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Report No.: 0165/15/ED/0310

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)

January 2016

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/0310

Prepared by: Sandra Pang

Reviewed by: Bong Yu

Certified by:

Arthur Cheng **Environmental Team Leader**



Ref.: HYDHZMBEEM00_0_3866L.16

16 February 2016

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 January 2016

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for January 2016 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0083/2016/C" dated 16 February 2016) and provided to us via e-mail on 16 February 2016.

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

Kongut

Raymond Dai Independent Environmental Checker

c.c.

HyD HyD MCL

CHEC

Mr. Matthew Fung Mr. Ken Woo Mr. Arthur Cheng Mr. Johnason Ko (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2450 8032) (By Fax: 2887 3014)

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

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Ramboll Environ Hong Kong Limited (formerly ENVIRON Hong Kong Limited) Room 2403, 24/F, Jubilee Centre, 18 Fenwick Street, Wan Chai, Hong Kong Date 16 February 2016 Our Ref. MCL/ED/0083/2016/C

<u>BY HAND</u>

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

EP Condition 5.4 – Monthly EM&A 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 project, we are pleased to submit the certified Monthly EM&A Report for January 2016 (Rev.1) for your verification.

Should you require further information, please do not hesitate to contact our Ms Sandra Pang at 3565 4156 or the undersigned at 3565 4115.

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Cheng Environmental Team Leader

AC/by

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





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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 EIA 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 5th Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 1 January 2016 to 31 January 2016 (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 AMS7 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: 7, 14, 20 and 28 January 2016.

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 AMS7 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 works 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

The relocation of air monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Co. Ltd.) back to the original location AMS7 (Hong Kong SkyCity Marriott Hotel) was approved by EPD. The relocation was completed in 30 December 2015 and the air monitoring at AMS7 was started from January 2016.

Future Key Issues

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

- Site Investigation at Portion A1, J & G;
- Piling at Portion A1, STP, Pumping Station, B & G (Bridge A1, AS2, A6 & A7a);
- Building at Portion A1, B & G;
- Drainage at Portion B & G; and
- CUE Construction at Portion B.

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1. INTRODUCTION

1.1 Background

- 1.1.1 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).
- 1.1.2 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.
- 1.1.3 This is the fifth EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor from 1 January 2016 to 31 January 2016 (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, etc.;
 - 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
 - f. Reprovisioning of the affected HKIA's facilities, expect those affected by the Automated People Mover (APM) system such as the existing east rescue berth.

1.3 **Project Organisation**

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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:

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Engineer's Representative AECOM Asia Co. Chief Resident Engineer		3985 7470	3902 8800
Environmental Project Office /	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
Independent Environmental Checker	Independent Independent Environmental Environmental		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			5236 7111	

Table 1.1 Contact Persons and Telephone Numbers of Key Personnel

: mcl@fuaro.com.hk

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, J & G;
 - Piling at Portion A1, STP, Pumping Station, B & G (Bridge A1, AS2, A6 & A7a);
 - Building at Portion A1 & G;
 - Drainage at Portion B;
 - CUE Construction at Portion B; and
 - Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

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2. AIR QUAILITY MONITORING

2.1 Monitoring Locations

2.1.1 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 AMS7 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. The relocation of air monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Co. Ltd.) back to the original location AMS7 (Hong Kong SkyCity Marriott Hotel) was approved by EPD. The relocation was completed in 30 December 2015 and the air monitoring at AMS7 was started from January 2016.

Table 2.1 Air Quality Monitoring Location

Air Monitoring Station	Location
AMS6	Dragonair/CNAC (Group) Building (A80)
AMS7	Hong Kong SkyCity Marriott Hotel

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/m ³)	Limit Level (µg/m³)
AMS6	360	500
AMS7	370	500
	24 hours TSP	
AMS6	173	260
AMS7	183	200

- 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 AMS7 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.

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2.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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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	I 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.

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

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.

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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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5. ECOLOGY MONITORING

- 5.1 There was no marine works conducted which 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.

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6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

Tel

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6.1 Site Inspection

- 6.1.1 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.
- 6.1.2 The joint site audits were conducted on 7, 14, 20 and 28 January 2016 by the representatives of Engineer, Contractor, ET and IEC (IEC for 20 January 2016).
- 6.1.3 Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

31 December 2015

- 1. CHEC was reminded to remove the construction wastes accumulated in the tray at CUE works area. The observation was closed on 7 January 2016.
- 2. CHEC was reminded to remove the stagnant water accumulated at CUE works area. The observation was closed on 7 January 2016.

7 January 2016

- 1. CHEC was reminded to maintain good housekeeping practice at CUE works area. Subsequently, good housekeeping practice was maintained on site. The observation was closed on 14 January 2016.
- 2. CHEC was reminded to remove the stagnant water at Area 1. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.
- 3. CHEC was reminded to properly store chemicals at CUE works area. Subsequently, chemicals were stored properly on site. The observation was closed on 14 January 2016.

14 January 2016

- 1. CHEC was reminded to remove the stagnant water at CUE works area. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.
- CHEC was reminded to remove the stagnant water at Area 1. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.

20 January 2016

1. CHEC was reminded to maintain good housekeeping practice at CUE works area. Subsequently, good housekeeping practice was maintained on site. The observation was closed on 28 January 2016.

28 January 2016

- 1. CHEC was reminded to clear and prevent the oil spillage from generator's drip tray at CUE works area. 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 to clear and prevent the oil spillage on site at STP works area. Followup actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- 3. CHEC was reminded to cover the excavated marine sediment properly with tarpaulin sheets at STP 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

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- 6.2.1 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**.
- 6.2.3 4.022 (in'000m³) of excavated marine sediment and 0.073 (in'000m³) of Non-inert C & D Wastes were generated in this reporting period.
- 6.2.4 The excavated marine mud from the land-based works was disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.
- 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.
- 6.4.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. The marine traffic records and geographical plots of all the vessels tracks overlaid on HK base map shall be provided at monthly interval to ER, ETL, IEC/ENPO to demonstrate the conformance of the vessel to the proposed route.

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 AMS7 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.

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- 6.5.5 There was no marine works 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**.

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7. FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

- 7.1.1 As informed by the Contractor, the following are the major construction activities anticipated in February 2016:
 - Site Investigation at Portion A1, J & G;
 - Piling at Portion A1, STP, Pumping Station, B & G (Bridge A1, AS2, A6 & A7a);
 - Building at Portion A1, B & G;
 - Drainage at Portion B & G; 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 February 2016 is provided in Appendix I.

Room 723 & 725, 7/F, Block B. Profit Industrial Building, Tel 1-15 Kwai Fung Crescent, Kwai Fong, Fax Email Hona Kona.

