST RESULTS

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by:

Date: 11 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



## 輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

# Calibration Report

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment:

Equipment ID TST150A CL130 CL281

Description
Measuring Amplifier
Universal Counter
Multifunction Acoustic Calibrator

Certificate No. C101008 C113350 C1006860

4. Test procedure: MA100N.

- 5. Results:
- 5.1 Sound Level Accuracy

5.1.1 Before Adjustment

Delore Hajasunent			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.3	± 0.5	± 0.2

5.1.2 After Adjustment

Titter Trajastillerit			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

#### 5.2 Frequency Accuracy

5.2.1 Before Adjustment

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.991	1 kHz ± 2 %	± 1

5.2.2 After Adjustment

Atter Aujustinent			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.991	1 kHz ± 2 %	± 1

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



# 輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

# Calibration Report

Remark: - The uncertainties are for a confidence probability of not less than 95 %.

#### Note:

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533 Phone:042(359)7888, Facsimile:042(359)7442

# **Certificate of Calibration**

Name : Precision sound level meter

Model : NL-52 S/No. : 00710259

(NX-42EX installed)

Microphone: UC-59 S/No.: 02695

Preamplifier: NH-25 S/No.: 10253

Date of Calibration: September, 20, 2011

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.



#### Annex F

Event / Action Plans for Noise

## Annex F Event and Action Plan for Noise

Event	Action							
	Environmental Team (ET)		dependent Environmental tecker (IEC)	A	uthorised Person (AP)	C	ontractor	
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, AP and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	3.	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the AP accordingly; Supervise the implementation of remedial measures.	<ol> <li>2.</li> <li>3.</li> </ol>	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to proposed remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented.	1.	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.	
Limit Level	<ol> <li>Identify source;</li> <li>Inform IEC and AP;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, AP and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	2.	Discuss amongst AP, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; Supervise the implementation of remedial measures.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the AP until the exceedance is abated.	

### Annex G

Summary of Implementation Status

## Annex G Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultura	al Heritag	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	To be advised	During detailed design and construction	V
S3.9.2	S3.3.1	Vibration Monitoring A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	✓
S3.9.2	S3.3.3	Compliance of the Approved Measures and Auditing Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement—of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies—related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.  Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement.			
		The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	S3.3.4	An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of asbuilt drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	General Construction Methods  Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling	Whole site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2		methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure.  Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose:  • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and  • an updated inventory list of the historic features together with the cross referenced location plans and photo records.  One set of	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during the the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landsca	ape & Visi	ıal	•	<b>-</b>	
S4.7.27	-	<u>In-situ Tree Protection - Cordon Zone (CZ)</u>	Whole site	During construction	$\sqrt{}$
		Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction			
S4.7.2	-	wastewater from intruding the soil inside the CZ. <u>In-situ Tree Protection - Advanced &amp; Phased Root Pruning</u>	Whole site	During construction	√
		All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.			
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system  A sprinkler cleansing system will be installed either in the crown of the	Whole site	During construction	√
		tree or at a suitable location on an adjacent building to provide the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary, particularly in the dry season.			
S4.7.2	S4	In-situ Tree Protection - Monthly inspection  Monthly inspection of affected trees by an experienced and	Whole site	During construction	√
		appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	Light Control  Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	Compensatory Tree Planting  A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth.  The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.  Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm ( <i>Table 4.3</i> ), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements  The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::  - Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.  - Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter.			
		flowers in spring to early summer often when the tree has little or no leaves.			
S4.7.2	S4	Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.
		As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	New Custom Paving  New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	In-situ Tree Protection - Quarterly inspection  Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise	•	-			
S5.9	-	<ul> <li>The following site practices should be followed during the construction of the Project:</li> <li>Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>Mobile plant, if any, will be sited as far away from NSRs as possible;</li> </ul>	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S5.9	-	<ul> <li>Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> <li>Noise insulating sheet would be adopted for certain PME (eg drill rig,</li> </ul>	Whole Site	During	√
		excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole one	construction	
S5.9	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg $\mathrm{m}^{-2}$ and have no openings or gaps.	Whole Site	During construction	N/A – Not observed.
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	$\checkmark$
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	√ ·
Air Qu S6.8.1		Dust control measures stipulated in the <i>Air Pollution Control</i> ( <i>Construction Dust</i> ) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	V
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	<b>√</b>
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	<b>√</b>
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	V
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	V
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	V
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	V
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	V
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	$\sqrt{}$
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	V
Water (	2 Quality			I.	
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	√
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms.  Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	√
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	V
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stomwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√ ·
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√ ·
Waste I	Manageme	nt			
S8.5	\$6.3.1 & Table 6.1	General  The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	Management of Waste Disposal  The construction contractor will open a billing account with the EPD.  Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	√ ·

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	√ ·
S8.5	S6.3	Reduction of Construction Waste Generation  C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	<ul> <li>Containers used for storage of chemical waste shall:</li> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>.</li> </ul>	Whole Site	During construction and operation	√
S8.5	S6	<ul> <li>Storage areas for chemical waste shall:</li> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> <li>Have adequate ventilation;</li> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>Be arranged so that incompatible materials are appropriately separated.</li> </ul>	Whole Site	During construction and operation	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	N/A – Not observed.
S8.5	S6 & Table 6.1	General Refuse  General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	√
S8.5	S6	At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	

#### Remark:

- $\sqrt{\phantom{a}}$  Compliance of Mitigation Measures
- Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures

- ▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

### Annex H

# Noise Monitoring Results

#### **Annex H Noise Monitoring Results**

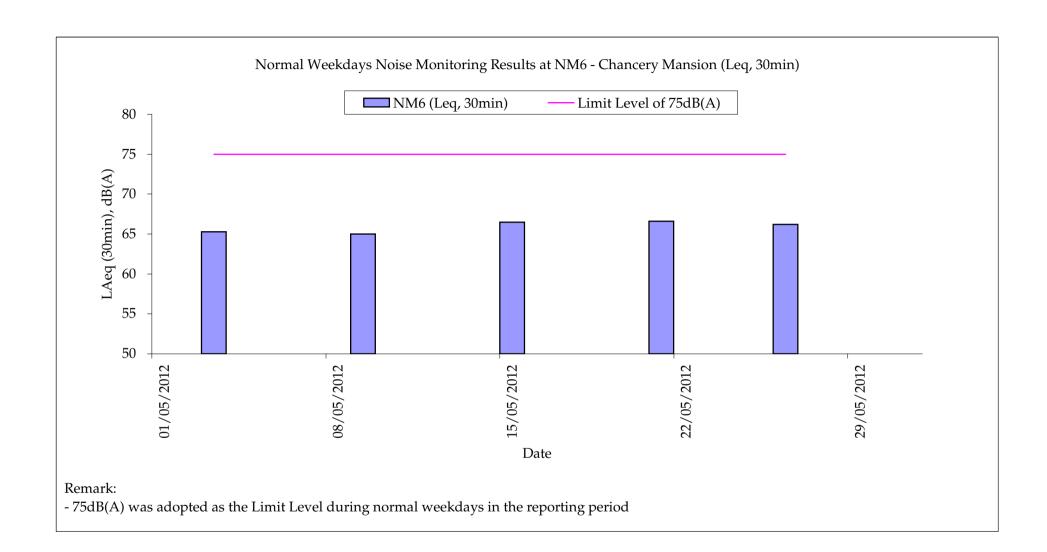
#### **Daytime Noise Monitoring Results**

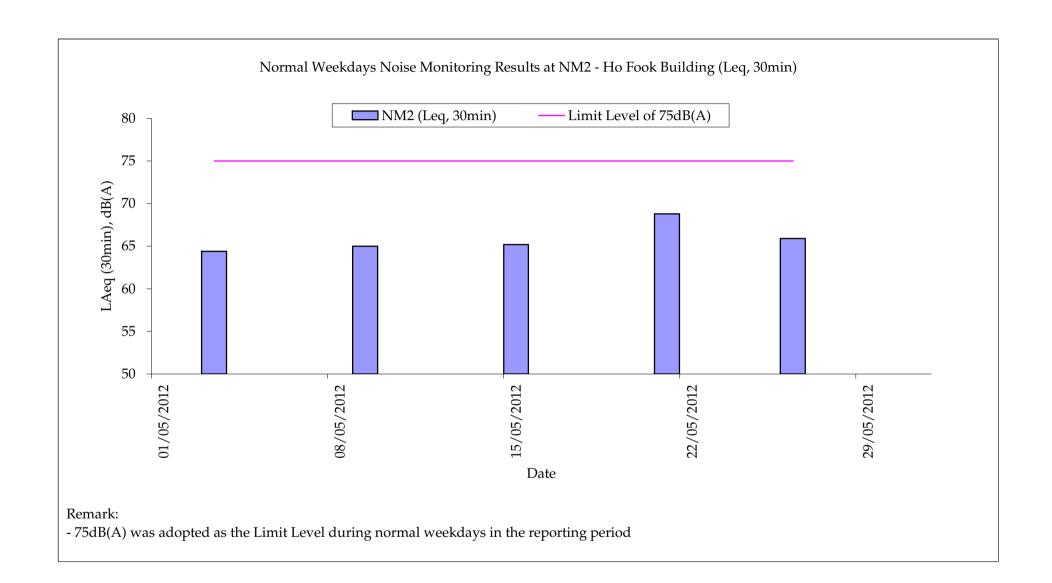
NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A)	)), 30 min	Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID	Compliance
				Leq	L10	L90	Observed	Observed		(1113)	model / ID	model / ID	(Y/N)
3-May-12	8:32	9:02	Fine	65.3	67.2	62.6	Crawler Crane, excavator, breaker (within the project site)	-	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
9-May-12	14:57	15:27	Sunny	65.0	67.0	63.2	Crawler Crane, compressor, breaker (within the project site)	-	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
15-May-12	13:02	13:32	Fine	66.5	68.4	64.2	Crawler Crane, compressor Breaker (within the project site)	Traffic Noise	-	0.2	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
21-May-12	13:05	13:35	Sunny	66.6	68.7	64.3	Breaker, lifting, excavator (within the project site)	Traffic Noise	-	0.8	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
26-May-12	10:15	10:45	Cloudy	66.2	67.8	63.5	Lifting, excavator (within the project site)	Traffic Noise	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
			Min.	65.0		-	-				-	-	
			Max.	66.6									

