#### MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Nineteenth Monthly EM&A Report (1 May to 31 May 2013)

Issue Date: June 2013

#### **Environmental Resources Management**

16/F

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The Jockey Club CPS Limited

# Central Police Station Conservation and Revitalisation Project: Nineteenth Monthly EM&A Report (From 1 May to 31 May 2013)

Issue Date: June 2013 Reference 0095646

For and on behalf of				
ERM-Hong Kong, Limited				
Approved b	y: Frank Wan			
Signed:	Wardwit J.			
Position:	Partner			
Certified by				
(En	vironmental Team Leader – Winnie Ko)			
Date: _	14 June 2013			

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.

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Date: 17 June 2013

#### By Email and Post

ERM-Hong Kong Limited, 21/F Lincoin House, 979 King's Road, Taikoo Place, Island East, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

# Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.19

We refer to your letter dated 17 June 2013 regarding the Monthly EM&A Report No.19. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/B).

Yours sincerely, For Atkins China Ltd.

Sharifah Or

**Independent Environmental Checker** 

c.c. HKJC – Mr. Kenneth Lee, Rocco Design Architect – Mr. Charles Kung, By Email By Email

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#### **EXECUTIVE SUMMARY**

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the nineteenth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 May to 31 May 2013 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:

- Construction of bored pile wall and foundation piles at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General strip out works at Block 2, Block 6, Block 7, Block 10, Block 11, Block 12, Block 13, Block 14 and Block 17;
- Addition and alteration works at Block 1;
- Roof tiling preparation works at Block 1;
- Excavation and lateral support works at Parade Ground;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Erection of loading test platform at Arbuthnot Wing;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Full load test to masonry wall to Block 2, Block 3, Block 4, Block 9, Block 10, Block 13 and Block 15; and
- Additional bored hole at Old Bailey Street.

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

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

•	Construction noise monitoring during normal weekdays at each	
	monitoring station	5 times
•	Joint environmental site inspection	1 time
•	Heritage site inspections	10 times
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for trial piling works	5 times
•	Vibration monitoring for pipe pile/bored pile walls	
	piling works	120 times
•	Vibration monitoring for other construction works	50 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 or Limit Level of construction noise was recorded during the reporting period.

#### Cultural Heritage

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 25 vibration monitoring measurements for the foundation pile works at Block 8;
- 25 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 25 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 20 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 5 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 14.

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

Heritage site audits were conducted on 2 May 2013, 3 May 2013, 8 May 2013, 9 May 2013, 10 May 2013, 14 May 2013, 15 May 2013, 16 May 2013, 21 May 2013 and 24 May 2013 during the reporting period. Major observations and recommendations during the site inspections were listed below:

 Lower ground level south side of Building 1 is vulnerable to water ingress during inclement weather. Better protection is recommended to avoid further damage to the building fabric; and 2) It was noticed that a rainwater pipe to Building 1 northeast corridor had no temporary pipe, causing window frame 01/WLG2/09 wet and the floor 01/LG2/15 saturated.

The follow-up actions recommended in the heritage site audits from the last reporting period have generally been implemented.

#### Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 14 May 2013 by the arborist during the reporting period. Close monitoring of sap flow in Tree-9 by the Contractor was recommended for the upcoming month.

#### Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 2,679.91 tonnes of inert C&D materials were generated during the reporting period. 176.68 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 17,286 kg of metal and 62 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced 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 2013. There is no major observation or recommendation during the site audit.

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

No exceedance of Action or Limit Level 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.

No enquiry was received during the reporting period.

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

No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

#### **Future Key Issues**

Works to be undertaken in the next month include:

- General strip out works at Block 3, Block 10, Block 13 and Block 17;
- Structural addition and alteration works at Block 1;
- Roof tiles replacement works at Block 1;
- Demolition works to Block 11 and Block 12;
- Timber loading test at Block 3, Block 13 and Block 14;
- Masonry wall loading test at Block 4;
- Underpinning works of Block 14;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Loading test to trial working pile at Arbuthnot Wing;
- Removal of loading test platform at Arbuthnot Wing,
- Underpinning works at Block 14;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Additional bored hole at Old Bailey Street;
- Additional inclined drilled holes at revetment wall R55 at Old Bailey Street; and
- External Scaffolding erection at Block 6, Block 7 and Block 10.

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

#### 1 INTRODUCTION

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 nineteenth 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 2013.

#### 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 Requirements

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 Jockey Club 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*.

#### **Construction Activities Undertaken**

- Construction of bored pile wall and foundation piles at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General strip out works at Block 2, Block 6, Block 7, Block 10, Block 11, Block 12, Block 13, Block 14 and Block 17;
- Addition and alteration works at Block 1;
- Roof tiling preparation works at Block 1;
- Excavation and lateral support works at Parade Ground;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Erection of loading test platform at Arbuthnot Wing;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Full load test to masonry wall to Block 2, Block 3, Block 4, Block 9, Block 10, Block 13 and Block 15; and
- Additional bored hole at Old Bailey Street.

#### 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</i> Pollution Control (Construction Dust) Regulation	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>	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-

Permit/ Licences/ Notification	Reference Validity Period		Remarks	
Ordinance  Notification of Commencement of Asbestos Abatement Work under Air Pollution Control Ordinance	-	Throughout the Contract	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	
(Phase 2) date on 26		commencement	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.	
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.	
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.	
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.	
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.	
	GW-RS1301-12	2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours	-	
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	-	

#### 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

<b>Monitoring Location</b>	Proposed Construction Noise Monitoring 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 ( $L_{\rm eq}$ ) in decibels dB(A).  $L_{\rm eq\,(30min)}$  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 10786708; S/N 10997142)
	Sound Level Meter
	Rion NL-31 (S/N 00603867)

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(A).

#### 3.1.4 Event / Action Plan

#### Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Action Level	Limit Level, L <sub>eq(30mins), dB(A)</sub>	Remark
NM2, NM6	When one documented complaint is received from any one of the sensitive receivers	75 (note)	Applicable during 0700 – 1900 hours on normal weekdays.

#### Notes:

- a) Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
- b) If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

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.

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.

Vibration Monitoring for Demolition Works

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 and Pipe/Bored Piling Works

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

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex M*. The number and location of monitoring location will depend 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	Action Level
Vibration	Horizontal	2.0 mm/s	2.5 mm/s	3.0 mm/s
Monitoring	Movement			

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 (including those for archaeology) 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 the environmental mitigation measures (including those for archaeology) 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	Eighteenth Monthly EM&A Report	14 May 2013

#### 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 or Limit Level of construction noise was recorded during the reporting period.

#### 5.2 CULTURAL HERITAGE

#### 5.2.1 Vibration Monitoring

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 25 vibration monitoring measurements for the foundation pile works at Block 8;
- 25 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 25 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 20 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 5 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

The monitoring results are presented in *Annex L*.

#### Other Construction Works

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 14.

The monitoring results are presented in *Annex M*.

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

#### 5.2.2 Heritage Site Audit

Heritage site audits were conducted on 2 May 2013, 3 May 2013, 8 May 2013, 9 May 2013, 10 May 2013, 14 May 2013, 15 May 2013, 16 May 2013, 21 May 2013 and 24 May 2013 by the Heritage Checker during the reporting period. Major observations and recommendations during the site inspections were listed below:

#### 16 May 2013

 Lower ground level south side of Building 1 is vulnerable to water ingress during inclement weather. Better protection is recommended to avoid further damage to the building fabric.

#### 21 May 2013

• It was noticed that a rainwater pipe to Building 1 northeast corridor had no temporary pipe, causing window frame 01/WLG2/09 wet and the floor 01/LG2/15 saturated.

The follow-up actions recommended in the heritage site audits from the last reporting period have generally been implemented.

#### 5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 14 May 2013 and major observations and recommendations in the reporting period are summarised in *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>Part of the cordon zone has been altered to a worker storage room.</li> <li>The Contractor was reminded to beware of potential chemical spillage.</li> </ul>	
Tree -6	Aleurites moluccana	Fair	<ul> <li>No further action required.</li> </ul>	
Tree-7	Aleurites moluccana	Fair	No further action required.	
Tree-8	Plumeria rubra	Fair	<ul> <li>No further action required.</li> </ul>	
Tree-9	Araucaria cunninghamia	Fair	<ul> <li>Close monitoring of sap flow is recommended.</li> </ul>	
Tree-11	Dracaena marginata	Fair	No further action required.	

#### 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. 17286 kg of metal and 62 kg of paper/ cardboard packaging were generated and sent to recyclers for recycling. No plastics waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year	Quantity						
·-	C&D	C&D	Chemical Waste		Recycled materials		
	Materials (inert) <sup>(a)</sup>	Materials (non-inert) (b)	Solid	Liquid	Paper / cardboard	Plastics	Metals
May 2013	2679.91	176.68	0 kg	0 L	62 kg	0 kg	17286
	tonnes	tonnes					kg

#### Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
- (b) The figure presented under non-inert C&D materials represents quantities of non-recyclable materials such as general refuse which were disposed of at SENT Landfill. Recycled materials are reported separately.

#### 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 2013. There was no non-compliance recorded during the site inspection.

#### Follow-up Actions for the Last Site Audit

 The pool of stagnant water observed in the balcony of Block 9 has been removed.

Observations and Recommendations of this Reporting Month

Nil.

#### 7 ENVIRONMENTAL NON-CONFORMANCE

#### 7.1 SUMMARY OF MONITORING EXCEEDANCE

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

#### 7.2 SUMMARY OF ENQUIRY

No enquiry was recorded during the reporting period.

## 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. Cumulative number of complaints is presented in *Annex K*.

#### 7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

#### FUTURE KEY ISSUES

8

#### 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 Undertaken

- General strip out works at Block 3, Block 10, Block 13 and Block 17;
- Structural addition and alteration works at Block 1;
- Roof tiles replacement works at Block 1;
- Demolition works to Block 11 and Block 12;
- Timber loading test at Block 3, Block 13 and Block 14;
- Masonry wall loading test at Block 4;
- Underpinning works of Block 14;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Loading test to trial working pile at Arbuthnot Wing;
- · Removal of loading test platform at Arbuthnot Wing,
- Underpinning works at Block 14;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Additional bored hole at Old Bailey Street;
- Additional inclined drilled holes at revetment wall R55 at Old Bailey Street; and
- External Scaffolding erection at Block 6, Block 7 and Block 10.

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 2013 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

No exceedance of Action or Limit Level 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.

No enquiry was received during the reporting period.

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

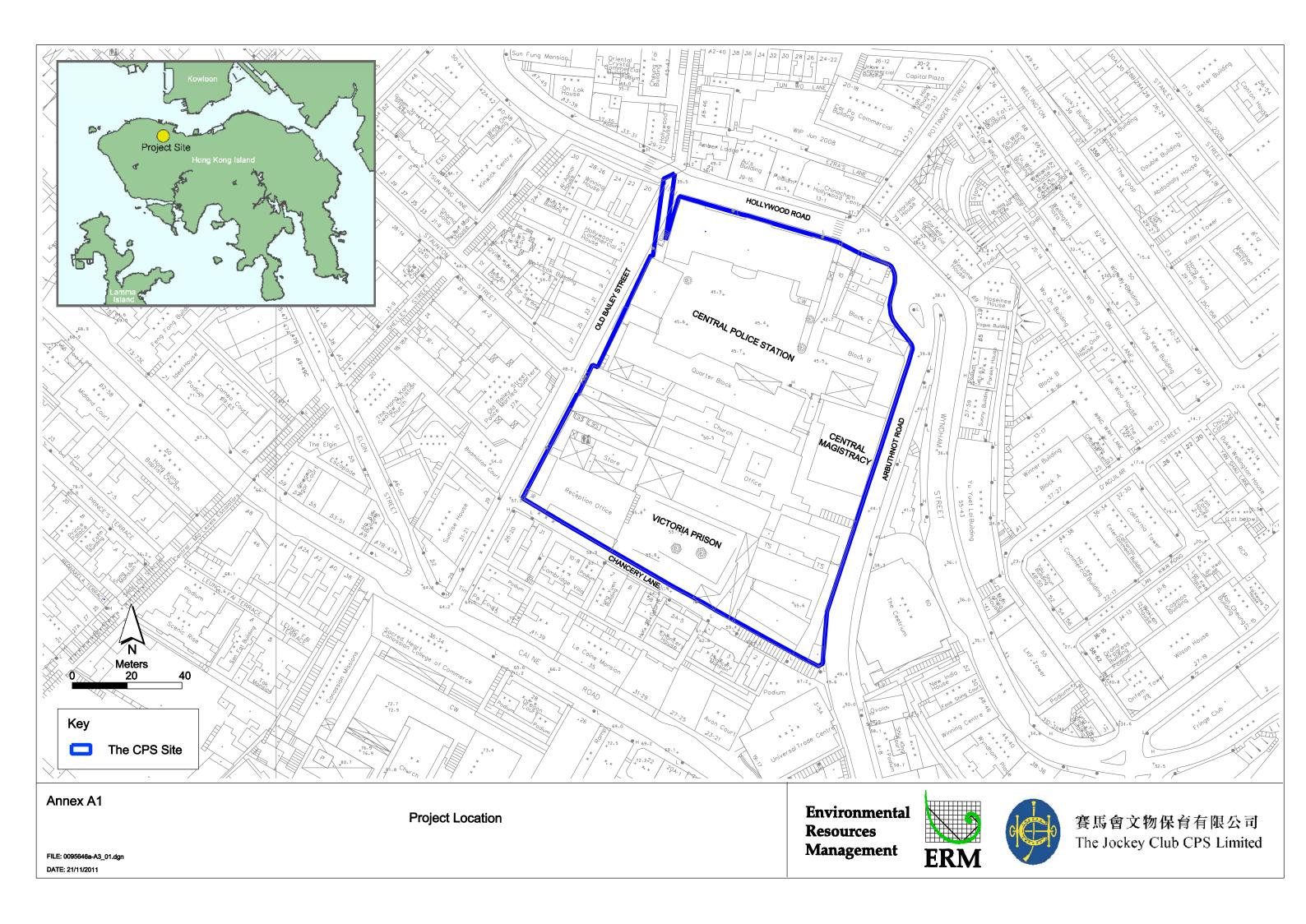
No complaint was received during the reporting period.