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Report No.: 0165/15/ED/0310

8. CONCLUSIONS

- 8.1 Commencement of the Contract took place on 10 April 2015. The commencement date for construction works and the EM&A programme of the Contract commenced on 29 August 2015.
- 8.2 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.
- 8.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 8.4 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.
- 8.5 There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.
- 8.6 There was no marine works during the reporting period and therefore, no ecology monitoring result is reported.
- 8.7 Environmental site inspections were carried out on 7, 14, 20 and 28 January 2016. 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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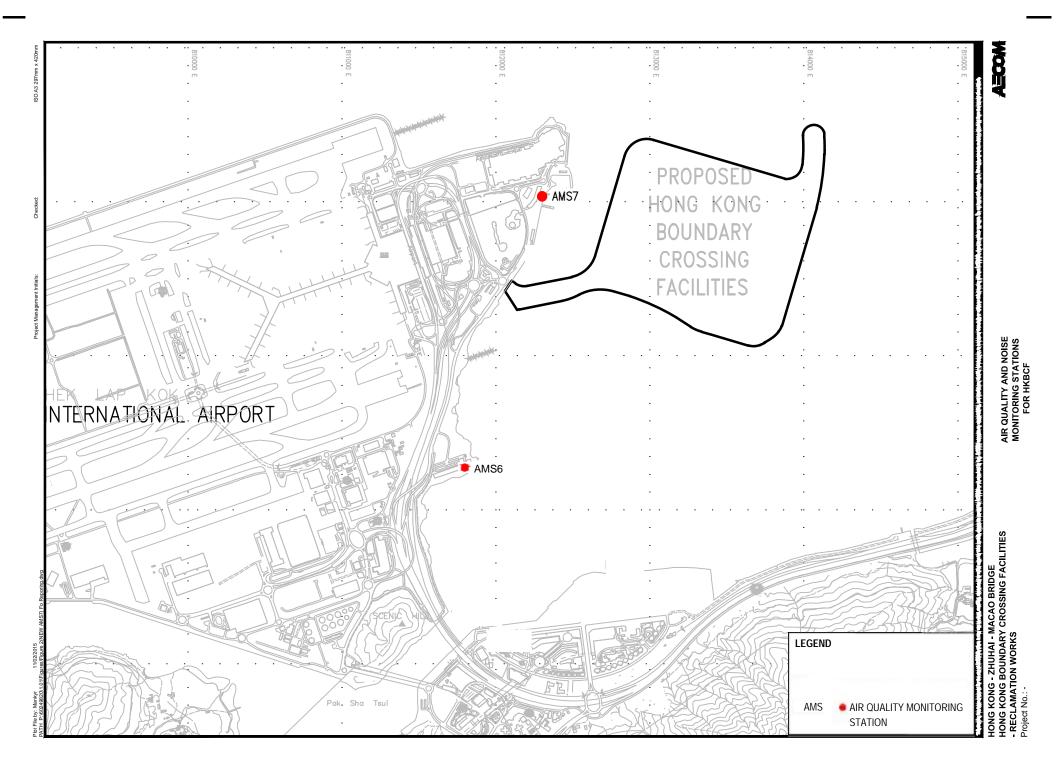
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Report No.: 0165/15/ED/0310

Figure 1

Air Quality Monitoring Stations



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

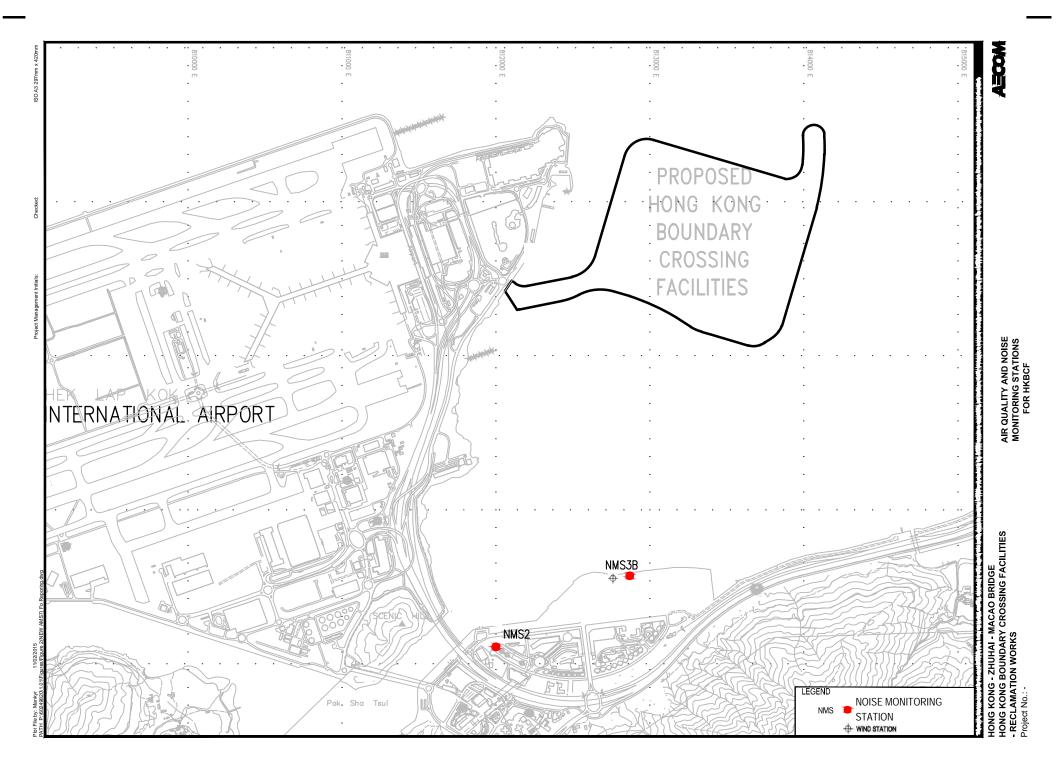
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Report No.: 0165/15/ED/0310