NM2 Ho Fook Building

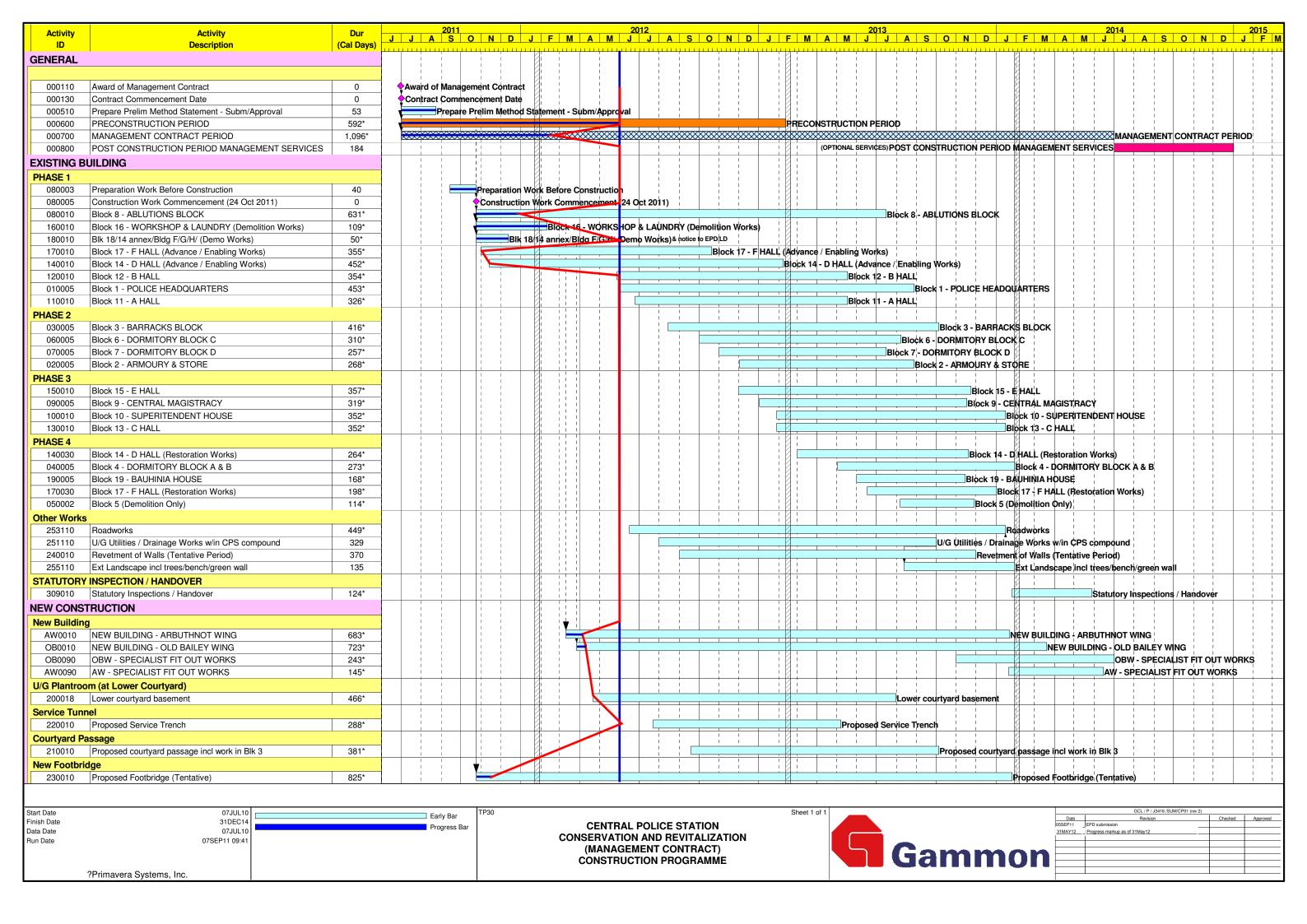
				Noise	level (dB(A)	), 30 min	Major Construction	Other Noise		Wind Speed	Noise Meter	Calibrator	
Date	Start Time	End Time	Weather	Leq	L10	L90	Noise Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID	Compliance (Y/N)
3-May-12	9:40	10:10	Fine	64.4	66.0	61.6	Crawler Crane, excavator, breaker (within the project site)	-	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
9-May-12	14:15	14:45	Sunny	65.0	66.6	62.8	Crawler Crane (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
15-May-12	14:09	14:39	Fine	65.2	67.2	63.3	Crawler Crane, compressor, breaker (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
21-May-12	14:42	15:12	Sunny	68.8	70.8	66.3	Breaker, lifting, excavator (within the project site)	Traffic Noise	-	0.5	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
26-May-12	11:52	12:22	Cloudy	65.9	67.6	63.1	Breaker, lifting (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y





#### Annex I

# Construction Programme for the Project



Annex J

Tree Inspection Reports







Tel. 2516 8823 Fax.2516 6260

# **ROLYYY** RECEIVED -1 JUN 2012 ★ 欣 榮 (香港) 環 境 管 理 有 限 公 司

#### Yan Wing (Hong Kong) Environment Management Limited

#### 香港 新界 沙頭角 新樓街 15號 二樓

No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

29<sup>th</sup> May 2012

Our Ref.: YW/TP/GAMMON/2012/5/2

**Gammon Construction Limited** 28/F Devon House TaiKoo Place 979 King's Road **Hong Kong** 

Attn: Mr. Cliff C.H. LEUNG

Dear Sir,

## **Summary of Monthly Inspection Report for the Six Existing Trees** at Central Police Station Compound for May 2012 ( Contract Ref. : J3416/400.4/D00025 )

Tree	Botanical	Date of	Overall Health Condition	
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica	21 <sup>st</sup> May 2012	Good	To trim the lower branches.
	芒果			2. To remove all undergrowth.
Tree-6	Aleurites moluccana	21 <sup>st</sup> May 2012	Fair	To trim the lower branches.
	石栗			
Tree-7	Aleurites moluccana	21 <sup>st</sup> May 2012	Fair	To trim the lower branches.
	石栗			
Tree-8	Plumeria rubra	21 <sup>st</sup> May 2012	Fair	N.F.A.
	紅雞蛋花			
Tree-9	Araucaria cunninghamia	21 <sup>st</sup> May 2012	Fair	1. Wounds of the tree have
	花旗杉			been recovered.
Tree-11	Dracaena marginata	21 <sup>st</sup> May 2012	Fair	1. To remove the dead
	馬尾鐵	~		branches before typhoon
				seasons





#### Yan Wing (Hong Kong) Environment Management Limited

#### 香港 新界 沙頭角 新樓街 15號 二樓

No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

Tree Inspection Reports and Tree Group Inspection Form (Form 1) are attached for your reference and record, please.

I should be much grateful if you could endorse the attached Invoice (No.1022) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

For and on behalf of Yan Wing (HK) Environment Management Ltd.

( WONG Pak Hay )

Horticulture Manager

# FORM 1: TREE GROUP INSPECTION FORM 表格 1: 樹群檢查表格

#### General Information 基本資料

Jeneral Information	<b>基</b> 华 頁 科							
Company 公司:		Construction		Name of Tree Inspec				LAU Man Chung
File Ref. 檔案編號:		AMMON/201		Name of Endorseme	nt Offic	er 覆核人	員姓名:	WONG Pak Hay
Date of Inspection 巡查 Project/Contract No.合		May 21, 2012 ∉ : 134	416/400.4/D00025	5	-			
		/r .   1334	710/700.7/D00023					
Location Information Location 地點: Cen		tation Compo	und]	M. I. M	NT	きなってい ロコ	5几+/c/4二口上 ·	
	trai Police S	1	ARABA MANA	Nearby Utility Po			設施編號:	
Location Types 地點類別: Address:		Roadside	12: 10/0			e in the time of the		區會堂 / 中心
(multiple answers allowed)		X Open s	· ·				nter 路旁花圃	
可選多於一項			n Centre 展覽中心		-	15	avilion 避雨马	亨 / 涼亭
可避多於 倒		View Poi	nt 觀景台		∐ S	Sitting out area	休憩處	
		Walking	/ nature trail 行山徑	型/自然徑				
		Others (p	olease specify)其他	(請說明):				_
General Tree Informa	ation 基本标	尌木資料			*	Delete as ap	opropriate #	<b>青把不合適的刪除</b>
Main tree species in the gr		ox. number	Range of tree	Overall health	Overal	200		ks (Any special tree
or minority tree species of		es in the	height (m)	condition	structu	20000000		.g. dying/dead,
significant size		int species or	該樹種高度範		condit			problem and structural
在群組內的主要樹種或樹胸徑或高度或樹冠範圍軟		6 of tree		(good, fair, poor	全度和 (good,	吉構狀況 fair	其他評語	soil condition
的樹種		重在群組內		好,良,差)	100000	子,良,		列如:凋謝/枯樹/病蟲害
(Note 2)		分比/數目*		74 22 22)	差)			題; 及泥土狀况 )
Mangifera indica 芒果	17%	1 No.	16M	GOOD	GOO	D	To trim the	lower branches.
Aleurites moluccana	32%	2 Nos.	10-13M	FAIR	FAIR			lower branches.
石栗 Plumeria rubra	18/00/16/25/1	Secretaria	73500 100000000		0.0000000000000000000000000000000000000		10 trim the	lower branches.
紅雞蛋 Araucaria	花 17%	1 No.	7M	FAIR	FAIR		Wounds o	f the tree have been
cunninghamia 花旗 Dracaena	杉 17%	1 No.	13M	FAIR	FAIR		recovered.	The nee have been
marginata 馬尾紅	澂 17%	1 No.	8M	FAIR	FAIR	4	To remove	the dead branches.
Target 目標								
TARGET (people or pro	perty potenti	ally affected by	y tree/branch failt	ure) 目標 (因樹木倒塌	或枝條圖	析裂而受影響	擊的人或財產	彭
Does target exist? 目標	是否存在?[	x Yes 是	☐ No 否					
Can target be moved?能	否移除目標	? Yes	是 x No a	<b></b>				
Can the use of site be re	estricted? =	不限制場地的	的使用? [x] }	Yes 是 No 否				
Frequency of use of loc				,е Ц п				
Occasional use 偶爾			se 間歇使用 x	Frequent use 經常使	i用 [	Constant	t use 恆常使	用
Identification of Tree	s for Rem	edial Actio	n or Detailed	Tree Risk Assessm	ent		V - M(1) (7-4)	
識別下述樹木,以便採取原				Tree Australian Institution				
Trees falling under the			到小風吸計口			Number of trees	Damadial a	ction or detailed tree risk assessment
樹木屬於以下任何一項或						樹木數量	207927528 1899297	或進行詳細樹木風險評估
(国本)·蜀水以   11月   2月3	(グル) 関係	1701					和友研对日月出	XJET J 6+RUDBJ / NJSLPXX 6T TCI
1 2 2		at with struct	ural or health pr	roblems		NII		
A A SAME AND A SAME AN		Married Section Charles and		ood structure and ha	ving	NII		
unsatisfact	ory health o	or structural	conditions with	failure potential	VIIIg	1111		
C1 W	AND THE PERSON NAMED IN COLUMN	And the comment of the control of th	削場風險的樹木	(Note 1)				
ACCORD STATES WE CONTROL TO		ts or health p 的樹木 <i>(Note</i>				NII		
(4) Trees grow	ving in very	stressful site	conditions with	h failure potential		NII		
	- St St.	有倒塌風險的	的樹木 (Note 1)					
Attached Information 附列		V DL.	and 4011.67Ab		1	:£. <i>≟#≠</i> ∧pr	7 )	du Inomatica D
Site plan 場地平面	日園 [	X Photo rec	ord 相片紀錄	Others 其他 fp	neuse spe	ECIJY 神説明	). Month	ly Inspection Reports
				, ~		(		
Signature of Tree Inspectio	n Officer:	·	^			`		SIG ENVIRONMENT
Signature of Endorsement	Signature of Endorsement Officer:							
Name of Contractor		Yan V	Ving (HK) Env	vironment Managen	nent Lto	d.		WAY WAY WAY
Date:		29-5-2	2012					

Note 1: If remedial action (such as pruning) undertaken cannot mitigate the potential risk of tree or branch failure, detailed tree risk assessment (using Form 2) should be carried out.

備註 1: 若風險緩滅措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險,應爲該樹進行詳細的樹木風險評估(表格 2)。
Note 2: Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para 4.3. refers.)

備註 2: 請參閱樹木管理辨事處的樹木風險評估安排及管理指引(第 4.3 節)

# Inspection Report for the 6 Existing Trees at Central Police Station Compound

( Contract Ref. : J3416/400.4/D00025 )

I. TREE NUMBER: Tree-5 Mangifera indica 芒果

#### II. BASIC INFORMATION:

Height (m)	16m	Crown spread (m)	18m	
DBH (mm)	1000mm	Overall Health Condition	Good	
		Good/Fair/Poor		
Date of Inspection	21 <sup>st</sup> May 2012	Last Inspection Date	17 <sup>th</sup> April 2012	

#### III. COMMENTS:

- 1. Overall health condition of the tree is good.
- 2. Too many undergrowth are jamming at the same planter.
- 3. Two trial pits have been reinstated inside the cordon zone prior to inspection.
- 4. Some lower branches and leaves are too close to the nearby buildings.
- 5. The site appears clean and tidy.

#### IV. RECOMMENDATIONS:

- 1. To remove all the undergrowth away from the planter.
- 2. To trim the lower branches / leaves which are too close to the nearby buildings.

#### V. PHOTO RECORD:

Tree - 5
Mangifera indica 芒果

Maintained by:

欣笑(香港)環境管理有限公司
Tel. 9776 1987



Fig 2. Too many undergrowth are jamming at the same planter, as to make more rooms for the tree, we recommend to remove them away from the planter.



Fig. 3 The cordon zone appears clean and tidy at the time of inspection.