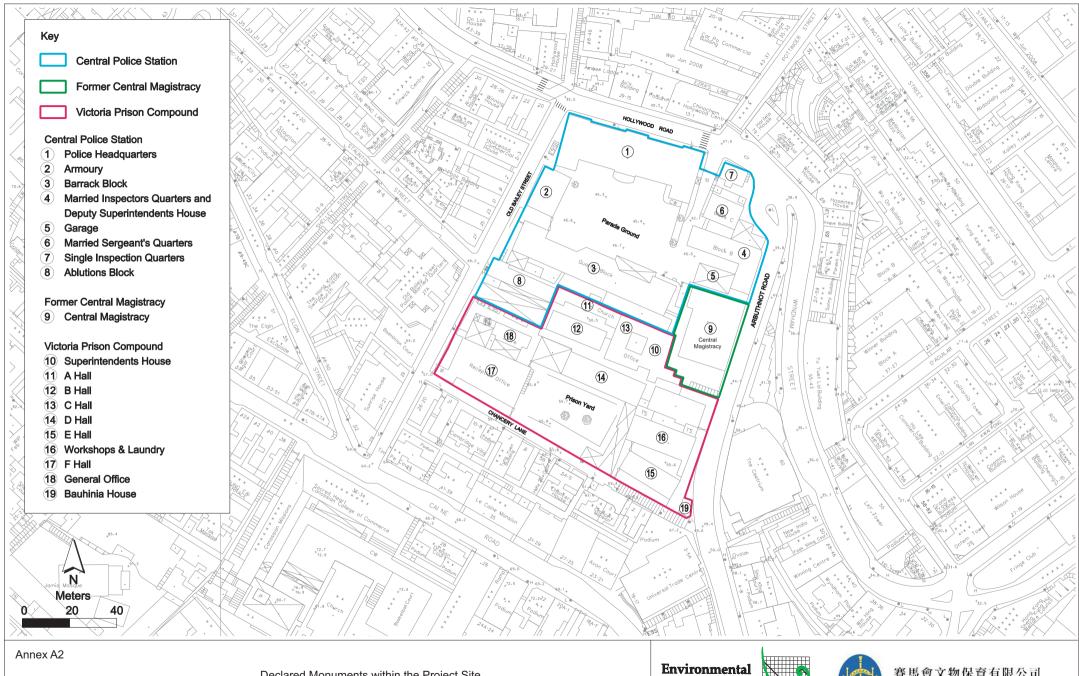
No summons/prosecution was received during the reporting period.

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





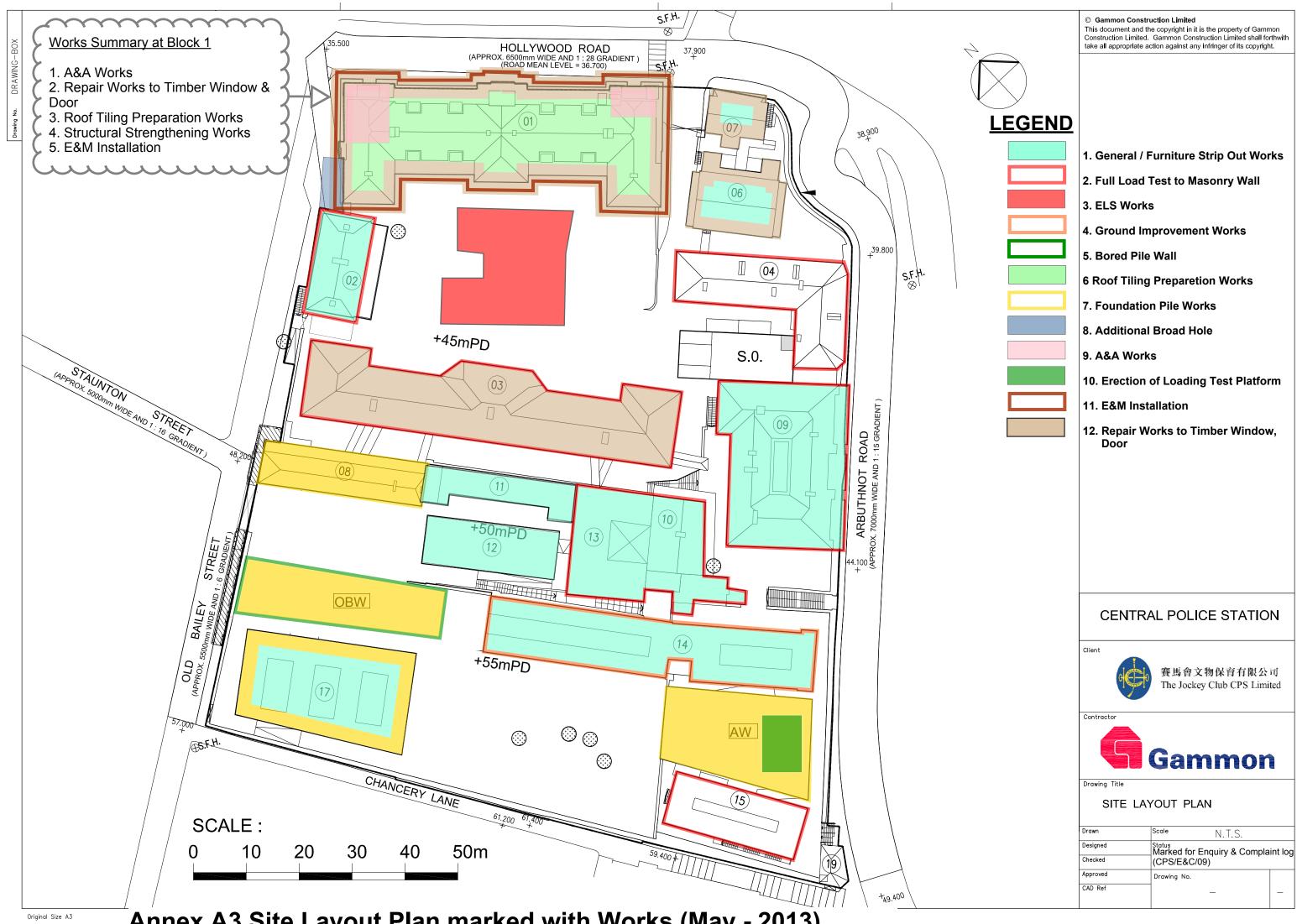
FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

Resources Management



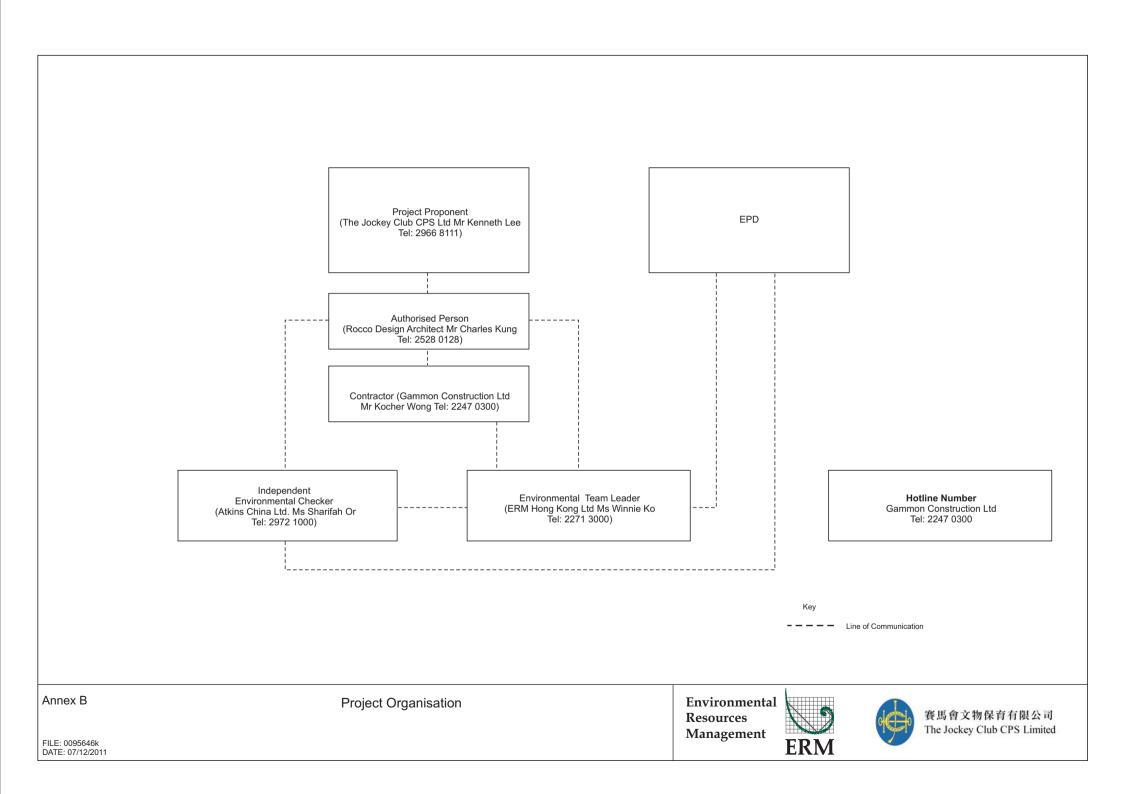




Annex A3 Site Layout Plan marked with Works (May - 2013)

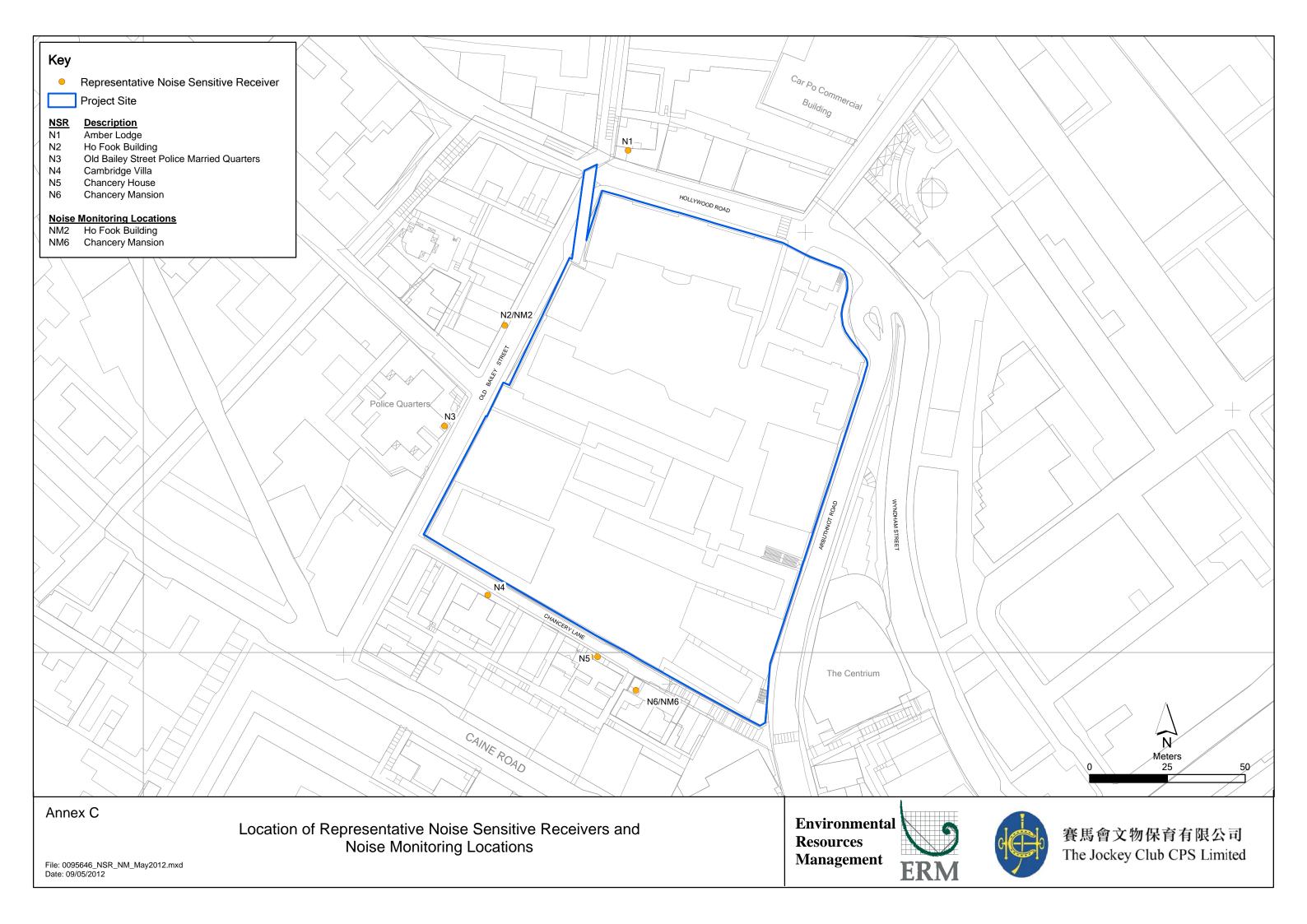
# Annex B

# 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 Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - May 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-May	02-May	03-May	04-May
05-May	06-May	07-May	08-May	09-May	10-May	11-May
	Najaa Manitaring					Naisa Manitarina
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
	at Mile a Milo					at MNZ a MNO
12-May	13-May	14-May	15-May	16-May	17-May	18-May
				Naisa Manitarina		
				Noise Monitoring at NM2 & NM6		
				at time a timo		
19-May	20-May	21-May	22-May	23-May	24-May	25-May
			Noise Monitoring			
			at NM2 & NM6			
26-May	27-May	28-May	29-May	30-May	31-May	
		Noise Monitoring				
		at NM2 & NM6				
		a				

### Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - June 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Jun
02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun
UZ-Juli	03-3011	04-Juii	05-Juli	Vo-Juli	07-Juii	00-Juii
	Noise Monitoring					Noise Monitoring
	at NM2 & NM6					at NM2 & NM6
09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
					Noise Monitoring at NM2 & NM6	
					at Minz a Mino	
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
				Noise Monitoring		
				at NM2 & NM6		
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
20 0011	210011	20 0011		27 0011	20 0011	20 0011
			Noise Monitoring			
			at NM2 & NM6			
30-Jun						

### Annex E

Calibration Reports for Calibrators and Sound Level Meters



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.:

C124184

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1770)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No./編號

NC-73 10786708

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

17 July 2012

### TEST RESULTS / 測試結果

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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By

測試

Certified By

核證

K C Lee

Date of Issue

簽發日期

18 July 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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co香港新界屯門興安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 2



### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 交正證書

Certificate No.:

C124184

證書編號

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

The results presented are the mean of 3 measurements at each calibration point. 2.

