

中國港灣工程有限責任公司

香港代表: 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY LIMITED HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date

: 11 December 2015

Our Ref.: CHEC300/OUT/2015/12/04.05/003459

AECOM Asia Company Limited

8/F Grand Central Plaza Tower 2, 138 Shatin Rural Committee Road Shatin, Hong Kong

Attn:

Mr. Michael Tovey

The Engineer's Representative

Dear Sir,

Contract No. HY/2013/03

Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary **Buildings and Facilities**

EP Condition 5.4 – Monthly EM&A Report (November 2015)

Pursuant to the Condition 5.4 of the EP-353/2009/I, we are pleased to submit one soft copy and three copies of the certified Monthly EM&A Report (Rev.1) for November 2015 for your on-ward submission.

Thank you for your kind attention.

Yours faithfully,

For and on behalf of

China Harbour Engineering Co. Ltd.

Paul PUH

Site Agent

P/FH/ME/mhk

Encl.





10 December 2015

MCL/ED/664/2015/C

BY HAND

Date

Our Ref.

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1-15 Kwai Fung Crescent, Kwai Fong,

Hong Kong

Tel : +852-2450 8238 Fax : +852-2450 8032

E-mail: mcl@fugro.com.hk

Website: www.materialab-consultant.com

China Harbour Engineering Company Limited 19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong

Attn.: Mr. Johnason Ko, Project Manager

Dear Sir,

EP Condition 5.4 – Monthly Report for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities (HY/2013/03)

Pursuant to Condition 5.4 of the Environmental Permit (EP-353/2009/I) for the captioned project, we are pleased to submit the certified Monthly EM&A Report (Rev.1) for November 2015 for your onward submission.

Should you require further information, please do not hesitate to contact our Ms Sandra Pang at 3565 4485 or the undersigned at 3565 4115.

Assuring you of our best attention at all times.

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Cheng

Environmental Team Leader

AC/sp

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Ms. Miranda Wong RAMBOLL ENVIRON – Mr. Raymond Dai, Mr. Ray Yan, Mr. Andy Wong CHEC – Mr. Paul Pui, Mr. Marko Chan

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Report No.: 0165/15/ED/0212

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)

November 2015

Client:

China Harbour Engineering Co., Ltd.

Project:

Contract No. HY/2013/03

Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities -

Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Report No.:

0165/15/ED/0212

Prepared by: Sandra Pang

Reviewed by: Bong Yu

Certified by:

Arthur Cheng

Environmental Team Leader



Ref.: HYDHZMBEEM00_0_3658L.15

10 December 2015

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. Michael Tovey

Dear Sir,

Re: Agreement No. CE 48/2011 (EP)

Environmental Project Office for the

HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,

and Tuen Mun-Chek Lap Kok Link - Investigation

Contract No. HY/2013/03 - HZMB HKBCF - Vehicle Clearance Plazas and

Ancillary Buildings and Facilities

Monthly Environmental Monitoring & Audit Report for November 2015

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for November 2015 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0663/2015/C" dated 10 December 2015) and provided to us via e-mail on 10 December 2015.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Condition 5.4 of the Environmental Permit No. EP-353/2009/I.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of Ramboll Environ Hong Kong Limited

Raymond Dai

Independent Environmental Checker

 c.c.
 HyD
 Mr. Matthew Fung
 (By Fax: 3188 6614)

 HyD
 Mr. Ken Woo
 (By Fax: 3188 6614)

 MCL
 Mr. Arthur Cheng
 (By Fax: 2450 8032)

 CHEC
 Mr. Johnason Ko
 (By Fax: 2887 3014)

Internal: DY, YH, LP, CL, ENPO Site

Q:\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\HYDHZMBEEM00_0_3658L.15.doc





10 December 2015

MCL/ED/0663/2015/C

Date

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Website: www.materialab-consultant.com

Ramboll Environ Hong Kong Limited (formerly ENVIRON Hong Kong Limited) Room 2403, 24/F, Jubilee Centre. 18 Fenwick Street, Wan Chai, Hong Kong

Attn.: Mr. Raymond Dai, IEC

BY HAND

Dear Sir.

EP Condition 5.4 - Monthly Report for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities -Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)

Pursuant to Condition 5.4 of the Environmental Permit (EP-353/2009/I) for the captioned contract, we are pleased to submit the certified Monthly EM&A Report for November 2015 (Rev.1) for your verification.

Should you require further information, please do not hesitate to contact our Ms Sandra Pang at 3565 4485 or the undersigned at 3565 4115.

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Chena

Environmental Team Leader

AC/sp

Encl.

AECOM - Mr. P.K. Lee, Mr. W.S. Ng, Ms. Miranda Wong C.C.

CHEC - Mr. Paul Pui, Mr. Marko Chan

Ramboll Environ - Mr. Ray Yan, Mr. Andy Wong

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Report No.: 0165/15/ED/0212

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Report No.: 0165/15/ED/0212

EXECUTIVE SUMMARY

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities)" (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (hereafter referred to as "the Contractor") and MateriaLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

The Contract is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/I, was issued on 17 July 2015. These documents are available through the ElA Ordinance Register.

Commencement of the Contract took place on 10 April 2015 while the construction works and the EM&A programme of this Contract commenced on 29 August 2015.

MateriaLab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract.

This is the 3rd Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 1 November 2015 to 30 November 2015 (the "reporting period"). The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF -Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7A and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection during the reporting period are listed below:

Environmental Site Inspection: 5, 13, 20 and 23 November 2015.

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.

There was no marine transportation and operation during the reporting period and therefore, no ecology monitoring result is reported.

Complaint Log

There were no complaints received in relation to the environmental impact during the reporting period.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

- Site Investigation at Portion G; and
- Piling work at A1 & STP, Building at Portion A1 and CUE Construction at Portion B.

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1. INTRODUCTION

1.1 **Background**

- MateriaLab Consultants Limited was commissioned by China Harbour Engineering Co. Limited (also referred to as "the Contractor") to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities" ("the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR).
- The Contract is part of Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) which is "Designated Projects", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and for which an EIA Report (Register No. AEIAR-145-2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP- 353/2009/I, was issued on 17 July 2015. These documents are available through the EIA Ordinance. The general layout of the Project area is shown in Appendix A.
- This is the third EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor from 1 November 2015 to 30 November 2015 (reporting period) under Contract No. HY/2013/03 and is submitted to fulfil Condition 5.4 of the EP.

1.2 **Project Description**

- 1.2.1 The works to be executed under this Contract include the following major items:
 - a. Cargo clearance facilities including kiosks for clearance of good vehicles, customs inspection platforms, X-ray building, etc.:
 - b. Passenger related facilities including processing kiosks and examination facilities for private cars and coaches, annexure for examination of accompanying passengers of private cars,
 - c. Accommodation/offices for the facilities (like fire station, police station, buildings for Immigration Department [ImmD], Hong Kong Customs and Excise Department [C&ED]. Agriculture, Fisheries and Conservation Department [AFCD], Food and Environmental Hygiene Department [FEHD], Department of Health [DofH] etc.) of the Government departments providing services in connection with the HKBCF;
 - d. Provision of transport and miscellaneous facilities inside the HKBCF including public transport interchange (PTI), transport drop-off and pick-up areas, vehicle holding areas, passenger queuing areas, road networks, footbridges, fencing, sewerage and drainage systems, sewage treatment plant and treated effluent disposal facilities, water supply system, building services works, electronic system, and traffic control and information system including traffic control and surveillance system (TCSS), etc.;
 - e. Provision of roads connecting the BCF to the Hong Kong Link Road (HKLR), the Tuen Mun - Chek Lap Kok Link (TM-CLKL) and the Hong Kong International Airport (HKIA), expect the part of road works in HKIA entrusted to the HKLR project; and
 - Reprovisioning of the affected HKIA's facilities, expect those affected by the Automated People Mover (APM) system such as the existing east rescue berth.