Figure 2

Noise Monitoring Stations



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

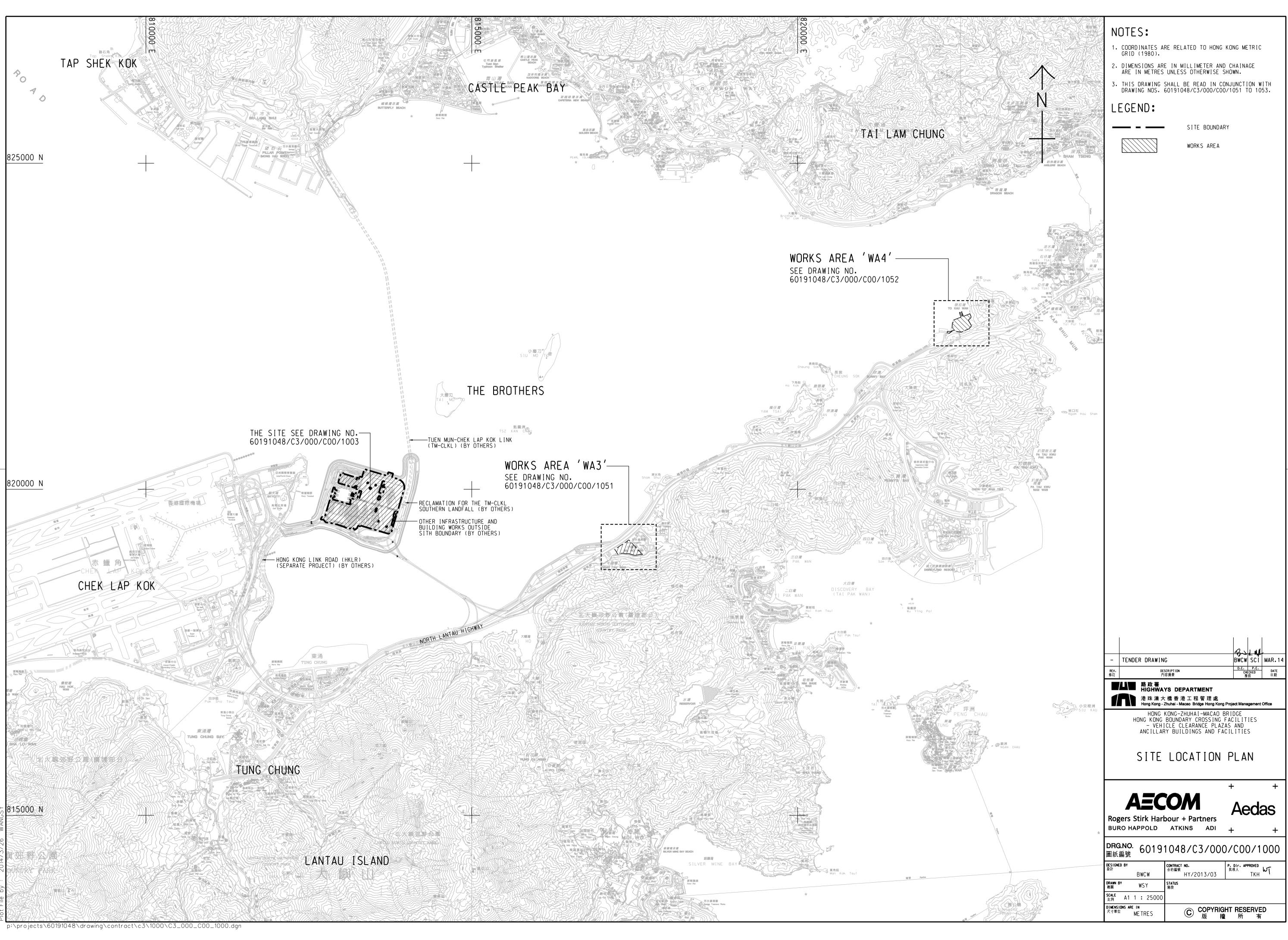
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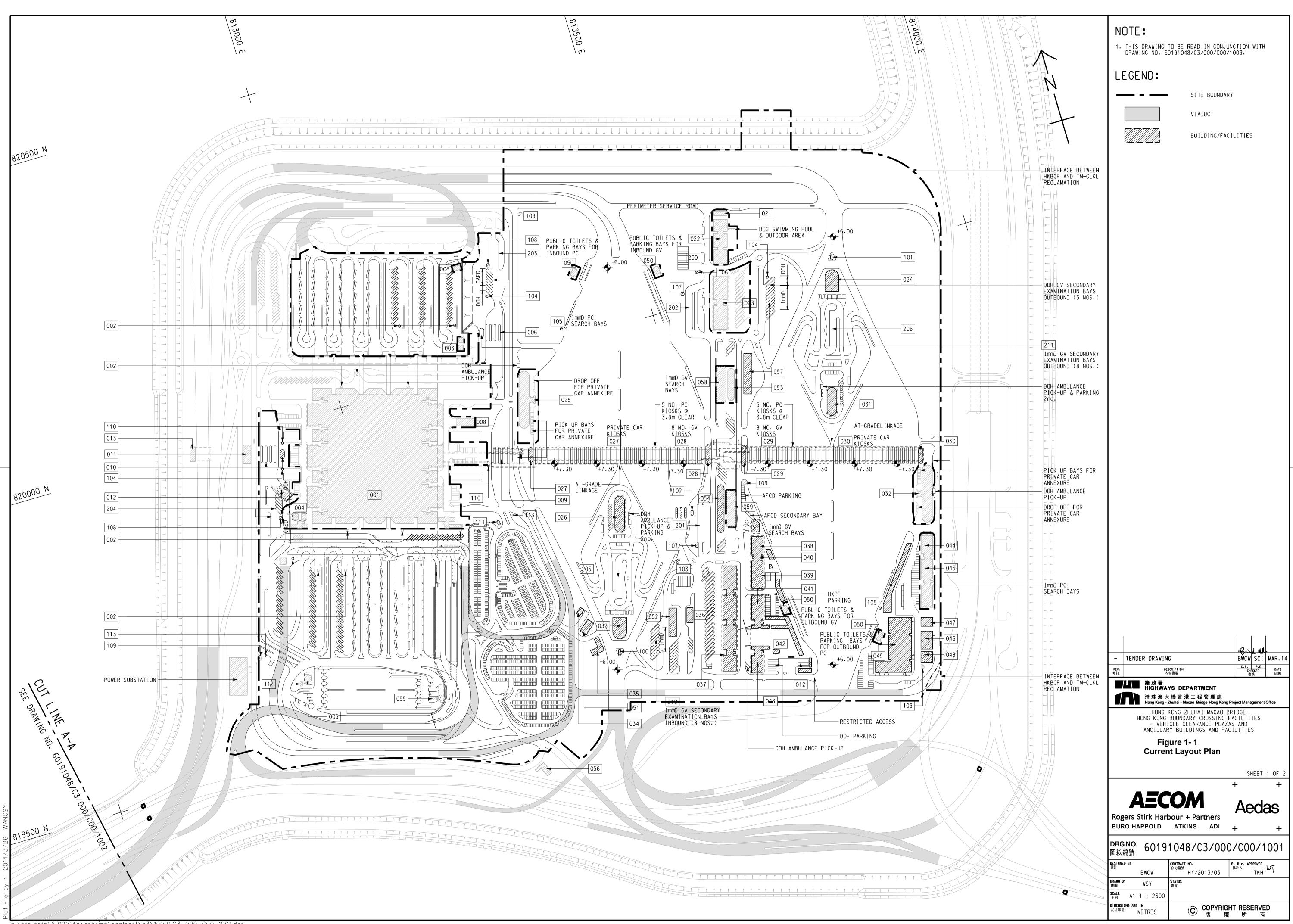