3. Test equipment:

> Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

Sound Level Accuracy 5.1

Douna Deverriedanaej			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value		
(kHz)	(kHz)	Spec.	(Hz)		
1	0.990	1 kHz ± 2 %	± 1		

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

The values given in this Certificate 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 Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1674)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號

NC-73 10997142

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度 :

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

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

9 July 2012

### TEST RESULTS / 測試結果

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
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

L K Yeung

Certified By

核證

K C Lee

Date of Issue

10 July 2012

簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Tel 電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

:



### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 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 CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

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

1 Todata j 1 Todatao			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	$1 \text{ kHz} \pm 2 \%$	± 1

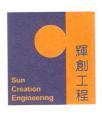
Remark: The uncertainties are for a confidence probability of not less than 95 %.

### Note:

The values given in this Certificate 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.

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

校正證書

Certificate No.:

C124191

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC12-1770)

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion NL-31

Serial No. / 編號

00603867

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

18 July 2012

### TEST RESULTS / 測試結果

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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By

測試

L K Yeung

Certified By

核證

K/C Lee

Date of Issue

18 July 2012

簽發日期

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Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

Certificate No.:

C124191

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm 1. up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point. 3.
- 4. Test equipment:

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C120016 DC110233

Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applied	l Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	e Level Freq.		Reading	Spec.
(dB)		Weighting	Weighting	(dB) (kHz)		(dB)	(dB)
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level Freq.		Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	$L_A$	A	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

Time Weighting 6.2

Time weigh	Time Weighting									
	UU	T Setting		Applied	Value	UUT	IEC 61672 Class 1			
Range	Mode Frequency Tin		Time	Level	Freq.	Reading	Spec.			
(dB)		Weighting Weighting		(dB)	(kHz)	(dB)	(dB)			
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.8	Ref.			
			Slow			93.7	± 0.3			

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Tel/電話: 2927 2606 Fax/傳真: 2744 8986

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 交正證書

Certificate No.: C124191

證書編號

Frequency Weighting

6.3.1 A-Weighting

11 Weighting							
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode Frequency Time L		Level	Freq.	Reading	Spec.	
(dB)		Weighting	Weighting	(dB)	_	(dB)	(dB)
30 - 120	$L_A$	A	Fast	94.00	63 Hz	67.6	$-26.2 \pm 1.5$
					125 Hz	77.6	$-16.1 \pm 1.5$
					250 Hz	85.1	$-8.6 \pm 1.4$
					500 Hz	90.6	$-3.2 \pm 1.4$
					1 kHz	93.8	Ref.
					2 kHz	95.1	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.8	-1.1 (+2.1; -3.1)
					12.5 kHz	89.9	-4.3 (+3.0; -6.0)

6.3.2 C-Weighting

C Weighting							
	UU'	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting			Reading (dB)	Spec. (dB)
30 - 120	L <sub>C</sub>	C	Fast	94.00	63 Hz	93.0	$-0.8 \pm 1.5$
					125 Hz	93.6	$-0.2 \pm 1.5$
					250 Hz	93.8	$0.0 \pm 1.4$
					500 Hz	93.9	$0.0 \pm 1.4$
					1 kHz	93.9	Ref.
					2 kHz	93.7	$-0.2 \pm 1.6$
					4 kHz	93.2	$-0.8 \pm 1.6$
					8 kHz	90.9	-3.0 (+2.1; -3.1)
					12.5 kHz	88.1	-6.2 (+3.0; -6.0)

Remarks: - Mfr's Spec.: IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB : 63 Hz - 125 Hz :  $\pm$  0.35 dB

250 Hz - 500 Hz :  $\pm$  0.30 dB :  $\pm 0.20 \text{ dB}$ 1 kHz 2 kHz - 4 kHz  $\pm 0.35 \text{ dB}$ 8 kHz  $\pm 0.45 \text{ dB}$ 

12.5 kHz  $\pm 0.70 \text{ dB}$ 104 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 

114 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 

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

#### Note:

The values given in this Certificate 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.

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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### Annex F

Event / Action Plans for Noise

### Annex F Event and Action Plan for Noise

Event	Action										
	Environmental Team (ET)		Independent Environmental Checker (IEC)		Authorised Person (AP)		Contractor				
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, AP ar Contractor;</li> <li>Discuss with the Contractor ar formulate remedial measures;</li> <li>Increase monitoring frequency check mitigation effectiveness.</li> </ol>	nd 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> <li>4.</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 confifindings;</li> <li>Increase monitoring frequency</li> <li>Carry out analysis of         <ul> <li>Contractor's working proceduto determine possible mitigation to be implemented;</li> <li>Inform IEC, AP and EPD the causes and actions taken for the exceedances;</li> </ul> </li> <li>Assess effectiveness of         <ul> <li>Contractor's remedial actions and keep IEC, EPD and AP informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ul> </li> </ol>	2. res on 3.	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.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	Recommendations under the AAP:  • Preservation by Record (PBR) at Parade Ground has been completed in this reporting period.
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	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance 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	53.3.4	Archival Recording 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	Whole site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling 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	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during 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
	ipe & Visi	ual			
S4.7.27		In-situ Tree Protection - Cordon Zone (CZ)  Cordon off each tree along its drip line (below the crown) with a chain-	Whole site	During construction	$\sqrt{\ }$ - Part of the cordon zone of Tree-5 has been altered to a worker storage room.
		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 wastewater from intruding the soil inside the CZ.			
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning	Whole site	During construction	N/A – no root pruning has been conducted yet
		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 tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	√

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 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	Whole site	During construction	√
S4.7.2	-	expert within two days.  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 underneath so that fertilizers and conditioners could be added on a	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::			
		<ul> <li>Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.</li> </ul>			
		- Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter.			
		<ul> <li>Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	
		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, 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	<b>√</b>

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<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> </ul>			
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, 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 Site	During construction	1
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 m <sup>-2</sup> and have no openings or gaps.	Whole Site	During construction	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√ ·
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	$\sqrt{}$
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	V
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	√
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	V
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	<b>√</b>
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	√
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	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
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 (	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	V
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	<b>V</b>

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	V
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	<b>√</b>

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 stormwater 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	<b>√</b>
Waste N	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	<b>√</b>

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	<b>√</b>
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	V
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	V
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	1
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	V
S8.5	S6	Staff Training  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	V
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	V

### Remark:

- √ 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
- $\Delta$  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**

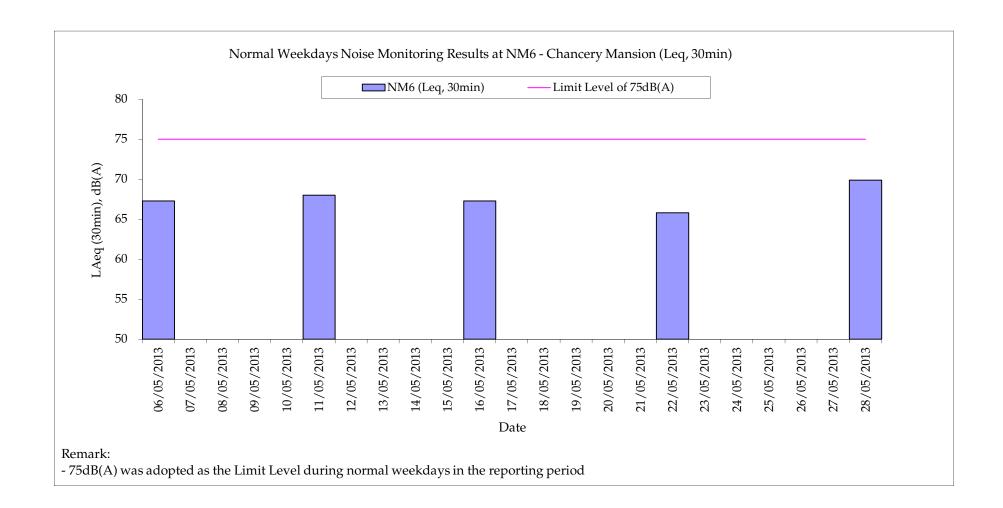
NM6 Chancery Mansion

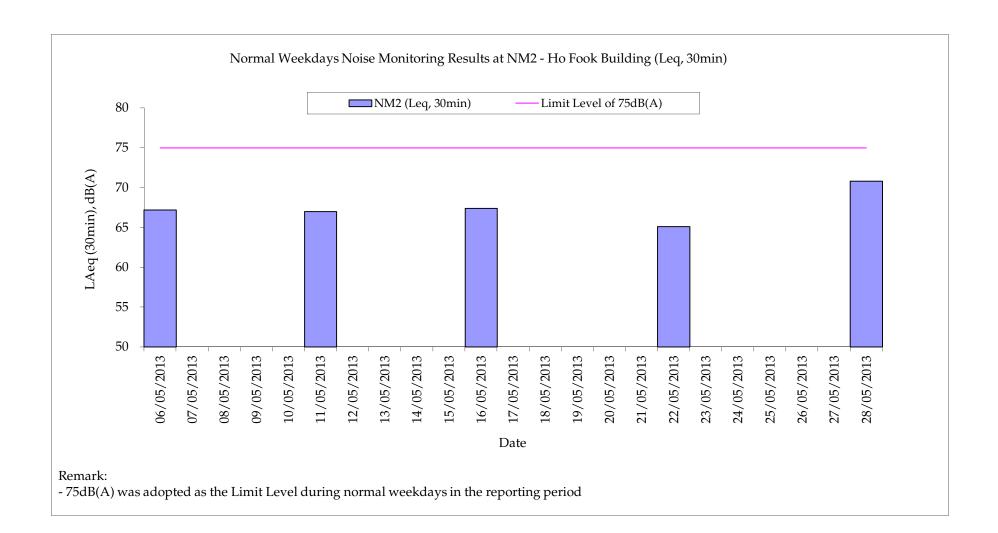
Date	Start Time	End Time	Weather	Noise	level (dB(A)	), 30 min	Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		()		
06-May-13	14:18	14:48	Cloudy	67.3	68.7	64.5	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
11-May-13	13:50	14:20	Sunny	68.0	69.6	64.8	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
16-May-13	14:18	14:48	Cloudy	67.3	68.9	64.3	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
22-May-13	13:50	14:20	Trace rain	65.8	67.2	63.3	Crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
28-May-13	15:00	15:30	Fine	69.9	71.1	68.9	Piling, crawler crane, compressor (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	65.8								
			Max.	69.9								

NM2 Ho Fook Building

				Noise	level (dB(A)	), 30 min	Major Construction	Other Noise	Remarks	Wind Speed	Noise Meter	Calibrator
Date	Start Time	End Time	Weather	Leq	L10	L90	Noise Source(s) Observed	Noise Source(s) Source(s) Observed Observed		(m/s)	Model / ID	Model / ID
06-May-13	15:00	15:30	Cloudy	67.2	69.0	63.8	Crawler crane, excavation (within the project site)	Traffic noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
11-May-13	13:00	13:30	Sunny	67.0	68.9	64.2	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
16-May-13	14:56	15:26	Cloudy	67.4	69.1	63.6	Crawler crane, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
22-May-13	11:05	11:35	Trace rain	65.1	67.0	62.3	Crawler crane (within the project site)	Traffic Noise	-	0.8	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
28-May-13	13:00	13:30	Fine	70.8	72.1	69.3	Piling, crawler crane, compressor (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)