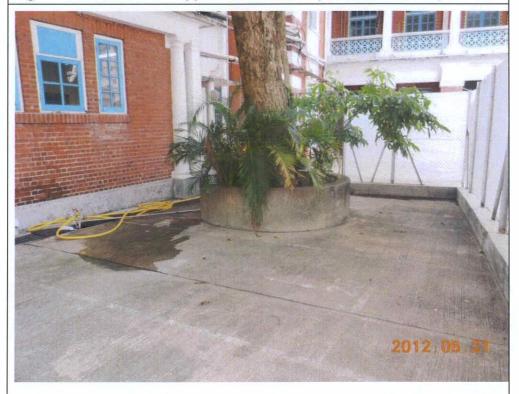




Fig. 4 Some lower branches and leaves are too close to the nearby buildings. Trimming of such branches/leaves is recommended.



Fig. 5 Two trial pits have been reinstated prior to inspection.





Fig. 6 Overall view of Tree-5.



Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



## Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗

## II. BASIC INFORMATION:

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	21 <sup>st</sup> May 2012	Last Inspection Date	17 <sup>th</sup> April 2012

### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Construction works are in progress outside the cordon zone.
- 4. One more wire-netted fence has been erected to protect the passers-by.
- 5. Some branches and leaves are too close to the wire-netted fence of the cordon zone.

### IV. RECOMMENDATIONS:

1. To trim the branches and leaves which are too close to the wire-netted fence.





Fig 2. Overall view of Tree-6. A pipe leads water upwards to the tree top for irrigation



Fig. 3 The planter appears clean and tidy at the time of inspection.





Fig. 4 Cleanliness of the site is acceptable.



Fig. 5 Construction works are in progress outside the cordon zone.





Fig. 6 One more fence has been erected to protect the passers-by.

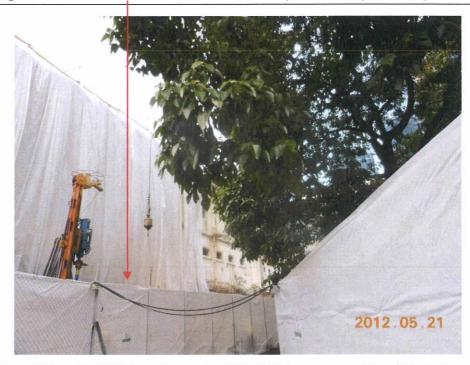


Fig. 7 Some branches and leaves are too close to the wire-netted fence, we recommend to trim these branches and leaves.



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A)
Signature of Endorsement Officer: (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



## Inspection Report for the 6 Existing Trees at Central Police Station Compound

( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗

## II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	21 <sup>st</sup> May 2012	Last Inspection Date	17 <sup>th</sup> April 2012

### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Planter is clean and tidy.
- 3. Cleanliness of the cordon zone is acceptable.
- 4. One more fence has been erected to protect the passers-by.
- 5. Some lower branches and leaves are too close to the fence of the cordon zone.

## IV. RECOMMENDATIONS:

1. To trim the branches and leaves which are too close to fence of the cordon zone.





Fig 2. The planter appears clean and tidy.



Fig. 3 Overall view of Tree-7 on 21<sup>st</sup> May 2012.

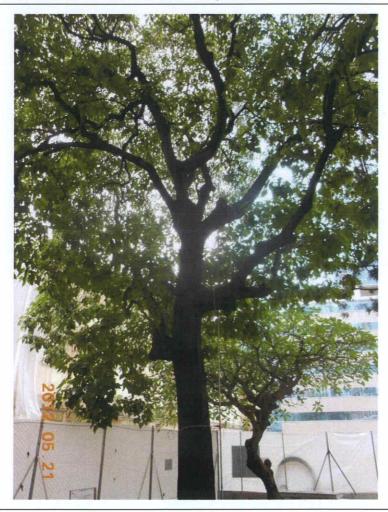




Fig. 4 Cleanliness of the site is acceptable at the time of inspection.

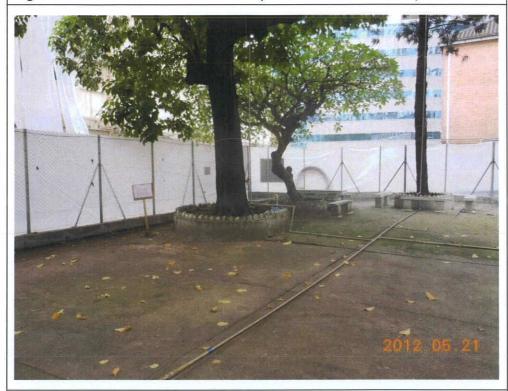
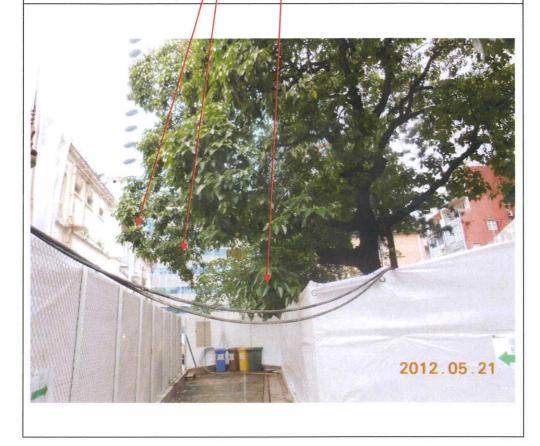


Fig. 5 One more fence has been erected to protect the passers-by.





Fig. 6 Some lower branches and leaves are too close to the fence of the cordon zone, we recommend to trim these branches and leaves.



Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



# Inspection Report for the 6 Existing Trees at Central Police Station Compound

( Contract Ref.: J3416/400.4/D00025 )

I. TREEE NUMBER: Tree-8 Plumeria rubra 紅雞蛋花

### II. BASIC INFORMATION:

Height (m)	7m	Crown spread (m)	9m
DBH (mm)	430mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	21 <sup>st</sup> May 2012	Last Inspection Date	17 <sup>th</sup> April 2012

### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. The tree is full of green leaves.
- 5. Construction works are in progress outside the cordon zone.

## IV. RECOMMENDATIONS:

1. No further action is required.

Tree - 8
Plumeria rubra 紅雞蛋花
Maintained by:
欣榮(香港)環境管理有限公司
Tel. 9776 1987



Fig 2. The planter is clean and tidy at the time of inspection.



Fig. 3 Cleanliness of the site is acceptable.





Fig. 4 Appropriate notice displays near the tree.



Fig. 5 Overall view of Tree-8. The tree is full of green leaves.

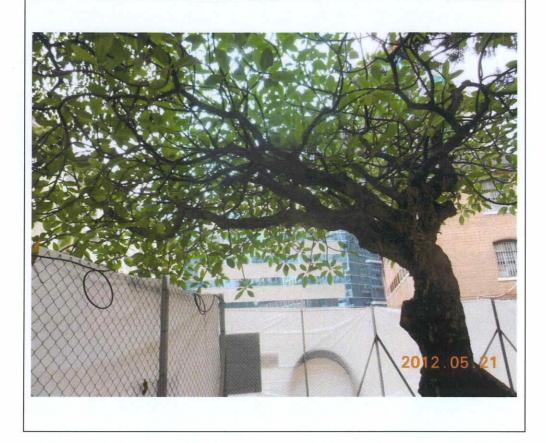
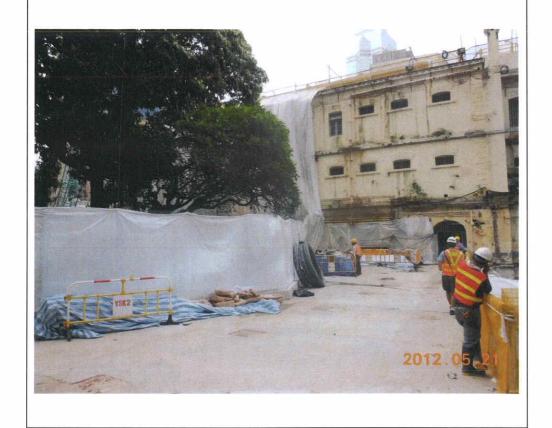




Fig. 6 Construction works are in progress outside the cordon zone.



Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



# Inspection Report for the 6 Existing Trees at Central Police Station Compound

( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree - 9 Araucaria cunninghamia 花旗杉

## II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	5m
DBH (mm)	230mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	21 <sup>st</sup> May 2012	Last Inspection Date	17 <sup>th</sup> April 2012

### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is very good.
- 4. Wounds of the tree have been recovered.
- 5. Construction works are in progress outside the cordon zone.

## IV. RECOMMENDATIONS:

1. No further action is required .

Fig 1. Tree number

Tree - 9

Araucaria cunninghamia 花旗杉

Maintained by:

欣榮(香港)環境管理有限公司

Tel. 9776 1987



Fig 2. The planter appears clean and tidy at the time of inspection.



Fig. 3 Wounds of the tree have been recovered.





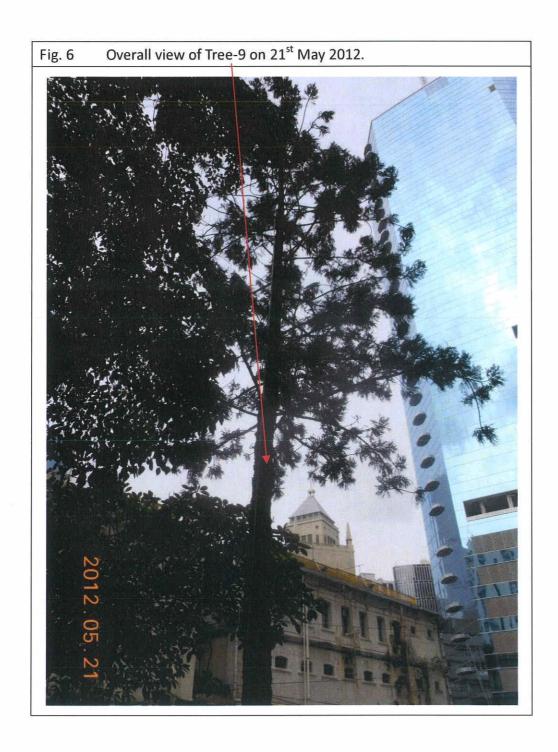
Fig. 4 Cleanliness of the site is very good.



Fig. 5 Construction works are in progress outside the cordon zone.







Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A) Signature of Endorsement Officer: (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



## Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree -11 Dracaena marginata 馬尾鐵

#### II. BASIC INFORMATION:

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	f Inspection 21 <sup>st</sup> May 2012 Last Inspection Date		17 <sup>th</sup> April 2012

## III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. Two doors are properly locked and restrict admittance to the cordon zone.
- 4. Appropriate poster displays in front of the fence.
- 5. Some dead branches appear on the tree.

### IV. RECOMMENDATIONS:

1. To remove the dead branches before typhoon seasons.





Fig. 2 Cleanliness of the planter is acceptable at the time of inspection.



Fig. 3 Two doors are properly locked and restrict admittance to the cordon zone.

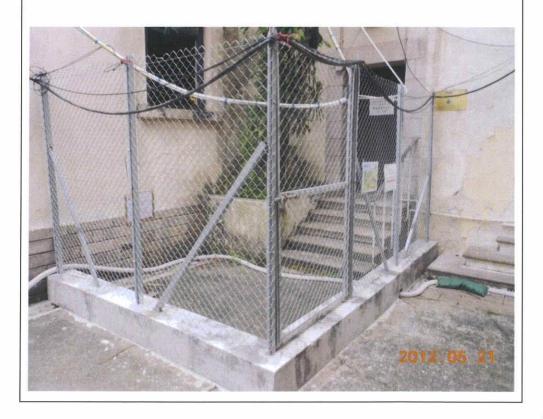




Fig. 4 Appropriate poster displays in front of the fence.



Fig. 5 Overall view of Tree-11 on 21<sup>st</sup> May 2012.





Fig. 6 Some dead branches have been found on the tree. We recommend to trim these dead branches before typhoon seasons.