Report No.: 0165/15/ED/0310

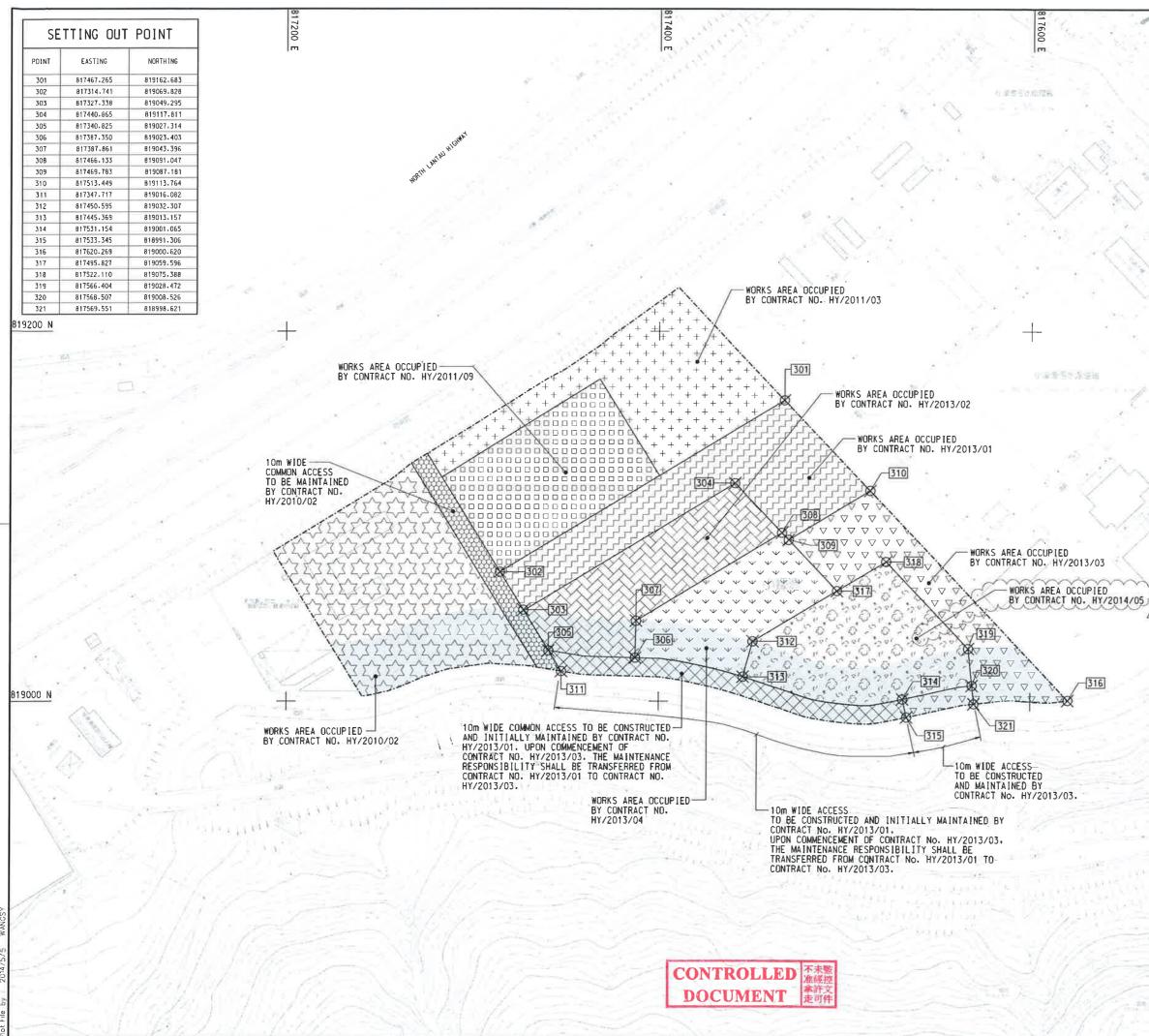
Appendix A

Location of Works Areas





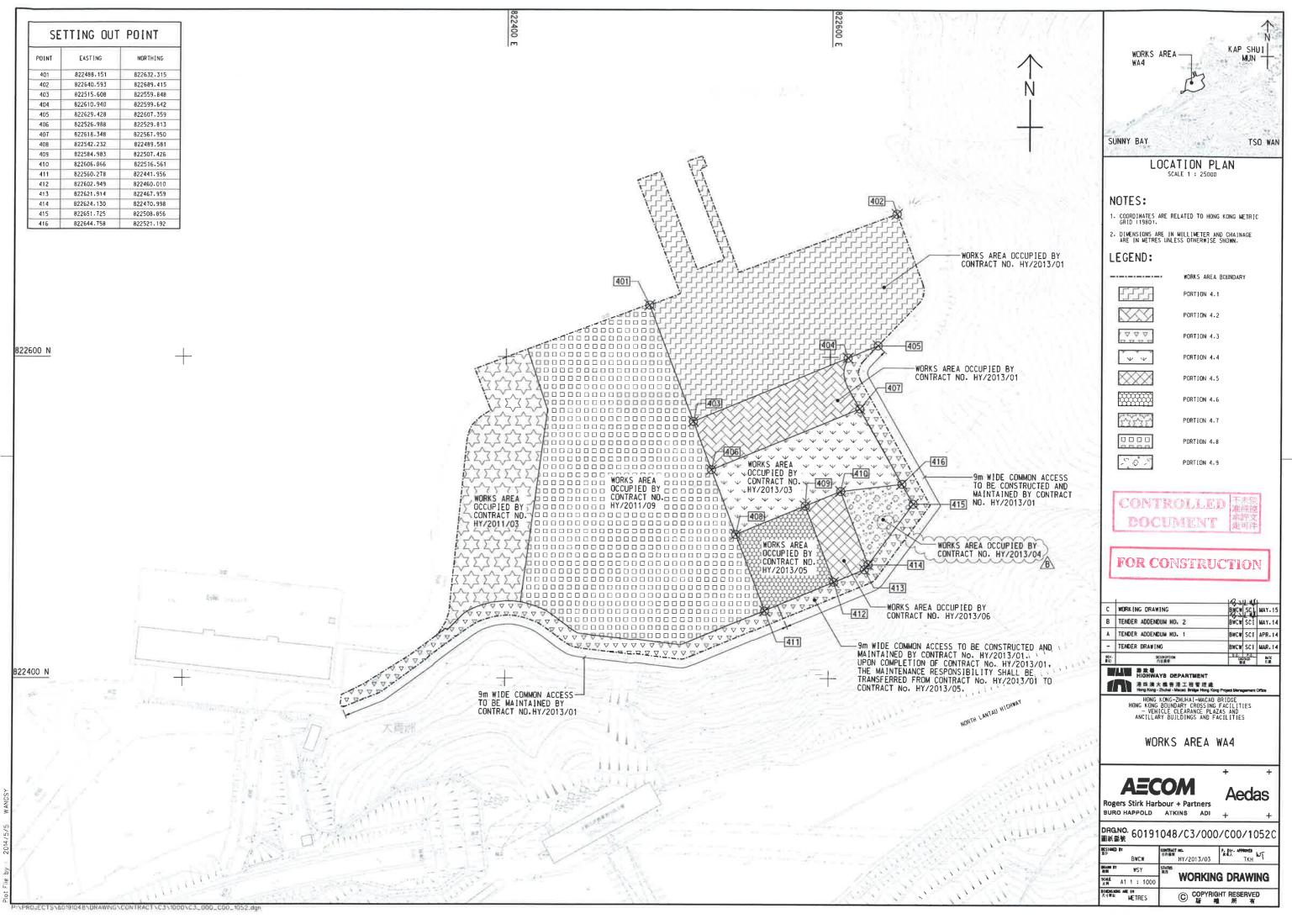
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Appendix B

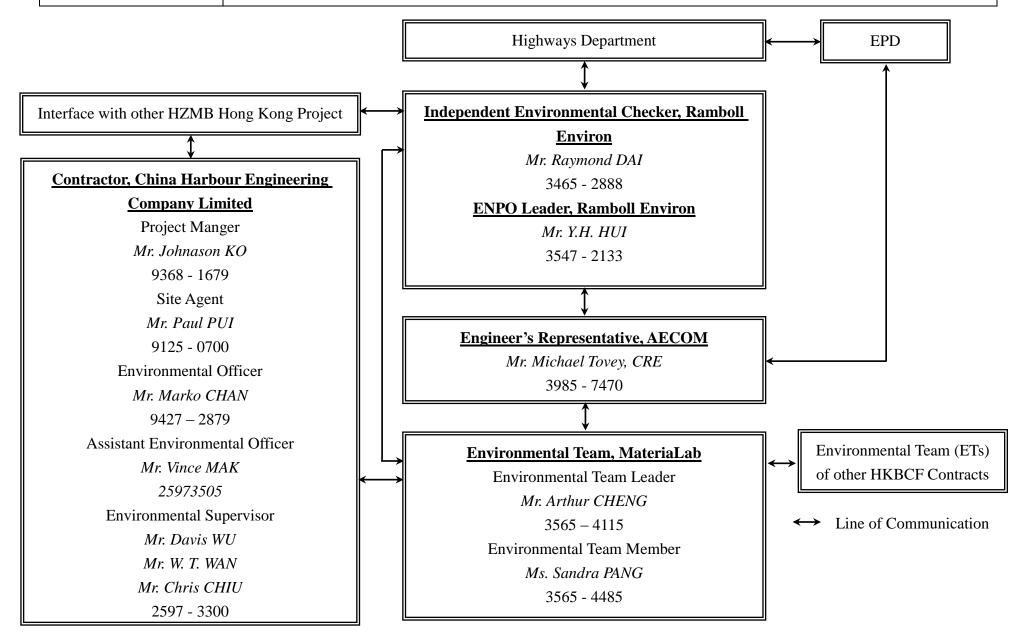
Project Organization for Environmental Works

CHINA HARBOUR ENGINEERING COMPANY LIMITED



Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Projects Organization for Environmental Works