Min. 65.1 Max. 70.8





### Annex I

# Construction Programme for the Project

Activity ID	Activity Description	Duration in Days	2011 J J A S O I	NDJFMAMJJ		3 JASONDJF	2014 MAMJJASON	2015 DJFMAMJJASONI	2016 DJFMAMJJASO	NE
GENERA	L		<del>                                     </del>	1 1 1 1 1 1 1		<del>','',''                               </del>		1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	111111
S110	PRECONSTRUCTION WORKS	592			PRECONS	TRUCTION WO	PRKS			1
EXISTING	BUILDINGS		1 1 1 1 1	1 1 1 1 1 1 1						Ī
160010	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)	198		BLOCK	16 WORKSHOP & LAU		TION WORKS)			1
180010	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)	149			/1¦4¦ANNEX/BLDG					i I
080010	BLOCK 08 ABLUTIONS BLOCK	731					BLOCK 08 ABL	UTIONS BLOCK		1
170005	BLOCK 17 F HALL	593					⊒BLOCK 17¦F HALI			i I
010005	BLOCK 01 POLICE HEADQUARTERS BLOCK	626					BLOCK 01 P	OLICE HEADQUARTERS	BLOCK	1
140005	BLOCK 14 D HALL	645	1 1 1 1 1	1 1 1 1 1 1 1			BĽOCK 1	4 D'HAĻL		1
120010	BLOCK 12 B HALL	341				вьоск 1	2 B HALL			1
110010	BLOCK 11 A HALL	311				BLOCK 11				i
100010	BLOCK 10 SUPERINTENDENT'S HOUSE	517					BLOCK 10 S	UPERINTENDENT'S HOU	JSE	1
130010	BLOCK 13 C HALL	517					BLOCK 13 C			i
060005	BLOCK 06 MARRIED SERGEANTS' QUARTERS	223					MARRIED SERGE			1
070005	BLOCK 07 SINGLE INSPECTORS' QUARTERS	225					7 SINGLE INSPEC			i
030005	BLOCK 03 BARRACK BLOCK	440					BLOCK 03 B	ARRACK BLOCK		1
020005	BLOCK 02 ARMOURY	425					BLOCK 02 A	RMOURY		İ
090005	BLOCK 09 CENTRAL MAGISTRACY	425					BLOCK 09 C	ENTRAL MAGISTRACY		1
150010	BLOCK 15 E HALL	304	1 1 1 1 1	1 1 1 1 1 1 1			BLOCK 15 E HAL	L		1
040005	BLOCK 04 MARRIED INSPECTORS' QUARTERS	349					BĻOCĶ ¢	4 MARRIED INSPECTOR	S QUARTERS	1
190005	BLOCK 19 BAUHINIA HOUSE	277					BLOCK 1	9 BAUHINIA HOUSE		i
050002	BLOCK 05 (DEMOLITION WORKS)	119					□BLO¢K 05 (DEMO	LITION WORKS)		1
OTHER W	VORKS		1 1 1 1	1 1 1 1 1 1 1						1
253110	REVETMENT WALL / U/G UTILITIES / ROAD WORKS	679	1 1 1 1 1				ļ.	REVETMENT WALL / U/G	UTILITIES / ROAD WO	RKS
NEW BUI	LDINGS									1
S200	OBW OLD BAILEY WING	1,097						OBW OLD BAILE	Y WING	1
S300	AW ARBUTHNOT WING	1,056						AW ARBUTHNOT	WING	1
	NT PLANTROOM AND SERVICES TRENCH									1
202005	BASEMENT PLANTROOM / SERVICES TRENCH	588		1 1 1 1 1 1 1 1			BASEMENT P	LANTROOM!/SERVICES	TRENCH	1
	DTBRIDGE									1
2300125	PROPOSED FOOTBRIDGE	699			PROPOSEDIF	OOTBRIDGE				



CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION
(MANAGEMENT CONTRACT)
CONSTRUCTION PROGRAMME
SUMMARY PROGRAMME

1	GCL / P / J3416 /SUM/CP01								
	Date	Revision	Checked	Approved					
	13NOV12	for EPD							
	04MAR13	revised							

Annex J

Tree Inspection Reports



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

RECEIVED

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 - 3 JUN 2013

Tel. 2516 8823

Fax.2516 6260

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

1<sup>st</sup> June 2013

Our Ref.: YW/TP/GAMMON/2013/5/3

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

Hong Kong

Attn: Mr. Cliff C.H. LEUNG, Mr. Ariel LUI

Dear Sirs,

## **Summary of Monthly Inspection Report for the Six Existing Trees** at Central Police Station Compound for May 2013

( Contract Ref. : J3416/400.4/D00025 )

Tree	Botanical	Date of	Overall Health Condition	~
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica	14 <sup>th</sup> May 2013	Good	1.To pay utmost attention to the
	芒果			land pollution at the worker
				store-room at all times.
Tree-6	Aleurites moluccana	14 <sup>th</sup> May 2013	Fair	N.F.A.
	石栗			
Tree-7	Aleurites moluccana	14 <sup>th</sup> May 2013	Fair	N.F.A.
	石栗			
Tree-8	Plumeria rubra	14 <sup>th</sup> May 2013	Fair	N.F.A.
	紅雞蛋花			
Tree-9	Araucaria cunninghamia	14 <sup>th</sup> May 2013	Fair	1. Monitoring on sap flow will
	花旗杉			continue next month.
Tree-11	Dracaena marginata	14 <sup>th</sup> May 2013	Fair	1. To keep the overgrown
	馬尾鐵			branches at reasonable
				distance from the building.



### 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.1027) 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 ) Contract Manager



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

#### General Information 基本資料

File Ref. 檔案編號: Y	ammon Construct W/TP/GAMMON/20		Name of Tree Insp Name of Endorsen		查人員姓名:	LAU Man Chung WONG Pak Hay		
Date of Inspection 巡查日	期: May 14, 201			Tone Officer 1921	八貝灶石.	WONG Pak Hay		
Project/Contract No.合約/		3416/400.4/D00025	5					
Location Information (i)								
	Police Station Comp		Nearby Utility I	Post No. 就近公	用設施編號:			
Location Types 地點類別: Address:	Roadsid		Community Hall / Centre 社區會堂 / 中心			<b>區會堂 / 中心</b>		
(multiple answers allowed)		space 空地			Planter 路旁花圃			
可選多於一項)		ion Centre 展覽中心		Rain shelter	/ pavilion 避雨亭	/ 涼亭		
	1 .	oint 觀景台		Sitting out a	rea 休憩處			
		g/nature trail 行山徑						
		(please specify)其他 (	(請說明):			_		
<b>General Tree Informatio</b>	n 基本樹木資料			* Delete sc	annrowriate 😹	把不合適的刪除		
Main tree species in the group	Approx. number	Range of tree	Overall health	Overall	Other remark	rs (Any special tree		
or minority tree species of	of trees in the	height (m)	condition	structural	condition, e.g	dving/dead		
significant size 在群組內的主要樹種或樹幹	relevant species or as a % of tree	該樹種高度範圍		condition	pest/disease p	roblem and structural		
胸徑或高度或樹冠範圍較大	group		(good, fair,	整體結構狀況	defects; and s	oil condition		
的樹種	該樹種在群組內	1	poor 好,良,差)	(good, fair, poor 好,良。	其他評語	Lary a NEEDANGERE E EAST (		
(Note 2)	的百份比/數目*	1	N K Æ)	差)	(倒小水水)	如:凋謝/枯樹/病蟲害 ;及泥土狀况 <b>)</b>		
		-						
Mangifera indica 芒果 Aleurites moluccana	17%, 1 No.	16M	GOOD	GOOD	To pay utmos pollution at the	t attention to the land e worker store-room		
石栗 Plumeria rubra	32% 2 Nos.	10-13M	FAIR	FAIR	N.F.A.			
紅雞蛋花 Araucaria	17% 1 No.	7M	FAIR	FAIR	N.F.A.			
cunninghamia 花旗杉	17% 1 No.	13M	FAIR	FAIR	will continu	on the sap flow e next month.		
Dracaena marginata 馬尾鐵	17% 1 No.	8M	FAIR	FAIR	To keep the overgrown branches at a reasonable			
marginata 馬尾鐵		J.V.	PAIR	PAIR	distance fro	a reasonable om the building.		
Target 目標					distance in	an the ballang.		
TARGET (people or property	potentially affected in	tree/branch failur	o) 日梅 (田樹木)間	<b>动开放脚刀工</b> 双型	ANKAS I HARILIAN			
Does target exist? 目標是否	字在? x Yes 是	No 否	9 日本( <i>四四八四湖</i>	<b>%(X)休暇  农川  文影</b>	醫时人			
Can target be moved?能否移								
Can the use of site be restrict			- F T T -					
Frequency of use of location	信用 並 地里 地 地 電 密 和	的使用? x Yes	s是 No 否					
Occasional use 偶爾使用	Intermittent us	A 問助信用「V	Evaguant was ATT NG by					
dentification of Town C	The transfer us	C 同級使用 [X]	rrequent use 經常使	用 Constan	t use 恆常使用			
dentification of Trees for	Remedial Action	or Detailed T	ree Risk Assessme	ent				
裁別下述樹木,以便採取風險緩	減措施或進行詳細權	才人風險評估						
Trees falling under the follo				Number of trees	Remedial action	or detailed tree risk assessment		
樹木屬於以下任何一項或多於	一項類別			樹木數量	1	行詳細樹木風險評估		
(1) Trees on comple	aint list with structu	ral or health prob	leme	NIE				
投訴個案中,結	構或健康問題的樹木	(Note 1)	icins	NII				
			d structure and hav	. NITE				
unsatisfactory he	ealth or structural co	onditions with fai	u structure and nav	ing NII	1			
屬木質脆弱品種並	並已達成熟期及有倒	場風險的樹木 (Na	ote 1)		1			
	defects or health pr			NII				
	表問題的樹木 (Note			NH		4		
	very stressful site		ailura notantial	MITTE				
生長於非常擠壓班	環境而有倒塌風險的	樹木(Note 1)	and botchilai	NII				
ttached Information 附夾資料	The state of the s	- ( . (						
☐ Site plan 場地平面圖	X Photo recor	d 相片紀錄	Others # 44 /ala	ase specify 請說明	1. 18			
Signature of Tree Inspection Office		1	1 DA	mo specyy 胡成明	. Monthly Li	aspection Reports		
ignature of Endorsement Officer	-	retu	7/7			TOTAL PORTOR		
Jame of Contractor	Yan Wi	ng (HK) Enviro	nment Manageme	nt Ltd.				
Pate:	1-6-201	3				ONTA NTI *		
e 1: If remedial action (such as pour		<u> </u>						

Not not mitigate the potential risk of tree or branch failure, detailed tree risk assessment (using Form 2) should be carried out. 備註 1:

若風險緩減措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險,應為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.)

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) 備註 2:

#### **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	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

- 1. Overall health condition of the tree is good.
- 2. Cleanliness of the planter is acceptable.
- 3. The site outside the cordon zone appears clean and tidy.
- 4. Construction works are in progress outside the cordon zone.
- 5. Part of cordon zone has been altered to a worker store-room.

#### IV. RECOMMENDATIONS:

1. To pay utmost attention to the land pollution at the worker store-room at all times.

Fig 1. Tree number

Tree - 5

Mangifera indica

Maintained by:

Tel. 9776 1987

2013, 05, 14

Fig 2. Cleanliness of the planter is acceptable.



Fig. 3 The site appears clean and tidy.

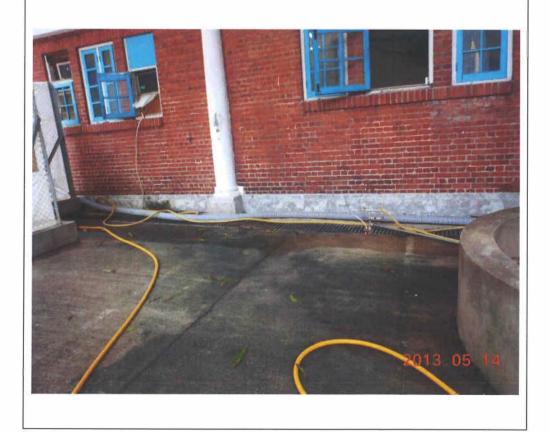


Fig. 4 Lower branches keep a reasonable distance from the building.



Fig. 5 Part of cordon zone has been altered to a worker store-room.

Utmost attention to land pollution e.g. pouring of chemical liquid etc. should be paid at all times.

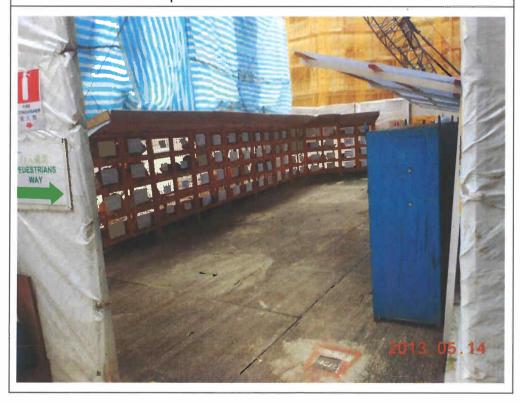


Fig. 6 Construction works are in progress outside the cordon zone.



Fig. 7 The site outside the cordon zone keeps clean and tidy.



Fig. 8 Overall view of Tree-5 during inspection on 14<sup>th</sup> May 2013.



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.

30<sup>th</sup> May 2013.



(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	Fair
		Good/Fair/Poor	
Date of Inspection	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

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

#### **IV. RECOMMENDATIONS:**

1. No further action is required.



Fig 2. The planter keeps clean and tidy.



Fig. 3 Cleanliness of the site is acceptable.



Fig. 4 Construction works are in progress outside the cordon zone.



Fig. 5 The site outside the cordon zone is clean and tidy.





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.



( 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	Fair
		Good/Fair/Poor	
Date of Inspection	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. Cleanliness of the site is acceptable.
- 4. Appropriate notices display in front of the cordon zone.
- 5. Construction works are in progress outside the cordon zone.