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



## Annex K

Environmental Complaint, Environmental Summon and Prosecution Log

Annex K Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
April 2012	0	0
May 2012	0	0
Overall Total	4	0

## Annex L

Records of Vibration Monitoring for Demolition Works



## Record of

## **Vibration Monitoring for**

**Demolition Works at** 

**Central Police Station Compound at** 

No. 10, Hollywood Road

Report no.8

(16 April 2012 ~ 5 May 2012)





Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	No demolition
23 Dec 2011	14:40	VM7	0.13	5	activity
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	No demolition
24 February 2012	15:57	VM12	0.13	5	activity
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	





Stage: stage 1 & 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:59	VM1	0.54	5	
	11:13	VM3	0.32	5	
	10:39	VM5	0.41	5	
	08:42	VM6	0.78	5	
	10:28	VM7	0.32	5	
	08:33	VM8	0.64	5	Demolition of
	08:51	VM9	0.98	5	
16 Apr 2012	10:20	VM11	0.75	5	Building 16,
	13:12	VM12	0.25	5	Revetment
	10:03	VM13	0.57	5	Wall 10
	10:11	VM14	0.52	5	
	13:19	VM15	0.25	5	
	11:18	VM16	0.25	5	
	11:48	VM17	0.13	5	
	11:37	VM18	0.25	5	
	11:26	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	14:56	VM1	0.76	5	
	15:08	VM3	0.52	5	
	14:39	VM5	0.25	5	
	13:19	VM6	0.89	5	
	14:27	VM7	0.46	5	
	13:13	VM8	0.72	5	Demolition of Building B, 16,
	13:27	VM9	0.63	5	
17Apr 2012	13:43	VM11	0.54	5	
	16:03	VM12	0.25	5	Revetment
	14:10	VM13	0.46	5	Wall 10
	13:54	VM14	0.38	5	
	16:17	VM15	0.25	5	
	15:21	VM16	0.38	5	
	15:47	VM17	0.13	5	
	15:39	VM18	0.25	5	
	15:28	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
18 Apr 2012	15:58	VM1	0.54	5	Revetment
	15:42	VM6	0.32	5	Wall 10

Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
09:12	VM1	0.57	5	Demolition of
09:33	VM3	0.76	5	Building C,
08:47	VM6	0.32	5	Revetment
09:42	VM16	0.13	5	Wall 10
10:08	VM17	0.13	5	
09:59	VM18	0.25	5	
09:50	VM19	0.25	5	
	09:12 09:33 08:47 09:42 10:08 09:59	Time         of Check Points           09:12         VM1           09:33         VM3           08:47         VM6           09:42         VM16           10:08         VM17           09:59         VM18	Time         of Check Point) (mm/s)         (Max. Point) (mm/s)           09:12         VM1         0.57           09:33         VM3         0.76           08:47         VM6         0.32           09:42         VM16         0.13           10:08         VM17         0.13           09:59         VM18         0.25	Time         of Check Points         (Max. Point) (mm/s)         Duration (Mins)           09:12         VM1         0.57         5           09:33         VM3         0.76         5           08:47         VM6         0.32         5           09:42         VM16         0.13         5           10:08         VM17         0.13         5           09:59         VM18         0.25         5

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
20 Apr 2012	09:07	VM1	0.52	5	Demolition of
	09:19	VM3	0.63	5	Building C,D,L
	08:43	VM6	0.89	5	Revetment
	09:34	VM16	0.32	5	Wall 10
	10:02	VM17	0.13	5	
	09:51	VM18	0.25	5	
	09:43	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 Apr 2012	08:34	VM1	0.67	5	Demolition of
	08:56	VM3	0.54	5	Building C,D,L,
	08:17	VM6	0.75	5	Revetment
	09:04	VM16	0.37	5	Wall 10
	09:22	VM17	0.25	5	
	09:31	VM18	0.25	5	
	09:13	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Apr 2012	09:12	VM1	0.25	5	Demolition of
	09:25	VM3	0.54	5	Building M,
	08:53	VM6	0.25	5	
	09:44	VM16	0.13	5	
	10:23	VM17	0.23	5	
	10:07	VM18	0.25	5	
	09:53	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	13:44	VM1	0.25	5	
	14:03	VM3	0.54	5	
	13:17	VM5	0.37	5	Domolition of
24Apr 2012	14:12	VM16	0.25	5	Demolition of Building M,
·	14:34	VM17	0.13	5	
	14:28	VM18	0.25	5	
	14:20	VM19	0.13	5	



Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:32	VM1	0.54	5	
	09:55	VM3	0.25	5	
	09:17	VM5	0.25	5	Domolition of
25 Apr 2012	10:06	VM16	0.13	5	Demolition of Building M
·	10:43	VM17	0.13	5	
	10:27	VM18	0.25	5	
	10:14	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	08:45	VM1	0.64	5	
	09:03	VM3	0.32	5	
	10:07	VM5	0.25	5	Domolition of
26 Apr 2012	09:17	VM16	0.13	5	Demolition of Building M,
·	09:42	VM17	0.13	5	
	09:36	VM18	0.25	5	
	09:28	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:57	VM1	0.37	5	
	09:38	VM3	0.32	5	
	09:17	VM5	0.46	5	Domolition of
27 Apr 2012	09:55	VM16	0.25	5	Demolition of Building M,
	10:42	VM17	0.13	5	
	10:28	VM18	0.25	5	
	10:07	VM19	0.13	5	



Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	08:34	VM1	0.25	5	
	09:43	VM3	0.13	5	
	09:23	VM5	0.25	5	Demolition of
	09:58	VM16	0.13	5	
30 Apr 2012	10:13	VM17	0.13	5	Building M
	09:51	VM18	0.13	5	
	10:06	VM19	0.13	5	
	09:01	VM7	0.63	5	Preparation
	09:10	VM9	0.25	5	Wall 12

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:13	VM1	0.25	5	
	09:35	VM3	0.32	5	
	08:47	VM5	0.25	5	Domolition of
02 May 2012	09:46	VM16	0.17	5	Demolition of Building M
,	10:16	VM17	0.28	5	
	10:07	VM18	0.25	5	
	09:54	VM19	0.13	5	

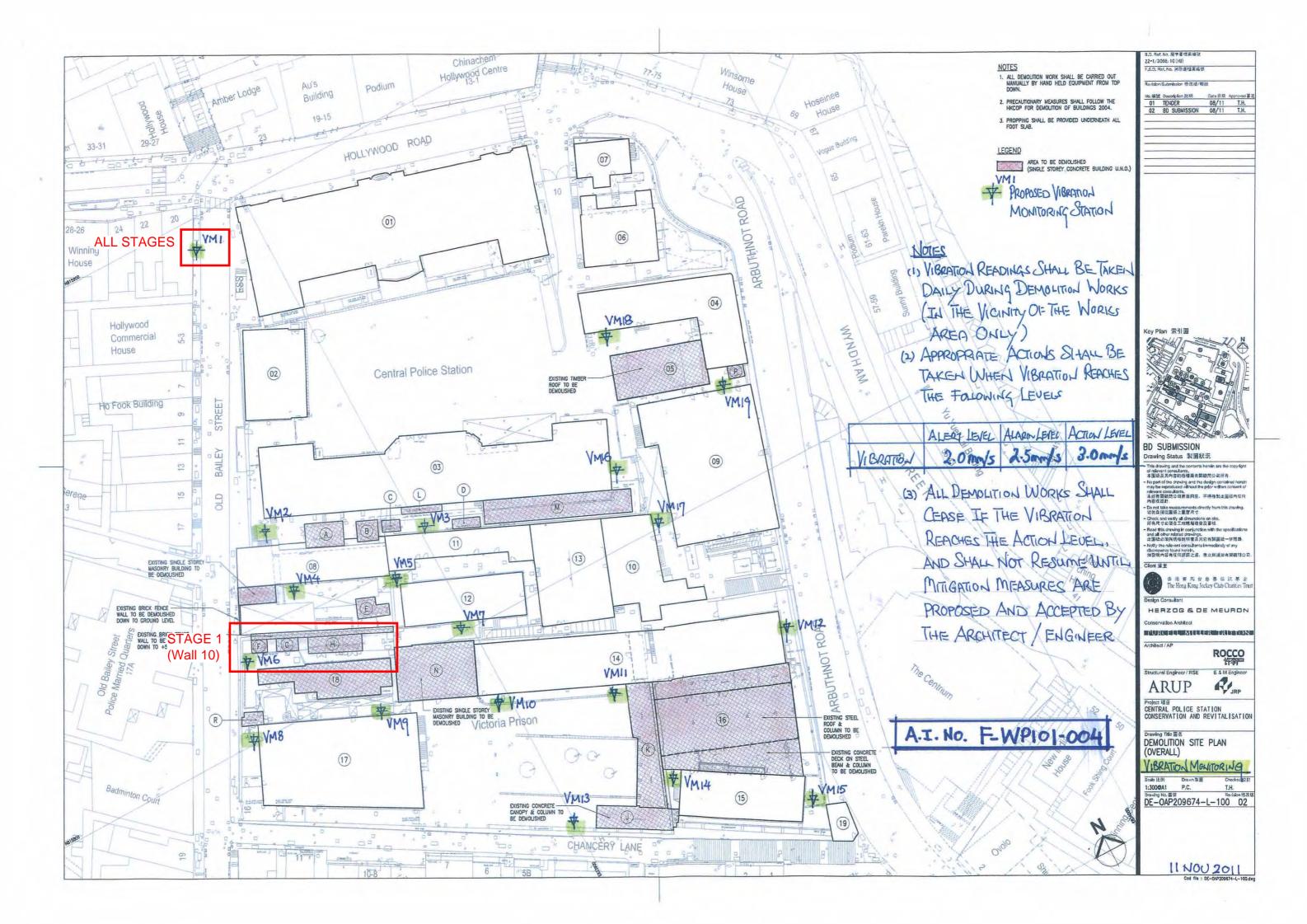
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:23	VM1	0.54	5	
	10:34	VM3	0.25	5	
	10:07	VM5	0.25	5	Domolition of
03 May 2012	10:42	VM16	0.25	5	Demolition of Building M
·	11:16	VM17	0.32	5	
	11:08	VM18	0.27	5	
	10:57	VM19	0.13	5	