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

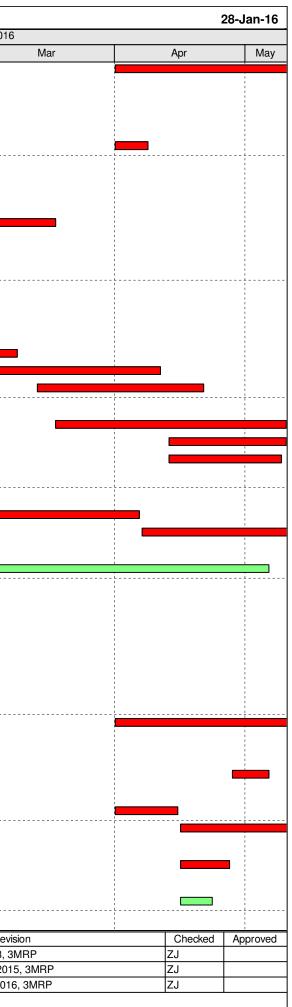
Construction Programme

its (ID		d Ancillary Buildings and Facilities Original Remaining % Complete Start Finish Tot		Total Elect			28-Jan-16				
ity ID	Activity Name	Duration	Remaining Duration	% Complete Start	Finish	Total Float	Jan	Feb	2016 Mar	Apr	Ма
IKBCF - V	/CP DRMs Programme, (IWP 04), UD 310116						Gui		, incl		
	CT DATES										
Key Dates											
A1040	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec. 15)	0	0	0%	31-Jan-16*	-46		KD4 Achievement of S	tage 3B of the Works (25	0 days; 15 Dec. 15)	
Site Acces	s & Possession										
Possessio	on of Portion of Site						·;				
A0010	Possession of Portion A1 (<= 70 days)	0	0	0%	31-Mar-16*	-287				Possession of Port	tion A1 (<
A0020	Possession of Portion A2 (<= 75 days)	0	0	0%	31-Mar-16*	-282				Possession of Port	tion A 2 (<
A0030	Possession of Portion B (<=100 days)	0	0	0%	31-Mar-16*	-257				Possession of Port	tion B (<
A0060	Possession of Portion E (<=160 days)	0	0	0%	01-Apr-16*	-198	1 1 1		 	Possession of Por	rtion E (⊷
A0090	Possession of Portion H1 (<=273 days)	0	0	0%	31-Jan-16*	-23		Possession of Portion	• •		
A0100	Possession of Portion H2 (<=273 days)	0	0	0%	31-Mar-16*	-84				Possession of Port	ion H2 (•
Section/St	tage Subject to Excision										
A0710	Contract Date for Section IA (273 days, latest date when the Engineer may order)	0	0	100% 04-Jan-16 A				Section IA (273 days, latest	_		
A0720	Contract Date for Section IB (273 days, latest date when the Engineer may order)	0	0	100% 04-Jan-16 A			 Contract Date for 	Section IB (273 days, latest	_		
A0730	Contract Date for Section IIA (345 days, latest date when the Engineer may order)	0	0	0% 19-Mar-16*		0			♦ Contra	ct Date for Section IIA	(345 day
A0740	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-197		 Contract Date for Section 	on IIB (100 days, latest d	ate when the Enginee	r may or
A0750	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	0	0	0% 23-Feb-16*		0		◆ Co	ntract Date for Section IIC	C (320 days, latest date	e when t
A0760	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-24		 Contract Date for Section 	on III (273 days, latest da	ate when the Engineer	may or
A0810	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-27			on IX (270 days, latest da		r may oro
A0820	Contract Date for Section X (270 days, latest date when the Engineer may order)	0	0	100% 04-Jan-16 A			Contract Date for	Section X (270 days, latest o	date when the Engineer n	nay order)	
A0830	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-27		 Contract Date for Stag 	e 20 (270 days, latest dat	te when the Engineer r	may ord
A0840	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-27			e 21 (270 days, latest dat		
A0850	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	0% 31-Jan-16*		-27			e 22 (270 days, latest dat		may ord
A0860	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)	0	0	100% 04-Jan-16 A				Stage 23 (270 days, latest d			, , , , , ,
A0870	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)	0	0	100% 04-Jan-16 A			 Contract Date for 	Stage 24 (270 days, latest d	ate when the Engineer m	nay order)	
PRELIMIN	IARY										
A0610	Mobilization of Plant	70	30	57.14% 10-Apr-15 A	29-Feb-16*	-256					
Precast Ya	rd for Bridge Segment										
A0620	Engineering Service and Factory Preparation	120	71	40.83% 01-Dec-15 A	30-Apr-16	-138	1 1 1 1 1				
PORTION	IA1						· · · · · · · · · · · · · · · · · · ·				
Portion A1	Structures										
Bridge A9)										
Bored Pile											
						_	Date	• [Revision	Checked	Appro
Actual Actual	-			REE MONTH ROLLING			30-Nov-			ZJ	1.44.0
	ning Work	VEHICLE	CLEARANCE	PLAZAS AND ANCILL	ARY BUILDIN	IGS AND F	ACILITIES 31-Dec-			ZJ	
Critical				Page 1 of 6			30-Jan-1	6 DRMs updated as of 31 J		ZJ	

/ ID	Indary Crossing Facilities - Vehicle Clearance Plazas	Original	Remaining 9		Start	Finish	Total Float				2016
		Duration	Duration					Jan		Feb	2010
S91015	Bored piles for P904, A905, 4nos	58	58	0% 0)1-Apr-16	11-Jun-16	18				
Box Culve	-										
Bored Pile											
SD0040	Bored Piling for Box Culvert D 45 nr. (8 no. done)	128	102	20% 0)5-Oct-15 A	04-Aug-16	-34				
						U U					
SD0080	Box Culvert D Pile Testing (Stage 1)	7	7	0% 0)1-Apr-16	09-Apr-16	-34		1		
SD0090	Box Culvert D Pile Testing (Stage 2)	7	7	0% 2	26-Apr-16	04-May-16	-34		1		
	rt D Construction										
	Box Culvert D Construction (Stage 1)	50	50	0% 1	1-Apr-16	10-Jun-16	139		1		
	age Treatment Plant, Portion A1 & A2								1		
A04940	Bored Piling (39 Nr.)	148	144	2.5% 2	29-Dec-15 A	30-Jul-16	-202				1
	Buildings										
036 - Weig											
A03630	Super Structure	90	0	100%)6-Oct-15 A	12-Jan-16 A					
A03640	Finishing	120	102	1.50/_ 1	3-Jan-16 A	03- <u>Aug</u> 16	178				
703040	i məning	120	102	13%	10-0a11-10 A	00-Aug-10	1/0				
A03670	BS for Office Accomodation (Stage 8)	90	72	20% 1	3-Jan-16 A	28-Jun-16	118				
A03690	Other BS + E&M Instaalation	180	126	30% 0)2-Nov-15 A	31-Aug-16	224				
									1		
037 C&ED	Tower Cum Inbound Cargo Examination Building (F	Portion A1 & B)									
A03720	Substructure	50	13	75% 1	3-Oct-15 A	16-Apr-16	-158				
A03730	Super Structure	110	88	20% 0)2-Jan-16 A	02-Aug-16	-158				
				100/							
A03790	Other BS + E&M Installation	235	212	10% 1	5-Dec-15 A	11-May-17	22				
0/1 Eiro S	tation Cum Ambulance Deport								1		
A04100	Excavation + Blinding	14	14	0%)1-Apr-16	18-Apr-16	-144		· · · · · · · · · · · · · · · · · · ·		
A04100	Substructure	84	84		20-Apr-16	30-Jul-16	-145				
042 Drill T				0 /0 2		00 001 10	143				
A04210	Driven Piles 16 Nr.	15	15	0% 0)1-Apr-16	19-Apr-16	-145				1
A04210	Piling Test	10	10		20-Apr-16	30-Apr-16	-70				
	sforms (Zone 4)	10	10	0 /0 2		0070110	70				
A05230	Fitting out works in Tx Room to CLP (KD4)	55	0	100% 0	2-Nov-15 A	27-Jan-16 A					
100200			0	100 /0 0		27 0411 1071					
A05235	Energisation by CLP	50	50	0% 0)1-Feb-16	06-Apr-16	292				
A05240	BS Installation (KD9)	66	40)2-Nov-15 A	· ·	215				1
A05250	Finishing (KD10)	87	61	30% 1	4-Dec-15 A	19-Apr-16	215				1
									, , , , , , , , , , , , , , , , , , ,		
A05260	Completion of remaining works	66	66	0% 1	9-Apr-16	09-Jul-16	269				
	orks for Portion A1										
Drainage	Works										
B00010	Initial Survey	6	6	0% 1	7-Aug-15 A	08-Apr-16	-231				
SG0020	Drainage Works (4210m & 76MHs)	250	248	1% 1	6-Sep-15 A	22-May-17	-127				
A	Novic						-		Date		Revis
Actual V	vork ing Work							30-N		Works Pogramr	
Critical		VEHICLE	CLEARANCE		ND ANCILL Page 2 of 6	ART BUILDIN	GS AND F	31-D	ec-15 DRM	Is updated as of 3	31 Dec. 201
Unitical	ne				1 aye 2 01 0			30-Ja	an-16 DRM	Is updated as of 3	31 Jan. 2016

