

## MATERIALAB CONSULTANTS LIMITED

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Report No.: 0165/15/ED/0102

### MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev.2)

**September 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/0102

Prepared by: Sandra Pang

Reviewed by: Bong Yu

Approved by: 

Arthur Cheng  
Environmental Team Leader

16 October 2015

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.  
The PRE's Offices  
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 September 2015**

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for September 2015 (Rev. 2) certified by the ET Leader (ET's ref.: "MCL/ED/0554/2015/C" dated 15 October 2015) and its further revision provided to us via e-mail on 16 October 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.

As per Condition 5.4 of the EP, ET is reminded that Monthly EM&A Report shall be submitted to the Director of Environmental Protection within 10 working days after the end of the reporting month.

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\HYDZHMBEEM00\02\_Proj\_Mgt\02\_Corr\HYDZHMBEEM00\_0\_3484L.15.doc

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Date 15 October 2015  
Our Ref. MCL/ED/0554/2015/C

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

BY HAND

Attn.: Mr. Raymond Dai, IEC

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 (Rev.2) for September 2015 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



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Arthur Cheng  
Environmental Team Leader

AC/sp

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Ms. Miranda 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 MaterialLab 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.

MaterialLab 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 1<sup>st</sup> Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 29 August 2015 to 30 September 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: 2, 11, 17 and 25 September 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 was no complaint reported in the reporting period.

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 A1, A2 & G;
- Piling, Building and Drainage at Portion A1.

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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 first EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor from 29 August 2015 to 30 September 2015 (reporting period) under Contract No. HY/2013/03 and is submitted to fulfil Condition 5.4 of the EP.

### 1.2 Project Description

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.



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### 1.3 Project Organisation

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 / Independent Environmental Checker (Ramboll Environ Hong Kong Limited) | Environmental Project Office Leader     | Mr. Y. H. Hui     | 3547 2133     | 3465 2899 |
|  | Independent Environmental Checker (IEC) | Mr. Raymond Dai   | 3465 2888     | 34652899  |
|  | Environmental Site Supervisor           | Mr. Ray Yan       | 5181 8165     | 3465 2899 |
| Contractor (China Harbour Engineering Co. Ltd)   | Site Agent                              | Mr. Paul Pui      | 9125 0700     | 2512 0427 |
|  | Environmental Officer                   | Mr. Marko Chan    | 9427 2879     | 2512 0427 |
| Environmental Team (MaterialLab Consultants Limited)   | Environmental Team Leader (ETL)         | Mr. Arthur Cheng  | 3565 4115     | 2450 8032 |
| 24-hr Complaint Hotline  | --                                      | --                | 5236 7111     | --        |

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

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

### 1.5 Construction Works Undertaken during the Reporting Period

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 & G
- Building and Drainage Works at Portion A1

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## 2 AIR QUALITY 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

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.

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 ( $\mu\text{g}/\text{m}^3$ ) | Limit Level ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------|---|--|
| <b>1 hour TSP</b>   |   |  |
| AMS6                | 360                                       | 500                                      |
| AMS7A               | 370                                       |  |
| <b>24 hours TSP</b> |   |  |
| AMS6                | 173                                       | 260                                      |
| AMS7A               | 183                                       |  |

The event and action plan is provided in **Appendix D**.

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

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.

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.

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### 3 NOISE MONITORING

#### 3.1 Monitoring Locations

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

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.

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                |
|--|---|----------------------------|
| <b>For the Time Period 0700-1900 hrs. on Normal Weekdays</b> |   |                            |
| NMS2   | When one documented complaint is received | 75.0 dB (A) Leq (30 min.)  |
| NMS3B  |   | 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

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, 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 2, 11, 17 and 25 September 2015 by the representatives of Engineer, Contractor, ET and IEC (IEC for 25 September 2015).

Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

#### 2 September 2015

No particular findings

#### 11 September 2015

CHEC was reminded to display EP on notice board in Portion A1. EP was displayed properly on the Environmental bulletin board at Portion A1 on the same day.