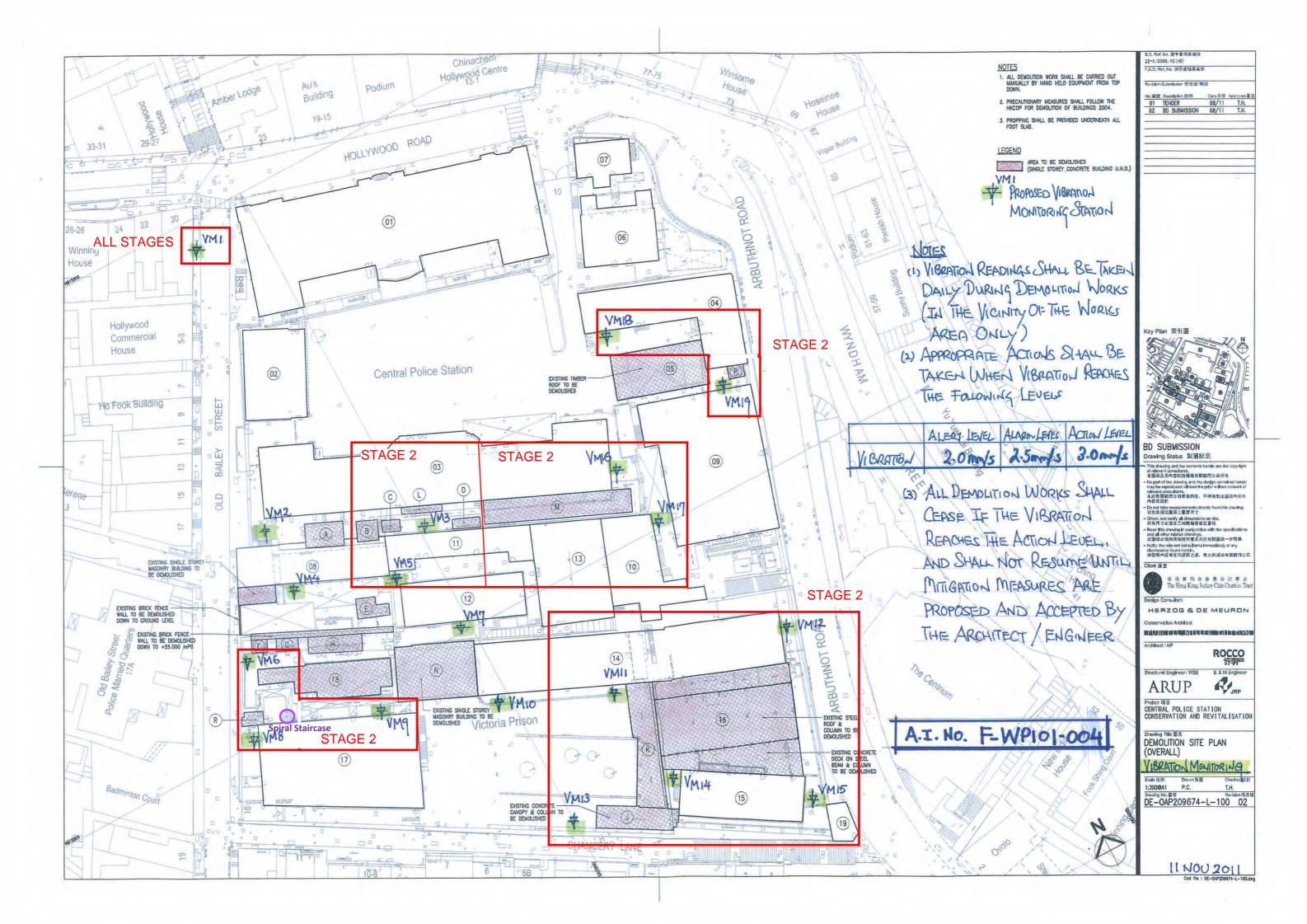


Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:03	VM1	0.25	5	
	09:27	VM3	0.27	5	
	08:47	VM5	0.25	5	Domolition of
04 May 2012	09:44	VM16	0.13	5	Demolition of Building M
·	10:12	VM17	0.22	5	
	10:01	VM18	0.16	5	
	09:53	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:38	VM1	0.62	5	
	09:56	VM3	0.26	5	
	09:22	VM5	0.24	5	Domolition of
05 May 2012	10:08	VM16	0.22	5	Demolition of Building M
•	10:42	VM17	0.21	5	
	10:28	VM18	0.16	5	
	10:19	VM19	0.16	5	









## Record of

## **Vibration Monitoring for**

**Demolition Works at** 

**Central Police Station Compound at** 

No. 10, Hollywood Road

Report no.9

(07 May 2012 ~ 19 May 2012)





Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	No demolition
23 Dec 2011	14:40	VM7	0.13	5	activity
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	No demolition
24 February 2012	15:57	VM12	0.13	5	activity
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition
30 April 2012	09:10	VM9	0.25	5	activity





Stage: stage 2 & 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	14:52	VM 1	0.25	5	
	13:57	VM 3	0.56	5	
	13:42	VM 5	0.55	5	Domolition of
7 May 2012	14:08	VM16	0.13	5	Demolition of Building M,
-	14:41	VM17	0.34	5	
	14:29	VM18	0.13	5	
	14:18	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:43	VM 1	0.43	5	
	09:42	VM 3	0.25	5	
	09:17	VM 5	0.29	5	Domolition of
8 May 2012	09:53	VM16	0.36	5	Demolition of Building M,
•	10:19	VM17	0.25	5	
	10:11	VM18	0.13	5	
	10:02	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	11:03	VM 1	0.62	5	
	09:11	VM 3	0.43	5	
	08:57	VM 5	0.25	5	
	08:44	VM 7	0.25	5	Demolition of
9 May 2012	08:32	VM 9	0.36	5	Building M,
·	09:19	VM16	0.41	5	Wall 12
	09:38	VM17	0.25	5	
	09:44	VM18	0.25	5	
	09:28	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:17	VM 1	0.34	5	
	09:12	VM 3	0.42	5	
	08:59	VM 5	0.38	5	
	08:43	VM 7	0.25	5	Demolition of
10 May 2012	08:32	VM 9	0.28	5	Building M,
	09:24	VM16	0.36	5	Wa12
	09:41	VM17	0.27	5	
	09:58	VM18	0.25	5	
	09:47	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	16:12	VM 1	0.53	5	
	14:53	VM 3	0.37	5	
	14:39	VM 5	0.32	5	
	14:18	VM 7	0.25	5	Demolition of
11 May 2012	14:07	VM 9	0.25	5	Building M,
	15:12	VM16	0.38	5	Wall 12
	15:37	VM17	0.25	5	
	15:48	VM18	0.25	5	
	15:26	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	14:32	VM1	025	5	
	13:34	VM3	0.13	5	
	13:17	VM5	0.25	5	Domolition of
12 May 2012	13:46	VM16	0.13	5	Demolition of Building M
·	13:56	VM17	0.13	5	
	14:13	VM18	0.13	5	
	14:04	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:38	VM1	0.25	5	
	09:36	VM3	0.36	5	
	09:17	VM5	0.25	5	Domolition of
14 May 2012	09:47	VM16	0.35	5	Demolition of Building M,
·	09:58	VM17	0.28	5	
	10:19	VM18	0.25	5	
	10:08	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:06	VM1	0.56	5	
	09:04	VM3	0.32	5	
	08:43	VM5	0.25	5	Domolition of
15 May 2012	09:17	VM16	0.47	5	Demolition of Building M,
_	09:28	VM17	0.25	5	
	09:52	VM18	0.35	5	
	09:39	VM19	0.25	5	

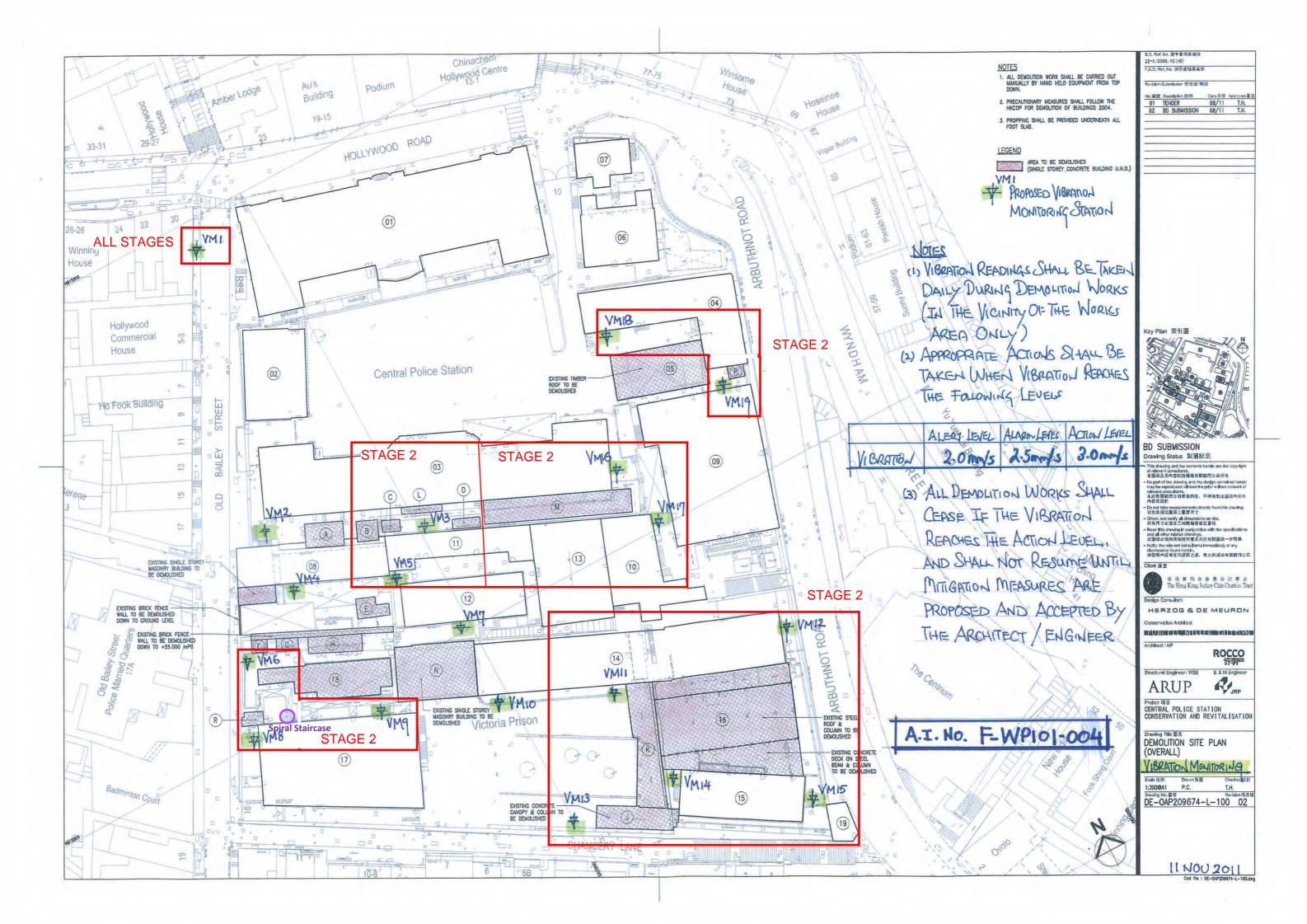
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:47	VM1	0.32	5	
	08:45	VM3	0.32	5	
	08:32	VM5	0.25	5	Domolition of
16 May 2012	08:58	VM16	0.42	5	Demolition of Building M
	09:07	VM17	0.25	5	
	09:29	VM18	0.25	5	
	09:19	VM19	0.25	5	