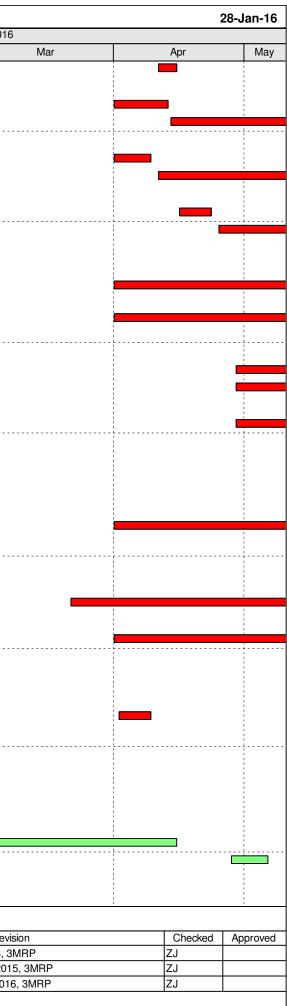


y ID	Activity Name	Original Duration	Remaining % Duration	6 Complete	Start	Finish	Total Float				2016
SG0030	Sewerage (1063m & 30MHs)	250	250	0.9/	01-Apr-16	02-Feb-17	-41	Jan		Feb	
PORTION		250	250	0%	01-Api-16	02-Feb-17	-41				
	orks for Portion A2										
Drainage						· · · · · · · · · · · · · · · · · · ·					- - - -
	Initial Survey	6	6	0%	01-Apr-16	08-Apr-16	-199		·		
PORTION											
Portion B S											
027 - Staff											
C02710	ELS + Blind (Bay 4 - 19) (16 Bay)	47	38	20%	27-Oct-15 A	18-Mar-16	-68				
0.00700											- - - -
C02720	Bay 4 - 13 Construction - Base Slab	21	15	30%	03-Nov-15 A	20-Feb-16	-27				
C02730	Bay 4 - 13 Construction - Wall + Top Slab	30	24	200/	15-Dec-15 A	02 Mar 16	-20				
002730	Bay 4 - 13 Construction - Wall + Top Slab		24	20%	15-Dec-15 A	02-10181-10	-20				
C02740	Bay 14-19 Construction - Base Slab	21	19	10%	06-Jan-16 A	25-Feb-16	-31				
002710				1070		2010010					
C02750	Bay 14-19 Construction - Wall + Top Slab	30	30	0%	01-Feb-16	09-Mar-16	-26				;
C02760	Internal Finishes & Cable Containment (KD1)	30	30	0%	03-Mar-16	11-Apr-16	-15				
C02770	BS + E&M Installation for ACVSS (Stage 1)	30	30	0%	14-Mar-16	21-Apr-16	-15				
029 - Staff	Subway										
C02910	ELS + Blind (Seg. 28-36) (9 Bay)	40	40	0%	18-Mar-16	10-May-16	-68				
C02920	Seg. 28-32 Construction - Base Slab	22	22	0%	13-Apr-16	10-May-16	-68				
C02940	Seg. 33-36 Construction - Base Slab	21	21	0%	13-Apr-16	09-May-16	-68				
Portion B E	Buildings	· · · · · · · · · · · · · · · · · · ·									
027/028 In	bound Kiosks & 029 Outbound Kiosks										
A02700	Submission & Approval for Steel Works	50	50	0%	01-Feb-16	06-Apr-16	-114				
A02710	Pre-fabrication for the Steel Kiosks	100	100	0%	07-Apr-16	05-Aug-16	-114				
027/028 In	bound Kiosks & 029 Outbound Kiosks, Section IX,	Subject to Excision			-						
B02730	Submission & Approval for Steel Works	75	75	0%	01-Feb-16	06-May-16	1				
026 Inbou	nd IMMD and DOH Secondary Screening Building										
A02610	Excavation + Blinding (PL test 5-8/1/16)	10	0	100%	12-Jan-16 A	16-Jan-16 A					
A02620	Raft Foundation	40	32	20%	18-Jan-16 A	21-Nov-16	-189				
054 Inbou	nd Fixed X-ray Building										
A05420	Excavation + Blinding (PL test 12- 16/1/16)	10	0	100%	20-Jan-16 A	25-Jan-16 A					
A05430	Substructure	50	50	0%	26-Jan-16 A	01-Jun-16	-197				
	04										
038 AFCD			7	0.0/	00 4 7 7 10	00 May 10	100				
A03810	Excavation + Blinding	7	7	0%	28-Apr-16	06-May-16	-130				
	Main Building		10			1.5.1.10					
A03910	Excavation + Blinding	12	12		01-Apr-16	15-Apr-16	-197				
A03920	Substructure	70	70	0%	16-Apr-16	11-Jul-16	-197				
	nt Control Tower	1									
A04010	Excavation + Blinding	10	10	0%	16-Apr-16	27-Apr-16	-137				
	UVSS Monitor Room										
A10200	Excavation + Blinding	7	7	0%	16-Apr-16	23-Apr-16	11				
103 Police	Inspection Post										
Actual V	Vork		THR		H ROLLING	PROGRAMME		Da			Rev
Remain	ing Work	VEHICLE	CLEARANCE	PLAZAS	AND ANCILL		GS AND FAC	CILITIES 30-Nov		orks Pogramme	
		1						31-Dec	רי אואיטן אוויט	updated as of 31	
Critical					Page 3 of 6			30-Jan-		updated as of 31	1. Jan 201