#### 17 September 2015

CHEC was reminded to provide drip tray for chemical containers at Portion A1. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

#### 25 September 2015

CHEC was reminded to label all chemical containers at Portion A1 and to provide drip tray for generator on site at Portion A1. 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.

The monthly summary of waste flow table is detailed in **Appendix E**.

There was no Inert C & D Materials and 0.034 (in'000m<sup>3</sup>) of Non-inert C & D Wastes and no 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).

The site activities include site clearance works, erection of site office at WA3, ground investigation at Portion G and site preparation work at Portion A1 contributed to the waste disposal during June 2015 to August 2015 prior to construction work commencement as indicated in **Appendix E**. These site activities generated 0.505 (in'000m<sup>3</sup>) of Inert C & D Materials and 0.136 (in'000m<sup>3</sup>) of Non-inert C & D Wastes during June 2015 to August 2015.

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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.

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**

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

### **6.4 Implementation Status of Environmental Mitigation Measures**

In response to the site audit findings, the Contractor carried out corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.

### **6.5 Summary of Exceedance of the Environmental Quality Performance Limit**

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.

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

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**

There was no complaint received in relation to the environmental impact during this reporting period.

There was no notification for summons or prosecutions received in relation to the environmental impact during this reporting period.

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

As informed by the Contractor, the following are the major construction activities anticipated in October 2015:

- Site Investigation at Portion A1, A2 & G;
- Piling, Building and Drainage at Portion A1

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

The tentative schedule for weekly site inspections for October 2015 is provided in **Appendix I**.



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### 8 CONCLUSION

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 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.

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

Environmental site inspections were carried out on 2, 11, 17 and 25 September 2015. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.

There was no complaint received in relation to the environmental impact during the reporting period and there were no notifications of summons or prosecutions received during the reporting period.

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Email : mcl@fugro.com.hk



**MaterialLab**

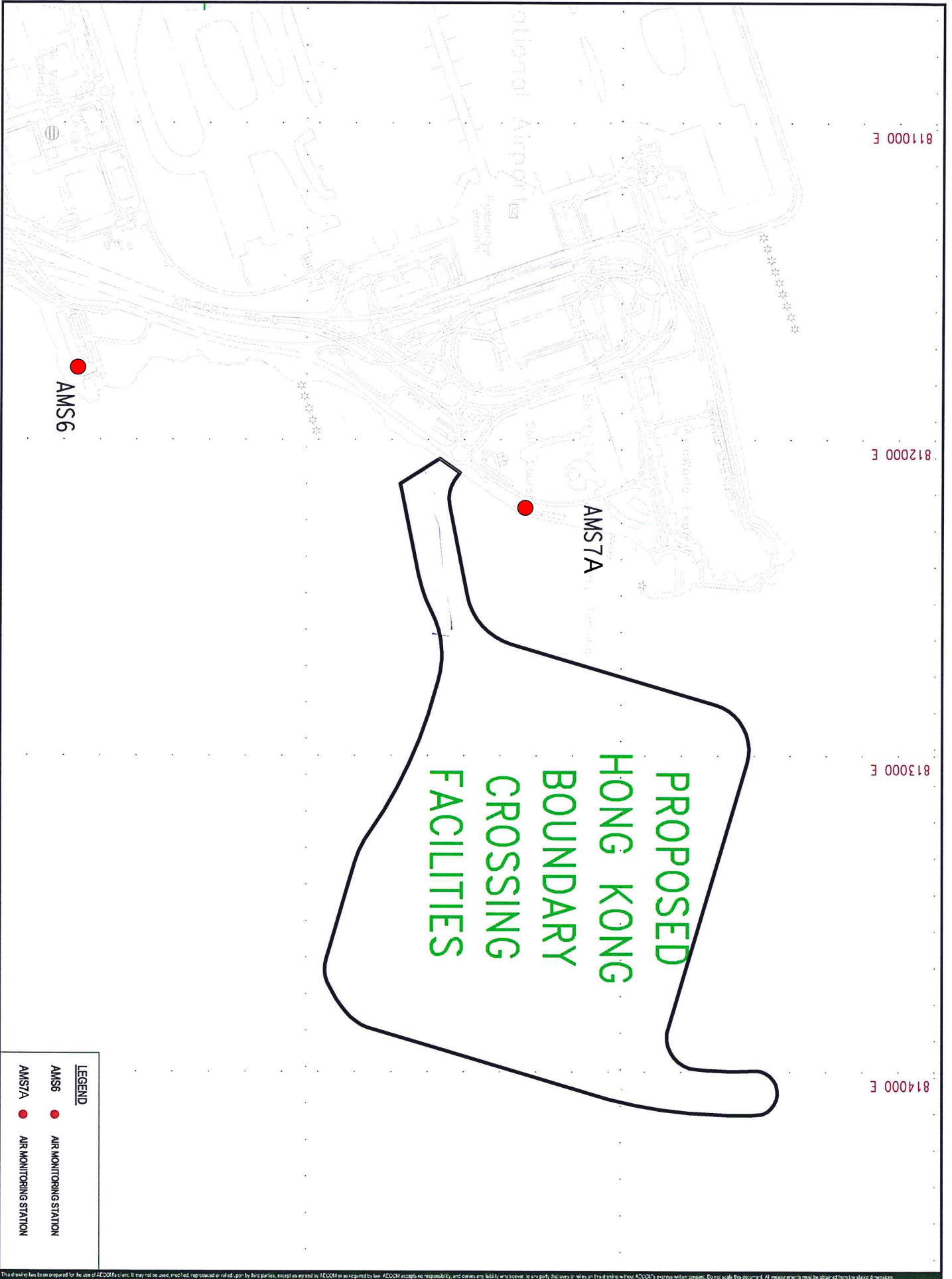
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Report No.: 0165/15/ED/0102