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1.3 Project Organisation

1.3.1 The Project Organisation for Environmental Works is shown in **Appendix B**. The contact person and telephone numbers of key personnel for the captioned project are shown in Table 1.1:

Table 1.1 Contact Persons and Telephone Numbers of Key Personnel

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office /	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
Independent Environmental Checker	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	34652899
(Ramboll Environ Hong Kong Limited)	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
Engineering Co. Ltd)	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MateriaLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	-55.	7.5	5236 7111	₩

1.3.2 The Contract HY/2013/03 has commenced on 10 April 2015. The commencement of construction works and the EM&A programme have commenced on 29 August 2015.

1.4 Construction Programme

1.4.1 The construction programme is provided in **Appendix C**.

1.5 Construction Works Undertaken during the Reporting Period

- 1.5.1 The construction works of this Contract commenced on 29 August 2015. During this reporting period, the following major site activities were commenced:
 - Site Investigation at Portion A1, A2 & G;
 - Piling, Building & Drainage at Portion A1; and
 - CUE Construction at Portion B.

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2. AIR QUAILITY MONITORING

2.1 **Monitoring Locations**

The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7A as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. Figure 1 shows the locations of air monitoring stations.

Table 2.1 Air Quality Monitoring Location

Air Monitoring Station	Location
AMS6	Dragonair/CNAC (Group) Building (A80)
AMS7A	Chu Kong Air-Sea Union Transportation Co. Ltd.

2.2 **Monitoring Requirements**

- 2.2.1 The monitoring requirements, equipment, parameters, frequency and duration, methodology, schedule, and meteorological information are described in the monthly EM&A Reports prepared for Contract No. HY/2010/02 and HY/2011/03.
- 2.2.2 The Action and Limit levels for 1-hr TSP and 24-hr TSP are summarized in Table 2.2.

Table 2.2 Action and Limit Levels for Air Quality

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
	1 hour TSP	
AMS6	360	500
AMS7A	370	500
	24 hours TSP	
AMS6	173	222
AMS7A	183	260

- 2.2.3 The event and action plan is provided in Appendix D.
- 2.2.4 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

2.3 **Monitoring Results**

- 2.3.1 The monitoring results for AMS6 and AMS7A are reported in the monthly EM&A Reports prepared for Contract No. HY/2011/03 and HY/2010/02 respectively.
- 2.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 2.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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Hona Kona.

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Report No.: 0165/15/ED/0212

3. NOISE MONITORING

3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02. Figure 2 shows the locations of noise monitoring stations.

Table 3.1 Construction Noise Monitoring Location

ID No.	Description
NMS2	Seaview Crescent
NMS3B	Site Boundary of Site Office Area at WA2

3.2 Monitoring Requirements

- 3.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract No. HY/2010/02.
- 3.2.2 The Action and Limit Levels for construction noise are defined in Table 3.2.

Table 3.2 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time	e Period 0700-1900 hrs. on Norma	al Weekdays
NMS2	When one documented	75.0 dB (A) Leq (30 min.)
NMS3B	complaint is received	70.0 dB (A) Leq (30 min.)*

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2010/02. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

^{*} Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period

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4. WATER QUALITY MONITORING

- 4.1 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 4.2 The ET of the Contract is required to conduct impact water quality monitoring as part of EM&A programme if water quality monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO and EPD agreement on the contract specific water quality monitoring works at least a month before the commencement of any marine works.

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Report No.: 0165/15/ED/0212

5. ECOLOGY MONITORING

- There was no marine works conducted, no marine transportation and operation impacted to the ecology during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 5.2 The ET of the Contract is required to conduct ecology monitoring as part of EM&A programme if ecology monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO, AFCD and EPD agreement on the contract specific marine ecology monitoring works at least a month before the commencement of any marine works, marine transportation or operation.

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6. **ENVIRONMENTAL SITE INSPECTION AND AUDIT**

6.1 Site Inspection

- Site audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- The joint site audits were conducted on 5, 13, 20 and 23 November 2015 by the representatives of Engineer, Contractor, ET and IEC (IEC for 23 November 2015).
- Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

5 November 2015

1. No particular finding.

13 November 2015

1. No particular finding.

20 November 2015

- 1. CHEC was reminded that good housekeeping practice shall be maintained on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- 2. CHEC was reminded that stagnant water was found in manhole. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- 3. CHEC was reminded that construction materials and stagnant water were found in the wells of rooftop. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

23 November 2015

1. CHEC was reminded to fully cover the tarpaulin sheets properly for the exposed earth slope at CUE's works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

6.2 Advice on the Solid and Liquid Waste Management Status

- The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 6.2.2 The monthly summary of waste flow table is detailed in Appendix E.
- There was no Inert C & D Materials and 0.034 (in'000m³) of Non-inert C & D Wastes and no 6.2.3 excavated marine sediment generated in this reporting period. Excavated marine sediment (if any) will be treated using cement solidification/stabilisation (Cement S/S) techniques and will be reused onsite for either backfilling or landscaping (e.g. berm material).
- If off-site disposal is required, the excavated marine mud from the land-based works shall be disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.

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6.2.5 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

6.3 Environmental Licenses and Permits

6.3.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix F**.

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractor carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. All necessary mitigation measures at this stage of works were implemented properly.

6.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 6.5.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 6.5.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.5.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.5.4 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported.
- 6.5.5 There was no marine transportation and operation during the reporting period and therefore, no ecology monitoring result is reported.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 6.6.1 There were no complaints received in relation to the environmental impact during the reporting period. The details of cumulative statistics of Environmental Complaints are provided in **Appendix H**.
- 6.6.2 There was no notification for summons or prosecutions received in relation to the environmental impact during this reporting period.
- 6.6.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are provided in **Appendix H**.

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Report No.: 0165/15/ED/0212

7. **FUTURE KEY ISSUES**

7.1 **Construction Programme for the Coming Months**

- As informed by the Contractor, the following are the major construction activities anticipated in December 2015:
 - Site Investigation at Portion G; and
 - Piling work at A1 & STP, Building at Portion A1 and CUE Construction at Portion B.

7.2 **Environmental Site Inspection Schedule for the Coming Month**

7.2.1 The tentative schedule for weekly site inspections for December 2015 is provided in Appendix I.

Room 723 & 725, 7/F, Block B,

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Hona Kona.

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8. CONCLUSIONS

- 8.1 Commencement of the Contract took place on 10 April 2015. The commencement date construction works and the EM&A programme of the Contract commenced on 29 August 2015.
- Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 8.2 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 8.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- There was no Action and Limit Level exceedance for noise recorded at station NMS2 and 8.4 station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- There was no marine works conducted during the reporting period and therefore, no water 8.5 quality impact monitoring result is reported.
- There was no marine transportation and operation during the reporting period and therefore, no 8.6 ecology monitoring result is reported.
- 8.7 Environmental site inspections were carried out on 5, 13, 20 and 23 November 2015. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.
- 8.8 There were no complaints received in relation to the environmental impact during the reporting period.
- 8.9 There were no notifications of summons or prosecutions received during the reporting period.