#### **IV. RECOMMENDATIONS:**

1. No further action is required.



Fig 2. Cleanliness of the planter is acceptable.



Fig. 3 Cleanliness of the site is acceptable.



Fig. 4 A pipe leads water to tree top for irrigation.

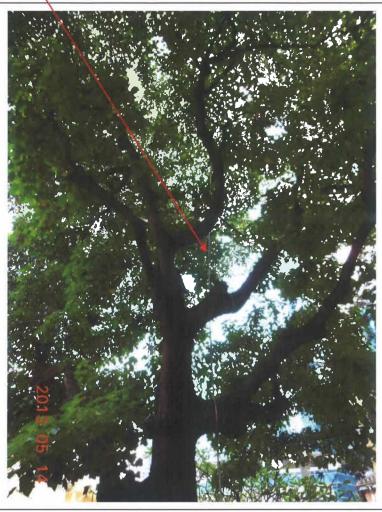


Fig. 5 Construction works are in progress outside the cordon zone. Tree-7



Fig. 6 Appropriate notices display in front of the cordon zone.



Fig. 7 The site outside the cordon zone is clean and tidy.





Signature of Inspection Officer: (Mr. Lau Man-chung, ISA CA–HK0045A) Signature of Endorsement Officer: (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.



( 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	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. The site inside the cordon zone is clean and tidy.
- 4. Many young and green leaves appear on the tree.
- 5. The site outside the cordon zone is clean and tidy.

#### **IV. RECOMMENDATIONS:**

1. No further action is required.

Tree 8

Fig 2. The planter is clean and tidy.



Fig. 3 The site inside the cordon zone is clean and tidy.



Fig. 4 Many young and green leaves appear on the tree.

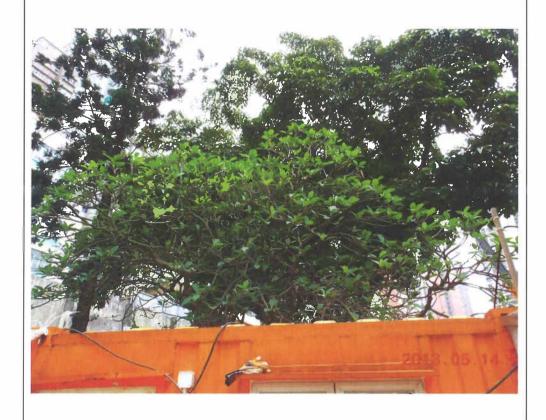
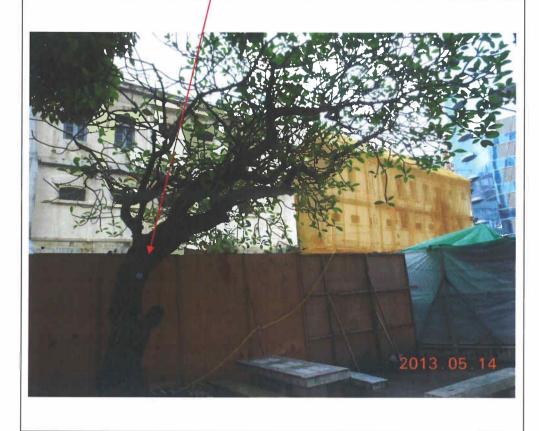


Fig. 5 The site outside the cordon zone is clean and tidy.



Fig. 6 Overall view of Tree-8 during inspection on 14<sup>th</sup> May 2013.



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	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site inside the cordon zone is acceptable.
- 4. Light sap flow appears on the mid trunk again at the time of inspection.
- 5. Many vigorous branches are growing up on the tree.

#### IV. RECOMMENDATIONS:

1. Monitoring on the sap flow will continue next month.



Fig 2. The planter is clean and tidy.



Fig. 3 The site is clean and tidy.

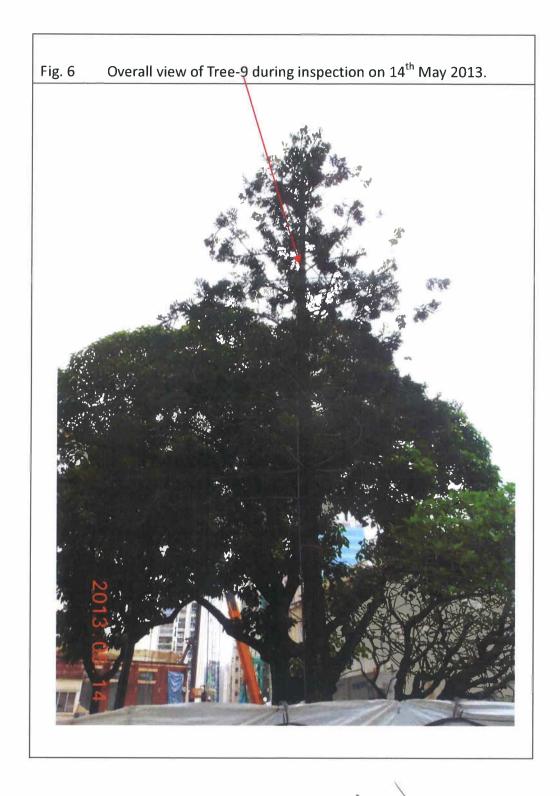


Fig. 4 Light sap flow appears on the mid trunk again at the time of inspection, monitoring will continue next month.



Fig. 5 Many vigorous branches are growing up on the tree.





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.



( 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
	1	Good/Fair/Poor	
Date of Inspection	14 <sup>th</sup> May 2013	Last Inspection Date	30 <sup>th</sup> April 2013

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. The door of the nearby building has been closed by a wooden plank.
- 4. Some overgrown branches are too close to the nearby building.
- 5. The site outside the cordon zone is clean and tidy.

#### IV. RECOMMENDATIONS:

1. To keep the overgrown branches at a reasonable distance from the building.



Fig. 2 Cleanliness of the planter is acceptable.



Fig. 3 Cleanliness of the site is acceptable.



Fig. 4 The door of the building has been closed by a wooden plank.

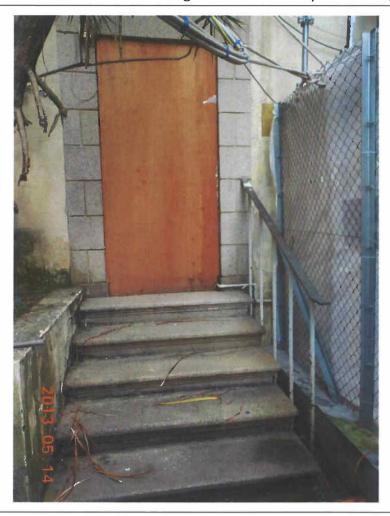


Fig. 5 Some overgrown branches of Tree-11 are too close to the nearby building.

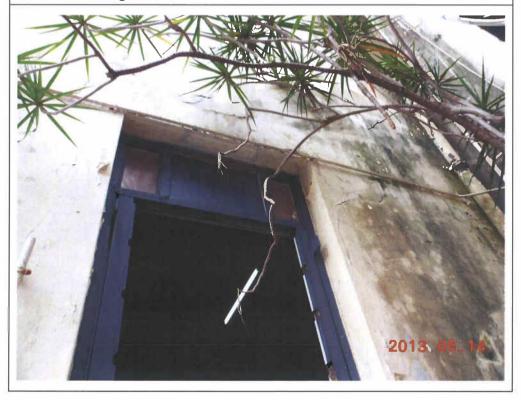


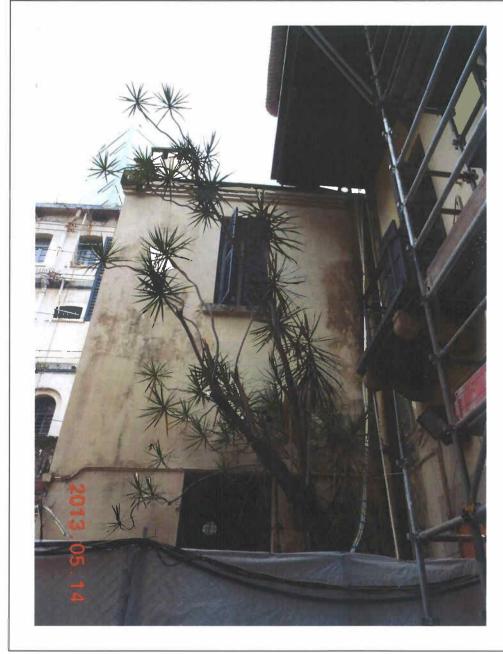
Fig. 6 Appropriate notice displays in front of the cordon zone.



Fig. 7 The site outside the cordon zone is clean and tidy.



Fig. 8 Overall view of Tree-11 during inspection on 14<sup>th</sup> May 2013.



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 Summons 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
June 2012	2	0
July 2012	1	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	2	0
December 2012	0	0
January 2013	0	0
February 2013	1	0
March 2013	1	0
April 2013	0	0
May 2013	0	0
Overall Total	11	0

#### Annex L

Records of Vibration Monitoring for Trial Piling and Pipe/Bored Piling works





Monitoring Chaols Dts	Trigger Levels				
Monitoring Check Pts.	Alert level	Alarm level	Agricer level		
Vibration Monitoring	2mm/s 2.5mm/		3mm/s		
# Vibration at largest span of	5 Ola	6.0mm/s	7.5mm/a		
highest Structural level	5.0mm/s	0.011111/8	7.5mm/s		

Project Title: Centr	al Police Sta	tion Conserva	tion & Revit	talization	Project No: WP107	19-Apr-2013	to	2-May-2013
(WP10	7 Parade Gr	ound Basemer	nt)					
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2			
DATE	mm/s	mm/s	mm/s	mm/s	mm/s			
19-Jun-2012 (Initial)								
19-Apr-13	0.166	0.761	0.145	1.650	0.281			
20-Apr-13	1.430	0.160	0.164	0.178	0.157			
21-Apr-13					Sunday			
22-Apr-13	0.241	0.255	0.093	0.128	0.114			
23-Apr-13	0.246	0.327	0.102	0.318	0.177			
24-Apr-13	0.307	0.251	0.103	0.093	0.151			
25-Apr-13	0.150	0.258	0.137	0.305	0.143			
26-Apr-13	0.184	0.317	0.129	0.962	0.159			
27-Apr-13	0.183	0.232	0.093	0.414	0.132			
28-Apr-13					Sunday			
29-Apr-13	1.310	0.420	0.160	0.211	0.172			
30-Apr-13	0.264	0.112	0.172	0.565	0.156			
01-May-13					Holiday			
02-May-13	0.160	0.206	0.600	1.460	0.145			
Remarks: # Vbration at	largest span of	highest structura	al level					

Prepared by: Wong Wing Yee

Endorsed by: Yee Hop



Monitoring Check Pts.	Trigger Levels				
Monitoring Check Fts.	Alert level	Alarm level	Action level		
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s		

Project Title: Centr	al Police Sta	tion Conserva	ation & Revi	talization	Project No: WP107	3-May-2013	to	16-May-2013
(WP10	7 Parade Gr	ound Baseme	nt)					
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2			
DATE	mm/s	mm/s	mm/s	mm/s	mm/s			
19-Jun-2012 (Initial)							1700 1000 1000 1	
03-May-13	0.609	0.103	0.117	0.227	0.128			
04-May-13	0.131	0.246	0.121	0.124	0.145			
05-May-13					Sunday			
06-May-13	0.268	0.200	0.181	0.192	0.221			
07-May-13	0.128	0.156	0.093	0.507	0.326			
08-May-13	0.187	0.212	0.318	0.196	0.216			
09-May-13	1.210	0.295	0.102	0.086	0.304			
10-May-13	0.236	0.246	0.117	1.500	0.393			
11-May-13	0.133	0.300	0.169	0.288	0.160			
12-May-13					Sunday			
13-May-13	0.256	1.450	0.090	0.507	0.302			
14-May-13	0.241	1.160	0.182	1.090	0.218			
15-May-13	0.189	0.817	0.102	0.256	0.333			
16-May-13	0.209	0.247	0.145	0.597	0.239			
Remarks: # Vbration at	largest span of	highest structur	al level					

Prepared by: Wong Wing Yee

Endorsed by: Yee Hop



Manitarina Chash Dta	Trigger Levels				
Monitoring Check Pts.	Alert level	Alert level Alarm level Ac			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
# Vibration at largest span of	<b>5.0</b> mm/s	<b>6.0</b> mm/s	7.5mm/s		
highest Structural level	5.0mm/s	0.0111111/8			

Project Title: Central Police Station Conservation & Revitalization					Project No:	WP107	17-May-2013	to	30-May-2013
(WP10	7 Parade Gr	ound Baseme	nt)						
POINT	V <b>M</b> 1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
17-May-13					Holiday				
18-May-13	0.202	0.571	0.090	0.145	1.330				
19-May-13					Sunday				
20-May-13	0.133	0.454	0.083	0.117	1.070				
21-May-13	0.529	0.372	0.316	0.386	0.274				
22-May-13	0.087	0.097	0.132	0.151	1.110				
23-May-13	0.178	0.373	0.212	0.512	0.350				
24-May-13	0.165	0.293	0.086	0.556	0.329				
25-May-13	0.371	0.447	0.175	0.563	0.138				
26-May-13					Sunday				
27-May-13	0.227	0.197	0.135	1.300	0.454				
28-May-13	0.618	0.171	0.106	0.302	0.387				
29-May-13	0.113	0.211	0.137	0.188	0.170				
30-May-13	0.163	1.400	0.098	0.105	0.239				
Remarks: # Vbration at	largest span of	highest structura	ıl level						