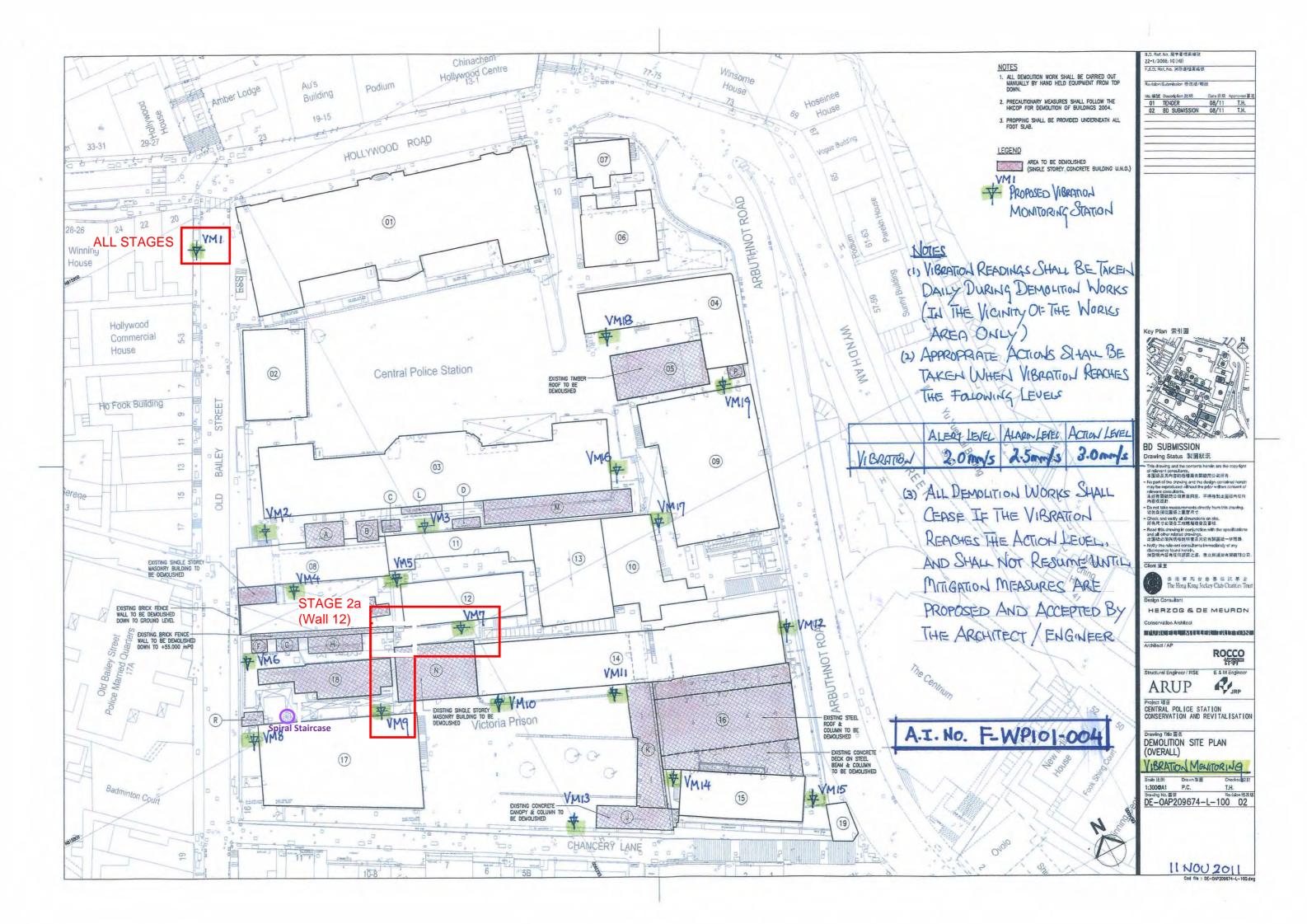


Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	11:32	VM1	0.42	5	
	11:08	VM3	0.36	5	
	10:57	VM5	0.25	5	Domolition of
17 May 2012	10:17	VM16	0.38	5	Demolition of Building M,
·	10:29	VM17	0.25	5	
	10:44	VM18	0.27	5	
	10:36	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:15	VM1	0.36	5	
	09:49	VM3	0.37	5	
	10:03	VM5	0.28	5	Domolition of
18 May 2012	09:13	VM16	0.40	5	Demolition of Building M,
•	09:21	VM17	0.25	5	
	09:38	VM18	0.27	5	
	09:30	VM19	0.25	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:47	VM1	0.25	5	
	09:19	VM3	0.32	5	
	09:33	VM5	0.36	5	Domolition of
19 May 2012	08:42	VM16	0.36	5	Demolition of Building M
	08:50	VM17	0.25	5	
	09:07	VM18	0.25	5	
	08:58	VM19	0.25	5	







### Record of

## **Vibration Monitoring for**

**Demolition Works at** 

**Central Police Station Compound at** 

No. 10, Hollywood Road

Report no.10

(21 May 2012 ~ 2 June 2012)





Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	No demolition
23 Dec 2011	14:40	VM7	0.13	5	activity
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	No demolition
24 February 2012	15:57	VM12	0.13	5	activity
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition
30 April 2012	09:10	VM9	0.25	5	activity





Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:42	VM1	0.25	5	
	09:41	VM3	0.13	5	
	09:22	VM5	0.13	5	Domolition of
21 May 2012	09:52	VM16	0.25	5	Demolition of Building M,
	10:03	VM17	0.13	5	
	10:24	VM18	0.22	5	
	10:13	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:16	VM1	0.56	5	
	09:14	VM3	0.13	5	
	08:53	VM5	0.15	5	Domolition of
22 May 2012	09:27	VM16	0.15	5	Demolition of Building M,
,	09:58	VM17	0.15	5	
	09:42	VM18	0.25	5	
	09:49	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:42	VM1	0.32	5	
	08:40	VM3	0.25	5	
	08:27	VM5	0.25	5	Domolition of
23 May 2012	08:53	VM16	0.25	5	Demolition of Building M
Ţ	09:02	VM17	0.13	5	
	09:24	VM18	0.25	5	
	09:15	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:32	VM1	0.42	5	
	10:08	VM3	0.25	5	
	09:57	VM5	0.25	5	Domolition of
24 May 2012	09:17	VM16	0.25	5	Demolition of Building M,
	09:29	VM17	0.13	5	
	09:44	VM18	0.25	5	
	09:36	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:15	VM1	0.36	5	
	08:49	VM3	0.37	5	
	09:03	VM5	0.25	5	Demolition of
25 May 2012	08:13	VM16	0.27	5	Building M,
	08:21	VM17	0.13	5	building M,
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:37	VM1	0.25	5	
	09:19	VM3	0.32	5	
	09:23	VM5	0.36	5	Domolition of
26 May 2012	08:32	VM16	0.36	5	Demolition of Building M
·	08:40	VM17	0.25	5	
	09:07	VM18	0.25	5	
	08:49	VM19	0.25	5	



Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:47	VM1	0.25	5	
	09:46	VM3	0.12	5	
	09:27	VM5	0.12	5	Domolition of
28 May 2012	09:57	VM16	0.24	5	Demolition of Building M,
·	10:08	VM17	0.12	5	Building ivi,
	10:29	VM18	0.21	5	
	10:18	VM19	0.12	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:11	VM1	0.56	5	
	09:09	VM3	0.13	5	
	08:48	VM5	0.15	5	Demolition of
29 May 2012	09:22	VM16	0.15	5	Building M,
•	09:53	VM17	0.15	5	building ivi,
	09:37	VM18	0.25	5	
	09:44	VM19	0.13	5	

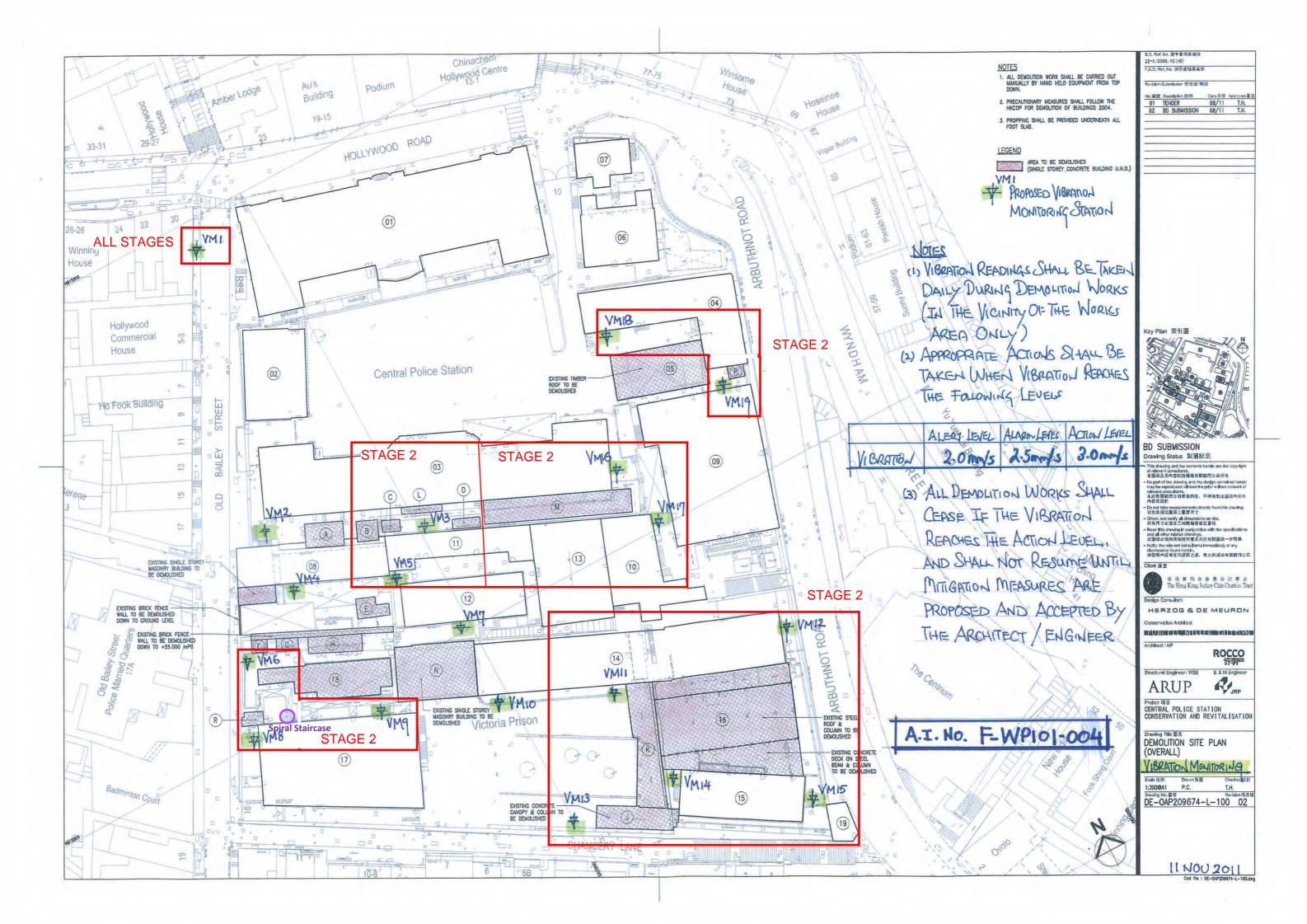
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:42	VM1	0.32	5	
	09:40	VM3	0.25	5	
	09:27	VM5	0.25	5	Demolition of
30 May 2012	09:53	VM16	0.25	5	Building M
	10:02	VM17	0.13	5	Building ivi
	10:24	VM18	0.25	5	
	10:15	VM19	0.13	5	



Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:35	VM1	0.42	5	
	10:13	VM3	0.25	5	
	10:03	VM5	0.25	5	Demolition of
31 May 2012	09:22	VM16	0.25	5	Building M,
	09:34	VM17	0.13	5	Building ivi,
	09:49	VM18	0.25	5	
	09:41	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:15	VM1	0.36	5	
	08:49	VM3	0.32	5	
	09:03	VM5	0.25	5	Demolition of
1 June 2012	08:13	VM16	0.27	5	Building M,
	08:21	VM17	0.13	5	building ivi,
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:37	VM1	0.25	5	
	09:19	VM3	0.28	5	
	09:23	VM5	0.32	5	Domolition of
2 June 2012	08:32	VM16	0.25	5	Demolition of Building M
	08:40	VM17	0.13	5	Building ivi
	09:07	VM18	0.25	5	
	08:49	VM19	0.13	5	



### Annex M

Records of Vibration Monitoring for Trial Pile Works



## Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 2012-4-22 To 2012-5-5

POIN	ĪΤ	VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s							
2/4/2012(	Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
23/4/2012		0.54	0.19	0.75	1.01	0.24	0.91	0.18	0.13	0.22	0.36	0.68	0.21	0.67	0.27	0.13
24/4/2012		0.63	0.13	0.81	1.21	1.01	1.08	0.19	0.27	0.22	0.64	0.38	0.13	1.01	0.19	0.22
25/4/2012		0.27	0.13	0.19	0.98	1.08	0.67	0.81	0.23	0.61	0.13	0.13	0.27	0.22	0.13	0.13
26/4/2012		0.13	0.19	0.62	0.81	0.71	0.53	0.13	0.13	0.19	0.22	0.47	0.13	0.19	0.13	0.13
27/4/2012		0.19	0.22	0.13	0.13	0.13	0.13	0.19	0.21	0.13	0.27	0.13	0.33	0.13	0.19	0.13
28/4/2012								Pı	ıblic Holid	lay						
30/4/2012		0.23	0.21	0.37	0.31	0.34	0.41	0.22	0.33	0.27	0.19	0.32	0.21	0.35	0.25	0.13
1/5/2012								Pı	ablic Holid	lay						
2/5/2012		0.23	0.13	0.19	0.21	0.63	0.13	0.22	0.13	0.19	0.13	0.13	0.19	0.31	0.13	0.22
3/5/2012		0.19	0.27	0.61	0.13	0.13	0.17	0.21	0.36	0.63	0.17	0.22	0.21	0.63	0.13	0.24
4/5/2012		0.63	0.27	0.6	0.22	0.23	0.61	0.71	0.21	0.13	0.61	0.79	0.81	0.13	0.13	0.13
5/5/2012		0.61	0.21	0.13	0.13	0.19	0.13	0.27	0.13	0.23	0.34	0.13	0.61	0.69	0.14	0.88

## ₩₩ 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

Monitoring Check Pts.		Trigger Level	S
Monitoring Check Fts.	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

## Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 2012-5-6 To 2012-5-19

POIN	T	VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s														
2/4/2012(1	Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
6-May-2012														0.10	0120	0.22
7-May-2012		0.22	0.13	0.61	0.13	0.17	0.21	0.22	0.63	0.13	0.92	0.13	0.22	0.27	0.19	0.40
8-May-2012		0.13	0.27	0.55	0.19	0.27	0.61	0.27	0.63	0.23	0.81	0.27	0.62	0.19	0.22	0.22
9-May-2012		0.23	0.61	0.37	0.27	0.31	0.13	0.13	0.19	0.61	0.51	0.51	0.41	0.27	0.27	0.13
0-May-2012		0.13	0.24	0.26	0.91	0.11	0.13	0.27	0.13	0.60	0.27	0.19	0.50	0.27	0.19	0.13
1-May-2012		0.27	0.30	0.21	0.13	0.13	0.69	0.13	0.27	0.19	0.61	0.30	0.40	0.17	0.19	0.21
2-May-2012		0.71	0.60	0.13	0.23	0.17	0.21	0.27	0.44	0.39	0.90	0.13	0.40	0.19	0.27	0.61
13-May-2012		450														
14-May-2012		0.21	0.3	0.27	0.19	0.13	0.22	0.19	0.52	0.17	0.51	0.23	0,6	0.37	0.13	0.13
5-May-2012		0.3	0.55	0.19	0.31	0.13	0.27	0.19	0.23	0.51	0.79	0.4	0.19	0.22	0.22	0,13
16-May-2012		0.22	0.13	0.23	0.27	0.37	0.11	0.61	0.13	0.13	0.61	0.51	0.63	0.27	0.42	0.9
7-May-2012		0.27	0.19	0.13	0.23	0.61	0.55	0.6	0.61	0.3	0.79	0.79	0.81	0.22	0.19	0.13
8-May-2012		0.5	0.21	0.13	0.6	0.17	0.61	0.27	0.19	0.21	0.51	0.4	0.62	0.19	0.13	0.69
9-May-2012		0.23	0.22	0.13	0.19	0.27	0.23	0.62	0.27	0.26	0.13	0.81	0.23	0.13	0.27	0.33

## WW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels							
Monitoring Check Fis.	Alert level	Alarm level	Action level					
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s					

Projec	ct Title:	Central 1	Police St	ation Co	nservatio	n & Rev	italizatio	n P	roject N	o: WP20	1		Date	: 20-5-201	12 To 2-6	-2012
POIN	Т	VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
20-May-2012																
21-May-2012		0.24	0.26	0.31	0.13	0.23	0.31	0.69	0.62	0.90	0.79	0.27	0.27	0.13	0.13	0.19
22-May-2012		0.61	0.13	0.27	0.69	0.51	0.22	0.40	0.30	0.71	0.27	0.13	0.37	0.19	0.60	0.30
23-May-2012		0.13	0.27	0.19	0.21	0.31	0.69	0.30	0.23	0.60	0.51	0.27	0.41	0.16	0.44	0.31
24-May-2012		0.26	0.22	0.27	0.31	0.21	0.27	0.27	0.30	0.33	0.51	0.19	0.81	1.01	0.69	1.27
25-May-2012		0.13	0.27	0.19	0.22	0.63	0.81	0.61	0.27	0.31	0.98	1.01	0.13	1.21	0.62	0.19
26-May-2012		0.30	0.21	0.71	0.61	0.13	0.69	0.31	0.27	0.71	0.13	0.19	1.13	0.22	0.26	0.22
27-May-2012														***************************************	2	
28-May-2012		0.27	0.13	0.27	0.17	0.19	0.52	0.61	1.08	0.71	0.13	0.24	0.17	1.22	0.69	0.23
29-May-2012		0.31	0.22	0.19	0.13	0.13	0.41	0.19	0.91	0.51	0.21	0.19	0.51	0.19	0.13	0.27
30-May-2012		0.61	0.13	0.72	0.19	0.13	0.19	0.82	1.11	0.27	0.17	0.24	0.23	0.61	0.55	0.13
31-May-2012		0.22	0.19	0.41	0.57	0.32	0.81	0.69	0.90	1.05	1.07	0.13	0.13	0.19	0.22	0.41
1-Jun-2012		0.23	0.28	0.13	0.13	0.67	0.52	0.33	0.13	0.19	0.27	0.18	1.08	0.61	0.21	0.13
2-Jun-2012		0.22	0.61	0.88	0.34	0.13	0.13	0.13	0.19	0.27	0.22	0.18	0.90	1.02	0.73	0.90

### Annex N

Records of Vibration Monitoring for Other Construction Works



### CENTRAL POLICE STATION CONSERVATION AND REVITALISATION

INITIAL READINGS OF ALL MONITORING STATIONS
FOR

Structural (Alterations & Additions) – Underpinning, Temporary Façade Strengthening and Demolition Works at Block 8

23 APRIL 2012

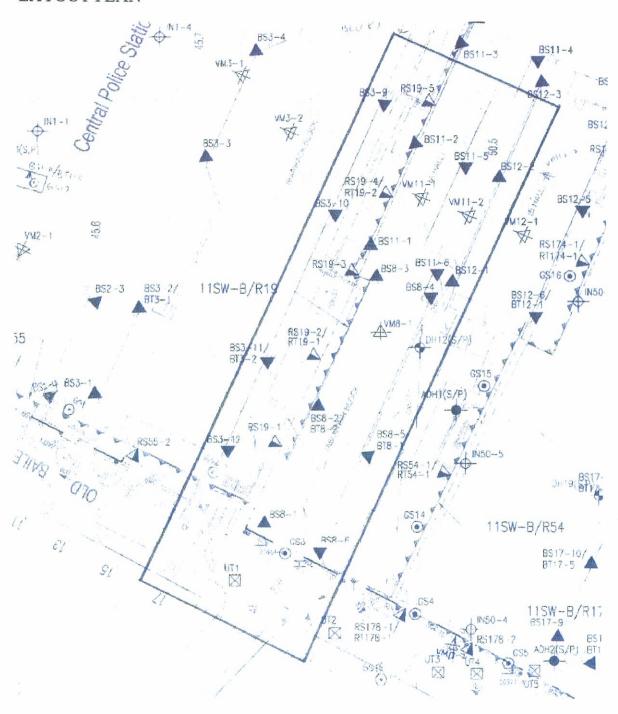
#### CENTRAL POLICE STATION CONSERVATION AND REVITALISATION

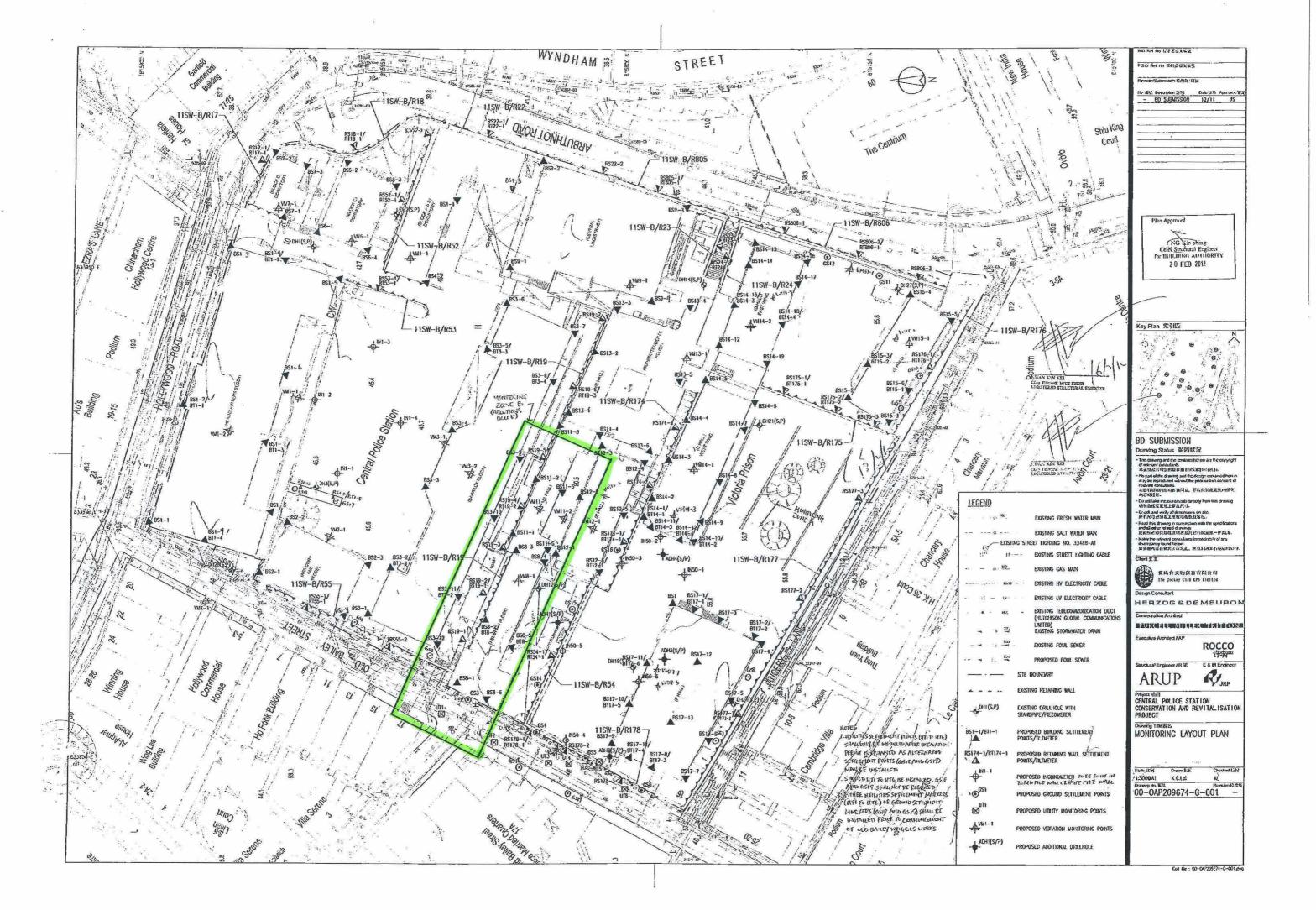
INITIAL READINGS OF ALL MONITORING STATIONS