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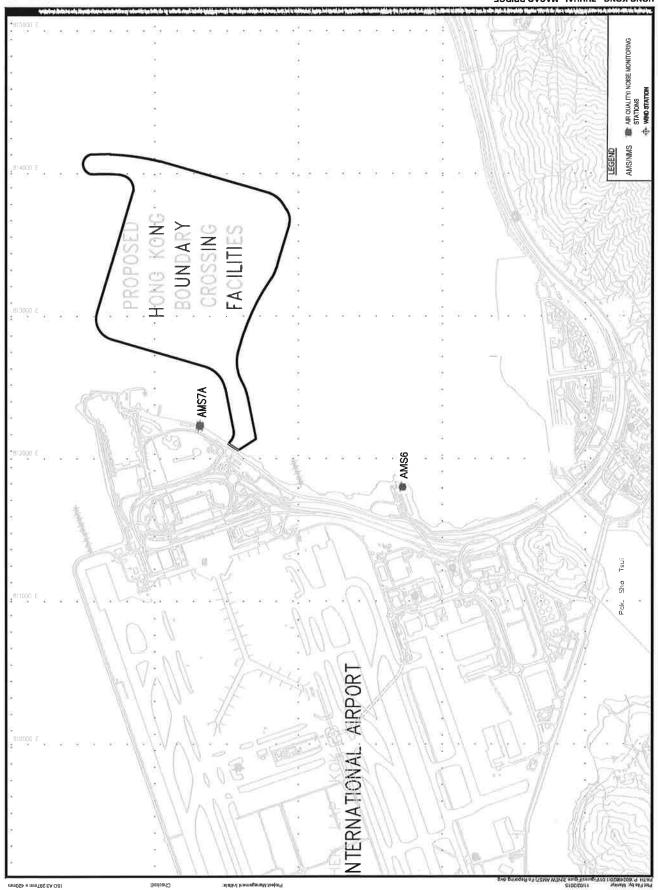


Report No.: 0165/15/ED/0212

Figure 1

Air Quality Monitoring Stations





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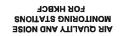
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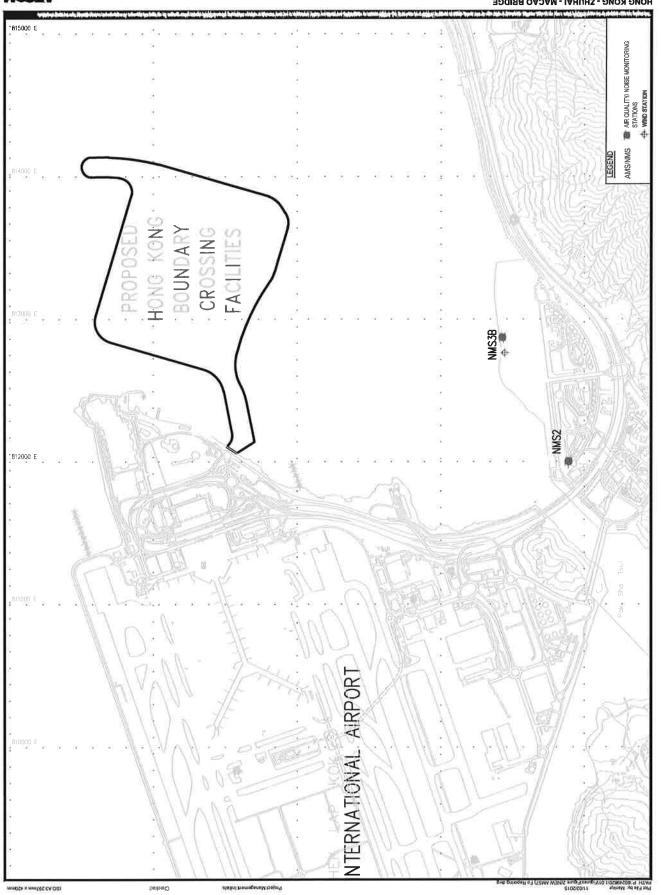
Figure 2

Noise Monitoring Stations



Project No.: -- RECLAMATION WORKS HONG KONG BOUNDARY CROSSING FACILITIES HONG KONG - ZHUHAI - MACAO BRIDGE





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Tel Fax Email

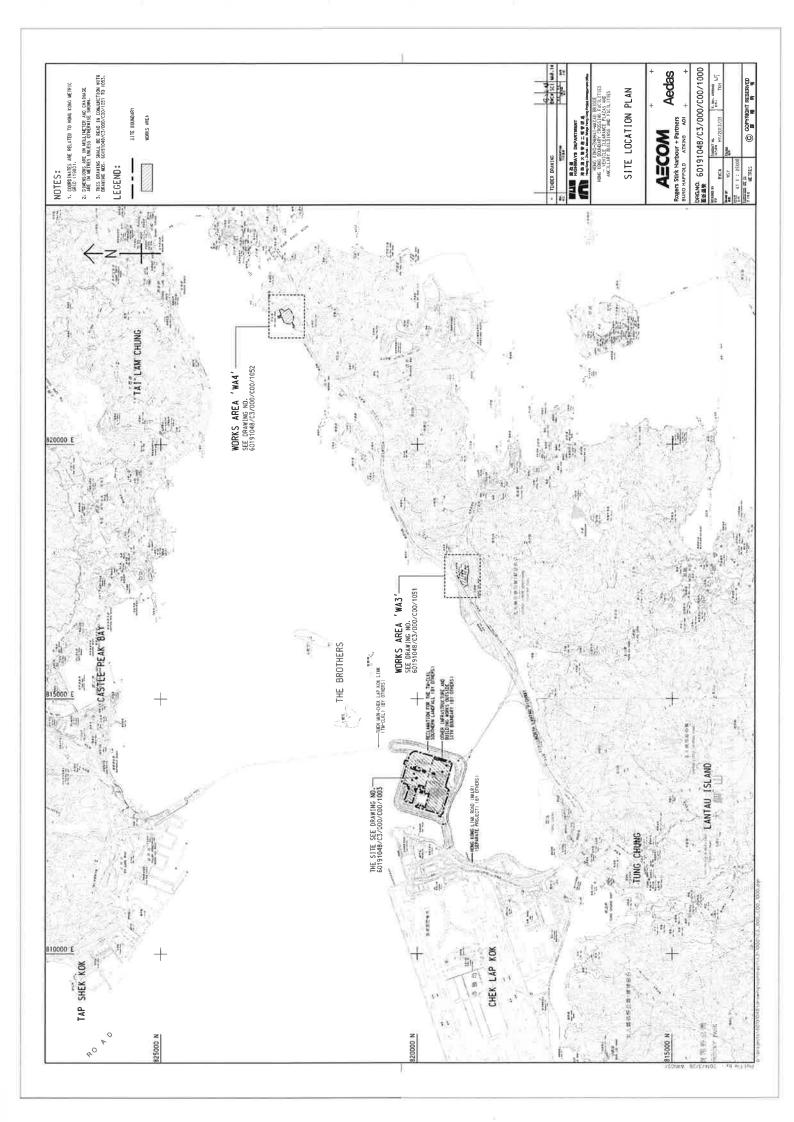
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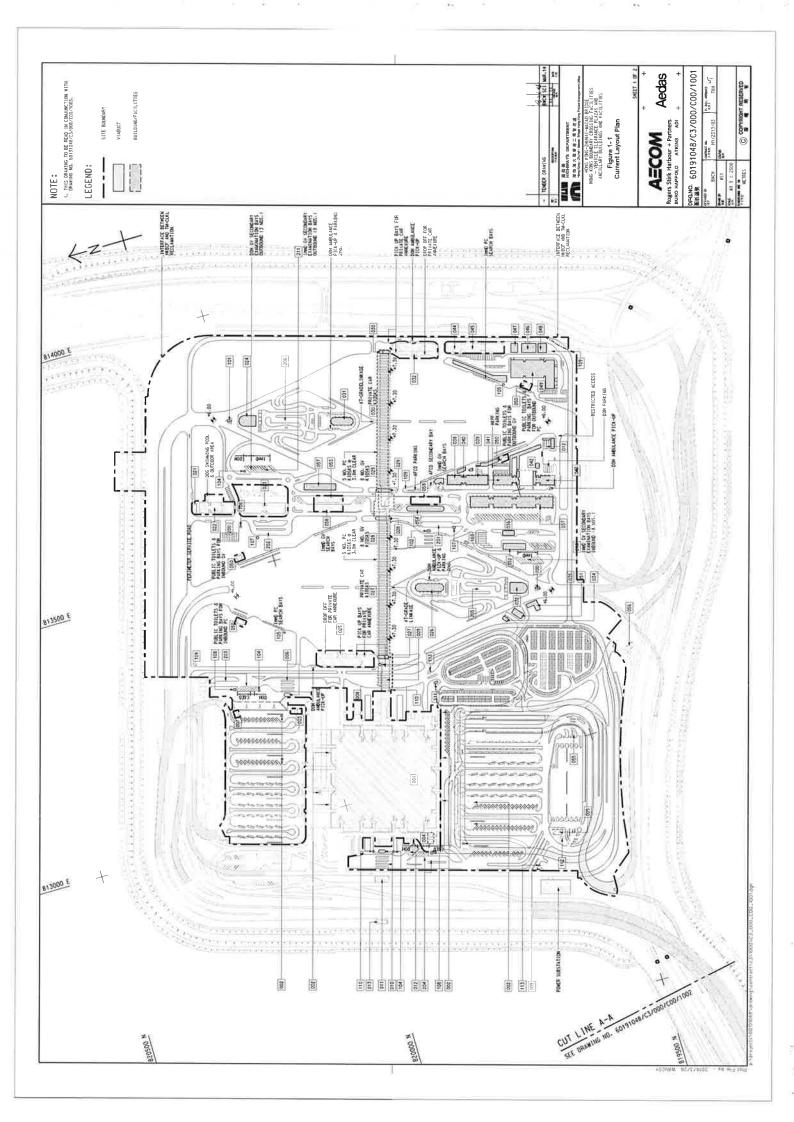