Prepared by: Wong Wing Yee Endorsed by: Yee Hop



Manitarina Chash Dta	Trigger Levels				
Monitoring Check Pts.	Alert level	Alert level Alarm level Ac			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
# Vibration at largest span of	<b>5.0</b> mm/s	<b>6.0</b> mm/s	7.5mm/s		
highest Structural level	5.0mm/s	0.0111111/8			

Project Title:	Central Police	Station Conserv	ation & Revi	talization	Project No: WP:	107 3	1-May-2013	to	13-Jun-2013	
		Ground Baseme		<b>WITEWITOTI</b>	110,0001101 1111	10,	1 1:10 <b>2</b> 010		10 0011 2010	
POINT	VM1-1		VM2-1	VM3-1	#VM3-2					
DATE	mm/s	mm/s	mm/s	mm/s	mm/s					
19-Jun-2012 (I	nitial)									
31-May-13	0.175	0.218	0.087	0.704	0.851					
1-Jun-13	0.139	0.207	0.209	0.135	1.120					
2-Jun-13	Sunday									
3-Jun-13	0.151	0.341	0.087	0.764	0.284					
4-Jun-13	0.147	0.448	0.086	0.178	0.553					
5-Jun-13	0.102	0.093	0.091	1.190	0.111					
6-Jun-13	0.720	0.434	0.106	0.599	0.286					
7-Jun-13	0.291	0.458	0.087	0.484	0.631					
8-Jun-13	0.187	0.323	0.091	0.087	0.278					
9-Jun-13					Sunday					
10-Jun-13										
11-Jun-13										
12-Jun-13										
13-Jun-13										
Remarks: # Vbr	ation at largest spar	n of highest structur	al level							

Prepared by: Wong Wing Yee Endorsed by: Yee Hop

Bored Pile Walls / Pipe Pile Walls at Block 50 WYNDHAM & B.D. Ref. No. 原宇書標案編成 3/3053/11 (日に 17 & 5 b) (Hは)(5) STREET 11SW-B/R18 No.编集 Des No. 編集 Description 說明 Date 日期 Approved 宴
- BD SUBMISSION 12/11 JS 11SW-B/R22 A DA TONHTUBAA Shiu King The Centrium Court 11SW-B/R805 11SW-B/R806 11SW-B/R23 11SW-B/R52 Plan Approved RS53-17 RT53-17 NG Kin<sup>1</sup>shing Chief Structural Engineer for BUILDING AUTHORITY 11SW-B/R24 BS14-13/2 PMH-4 20 FEB 2012 RS19-7 BS3-7 -11SW-B/R53 -11SW-B/R176 →IN1-3 BS3-5/ BT3-3 **★**VM13-1/ 11SW-B/R19 BS3-8/ BT3-4 11SW-B/R174 BS14-7 11SW-B/R175 BD SUBMISSION Drawing Status 製圖狀況 36.73 LEGEND 8339<del>0</del>0 E Do not take measurements 切勿直接從圖紙上量度尺寸 Check and verify all dimensions or site 所有尺寸必須在工地現場複查及署核。 EXISTING FRESH WATER MAIN and all other related drawings. 此圈抵必须與双格以明書及其它有關國紙一併閱讀。 EXISTING SALT WATER MAIN EXISTING STREET LIGHTING NO. 33488-A1 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 署馬會文物保育有限公司 1SW-B/R55-30 RS177-2 BS17-BT17-EXISTING LV ELECTRICITY CABLE HERZOG & DE MEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN ROCCO 许字严 ADH3(S/P) DH19(BS17-11/ PROPOSED FOUL SEWER E & M Engineer JRP SITE BOUNDARY ARUP 11SW-B/R54 EXISTING RETAINING WALL ryoped দুল CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT → DH1 (S,P) UT: EXISTING DRILLHOLF WITH STANDPIPE/PIEZOMETER Drawing Title III & UT2 RS178−1/ ⊠ RS178−1/ BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER MONITORING LAYOUT PLAN OEC 23 P 2:09 PROPOSED RETAINING WALL SETLEMENT POINTS/TILTMETER RS174-1/RT174-1 PERMIT IS CRITAINED AS ALTERNATIVE PERMIT IS CRITAINED AS ALTERNATIVE 1 **→**IN1-1 PERSONNES OBTAINED AS ALTERNATIVE SETTLEMENT FORMY (SELECTION OF SELECTION OF STATE OF SETTLEMENT AS AS AS OF SETTLEMENT AS AS AS OF SETTLEMENT HARRES SETTLEMENT HARRES SUIT TO 19 THE LOCAL AS SETTLEMENT HARRES SUIT TO 19 THE LOCAL ASSOCIATION OF SETTLEMENT SETTLEMENT SUIT TO 19 THE SETTLEMENT PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR PIPE PILE WALL K.C.Lai 1:300@A1 Ø<sup>GS1</sup> Drawing No. 国状 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS 2011 UT1 Loon PROPOSED UTILITY MONITORING POINTS SETTINES WITH THE STETT LEMENT ATTENTY OF CUT BALLEY WING TO THE CONTROL OF CONTROL OF CONTROL OF CUT BALLEY WING TELS WEEKS **→**VM1−1 9817 PROPOSED VIBRATION MONITORING POINTS ACH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

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

#### (Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Check Pts.	Trigger Levels					
Wollitoring Check Fts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
Vibration at largest span of	50 /	(0)	7.5 /			
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

### Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	n	Project No: W	/P201	21-Apr-2013	to	4-May-2013
						T	1			
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (	Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
21-Apr-2013	Sunday									
22-Apr-2013		0.26	0.35	0.13	0.51	0.11	0.42	0.21	0.32	0.15
23-Apr-2013		0.31	0.13	0.55	0.16	0.64	0.25	0.81	0.45	0.16
24-Apr-2013		0.23	0.21	0.15	0.61	0.25	0.45	0.28	0.81	0.13
25-Apr-2013		0.36	0.13	0.09	0.51	0.24	0.25	0.13	0.18	0.44
26-Apr-2013		0.61	0.13	0.25	0.24	0.88	0.45	0.65	0.13	0.47
27-Apr-2013		0.25	0.24	0.54	0.85	0.13	0.25	0.45	0.47	0.16
28-Apr-2013						Sunday				
29-Apr-2013		0.66	0.58	0.49	0.82	0.13	0.11	0.54	0.16	0.47
30-Apr-2013		0.23	0.12	0.15	0.54	0.45	0.61	0.15	0.33	0.54
1-May-2013					P	ublic Holiday				
2-May-2013		0.55	0.13	0.13	0.24	0.64	0.25	0.74	0.15	0.66
3-May-2013		0.36	0.13	0.33	0.14	0.52	0.28	0.61	0.45	0.22
4-May-2013		0.25	0.15	0.36	0.21	0.22	0.38	0.48	0.55	0.13
Remark										

## WW 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

#### (Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Check Pts.	Trigger Levels				
Monitoring Check Fts.	Alert level	Alarm level	Action level		
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
Vibration at largest span of	50 /	60. /	7.5mm/s		
highest Structural level	5.0mm/s	6.0mm/s			

### Vibration Record

Project Title:	Central P	olice Station	Conservation &	& Revitalization	on	Project No: W	P201	5-May-2013	to	18-May-201
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (	Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
5-May-2013						Sunday				
6-May-2013		0.31	0.25	0.45	0.13	0.15	0.36	0.25	0.84	0.15
7-May-2013		0.13	0.26	0.51	0.66	0.34	0.29	0.15	0.88	0.54
8-May-2013		0.32	0.25	0.42	0.13	0.12	0.61	0.28	0.47	0.22
9-May-2013		0.25	0.16	0.24	0.55	0.62	0.18	0.46	0.58	0.64
10-May-2013		0.33	0.25	0.46	0.19	0.85	0.16	0.13	0.24	0.55
11-May-2013		0.56	0.52	0.25	0.56	0.47	0.26	0.15	0.13	0.11
12-May-2013						Sunday				
13-May-2013		0.23	0.16	0.25	0.44	0.58	0.31	0.59	0.81	0.13
14-May-2013		0.66	0.15	0.24	0.88	0.45	0.69	0.26	0.53	0.21
15-May-2013		0.26	0.19	0.55	0.14	0.64	0.25	0.58	0.36	0.13
16-May-2013		0.61	0.15	0.42	0.23	0.29	0.58	0.44	0.11	0.19
17-May-2013					P	ublic Holiday				
18-May-2013		0.34	0.16	0.26	0.67	0.63	0.45	0.28	0.25	0.35
Remark										

## WW 恆誠建築工程有限公司

### Win Win Way Construction Company Ltd.

### ( Bored Pile Walls / Pipe Pile Walls at Block 50 )

Monitoring Check Pts.		Trigger Levels					
Widintoring Check Fis.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
Vibration at largest span of	5.0mm/s	6.0mm/s	7.5				
highest Structural level	J.omin/s	o.omm/s	7.5mm/s				

### Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	on	Project No: W	/P201	19-May-2013	to	1-Jun-2013	
						r					
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3	
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
19-Jun-2012 (	Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37	
Surveying Date											
19-May-2013	Sunday										
20-May-2013		0.23	0.13	0.55	0.19	0.56	0.34	0.55	0.11	0.27	
21-May-2013		0.61	0.25	0.33	0.18	0.46	0.95	0.14	0.11	0.57	
22-May-2013		0.35	0.13	0.55	0.14	0.19	0.62	0.13	0.11	0.28	
23-May-2013		0.36	0.22	0.29	0.11	0.54	0.85	0.46	0.26	0.13	
24-May-2013		0.23	0.28	0.45	0.41	0.11	0.86	0.28	0.13	0.27	
25-May-2013		0.56	0.55	0.11	0.42	0.64	0.71	0.25	0.33	0.11	
26-May-2013						Sunday					
27-May-2013		0.61	0.23	0.15	0.11	0.25	0.45	0.16	0.88	0.45	
28-May-2013		0.25	0.56	0.74	0.13	0.12	0.46	0.33	0.41	0.58	
29-May-2013		0.13	0.29	0.99	0.45	0.26	0.35	0.33	0.11	0.45	
30-May-2013		0.62	0.15	0.18	0.31	0.22	0.51	0.42	0.11	0.25	
31-May-2013		0.52	0.11	0.26	0.22	0.42	0.33	0.13	0.33	0.26	
1-Jun-2013		0.23	0.15	0.42	0.17	0.53	0.16	0.62	0.25	0.63	
Remark											

Shaft Granted Pre-boved H-piles at Block 51 (Arbithnot Wing) WYNDHAM & STREET 11SW-B/R18 11SW-B/R22 BO SUBMISSION (50) 12/1
BO SUBMISSION (01) 03/1:
BO SUBMISSION (01) 03/1:
BO SUBMISSION (17) 03/1:
BO SUBMISSION RV BATCH 1 03/1:
FOR INFROMATION (50) 03/1: 11SW-B/R17-Shiu King The Centrium Court 11SW-B/R23-115W-B/R52 Chief Streetural Engineer for BUILDING AUTRORITY -11SW-B/R24 W BS13-4 13 JUL 2012 - 11SW-B/R53 -11SW-8/R176 ₩13-1/ 11SW-B/R19-B\$1-14 853-8/ 813-4 11SW-B/R174-MONITORING ZONE A 11SW-B/R175-BD SUBMISSION Drawing Status 製腦狀況 Do not take measure/cents o 切的直接位额统上偏径尺寸。 Chock and verify 20 corrections on th 所有尺寸必須在工地批學資金以棄紙 Read this displayed on computation was used at other related displaying.