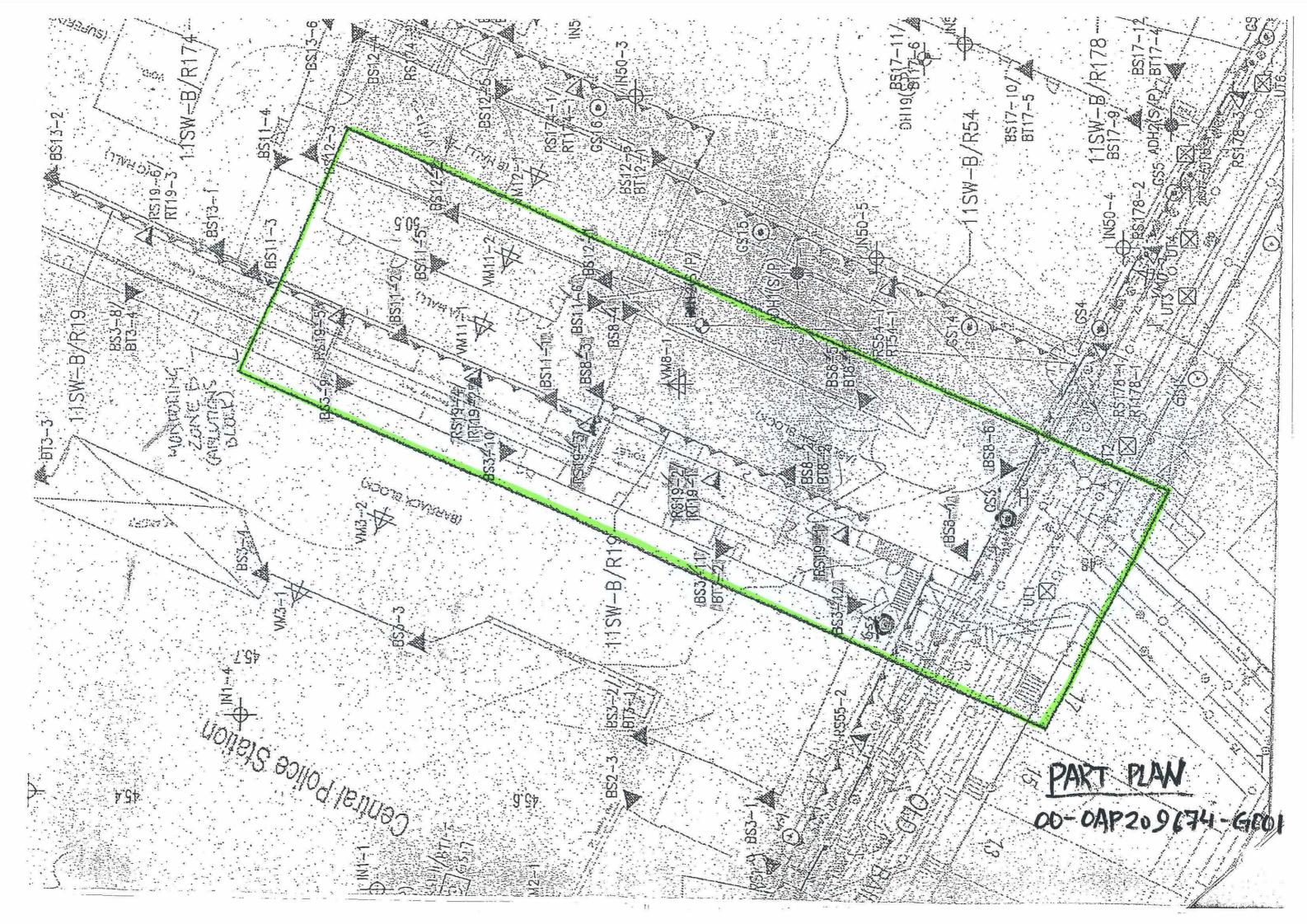
FOR Structural (Alterations & Additions) – Underpinning, Temporary Façade Strengthening and Demolition Works at Block 8

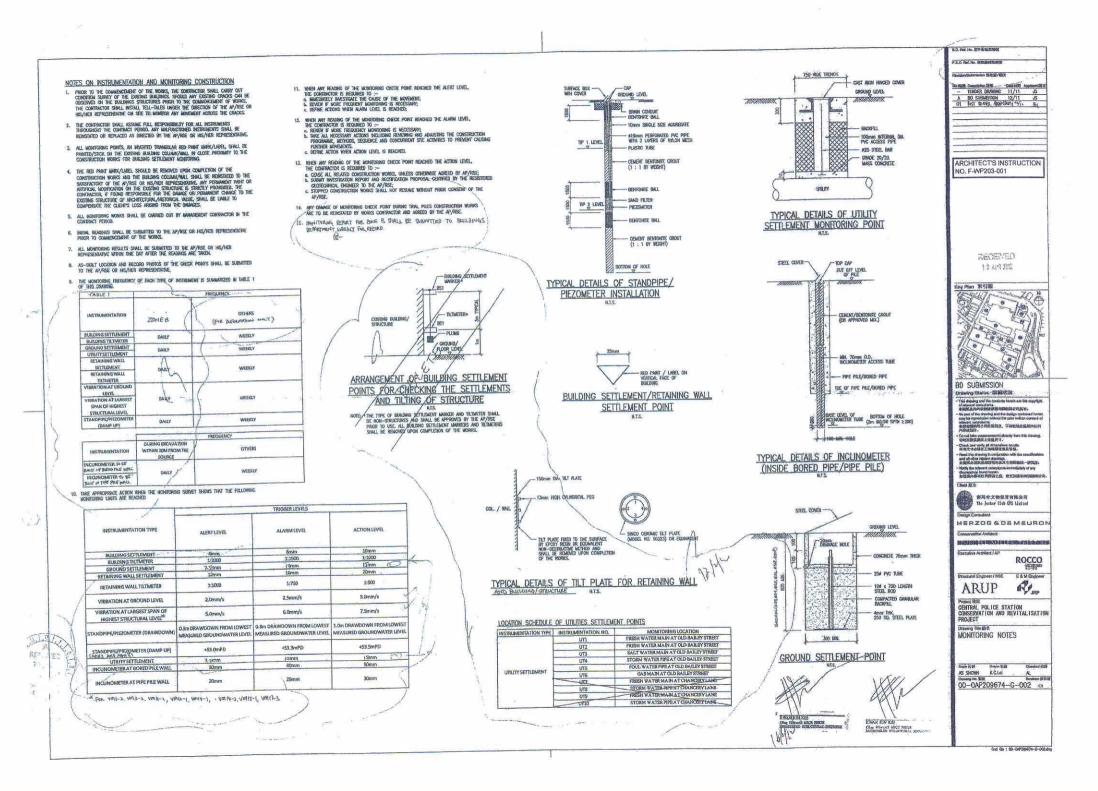
23 April 2012

### LAYOUT PLAN



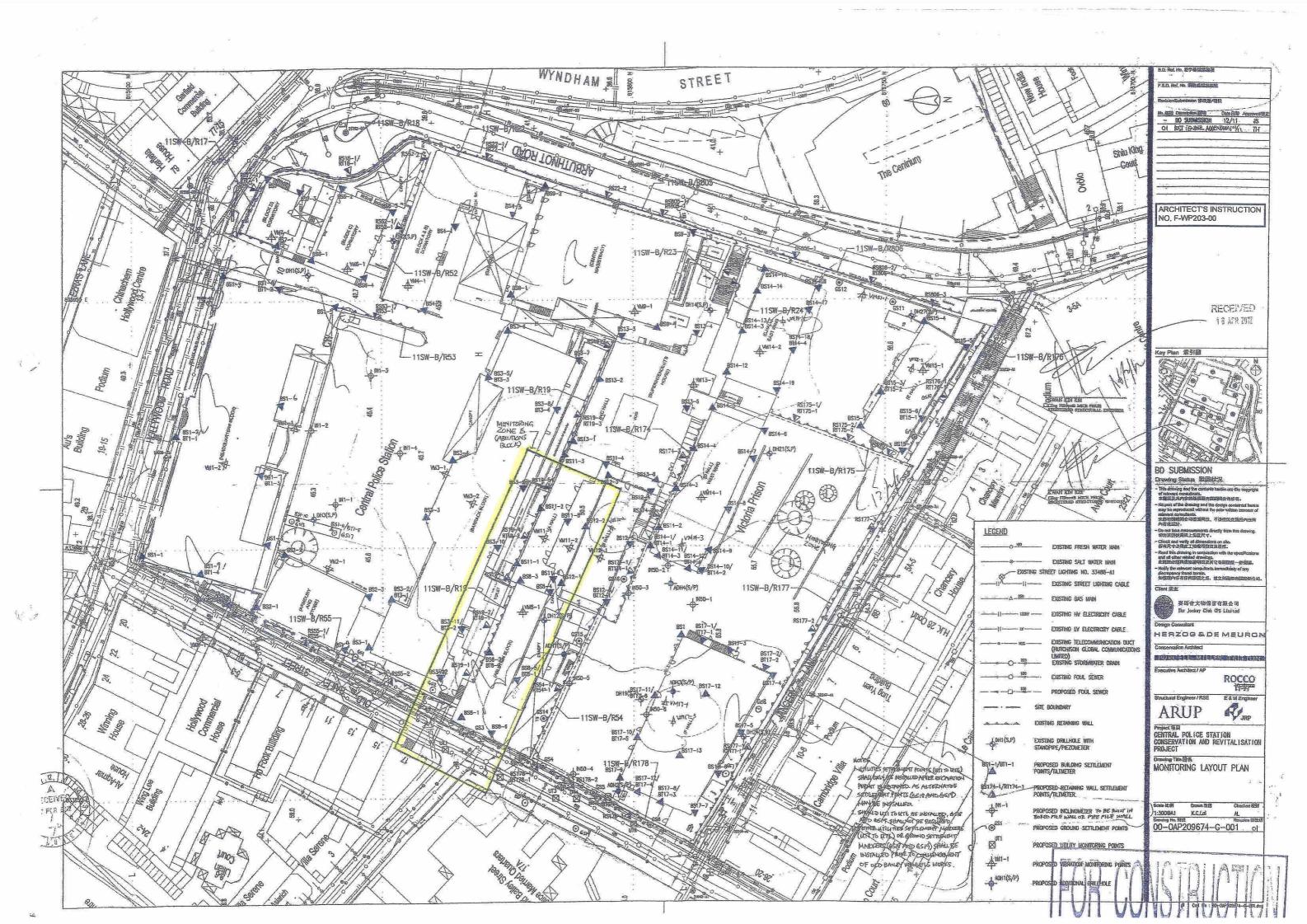






Monitoring Check Pts.	Trigger Levels							
Wonttoning Check Pts.	Alert level	Alarm level	Action level					
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s					

Project Title: Central Police Station Conservation & Revitalization							n Pro	ject No: W	P203	Date: 24-4-2012 To 5-5-2012					
POIN	Т	VM8-1	VM11-1	VM11-2											
DATE	PD/(m)	mm/s	mm/s	mm/s				,							
23/4/2012 (	Initial)	0.212	0.087	0.116											
24-Apr-2012		0.154	0.054	0.124											
25-Apr-2012		0.142	0.042	0.130											
26-Apr-2012		0.124	0.042	0.021											
27-Apr-2012		0.142	0.057	0.046											
28-Apr-2012															
29-Apr-2012															
30-Apr-2012		0.142	0.027	0.146											
1-May-2012															
2-May-2012		0.112	0.187	0.116											
3-May-2012		0.130	0.047	0.046					22.020						
4-May-2012		0.182	0.195	0.156											
5-May-2012		0.178	0.165	0.126											





### 仁利建築有限公司 Yan Lee Construction Co., Ltd.

Monitoring Check Pts.		Trigger Level	S
Monitoring Check Fis.	Alert level	Alarm level	Action leve
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

Project Title: Central Police Station Conservation & Revitalization								Project No: WP203 Date: 6-5-2012 To 19-5-2012								
POIN	Т	VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-2012	(Initial)	0.212	0.087	0.116											AKUI — TOTALIS	
6-May-2012																
7-May-2012		0.153	0.087	0.116												
8-May-2012		0.142	0.068	0.132						A.V.						
9-May-2012		0.142	0.042	0.130		7 3		2. 1								
10-May-2012		0.124	0.042	0.021	7	200		15								
11-May-2012		0.142	0.057	0.046	A 3	- BV - B										
12-May-2012		0.087	0.116	0.126		E1 0 40										
13-May-2012							1/1-125									
14-May-2012		0.178	0.165	0.126				C ART								
15-May-2012		0.153	0.087	0.116								7.11				
16-May-2012		0.142	0.068	0.132	130	"11"	8/2 /				-6-216	STEELINGS.		4-7		
17-May-2012		0.142	0.042	0.130												
18-May-2012		0.124	0.042	0.021				1001100	Sales							
19-May-2012		0.142	0.057	0.046												



### 仁利建築有限公司 Yan Lee Construction Co., Ltd.

Monitoring Check Pts.		Trigger Level	S
Monitoring Check Fis.	Alert level	Alarm level	Action leve
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

POIN	T	VM8-1	VM11-1	VM11-2		_										
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-2012	(Initial)	0.212	0.087	0.116		F - 57 7 7 1										
20-May-2012																
21-May-2012		0.210	0.085	0.120												
22-May-2012		0.053	0.124	0.142	R 7											
23-May-2012		0.121	0.186	0.132												
24-May-2012		0.098	0.068	0.128								100 00 000				
25-May-2012		0.046	0.118	0.132												
26-May-2012		0.052	0.097	0.107												
27-May-2012													S-134 185	# 0 == 30    == 22		
28-May-2012		0.142	0.107	0.125	RITME.		1 - 3 W				E 27 18	O LUTY CO	in in many si			
29-May-2012		0.179	0.102	0.110	evir in											
30-May-2012		0.098	0.102	0.111												
31-May-2012		0.121	0.112	0.118								7-3				
1-Jun-2012		0.124	0.072	0.122												
2-Jun-2012		0.097	0.063	0.082												1