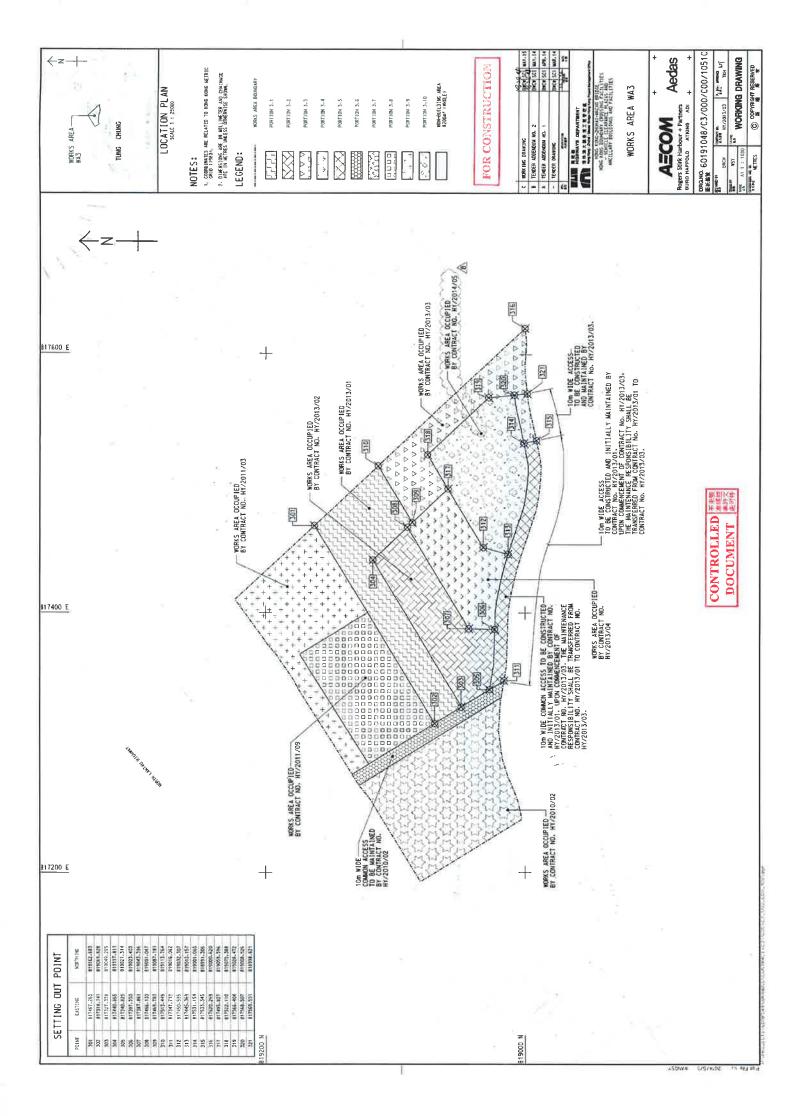
Report No.: 0165/15/ED/0212

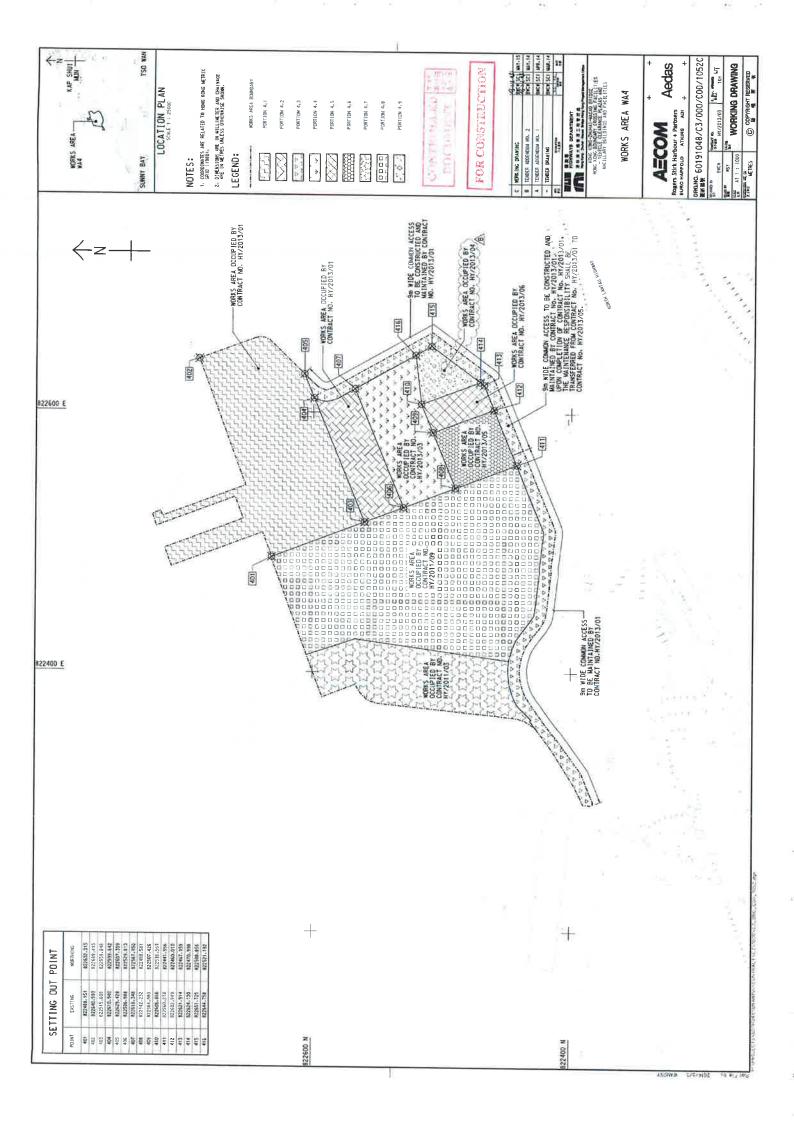
Appendix A

Location of Works Areas









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Appendix B

Project Organization for Environmental Works

of other HKBCF Contracts Environmental Team (ETs) ← Line of Communication Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing EPD Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities Projects Organization for Environmental Works CHINA HARBOUR ENGINEERING COMPANY LIMITED Independent Environmental Checker, Ramboll Engineer's Representative, AECOM Environmental Team, MateriaLab ENPO Leader, Ramboll Environ Environmental Team Member Environmental Team Leader Mr. Michael Tovey, CRE Highways Department Mr. Arthur CHENG Mr. Raymond DAI Ms. Sandra PANG 3465 - 2888 Mr. Y.H. HUI 3565 - 41153547 - 2133 3985 - 7470 3565 - 4485 Interface with other HZMB Hong Kong Project Contractor, China Harbour Engineering Assistant Environmental Officer Environmental Supervisor Environmental Officer Company Limited Mr. Johnason KO Mr. Marko CHAN Project Manger Mr. Chris CHIU Mr. Vince MAK Mr. Davis WU Mr. W. T. WAN Mr. Paul PUI 9427 - 28799368 - 1679 9125 - 0700 2597 - 3300 Site Agent 25973505