企業就分享其他近郊者及其它有新疆以一切阅读。 EXISTING SALT WATER MAIN EXISTING STREET LICHTING NO. 33488-AT 11SW-8/R19 11SW-B/R177-EXISTING STREET LIGHTING CABLE 要馬會支票部分有限公司 EXISTING TELECOMMUNICATION DUCT **最終終於國際首都於2016年11月2日** 17月2日 EXISTING FOUL SEWER ROCCO DH19(BS17-11) JRP ARUP EXISTING RETAINING WALL Project WE CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT 11SW-B/R54 Drawing Tale M.E.
MONITORING LAYOUT PLAN BS1-1/BI1-1 PROPOSED BUILDING SETTLEMENT POINTS/TICTMETER RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER 1:3008A1 K.C.L.cs AL Frankrig No. 36th C.C.L.cs AL Frankrig No. 36 PROPOSED GROUND SETTLEMENT POINTS ₩ W PROPOSED UTILITY MONITORING POINTS 2,4 **₩**1-1 PROPOSED VIBRATION MONITORING POINTS CHAPTER ERAC YORY PROPOSED ADDITIONAL ORILLHOLE Motore Participal county Within

### ( Shaft Grouted Pre-bored H-piles at Block 51 )

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

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

### Vibration Record

Project Title:	Central 1	Police Station	Conservation	& Revitalization	Proje	ct No: WP201	28-Apr-2013	to	11-May-2013
POINT		VM14-4	VM15-2	VM51-1					
DATE	PD/(m)	mm/s	mm/s	mm/s					
03-Dec-2012	(Initial)	0.14	0.21	0.3					
28-Apr-2013			- 10000			Sunday			
29-Apr-2013		0.13	0.16	0.27					
30-Apr-2013		0.25	0.45	0.55					
1-May-2013					Pi	ublic Holiday			
2-May-2013		0.15	0.55	0.24					4.5
3-May-2013		0.13	0.46	0.33					
4-May-2013		0.13	0.18	0.22					
5-May-2013						Sunday			
6-May-2013		0.52	0.25	0.11	N. T. W. C.				
7-May-2013		0.13	0.51	0.44					
8-May-2013		0.11	0.41	0.26					
9-May-2013		0.56	0.51	0.66					
10-May-2013		0.66	0.42	0.13					
11-May-2013		0.16	0.11	0.19					
Remarks									

## ₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

#### ( Shaft Grouted Pre-bored H-piles at Block 51 )

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

### Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalization	Project No: WP201	12-May-2013	to	25-May-2013
POINT		VM14-4	VM15-2	VM51-1			)	
DATE	PD/(m)	mm/s	mm/s	mm/s				
03-Dec-2012 (	(Initial)	0.14	0.21	0.3				
12-May-2013					Sunday			
13-May-2013		0.19	0.24	0.27				
14-May-2013		0.28	0.52	0.49				
15-May-2013		0.29	0.55	0.41				
16-May-2013		0.29	0.46	0.71				
17-May-2013					Public Holiday			
18-May-2013		0.19	0.37	0.24				
19-May-2013					Sunday			
20-May-2013		0.29	0.61	0.18				
21-May-2013		0.54	0.28	0.13				***
22-May-2013		0.13	0.28	0.64				
23-May-2013		0.11	0.55	0.28				
24-May-2013		0.26	0.61	0.77				
25-May-2013		0.15	0.54	0.19				
Remarks								

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## ₩₩ 恆誠建築工程有限公司

### Win Win Way Construction Company Ltd.

### (Shaft Grouted Pre-bored H-piles at Block 51)

Monitoring Check Pts.	Trigger Levels					
Womtoring Check 1 ts.	Alert level	Alarm level	Action level			
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s			

### Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalizatio	n Project No: WP201	26-May-2013	to	8-Jun-2013		
POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012 (	(Initial)	0.14	0.21	0.3						
26-May-2013	26-May-2013 Sunday									
27-May-2013		0.15	0.11	0.51						
28-May-2013		0.16	0.24	0.55						
29-May-2013		0.52	0.14	0.28						
30-May-2013		0.13	0.52	0.41						
31-May-2013		0.19	0.42	0.22						
1-Jun-2013		0.52	0.64	0.55						
2-Jun-2013					Sunday					
3-Jun-2013		0.55	0.11	0.26						
4-Jun-2013		0.26	0.69	0.22						
5-Jun-2013		0.11	0.48	0.42						
6-Jun-2013		0.18	0.11	0.13						
7-Jun-2013		0.13	0.55	0.61						
8-Jun-2013		0.15	0.25	0.54						
Remarks										

Mini-piles with post-pressurized grout in CDG and Steel Shear H-piles at Block 1, STREET 11SW-B/R18 11SW-B/R17-Shill King The Centrium CONT 11SW-B/R806 11SW-B/R23-11SW-B/R52 NG Kun-shing Chief Stractoral Engineer for BUILIPHG AUTHORITY 11SW-B/R24 W 1 9 MAR 2012 11SW-B/R53 11SW-B/R19-11SW-B/R174 11SW-B/R175-BD SUBMISSION wing Status 罗斯状识 LEGEND · 的文字是是是是一个一个一个一个 Chara and valify of altremones on sa 有有尺寸必能加工地指揮者非為資訊 STREET LIGHTING NO. 33488-A1 853-2/ 11SW-B/R19-11SW-B/R177 11SW-B/R55 EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HIJTCHISON OF OBAL COMMUNICATIONS LAMITED) EXISTING STORMWATER DRAIN ROCCO 许学 EXISTING FOUL SEWER R. JRP ARUP Projec 項註 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH 11SW-B/R54 STANDPIPE/PIEZOMETER Drawing Tale 整体 MONITORING LAYOUT PLAN 11SW-B/R178 8 PROPOSED BUILDING SETTLEMENT POINTS/BLTMEYER RS174-1/RT174-PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300**0**A1 K.C.(a) MOIES

JULIES SETLEMENT POINTS (UTI TO UT6)
SHALL ONLY BE INSTALLED AFTER EXCONATION
PERMIT IS OBTAINED. AS ALTERNATIVE.
SETTLEMENT POINTS (ISS AND ISSI) MAY BE
INSTALLED.
SHOULD UTI TO UTI6 BE RESTALLED, ISSIB AND
ISSID SHALL NOT BE REQUIRED.
JETHER UTILITIES SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (USI TO
COMMENCEMENT OF OLD BALLEY WHICE ELS
WORKS. 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VIBRATION MONITORING POINTS MONITORING ZONE A PROPOSED ADDITIONAL DESELHOLE

## ₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(	Block 17 Foundation Works	)
	Fro 1	-

Monitoring Check Pts.		Trigger Levels				
Womtoring Check Fts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
Vibration at largest span of	50 /	(0)				
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

### Vibration Record

Project Title:	Title: Central Police Station Conservation & Revitalization		entral Police Station Conservation & Revitalization Project No: WP201 28-Apr-2013 to					
POINT		VM17-1	VM17-3					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (	Initial)	0.13	0.37	11 - (1)				
Surveying Date								
28-Apr-2013					Sunday	- E-		
29-Apr-2013		0.54	0.47					
30-Apr-2013		0.15	0.54					
1-May-2013					Public Holiday			
2-May-2013		0.74	0.66					
3-May-2013		0.61	0.22					
4-May-2013		0.48	0.13					
5-May-2013					Sunday			
6-May-2013		0.25	0.15					
7-May-2013		0.15	0.54					
8-May-2013		0.28	0.22					
9-May-2013		0.46	0.64					
10-May-2013		0.13	0.55					_
11-May-2013		0.15	0.11					
Remark								

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

	( Block 17 Fou	ndation Works	)				
Monitoring Check Pts.		Trigger Levels					
Wontornig Check 1 is.	Alert level	Aların level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
Vibration at largest span of	5.0	60 1	7.5				
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s				

### Vibration Record

Project Title:	ect Title: Central Police Station Conservation & Revitalization		Project No: WP201	12-May-2013	12-May-2013 to			
POINT		VM17-1	VM17-3					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (	Initial)	0.13	0.37					
Surveying Date								
12-May-2013					Sunday			
13-May-2013		0.59	0.13					
14-May-2013		0.26	0.21					
15-May-2013		0.58	0.13					
16-May-2013		0.44	0.19					
17-May-2013				341	Public Holiday			
18-May-2013		0.28	0.35					
19-May-2013					Sunday			
20-May-2013		0.55	0.27					
21-May-2013		0.14	0.57					
22-May-2013		0.13	0.28					
23-May-2013		0.46	0.13					
24-May-2013		0.28	0.27					
25-May-2013		0.25	0.11					
Remark								



( Block 8 Foundation )

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

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

### Vibration Record

Project Title: (	Project Title: Central Police Station Conservation & Revitalization		Project No: WP201	21-Apr-2013	to	4-May-2013		
	ĭ							
POINT		VM8-1	VM11-1	VM11-2				
DATE	PD/(m)	mm/s	mm/s	mm/s				
23-Apr-2012 (I	nitial)	0.212	0.087	0.116				
21-Apr-2013					Sunday			
22-Apr-2013		0.26	0.35	0.13				
23-Apr-2013		0.31	0.13	0.55				
24-Apr-2013		0.23	0.21	0.15				
25-Apr-2013		0.36	0.13	0.09				
26-Apr-2013		0.61	0.13	0.25				
27-Apr-2013		0.25	0.24	0.54				
28-Apr-2013					Sunday			
29-Apr-2013		0.66	0.58	0.49				
30-Apr-2013		0.23	0.12	0.15				
1-May-2013					Public Holiday			
2-May-2013		0.55	0.13	0.13				
3-May-2013		0.36	0.13	0.33				
4-May-2013		0.25	0.15	0.36				

### WWW 恒誠建築工程有限公司 Win Win Way Construction Company Ltd.

( Block 8 Foundation )

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

### Vibration Record

Project Title:	roject Title: Central Police Station Conservation & Revitalization		Project No: WP201	5-May-2013	to	18-May-2013		
POINT		VM8-1	VM11-1	VM11-2				
DATE	PD/(m)	mm/s	mm/s	mm/s				
23-Apr-2012 (	(Initial)	0.212	0.087	0.116				
05-May-2013				Anna	Sunday			
6-May-2013		0.31	0.25	0.45				
7-May-2013		0.13	0.26	0.51	and the state of t		-115-1	
8-May-2013		0.32	0.25	0.42				
9-May-2013		0.25	0.16	0.24				
10-May-2013		0.33	0.25	0.46				
11-May-2013		0.56	0.52	0.25				
12-May-2013								
13-May-2013		0.23	0.16	0.25				
14-May-2013		0.66	0.15	0.24				
15-May-2013		0.26	0.19	0.55				
16-May-2013		0.61	0.15	0.42				
17-May-2013					Public Holiday			
18-May-2013		0.34	0.16	0.26				

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### ( Block 8 Foundation )



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

### Vibration Record

Project Title: C	Project Title: Central Police Station Conservation & Revitalization		Project No: WP201	19-May-2013	to	1-Jun-2013		
POINT		VM8-1	VM11-1	VM11-2				
DATE	PD/(m)	mm/s	mm/s	mm/s				
23-Apr-2012 (I	nitial)	0.212	0.087	0.116				
19-May-2013					46.72			
20-May-2013		0.23	0.13	0.55				
21-May-2013		0.61	0.25	0.33				
22-May-2013		0.35	0.13	0.55				
23-May-2013		0.36	0.22	0.29				
24-May-2013		0.23	0.28	0.45				
25-May-2013		0.56	0.55	0.11				
26-May-2013				·	Sunday			
27-May-2013		0.61	0.23	0.15				
28-May-2013		0.25	0.56	0.74				
29-May-2013		0.13	0.29	0.99				
30-May-2013		0.62	0.15	0.18				
31-May-2013		0.52	0.11	0.26				
1-Jun-2013		0.23	0.15	0.42				

Vibration Monitoring Locations for Trial Pile near Block 17 WYNDHAM 8 STREET 11SW-BVA68 No. #281 Description [2879] Date EL991

- BD SUBMISSION 07/11

A TENDER DRAWING 08/11

B TENDER ADDENDUM 09/11

C BD RE-SUBMISSION 09/11 Shiu King The Centrium -11SW-B/R21 -- 115W-3/CR56 Court NG Kir-shing Chief Structural Engineer for BUILDING AUTHORITO 1 7 NOV 2011 - 1°SW-B/R53 TP33 LEGEND EXISTING BOREHOLE (DONE BY OTHERS) BD SUBMISSION EXISTING TRIAL PIT (DONE BY OTHERS) Drawing Status 製圖狀況 EXISTING COREHOLE (DONE BY OTHERS) of relevant consultants. 本關紙及其內容的版權案有關顧問公司所有。 PROPOSED OLD BALLEY WING (OBW) EXISTING DRILLHOLE (DONE BY OAP) relevant consustants. 未提有關鎖特公司書面同意。不将模型此圖版內任何 也發出時計 - Do not take measurements dracely from this drawing 切を直接役置紙上線度尺寸。 EXISTING TRAL PIT (DONE BY OAP) (IO-BE/SUPPORTED BY SHAFT-GROUTED PRE-BOARD H-PILES) Check and verify all cimensions or site 所有尺寸必須在工地現場複查及客核 EXISTING HORIZONTIAL/INCLINED COREI-OLE (DONE BY OAP) Read this drawing in conjunction with the specifications and all other related drawings.
此國領必須民張裕設明書及其它有韓國銀一件閱讀。 EXISTING P-VALD (TO BE SUPPORTED BY SHAFT-GROUTEL DH2D(S,P) MINI-PILES) EXISTING VERTICAL COREHOLE (DONE BY CAP) Notify the relevant consultants immediately of any discrepancy found herein 如發現內各有任何課認之處。應立刻遵算有關額關公司 Client 進丰 EXISTING INCLINED DRILLHOLE (DONE BY CAP) HERZOG & DE MEURON TRIAL PILE (SHAFT-GROUTED PREBORED H-PILE) ⊕ TP-H1 HILD COLD BY THE THE TAXABLE PARTY OF TAXABLE PA TRIAL PILE (SHAFT-GROUTED MINI-PILE) OTP-W1 ROCCO PROPOSED BUILDING SETTLEMENT POINTS/ TILIMETER (BS1/BT1 TO BS7/BT7) E & M Engineer PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8) JRP ARUP PROPOSED VIBRATING MONITORING (VM1 TO VM12) (DURING PILE CONSTRUCTION CNLY) Project 単目 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION EXISTING SALT WATER MAIN Drawing Title MEZ
LAYOUT PLAN FOR SHAFT
GROUTED PILE FOUNDATION EXISTING STREET LIGHTING NO. 33488-A1 EXISTING STREET LIGHTING CABLE (TRIAL PILE & MONITORING) EXISTING HV ELECTRICITY CABLE K.C.Lai TRIAL PILE SCHEDULE F/005 TENTATIVE (UNDING LEVEL (mPD) -6.82 INTERFACE LEVEL
BETWEEN COLLUVIUM
AND CDG(mPD)
+44.00 EXISTING TELECOMMUNICATION DUC HUTCHISON GLOBAL COMMUNICATION LIMITED)
EXISTING STORMWATER DRAIN +55.70 T) 150 EXISTING FOUL SEWER 833881 815774 +55.70 +56.49 +44.00 +22.22 TP-M2 833876 815820 +50.00 +50.79 +34.00 +12.56 38.23 PROPOSED FOUL SEWER