ivity ID Activ	<i>r</i> ity Name	Original Duration	Remaining 9 Duration	6 Complete	Start	Finish	Total Float				20
						45 4 40		Jan		Feb	
	avation + Blinding	5	5	0%	11-Apr-16	15-Apr-16	-100				
057 Transforme		10	10	00(01.4	10 1	007				-
	avation + Blinding	10	10		01-Apr-16	13-Apr-16	-207				
	t Foundation	52	52	0%	14-Apr-16	16-Jun-16	-207		· <mark>-</mark>		+
	bile X-ray Operation Office (Cargo), Portion B		,								
	avation + Blinding	7	7		01-Apr-16	09-Apr-16	-189				-
	Foundation	32	32	0%	11-Apr-16	19-May-16	-189				
	k for Access Control, Portion B			,		,					
	avation + Blinding	7	7		16-Apr-16	23-Apr-16	-53				
B11320 Raf	tFoundation	32	32	0%	25-Apr-16	02-Jun-16	-53				-
External Works	for Portion B										į
Drainage Works	\$										
	inage Works (7812m & 168MHs)	300	291	3%	17-Dec-15 A	22-Mar-17	-94				Ì
SG3580 Sev	<i>v</i> erage (1175m & 32MHs)	300	297	1%	02-Jan-16 A	29-Mar-17	-105				1
							1				
Waterpipe Layi	ng										
SW1550 Free	sh Water Main Laying (1972m)	300	300	0%	29-Apr-16	05-May-17	-105				į
SW1560 Flue	shing Water Main Laying (1851m)	300	300	0%	29-Apr-16	05-May-17	-105				-
Duct Laving for	Utilities/Telecom Cabling, TCSS & Lighting	· · ·			-						
	t Laying for Utilities/Telecom Cabling	300	300	0%	29-Apr-16	05-May-17	-105				-
	S 306A & ADS 306B								·		i
	n Gantry ADS 306B SI Drilling, 2 Nr.	6	0	100%	11. lan-16 A	27-Jan-16 A					
SSU070 Sigi	r danti y ADO 000D Of Dininig, 2 Wr.	0	U	100 /8	II-Jan-TOA	27-0an-10A	1		•		ļ
SS0110 Sigi	n Gantry ADS306A SI Drilling, 2 Nr.	7	0	100%	11-Jan-16 A	30-Jan-16 A					
COULIE CIGI	raanii y Abooon or brining, 2 Mi.		Ŭ	100 /0			1				Ì
SS5230 Sub	mission and approval for Sign Gantry	147	147	0%	01-Apr-16	26-Sep-16	-147				
PORTION C											
Portion C Buildi	200	<u>, </u>									
	Coach Kiosk & Staff Subway Entrance					(Ì
	structure and Staircase Construction	60	60	0%	22-Mar-16	06-Jun-16	-157				-
	is Kiosk & Staff Subway Entrance					,			1		
A00910 ELS	6 + Blinding (Bay 0-3) (4 bay)	42	42	0%	01-Apr-16	23-May-16	-179		 		
PORTION E											}
External Works	for Portion E										į
Drainage Works	s										
	al Survey	6	6	0%	02-Apr-16	09-Apr-16	-27				į
PORTION G. H		Ŭ	Ũ	0 /0		00,10,10					
Portion G Struct	ures										-
Bridge A1											1
Bored Pile											-
S10110 Pre	drill SI, 10 nos.	30	0	100%	07-Dec-15 A	09-Jan-16 A					-
											-
	e pile, 10 nos.	58	58		01-Feb-16	15-Apr-16	53				
	Testing	7	7	0%	28-Apr-16	06-May-16	53				
Bridge A2											
Bored Pile											
									-		
Actual Work								Da			Re
A . L		1		EE MANUT		PROGRAMME	-	i Da			

Actual Work	THREE MONTH ROLLING PROGRAMME		Revi
Remaining Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	30-Nov-15	Initial Works Pogramme Rev. 3, 3
		31-Dec-15	DRMs updated as of 31 Dec. 201
Critical	Page 4 of 6	30-Jan-16	DRMs updated as of 31 Jan. 201
◆ ◆ Milestone			



y ID	ndary Crossing Facilities - Vehicle Clearance Plazas a	Original	Remaining 9		Start	Finish	Total Float			201
, .D		Duration	Duration	oompiete	otart			Jan	Feb	2010
S21410	Bore pile + P301 + P601, (6 + 4) Nr., 6 no. done	73	29	60%	26-Nov-15 A	09-Mar-16	-110			
S21820	Pile Testing	7	7	0%	19-Mar-16	31-Mar-16	81			
Pile Cap	10						i======			
S21850	Cap - Pier P205	30	30	0%	31-Mar-16	07-May-16	81			
Bridge A6										
Bored Pile										
S63510	Bore pile for P606, A607/A711, 6 Nr.	46	46		01-Feb-16	31-Mar-16	-155			·
S63520	Bore pile for other 8 Nr. (P602/P2)	58	57	1%	11-Jan-16 A	11-Jun-16	-155			
S63720	Pile Testing for 606, A607/A711	7	7	0%	13-Apr-16	20-Apr-16	-125			
S63725	Pile Testing for P601	7	7		22-Mar-16	02-Apr-16	-110			
Pile Cap										1
S63410	Cap - P606, P607/711	40	40	0%	21-Apr-16	08-Jun-16	-125		 	
S63420	Cap - P601	30	30	0%	02-Apr-16	10-May-16	-110			
Bridge A7a										
Bored Pile						1				
S74150	Predrill SI for P701, P702 - P705, 10 Nr.	30	30		01-Feb-16	09-Mar-16	8			1
S74160	Bore Piling for P706, P707, P712, 6 Nr. (2 Nr. done)	44	26	40%	14-Dec-15 A	06-Sep-16	-138			
S74170	Bore Piling for A701, P702 - P705, 10 Nr. (1 Nr. done)	42	38	10%	20-Nov-15 A	24-Sen-16	-116			·
0/41/0		72	00	10 /0	201100 107					
Bridge A8										
Bored Pile										
S86130	Bore pile P802, P803, A804, 6 Nr.	87	87	0%	13-Apr-16	27-Jul-16	-22			
Portion G B	uildings									
033 Inboun	nd Private Car Exam Building									
A03300	Excavation + Blinding (PL Test 20 - 23/1/16)	10	9	10%	25-Jan-16 A	21-Jun-16	-46			
035 - Sewa	ge Pumping Station, Portion G									
A03525	Approval of Rockhead & Founding	14	0	100%	11-Jan-16 A	25-Jan-16 A			1	
A03530	Bored piling (5 nr.)	46	46	0%	26-Jan-16 A	12-Apr-16	-22			1
A03540	Sheet Piling as ELS for Wet Well	12	12	0%	13-Apr-16	26-Apr-16	-22		 	
A03550	Pile Testing, 5 Nr.	7	7		27-Apr-16	05-May-16	-22			
	ormers (Zone 5)		· ·	0 / 0	2776710	oo may ro				
A05100	Excavation + Blinding (PL test 20 - 23/1/16)	5	4	20%	27-Jan-16 A	03-Jun-16	-151			
External Wo	orks for Portion G, H1 & H2									
Sign Gantr	ry DS40, DS41 & DS75									
SS0050	Sign Gantry DS75 SI Drilling, 2 Nr.	7	0	100%	08-Dec-15 A	08-Jan-16 A				
SS0170	Submission and approval for Sign Gantry	90	90	0%	01-Feb-16	25-May-16	-44			
PORTION	J									
Portion J St	tructure									1
030 Outbou	und Private Car & GV Kiosks								 	
A03010	Submission & Approval for Steel Works	60	60	0%	01-Feb-16	18-Apr-16	-33			
A03020	Pre-fabrication for the Steel Kiosks	84	84	0%	19-Apr-16	29-Jul-16	-33		1	
								D-1-		D - 1
Actual W						PROGRAMM		Date 30-Nov-15	Initial Works Pogramr	Revi me Rev. 3, 3
Remainir	ng Work	VEHICLE	CLEARANCE	PLAZAS /		ARY BUILDIN	IGS AND FACILI	IES 31-Dec-15	DRMs updated as of	
Critical		1			Page 5 of 6			30-Jan-16		31 Jan. 2010



ivity ID	Activity Name	Original		% Complete	Start	Finish	Total Float			2016		6	
		Duration	Duration				1 1	Jan	Feb	Mar	Apr	Ma	
030 Outbo	ound Kiosks, Section IX, Subject to Excision												
C03010	Submission & Approval for Steel Works	100	100	0%	01-Feb-16	06-Jun-16	-24			1		<u> </u>	
External Wo	orks for Portion J										r		
Sign Gant	try DS104											-	
SS0130	Sign Gantry DS104 SI Drilling, 2 Nr.	12	0	100%	18-Dec-15 A	04-Jan-16 A							
PORTION	N												
Portion N S	Structure												
Box Culve	ert B												
Bored Pile													
SB0510	Box B - Predrill SI, 30 nos.	30	14	53.33%	01-Dec-15 A	19-Feb-16	105						

Actual Work	THREE MONTH ROLLING PROGRAMME	Date	Rev
Remaining Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	30-Nov-15	Initial Works Pogramme Rev. 3, 3
5		31-Dec-15	DRMs updated as of 31 Dec. 201
Critical	Page 6 of 6	30-Jan-16	DRMs updated as of 31 Jan. 201
 ♦ Milestone 			-

evision	Checked	Approved
, 3MRP	ZJ	
015, 3MRP	ZJ	
016, 3MRP	ZJ	

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Report No.: 0165/15/ED/0310

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring

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

Event / Action Plan for Air Quality

Event		Ac	tion	
	ET	IEC	ER	Contractor
2. 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. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

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

Event		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. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 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. 	 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 ER until the exceedances abated. 			