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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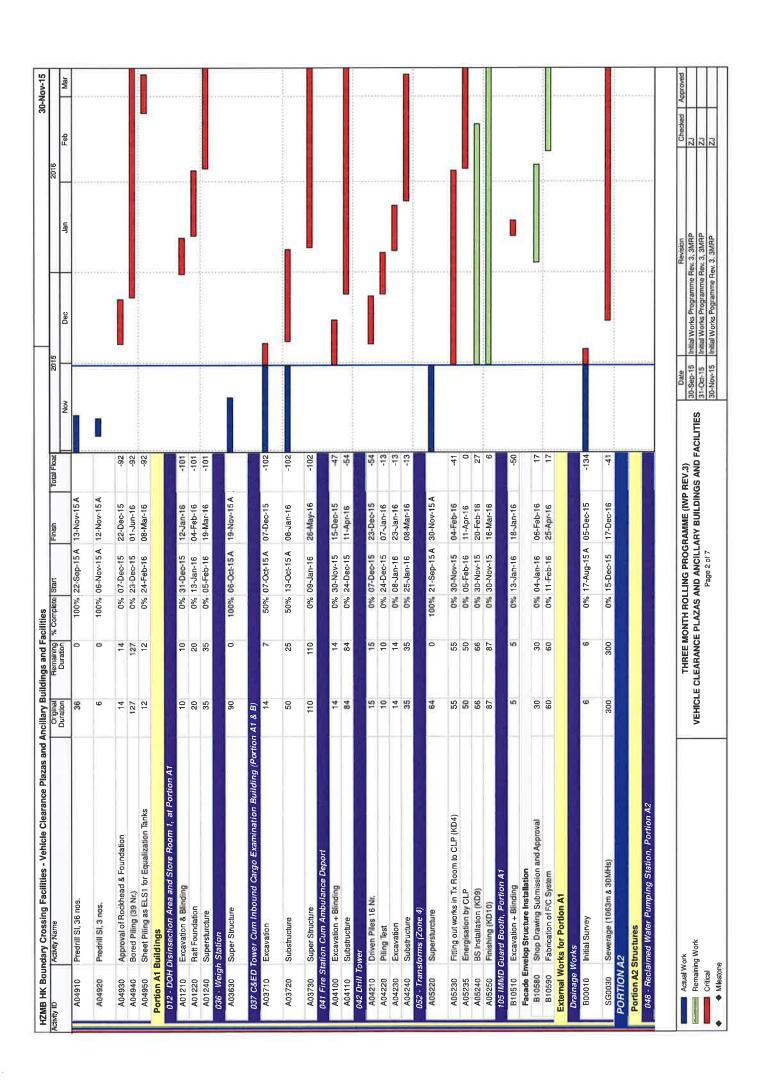
Appendix C