Cod file : 209674\_F005.dwg

195 :5 cd b1 d35 1102

## ₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Manitarina Chaels Dto		Trigger Level	s
Monitoring Check Pts.	Alert level	Alarm level	Action level
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s

### Vibration Record

Project Title	Project Title: Central Police Station Conservation & Revitalization									Project No: WP201			19-May-2013		to 1-Jun-20	
POINT	•	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								
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
28-Feb-2013		0.17	0.24	0.28	0.33	0.36	0.40	0.20	0.19	0.26	0.24	0.19	0.39	0.40	0.15	0.30
7-Mar-2013		0.30	0.25	0.10	0.20	0.29	0.16	0.11	0.26	0.37	0.34	0.11	0.20	0.18	0.16	0.21
14-Mar-2013		0.11	0.17	0.22	0.23	0.15	0.30	0.15	0.28	0.29	0.34	0.16	0.27	0.31	0.23	0.29
21-Mar-2013		0.18	0.22	0.23	0.29	0.40	0.37	0.34	0.18	0.26	0.50	0.26	0.39	0.41	0.28	0.30
27-Mar-2013		0.13	0.14	0.14	0.14	0.17	0.36	0.40	0.11	0.19	0.15	0.24	0.72	0.15	0.17	0.25
3-Apr-2013		0.29	0.30	0.14	0.15	0.40	0.20	0.19	0.26	0.24	0.22	0.13	0.09	0.13	0.23	0.29
10-Apr-2013		0.16	0.26	0.25	0.25	0.19	0.39	0.15	0.25	0.78	0.46	0.51	0.25	0.61	0.13	0.19
17-Apr-2013		0.25	0.39	0.20	0.56	0.35	0.43	0.50	0.56	0.35	0.26	0.30	0.30	0.26	0.36	0.25
24-Apr-2013		0.23	0.13	0.25	0.16	0.45	0.25	0.44	0.81	0.19	0.23	0.36	0.45	0.75	0.61	0.25
2-May-2013		0.14	0.28	0.23	0.29	0.30	0.14	0.36	0.19	0.17	0.28	0.15	0.14	0.28	0.13	0.22
9-May-2013		0.11	0.19	0.29	0.39	0.20	0.56	0.35	0.22	0.25	0.60	0.19	0.19	0.39	0.30	0.21
16-May-2013		0.56	0.35	0.13	0.09	0.17	0.14	0.40	0.37	0.17	0.40	0.30	0.25	0.37	0.28	0.34
23-May-2013		0.34	0.31	0.26	0.40	0.29	0.22	0.19	0.41	0.26	0.28	0.17	0.32	0.36	0.27	0.19
30-May-2013		0.30	0.28	0.16	0.18	0.26	0.33	0.31	0.27	0.28	0.42	0.25	0.33	0.18	0.26	0.24

#### Annex M

Records of Vibration Monitoring for Other Construction Works



WW 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Trigger Levels Monitoring Check Pts. Alert level Alarm level Vibrating Monitoring

2mm/s

( Block 14 )

2.5mm/s

3mm/s

### Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	on Projec	et No: WP201	21-Apr-2013	to	4-May-2013
							 1		-r
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (l	nitial)	0.103	0.112	0.147	0.136				
21-Apr-2013						Sunday			
22-Apr-2013		0.22	0.61	0.42	0.13				
23-Apr-2013		0.33	0.31	0.25	0.25				
24-Apr-2013		0.26	0.55	0.45	0.13				
25-Apr-2013		0.61	0.22	0.25	0.13				
26-Apr-2013		1.61	0.31	0.45	0.13				
27-Apr-2013		0.35	0.25	0.25	0.23				
28-Apr-2013						Sunday			-
29-Apr-2013		0.26	0.35	0.11	0.13				
30-Apr-2013		0.32	0.62	0.61	0.25				
1-May-2013					Pı	ıblic Holiday			
2-May-2013		0.15	0.23	0.25	0.15				
3-May-2013		0.52	0.52	0.28	0.13				
4-May-2013		0.13	0.26	0.38	0.13				
Remarks									

WWW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd. ( Block 14 )

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

### Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalizati	on Project	No: WP201	5-May-2013	to	18-May-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (	Initial)	0.103	0.112	0.147	0.136				
5-May-2013						Sunday			
6-May-2013		0.66	0.15	0.36	0.52				
7-May-2013		0.15	0.34	0.29	0.13				
8-May-2013		0.62	0.12	0.61	0.11				
9-May-2013		0.19	0.62	0.18	0.56				
10-May-2013		0.33	0.85	0.16	0.66			4	
11-May-2013		0.16	0.47	0.26	0.16				
12-May-2013						Sunday			•
13-May-2013		0.22	0.28	0.31	0.19				
14-May-2013		0.31	0.33	0.69	0.28				
15-May-2013		1.31	0.23	0.25	0.29				
16-May-2013		0.36	0.33	0.58	0.29				
17-May-2013					Pub	lic Holiday			
18-May-2013		1.81	0.24	0.45	0.19				
Remarks									

## WW 恆誠建築工程有限公司

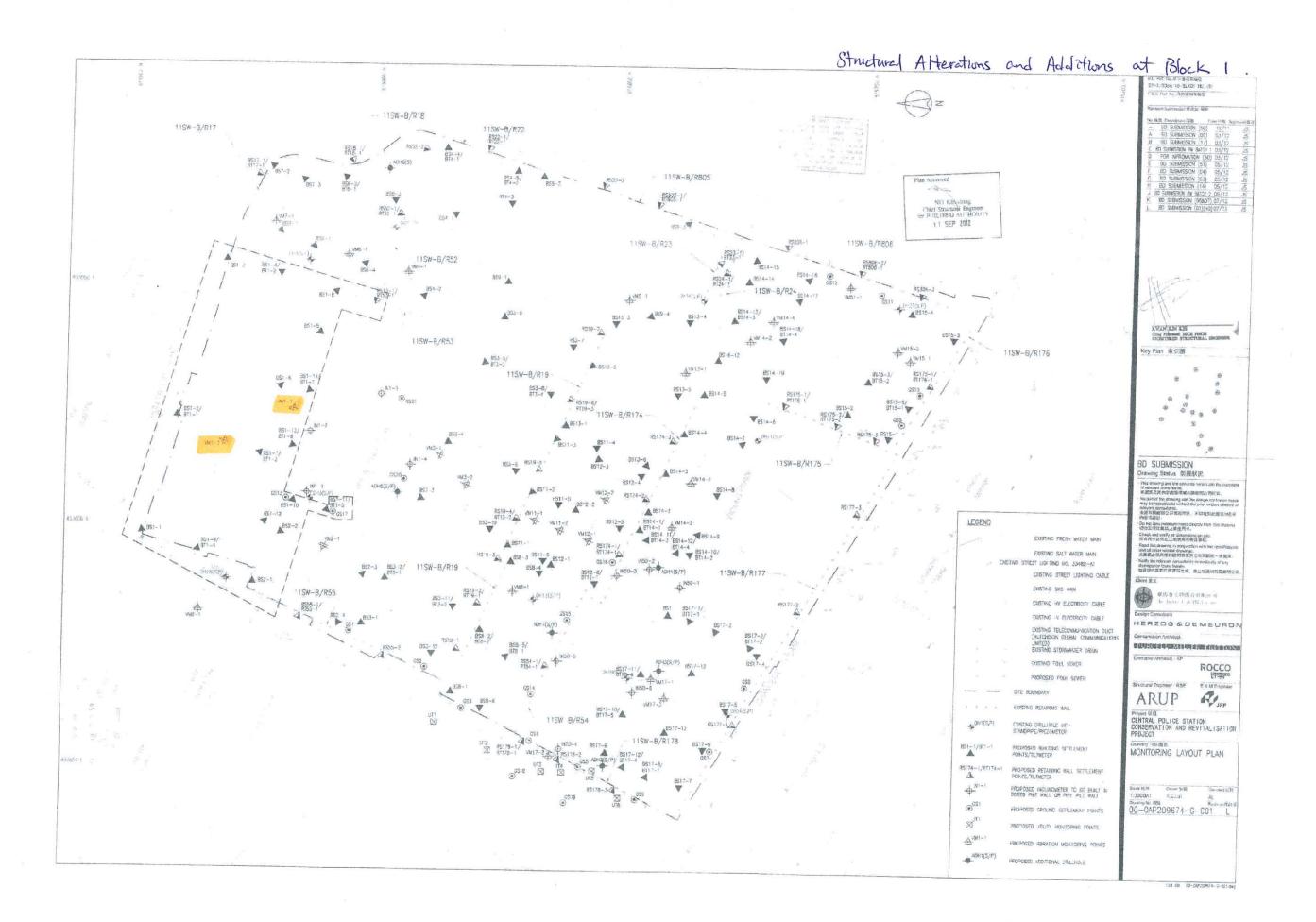
Win Win Way Construction Company Ltd.

( Block 14 )

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

### Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalization	on Proje	ct No: WP201	19-May-2013	to	1-Jun-2013
			r				т		
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
19-May-2013						Sunday			
20-May-2013		0.60	0.13	0.34	0.29				
21-May-2013		0.36	0.95	0.95	0.54				
22-May-2013		0.62	0.26	0.62	0.13				
23-May-2013		0.13	0.22	0.85	0.11				
24-May-2013		0.65	0.19	0.86	0.26				
25-May-2013		0.33	0.23	0.71	0.15				
26-May-2013						Sunday			
27-May-2013		0.21	0.26	0.45	0.15				
28-May-2013		0.32	0.22	0.46	0.16				
29-May-2013		0.52	0.33	0.35	0.52				
30-May-2013		0.36	0.21	0.51	0.13				
31-May-2013		0.22	0.33	0.33	0.19				
1-Jun-2013		0.62	0.12	0.16	0.52				
Remarks									





Monitoring Check Pts.	Trigger Levels					
Wienttering Check 1 ts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0/-	601	7.5			
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

roject litte: Cent	ral Police Sta	ttion Conserva	ation & Revitalization	Project No: WP202 (Block 1 A&	A 18-Apr-2013	to	1-May-2013
POINT	#VM1-1*	#VM1-2*					
DATE	mm/s	mm/s					
11-12-12 (Initial)	0.132	0.698					
18-Apr-13	0.098	0.111					
19-Apr-13	0.166	0.761					
20-Apr-13	1.430	0.160					
21-Apr-13				Sunday			
22-Apr-13	0.241	0.255					
23-Apr-13	0.246	0.327					
24-Apr-13	0.307	0.251					
25-Apr-13	0.150	0.258					
26-Apr-13	0.184	0.317				·	
27-Apr-13	0.183	0.232					
28-Apr-13				Sunday			
29-Apr-13	1.310	0.420					
30-Apr-13	0.264	0.112					
01-May-13				Holiday			Section 1

Remarks: \* same as WP107

# Vibration at largest span of highest structural level



Monitoring Check Pts.	Trigger Levels					
Wolffforfing Check 1 ts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Project Title: Cent	ral Police Sta	tion Conservation	& Revitalization	Project No:	WP202 (Block 1 A&A	2-May-2013	to	15-May-201
POINT	#VM1-1*	#VM1-2*					4	
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
02-May-13	0.160	0.206						
03-May-13	0.609	0.103						
04-May-13	0.131	0.246						
05-May-13				Sunday				
06-May-13	0.268	0.200						
07-May-13	0.128	0.156						
08-May-13	0.187	0.212						
09-May-13	1.210	0.295						
10-May-13	0.236	0.246						
11-May-13	0.133	0.300						
12-May-13				Sunday				
13-May-13	0.256	1.450						
14-May-13	0.241	1.160						
15-May-13	0.189	0.817						

Remarks: \* same as WP107

# Vibration at largest span of highest structural level



Manitarina Chaole Dto	Trigger Levels						
Monitoring Check Pts.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
# Vibration at largest span of	<b>5.0</b> mm/s	6.0mm/s	7.5mm/s				
highest Structural level	3.0mm/s	0.011111173	7.51111173				

Project Title: Cent	ral Police Sta	tion Conserva	ation & Revitalization	Project No:	WP202 (Block 1 A&A	16-May-2013	to	##########
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
16-May-13	0.209	0.247						
17-May-13				Holiday				
18-May-13	0.202	0.571						
19-May-13				Sunday				
20-May-13	0.133	0.454						
21-May-13	0.529	0.372						
22-May-13	0.087	0.097						
23-May-13	0.178	0.373						
24-May-13	0.165	0.293						
25-May-13	0.371	0.447						
26-May-13				Sunday				
27-May-13	0.227	0.197						
28-May-13	0.618	0.171						
29-May-13	0.113	0.211					-	

Remarks: \* same as WP107

# Vibration at largest span of highest structural level



Monitoring Chools Dto	Trigger Levels				
Monitoring Check Pts.	Alert level	Alarm level	Action level		
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
# Vibration at largest span of	<b>5.0</b> mm/s	6.0mm/s	7.5mm/s		
highest Structural level	J.0111111/8	0.0111111/8			

Project Title: Central Police Station Conservation & Revitalization			Project No: WP202 (Block 1 A&A 30-May-2013 to				12-Jun-2013	
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
30-May-13	0.163	1.400						
31-May-13	0.175	0.218						
1-Jun-13	0.139	0.207						
2-Jun-13				Sunday				
3-Jun-13	0.151	0.341						
4-Jun-13	0.147	0.448						
5-Jun-13	0.102	0.093						
6-Jun-13	0.720	0.434						
7-Jun-13	0.291	0.458						
8-Jun-13	0.187	0.323						
9-Jun-13				Sunday				
10-Jun-13								
11-Jun-13								
12-Jun-13								

Remarks: \* same as WP107

# Vibration at largest span of highest structural level