Event / Action P	Plan for Construction	Noise Monitoring

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

Event		Act	tion	
210111	ET	IEC	ER	Contractor
Limit Level	 Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 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. 	 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 ER until the exceedance is abated.

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Report No.: 0165/15/ED/0310

Appendix E

Waste Flow Table



Contract No. HY/2013/03 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 <u>2016</u> (year)

Name of Person completing the Record: Marko Chan

	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general
	Generated	(see Note 1)		Projects				packaging (see Note 2)	refuse	
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)
Jan	4.022 ⁽³⁾	0	0	0	4.022 ⁽³⁾	0	0	0	0	0.073
Feb										
Mar										
Apr										
May										
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	4.022	0.000	0.000	0.000	4.022	0.000	0.000	0.000	0.000	0.073

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Marine Disposal to CMP2 under Dumping at Sea Ordinace.

Tel

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Appendix F

Environmental Licenses and Permits

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

Itom	Dormit/Liconce Desistration	Permit No.	Work Area	Application Date	Issue Date	Valid	Date	Status	Remark
Item	Permit/Licence Registration	Permit No.	work Area	Application Date	Issue Date	From	То	Status	
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/I	HKBCF	30-Jun-15	17-Jul-15	17-Jul-15	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	14-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	28-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022391-2015	Main Site Area	05-May-15	04-Sept-15	04-Sept-15	30-Sept-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1203-15	CUE	20-Oct-15	03-Nov-15	02-Nov-15	31-Jan-16	Superseded By GW-RS1388-15	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1315-15	Portion G	12-Nov-15	26-Nov-15	28-Nov-15	28-Feb-16	Valid	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0029-15	Drill Tower	27-Nov-15	11-Dec-15	14-Dec-15	13-Apr-16	Valid	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1388-15	Main Site Area	02-Dec-15	16-Dec-15	21-Dec-15	18-Mar-16	Valid	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0035-16	Main Site Area	31-Dec-15	14-Jan-16	18-Jan-16	17-Mar-16	Valid	

(update: 19/01/2016)

Itom	Dormit/Licence Degistration	Permit/Licence Registration Permit No. Work Area	Annlingtion Data	Jagua Data	Valid Date		Status	Remark	
Item	Permit/Licence Registration	Permit No.	work Area	Application Date	Issue Date	From	То	Status	
14	Permit issued Under the Dumping at Sea Ordinance	EP/MD/16-121	South of Brothers (CMP2)	26-Oct-15	17-Dec-15	18-Dec-15	17-Jan-16	Valid until 17-Jan-16	
15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/16-161	South of Brothers (CMP2)	29-Dec-15	15-Jan-16	20-Jan-16	19-Feb-16	Valid	

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Report No.: 0165/15/ED/0310

Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality	I NOI.		measures	
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
\$5.5.6.2	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
\$5.5.6.2	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 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 	All construction sites	V
S5.5.6.2	A2	 top Cement or dry PFA delivered in bulk 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 	All construction sites	N/A

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		 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 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	 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 silos 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 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	N/A
\$5.5.2.7	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	V
Construction			A 11	V
S6.4.10	N1	 Use of good site practices to limit noise emissions by 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; 	All construction sites	v

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		 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. 		
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 compressor, generators, saw. 		N/A
S6.4.13	N4	 4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards. 	sites 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	N6	6) Implement a noise monitoring under EM&A programme.	Selected representat- ive noise monitoring station	V
Sediment			I	L
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
		Construction Waste)		
S8.3.8	WM1	 <u>Construction and Demolition Material</u> 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 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		disposal sites to the Project Proponent and get its		
\$8.3.9- \$8.3.11	WM2	 approval before implementation <u>C&D</u> Waste 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 should be considered for such 	All construction sites	V
\$8.2.12- \$8.3.15	WM3	 segregation and storage. <u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 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. 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. 	All construction sites	V
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 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		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.		
		uction Phase)		
S9.11.1.7	W2	Land Works	Land-based	V
		General construction activities on land should also be	works area	
		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;		
		storm drainage shall be directed to storm drains via		
		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 silt 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		
		silt 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;		
S9.11.1.7	W2	all vehicles and plant should be cleaned before they leave	Land-based	V
		the construction site to ensure that no earth, mud or	works area	
		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		

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		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 on sealed areas. The 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		
		oil/grease traps prior to discharge to the stormwater		
Ecology (Co	onstruction	system. Phase)	I	L
S10.7	E4	Watering to reduce dust generation; prevention of siltation	Land-based	V
		of freshwater habitats; Site runoff should be desilted, to	works areas	
		reduce the potential for suspended sediments, organics		
		and other contaminants to enter streams and standing freshwater		
S10.7	E5	Good site practices, including strictly following the	Land-based	V
01011	20	permitted works hours, using quieter machines where	works areas	v
		practicable, and avoiding excessive lightings during night		
0.40 -		time		
S10.7	E8	Control vessel speed Chinese training	Marine Traffic	V
		 Skipper training Predefined and regular routes for working vessels; avoid 	Traffic	
		Brother Islands.		
Fisheries	<u> </u>			
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); 	HKBCF	V
		Contingency plan.		
		Detailed Design Phase)	-	
S14.3.3.1	LV1	General design measures include:	HKBCF	V
		 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 hydro-		
		seeding 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 salt-tolerant native trees along the planter strip at affected seawall and people reclaimed seastline:		
		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),		
	<u> </u>	and the related infrastructure (e.g. parapet planting and		

EIA Ref.	EM&A Log	Recommended Mitigation Measures	Location of the	Implementation Status
Ref.			measures	Status
		 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		
Landscape	& Visual (C	surrounding vegetation in the HKBCF.		
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	HKBCF	N/A
		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 removedG7. 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. 		
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 low-level views to the Project during HKBCF construction.	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
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 	All construction sites	V
		implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.		

Legend: V = implemented;

N/A = not applicable

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/0310

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Report No.: 0165/15/ED/0310

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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Report No.: 0165/15/ED/0310

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/0310

Contract No. HY/2013/03

HZMB HKBCF - Vehicle Clearance Plazas and Ancillary Buildings and Facilities Weekly Environmental Site Inspection Schedule

Environmental Site Inspection Schedule for January 2016

Tel

			Jan-2016			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Public Holiday	2
3	4	5	6	7 Environmental Site Inspection	8	9
10	11	12	13	14 Environmental Site Inspection	15	16
17	18	19	20 Environmental Site Inspection	21	22	23
24	25	26	27	28 Environmental Site Inspection	29	30
31						

Tentative Environmental Site Inspection Schedule for February 2016

	Feb-2016								
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
	1	2	3	4 Environmental Site Inspection	5	6			
7	8 Public Holiday	9 Public Holiday	10 Public Holiday	11	12 Environmental Site Inspection	13			
14	15	16	17	18 Environmental Site Inspection	19	20			
21	22	23	24	25	26 Environmental Site Inspection	27			
28	29								