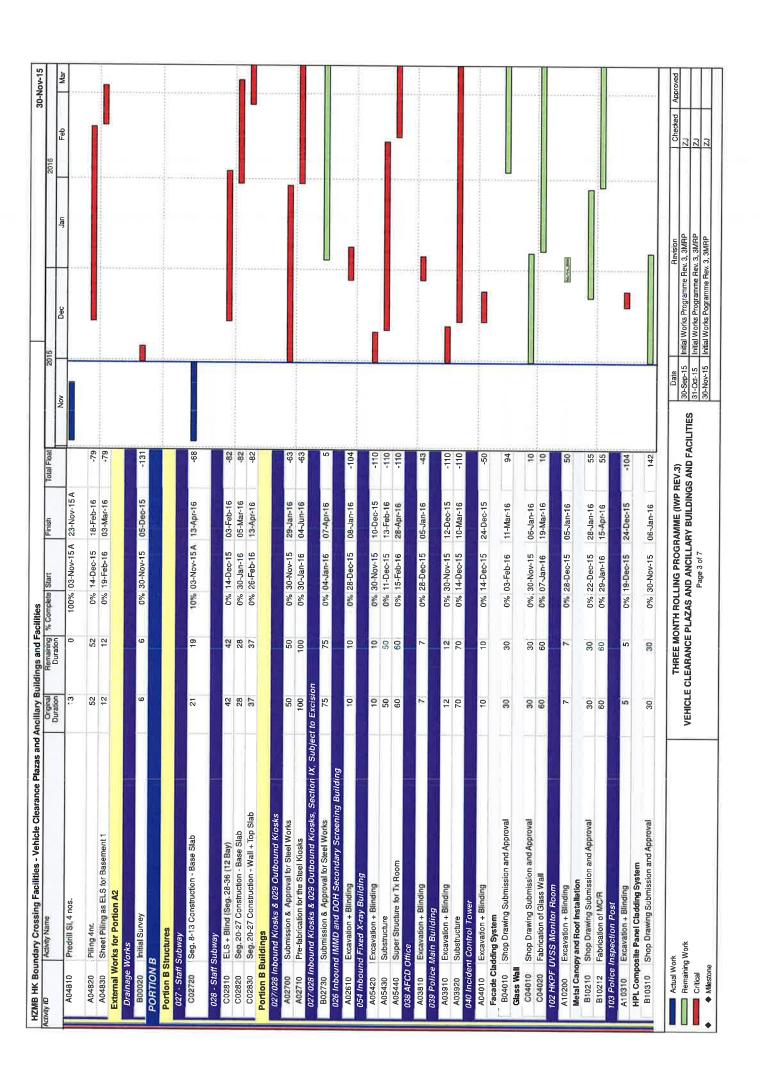
Construction Programme

Activity ID Activity Name Original Remain		Original	Meman and			1000		2015			
		Duration	Duration	Duration		_	Nov	Dec	Jan	Feb	Mar
HKBCF - VCP & Ancillary Buildings and	Facilities, Rev. 3	OD ON							-		
CONTRACT DATES											
es										1771	
A1040 KD4 Achievement o	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec. 15)	0	0	%0	04-Feb-16*	ŗċ				◆ KD4 Achievement of Stage	of Stage
Site Access & Possession											
sion											
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	on nz (<=z) s days)	0	0	%0	07-Jan-16	0 0			◆ Possession of P	Possession of Portion H2 (<=273 days)	
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A0710 Contract Date for Se Engineer may order	Contract Date for Section IA (273 days, latest date when the Engineer may order)	0	0	0% 07-Jan-16*		0			 Contract Date for 	Contract Date for Section IA (273 days, latest date	st date v
A0720 Contract Date for Sec Engineer may order)	Contract Date for Section IB (273 days, latest date when the Engineer may order)	0	0	0% 07-Jan-16*		0	Water Water Company of the Company o		◆ Contract Date fo	Contract Date for Section IB (273 days, latest date	st date v
A0740 Contract Date for Se Engineer may order	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	0% 30-Nov-15		-135		 Contract Date for Section 	n IIB (100 days, latest da	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	order)
A0750 Contract Date for Se Engineer may order	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	O	0	0% 23-Feb-16*		0		soccot :		◆ Cor	 Contract Da
A0760 Contract Date for Se Engineer may order	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	0% 07-Jan-16*		0		****	 Contract Date to 	 Contract Date for Section III (273 days, latest date 	st date w
A0810 Contract Date for Se Engineer may order	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Confract Date for S	 Contract Date for Section IX (270 days, latest date wh 	date who
A0820 Confract Date for Se Engineer may order	Contract Date for Section X (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Section X (270 days, latest date whe	date whe
A0830 Contract Date for Sta Engineer may order	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Stage 20 (270 days, latest date whe	ale wher
A0840 Contract Date for Sta	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Stage 21 (270 days, latest date whe	ate wher
A0850 Contract Date for Sta	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Stage 22 (270 days, latest date whe	ate where
A0860 Contract Date for Str Engineer may order	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Stage 23 (270 days, latest date whe	ale whe
A0870 Contract Date for Sta Engineer may order	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)	0	0	0% 04-Jan-16*		0			◆ Contract Date for S	Contract Date for Stage 24 (270 days, latest date whe	ate wher
PORTION A1									90231		
Portion A1 Structures			Ì					12122	*****		
		1	d								i
Serona Treaminal, 10 nos.		5	42	60% 10-Nov-15 A	u/-Jan-16	ភ្			1		
S91015 Bored pile for P904, A905, 4 nos.	A905, 4 nos.	28	28	0% 28-Dec-15	09-Mar-16	-51					
047 - Fresh Water Pumping Station, Portion A1 & A2 A04700 Predrill SI. 4 nos.	tation, Portion A1 & A2	12	c	100% 03-Nov-15 A	23.Nov.15.A						
		1	•	200				10.00		200-20	
A04710 Piling 4nr.		50	20	0% 19-Feb-16	21-Apr-16	-79					000000
149 - Sewage Treatment Plant, Portion A1 & A2	; Fortion A1 & A2										
		THREE VEHICLE CLEARAN	THREE MO	E MONTH ROLLING PROGRAMME (IWP REV.3) NCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 1 of 7	RAMME (IWP	REV.3) 3S AND FAC	Date 30-Sep-15 31-Oct-15 30-Nov-15	Hetrisi Works Programme Rev. 3, 3MRP Initial Works Programme Rev. 3, 3MRP Initial Works Portramme Rev. 3, 3MRP Revision	Revision Rev. 3, 3MRP Rev. 3, 3MRP	Checked Ap	Approved
◆ Milestone											

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ACIVITY ID ACIVITY Name	Orginal	Duration	% Complete Start		lotal Float	Nov Dec	Jan Jan	Feb Mar
B10320 Fabrication of HPL Cladding	09	09	0% 07-Jan-16	19-Mar-16	142			
છુ								
A05710 Excavation + Blinding	10	10	0% 30-Nov-15	10-Dec-15	-110			0.75
A05720 Raft Foundation	52	52			-110			
A05730 Supersturcture	65	65	0% 17-Feb-16	07-May-16	-110			
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B	Cargo), Portion B							
C10710 Excavation + Blinding	2	2	0% 11-Dec-15	18-Dec-15	-110			
C10720 Raft Foundation	32	32	0% 19-Dec-15	-	-110			
C10730 Superstructure (Roof Stabs)	. 62	62	0% 29-Jan-16	18-Apr-16	-110			
113 - Field Kiosk for Access Control, Portion B	n B	ļ				691-		
B11310 Excavation + Blinding	2	2	0% 09-Jan-16	16-Jan-16	-104			
B11320 Raft Foundation	32	32	0% 18-Jan-16	26-Feb-16	-104			
B11330 Superstructure (Roof Beams & Slabs)	09 (s	09	0% 27-Feb-16	12-May-16	-104			
External Works for Portion B								****
Drainage Works								
B00030 Initial Survey	12	12	0% 30-Nov-15	12-Dec-15	-110			
	390	360	0% 14-Dec-15	03-Mar-17	-105			
SG3580 Sewerage (1175m & 32MHs)	360	360	0% 14-Dec-15	03-Mar-17	-105			
7 9								(64)
	360	360	0% 15-Feb-16		-105			
SW1560 Flushing Water Main Laying (1851m)	360	360	0% 15-Feb-16	05-May-17	-105			
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting	rcss & Lighting							*****
SU5300 Duct Laying for Utilities/Telecom Cabling	bling 360	360	0% 15-Feb-16	05-May-17	-105			
ŧ						Pont		
		9	0% 15-Dec-15		-36			
		7			-36			
SS5230 Submission and approval for Sign Gantry	Santry 180	180	0% 30-Nov-15	12-Jul-16	-83			
PORTION C								
Partion C Bullaings								50.0.0
9				П				Continuous
A01010 Substructure and Staircase Construction	ction 60	09	0% 14-Dec-15	27-Feb-16	-110			
₹I	Same of the same						200	0.00
		42	0% 14-Dec-15		-98			
		28			86-			
A00930 Constructing Wall + lop Slab of Seg. 1-7	9, 1-7	37	0% 26-Feb-16	13-Apr-16	86-			
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BOIZEU Excavation & billinging	01	O.	0% 11-066-15	ZZ-Dec-15	-101-		2007	
A10450 Excavation & Ritoring	- TO 100 100 100 100 100 100 100 100 100 10	Ľ	0% 23-Dec-15	30.Dec 15	101			00:55
Ē			51-55-55					0000
A10805 Excavation & Blinding	9	10	0% 05-Dec-15	10-Dec-15	-101			
일							1000	METT
A10800 Shop Drawing Submission and Approval	roval 30	30	0% 09-Jan-16	16-Feb-16	-70	****		I
A10815 Fabrication of HPL Cladding	09	09	0% 17-Feb-16	30-Apr-16	-70		*1000	
110 IMMD Guard Booth (Type 2)								
A11020 Excavation & Blinding	5	5	0% 31-Dec-15	06-Jan-16	135			
Z Z								(666)
A11120 Excavation & Blinding	5	5	0% 18-Jan-16	22-Jan-16	67			
113 - Field Kiosk for Access Control, Portion C	n C						12-9	
Actual Work		THREE	THREE MONTH BOILING PROGRAMME (IWP BEV 3)	GRAMME (IWE	REV 3)		Revision	Checked Approved
☐ Remaining Work	VEHICE	VEHICLE CLEARANCE	E PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	LLARY BUILDIN	GS AND FACILIT	30-Sep-15	Initial Works Programme Rev. 3, 3MRP	72
Critical			Page 4 of 7	7		30-Nov-15	Initial Works Programme Rev. 3, 3MRP	2 2
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Bore pile + P301 + P601, (6 + 4) Nr. 73				
Bridge 43	5 A 27-Aug-16	-92		
Bored Pile 43 43 0% 02-Feb-16 S31630 Bore piting for A305, P304arb (5 Nr.) 0% 02-Feb-16	3 29-Mar-16	7		
		- Contract of the Contract of	0	۱ŀ
ing Work THREE MONTH ROLL VEHICLE CLEARANGE PLAZAS AN	OGRAMME (IWP REV. ILLARY BUILDINGS AI	8 8		ZJ Approved
Critical Page 5 of 7	2.1	30-Nov-15	5 Initial Works Pogramme Rev. 3, 3MRP	7 72

ACIMITY ID	Activity Name	Orginal	Memaining	% Complete Start	Finsh	lotal Float	202			
		North Control of the					Nov	Dec	Jan	Feb Mar
Bridge A4						Ì	***************************************			The later of the state of the s
Bored Pile	Bore or A Nr	33	88	71-20-Dec-15	01-Feb-16	*				
\$42340	Pile Testing	7	7	0% 16-Feb-16	23-Feb-16	24				
Pile Cap										
\$42360		30	30	0% 24-Feb-16	01-Apr-16	24				
S42370	Cap - Pier P402	30	30	0% 24-Feb-16	01-Apr-16	24				
Bridge A5										
Bored Pile S52610	Predrill SI, 15 nos.	18	0	100% 22-Sep-15A 31-Oct-15A	31-Oct-15 A		*******	01040040		
-								A S		
S52620	Predrill SI for others 4 nos.	9	9	0% 14-Dec-15	19-Dec-15	37				The second secon
S52630	Bare piling for 19 Nr.	09	09 -	0% 14-Dec-15	27-Feb-16	F				
Dile Can	COC - LOC - LOC Bridge Sill -			01-180-07						•
S52710	Cap for P504, P505	30	30	0% 02-Feb-16	10-Mar-16	11		nuis))(ve		
Bridge Ab										
Bored Pile S63510	Bore pile for P606, A607/A711, 6 Nr.	46	46	0% 22-Dec-15	19-Feb-16	-36				•
Bridge A7	Bridge A7a, A7b, A7c									
Bored Pile								e in a si		
S74150		30	30	0% 21-Dec-15	27-Jan-16	37				
S74170	Bore Piling for A701, P702 - P705, 10 Nr.	42	42	0% 20-Nov-15A	21-Apr-16	13				
Bridge A8										
Bored Pile										
S86110	Predrill SI for P803, P804 4 nos.	25	0	100% 30-Jul-15A	23-Nov-15A		I	ideal)		
S86120	Predrill SI for P802 2 nos.	13	0	100% 17-Nov-15A	23-Nov-15A		I			******
ofaining	1 TM 8 TM + 1M + 1M + 1M + Min the minister						***************************************			
Setaining	Retaining Wall W3-1									
S37110	Predrill SI for W3-1, 12 Nr.	36	0	100% 12-Sep-15A	27-Nov-15A					
S37120	Predrill SI for W3-1, other 4 Nr.	12	10	100% 02-Nov-15A	27-Nov-15A					******
ortion G	Portion G Buildings			=				****		
33 Inbou	033 Inbound Private Car Exam Building									
A03300	Excavation + Blinding	10	10	0% 11-Dec-15	22-Dec-15	92				
Glass Car	Glass Canopy Installation R0300 Short Drawing Submission and Angewest	S	08	10- 10- 16	25 Eab 16	-				
B03305	Fabrication of Glass Canopy	09	09	0%; 26-Feb-16	11-May-16	112	****	****		
Auminiun	16									Sometime and the second
B03310	Shop Drawing Submission and Approval	30	30	0% 19-Jan-16	25-Feb-16	148	****			
B03315	Fabrication of F/C System	09	09	0% 26-Feb-16	11-May-16	148	44-7	****		
35 - Sew	035 - Sewage Pumping Station, Portion G							*****		
A03525	Approval of Rockhead & Founding	14	14	0% 14-Dec-15	31-Dec-15	12			0.00	
151 Trans	051 Transformers (Zone 5)		1	The state of the s	4.5					
A05100	Excavation + Blinding	n ų	no f	0% 30-Nov-15	04-Dec-15	7.				
A05140	SuperStructure	- S		0% 03-Dec-15	04-Feh-16	1				
251201		8	3	21-22-23 8/0	01-05-1-0		-			
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Critical				Page 6 of 7			31-Oct-15	Initial Works Programme Rev. 3, 3MRP	.3, 3MRP	72

10 10 10 10 10 10 10 10	A05150 Finishing A05150 BS + E&M for Tx Room to CLP (Stage 3A) 100 Inbound Traffic Control Klosk A10000 Excavation + Blinding A10010 Raft Foundation A10040 Super Structure (Roof Beams & Stabs) HPL Composite Panel Cladding System B10010 Shop Drawing Submission and Approval B10015 Fabrication of PC System B10015 Fabrication of PC System B10010 Shop Drawing Submission and Approval B10010 Sign Ganty DS41 & DS75 SS0010 Sign Ganty DS41 SI Drilling, 3 Nr. SS0030 Sign Ganty DS41 SI Drilling, 2 Nr. SS0030 Sign Ganty DS41 SI Drilling, 2 Nr.		09						1000		Mar
10 10 10 10 10 10 10 10	A05160 BS + E&M for Tx Room to CLP (Stage 3A) 100 Inbound Traffic Control Krosk A10000 Excavation + Blinding A10010 Raft Foundation A10040 Super Structure (Roof Beams & Stabs) HPL Composite Panel Cladding System B10010 Shop Drawing Submission and Approval B10010 Shop Drawing Submission and Approval B10015 Fabrication of F/C System External Works for Portion G, H1 & H2 Drainage Works B00080 Initial Survey Sign Gantry D540, D541 & D575 SS0010 Sign Gantry D541 SI Dritling, 3 Nr. SS0030 Sign Gantry D541 SI Dritling, 2 Nr. SS0050 Sign Gantry D545 SI Dritling, 2 Nr.	9 69	00 00				Nov	Dec	Jan	Feb	-
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Supplementary Supplementar	A10040 Super Structure (Roof Beams & Slabs) HPL Composite Panel Cladding System B10010 Shop Drawing Submission and Approval B10015 Fabrication of F/C System External Works for Portion G, H1 & H2 Drainage Works B00080 Initial Survey Sign Ganity DS40, DS41 & DS75 SS0010 Sign Ganty DS40 SID filling, 3 Nr. SS0030 Sign Ganty DS41 SID filling, 1 Nr. SS0050 Sign Ganty DS45 SID filling, 2 Nr. SS0050 Sign Ganty DS45 SID filling, 2 Nr.	ř	'n	0% 05-Eeb-16	25-Eeb-16	0 1		1			200
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\top	Critical			Page 7 of 7			\top	al Works Pogramme Re	v. 3, 3MRP	2 2	





Report No.: 0165/15/ED/0212

Appendix D

Event / Action Plan

Appendix D -

Event / Action Plan for Air Quality and Noise Monitoring

Event / Action Plan for Air Quality

Event		Ad	ction	
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measureme nt to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event		Ac	tion	
	ET	IEC	ER	Contractor
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurement s to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedanc e continues, arrange meeting with IEC and ER; If exceedanc e stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementatio n of remedial measures. 	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event		Ac	tion	
LVCIIL	ET	IEC	ER	Contractor
Limit Level				
Exceedance for one sample	1. Identify source, investigate the causes of exceedance a nd propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementatio n of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

5 4		Act	tion	
Event	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event		Act	tion	
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC,ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event		Ac	tion	
	ET	IEC	ER	Contractor
Limit Level	1.Inform IEC, ER, EPD and Contractor; 2.Identify source; 3.Repeat measurements to confirm findings; 4.Increase monitoring frequency; 5.Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6.Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7.Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8.If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

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Report No.: 0165/15/ED/0212

Appendix E

Waste Flow Table

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Monthly Summary of Waste Flow Table for 2015 (year)

Name of Person completing the Record: Marko Chan

ed Monthly	Others, e.g. general	refuse	(in '000m ³)				0	0	0.063	0.029	0.044	0.034	0.024	0.034		0.228
astes Generat	Chemical		(in '000 Kg)				0	0	0	0	0	0	0	0		0
inert C&D Wa	Plastics	(see Note 2)	(in '000 Kg)				0	0	0	0	0	0	0	0		0
Actual Quantities of Non-inert C&D Wastes Generated Monthly	Paper/ cardboard	packaging	(in '000 Kg)				0	0	0	0	0	0	0	0		0
Actual Quar	Metals		(in '000 Kg) (in '000 Kg)				0	0	0	0	0	0	0	0		0
d Monthly	Disposed as		(in '000m³)				0	0	0.003	0.402	0.100	0	0	0		0.505
Actual Quantities of Inert C&D Materials Generated Monthly	Reused in other	Projects	(in '000m³)				0	0	0	0	0	0	0	0		0
rt C&D Materi	Reused in the Contract		(in '000m³)				0	0	0	0	0	0	0	0		0
antities of Ine	Broken Concrete	(see Note 1)	(in '000m³)				0	0	0	0	0	0	0	0		0
Actual Qu	Total Quantity	Generated	(in '000m³)				0	0	0.003	0.402	0.100	0	0	0		0.505
	Month			Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total

Notes:

(1) Broken concrete for recycling into aggregates. (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

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Report No.: 0165/15/ED/0212

Appendix F

Environmental Licenses and Permits

Appendix F - Environmental Permit / Licences Summary for Contract No. HY/2013/03

						Volid Data	Doto		Domest
Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valld	- 1	Status	Кетатк
	0					From	To		
-	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/I	HKBCF	30-Jun-15	17-Jul-15	17-Jul-15	Nii	Valid	
,	Notification	CO220C -185°C	N (- 1, 0 - 1, 1)	21 A CO	15 A 21 15	16 A 16	213	F:1-7x	
7	Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ret No. 387703	Main Site Area	02-Apr-15	cl-apr-cl	15-Apr-15	Nil	Valid	
	Notification								
8	Pursuant to Section 3(1) of The Air Pollution Control	Ref No. 387735	Works Area WA3	02-Apr-15	15-Apr-15	15-Apr-15	ΪΝ	Valid	
	(Construction Dust) Regulation								
	Billing A/C for Construction Waste Disposal		Main Site Area						
4	Pursuant to Section 6 & 9 of the Waste Disposal (Charges for	A/C No. 7022228	WA3 & 4	14-Apr-15	06-May-15	06-May-15	Ē	Valid	
	Disposal of Construction waste) Regulation								
	Registration as Waste Producer								
5	Pursuant to Waste Disposal (Chemical Waste) (General)	5213-951-C1186-28	Main Site Area	24-Apr-15	01-Jun-15	01-Jun-15	ΪŻ	Valid	
	Regulation								
	Registration as Waste Producer								
9	Pursuant to Waste Disposal (Chemical Waste) (General)	5213-974-C3597-03	Works Area WA4	24-Apr-15	01-Jun-15	01-Jun-15	Ē	Valid	
	Regulation								
r	Water Discharge License	310C 091CC000T/W	World Area WA	30 Ame 15	04 4 22 15	02 A .u.e 15	21 4 20	1,1,1,1	
`	Pursuant to Water Pollution Control Ordinance (Cap 358)	W 1 00022100-2013	WOIKS AICE WAS	20-Api-13	04-Aug-13	03-Aug-13	31-Aug-20	Valid	
œ	Water Discharge License	WT00022391-2015	Main Site Area	05-May-15	04-Sept-15	04-Cent-15	20 Cont 20	File/A	
-	Pursuant to Water Pollution Control Ordinance (Cap 358)	C107-1/C770001 II	Main One Area	00-14tdy-1.0	or-sept-15	or-sept-15	20-3cpt-20	vallu	
6	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0477-15	Works Area WA3	20-Apr-15	04-May-15	18-May-15	17-Nov-15	Valid until 17-Nov-15	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0566-15	Box Culvert D	08-May-15	22-May-15	08-Jun-15	07-Nov-15	Valid until 07-Nov-15	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0020-15	Drill Tower	06-Jul-15	20-Jul-15	01-Aug-15	30-Nov-15	Valid until 30-Nov-15	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0999-15	CUE	28-Aug-15	11-Sept-15	14-Sept-15	10-Dec-15	Cancelled on 02-Nov-15	Superseded By GW-RS1203-15
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1065-15	Portion A1	15-Sept-15	29-Sept-15	30-Sept-15	31-Dec-15	Valid	

Item	Permit/Licence Registration	Permit No	Work Area	Annication Data	Icense Date	Valid	Valid Date	Chodest	Remark
		Total Inc.	MOINTING	Application Date	asanc Danc	From	To	Status	
2	Construction Noise Permit	at cooted two	Į.	0		3	,		
+1	Pursuant to Section 8(6) of the Noise Control Ordinance	GW-K31203-13	COE	20-Oct-15	03-Nov-15	03-Nov-15 02-Nov-15 31-Jan-16	31-Jan-16	Valid	
15	Construction Noise Permit	21 212100 WO	, i		1000		, i	,	
77	Pursuant to Section 8(6) of the Noise Control Ordinance	GW-K31313-13	Рошоп С	CI-A0N-71	CI-A0N-97	26-Nov-15 28-Nov-15 28-Feb-16	28-Feb-16	Valid	

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Report No.: 0165/15/ED/0212

Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix G – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores: 	All construction sites	V
S5.5.6.2	A2	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top	All construction sites	V
S5.5.6.2	A2	 Cement or dry PFA delivered in buik should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;. Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		stabiliser within six months after the last construction activity on the construction site r part of the construction site where the exposed earth lies		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Represent- ative dust monitoring station	V
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all siios and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body	Selected Represent- ative dust monitoring station	V
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points	All construction sites	N/A
Constructi S6.4.10	N1	1) Use of good site practices to limit noise emissions by	All	V
		considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	construction sites	
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including	For plant items	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		compressor, generators, saw.	listed in Appendix 6D of the EIA report at all construction sites	
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1 Sediment	N6	6) Implement a noise monitoring under EM&A programme.	Selected representati ve noise monitoring station	V
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002	All	N/A
67-24770		Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	construction	NA
S8.3.8	WM1	Construction Waste) Construction and Demolition Material	All	V
S8.3.9-	WM2	The following mitigation measures should be implemented in handling the waste: • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and • Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. • In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation C&D Waste	construction sites	V
S8.3.11	VVIVIE	Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites	construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
	11011	should be considered for such segregation and storage.		
S8.3.12- S8.3.15	WM3	Chemical Waste Chemical waste that is produced, as defined by Schedule of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	All construction sites	V
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can		
		supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.		
S8.3.16	WM4	Sewage Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.	All construction sites	V
S8.3.17	WM5	General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.	All construction sites	V
		ruction Phase)		
\$9.11.1.7	W2	Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided;	Land-based works area	V

adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited siit and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation.		
excavations should be discharged into storm drains via silf removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 9.11.1.7 W2 • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; • wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; • vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; • the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; • waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; • all fuel tanks and chemical storage areas should be provided with locks and be sited	Land-based works area	V
storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oilgrease traps prior to discharge to the stormwater system.		
cology (Construction Phase)		
10.7 E4 • Watering to reduce dust generation; prevention of siftation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater	Land-based works areas	N/A
10.7 E5 • Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time	Land-based works areas	V
10.7 E8 • Control vessel speed	Marine Traffic	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementatio Status
		Skipper training Predefined and regular routes for working vessels; avoid Brother Islands.		
Fisheries				
S11.7	F4	Maritime Oil Spill Response Plan (MOSRP); Contingency plan.	HKBCF	V
		Detailed Design Phase)	LUCAGE	
S14.3.3.1	LV1	General design measures include: Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydroseeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; Providing planting area around peripheral of HKBCF for tree planting screening effect; Providing sait-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF.	НКВСГ	V
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.	HKBCF	N/A
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close	HKBCF	N/A
		low-level views to the Project during HKBCF construction.		
EM&A		low-level views to the Project during HKBCF construction.		

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
			sites	
S15.5 – S15.6	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	All construction sites	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

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Report No.: 0165/15/ED/0212

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Appendix H -

Statistics on Environmental Complaints, Notifications of Summons and Successful **Prosecutions**

		Cumulative Statistics	
Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	1	0	0

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Appendix I

Environmental Site Inspection Schedule

Room 723 & 725, 7/F, Block B,

Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Report No.: 0165/15/ED/0212

Contract No. HY/2013/03 HZMB HKBCF – Vehicle Clearance Plazas and Ancillary Buildings and Facilities Weekly Environmental Site Inspection Schedule

			Nov-2015			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5 Environmental Site Inspection	6	7
8	9	10	11	12	13 Environmental Site Inspection	14
15	16	17	18	19	20 Environmental Site Inspection	21
22	23 Environmental Site Inspection	24	25	26	27	28
29	30					

Tentative Environmental Site Inspection Schedule for December 2015

			Dec-2015			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 Environmental Site Inspection	4	5
6	7	8	9	10 Environmental Site Inspection	11	12
13	14	15	16	17 Environmental Site Inspection	18	19
20	21	22	23 Environmental Site Inspection	24	25 Public Holiday	26 Public Holiday
27	28	29	30	31 Environmental Site Inspection		