### **Figure 1**

#### **Air Quality Monitoring Stations**

**Figure 1 Location of Air Quality Monitoring Stations**



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### **Figure 2**

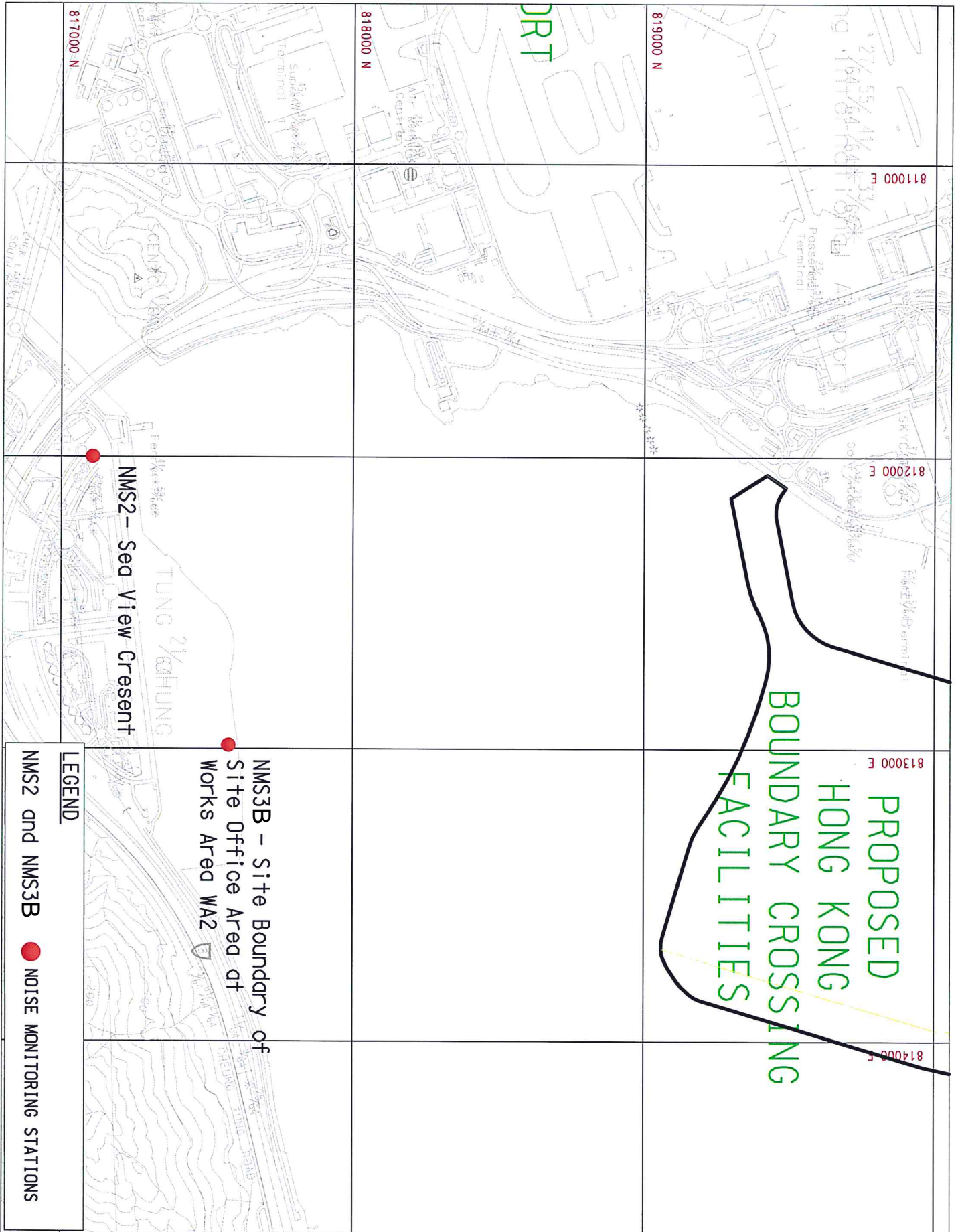
### **Noise Monitoring Stations**

**Figure 2 Location of Noise Quality Monitoring Stations**

Plot File by: LAMMCL 15/03/2012  
 PATH P:\0249820\1.01\CAD\Drawing\Figure\Figure 2(15mar).dwg

Project Management Initials: Checked:

ISO A3 297mm x 420mm



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**MaterialLab**

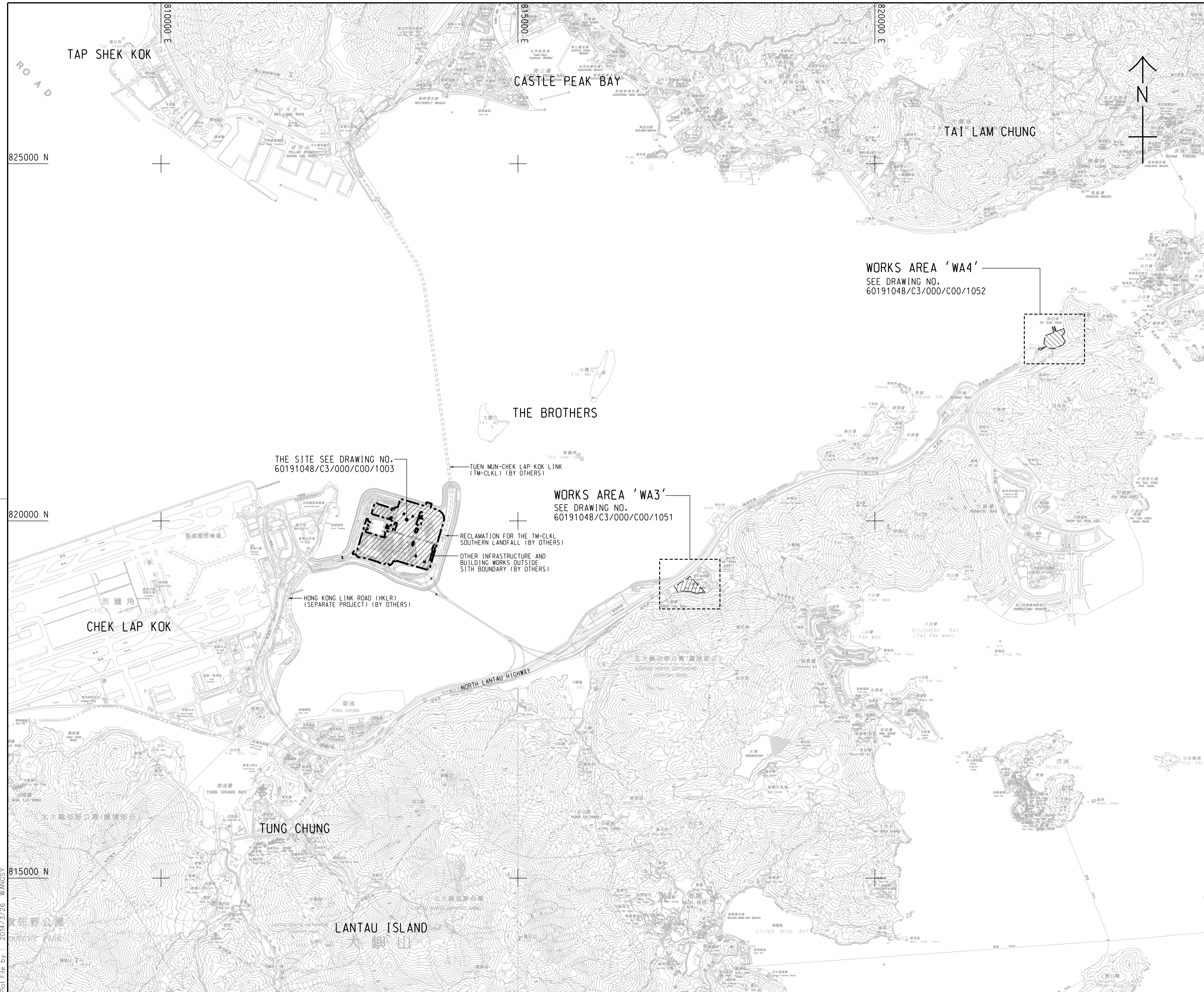
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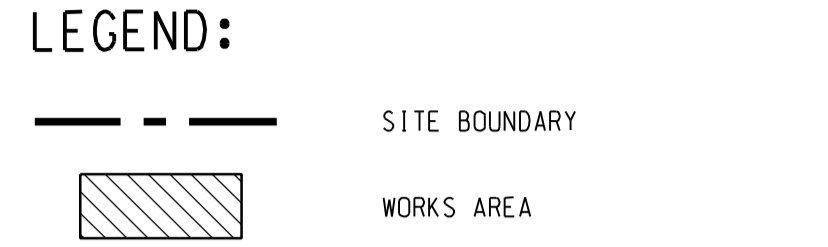
Report No.: 0165/15/ED/0102

### **Appendix A**

#### **Location of Works Area**



- NOTES:**
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
  - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C3/000/C00/1051 TO 1053.



THE SITE SEE DRAWING NO. 60191048/C3/000/C00/1003

TUEN MUN-CHEK LAP KOK LINK (TM-CKLK) (BY OTHERS)

WORKS AREA 'WA3'  
SEE DRAWING NO. 60191048/C3/000/C00/1051

RECLAMATION FOR THE TM-CKLK SOUTHERN LANDFALL (BY OTHERS)  
OTHER INFRASTRUCTURE AND BUILDING WORKS OUTSIDE SITE BOUNDARY (BY OTHERS)

HONG KONG LINK ROAD (HKLR) (SEPARATE PROJECT) (BY OTHERS)

WORKS AREA 'WA4'  
SEE DRAWING NO. 60191048/C3/000/C00/1052

|                  |                  |         |         |         |
|------------------|------------------|---------|---------|---------|
| - TENDER DRAWING |                  | BSC     | SCI     | MAR. 14 |
| REV. 修改          | DESCRIPTION 內容摘要 | D.C. 審核 | C.C. 校對 | DATE 日期 |

**路政署 HIGHWAYS DEPARTMENT**  
**港珠澳大橋香港工程管理處**  
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 - VEHICLE CLEARANCE PLAZAS AND  
 ANCILLARY BUILDINGS AND FACILITIES

**SITE LOCATION PLAN**

**AECOM** + +  
**Rogers Stirk Harbour + Partners** Aedas  
 BURO HAPPOLD ATKINS ADI + +

DRG. NO. 60191048/C3/000/C00/1000  
 圖紙編號

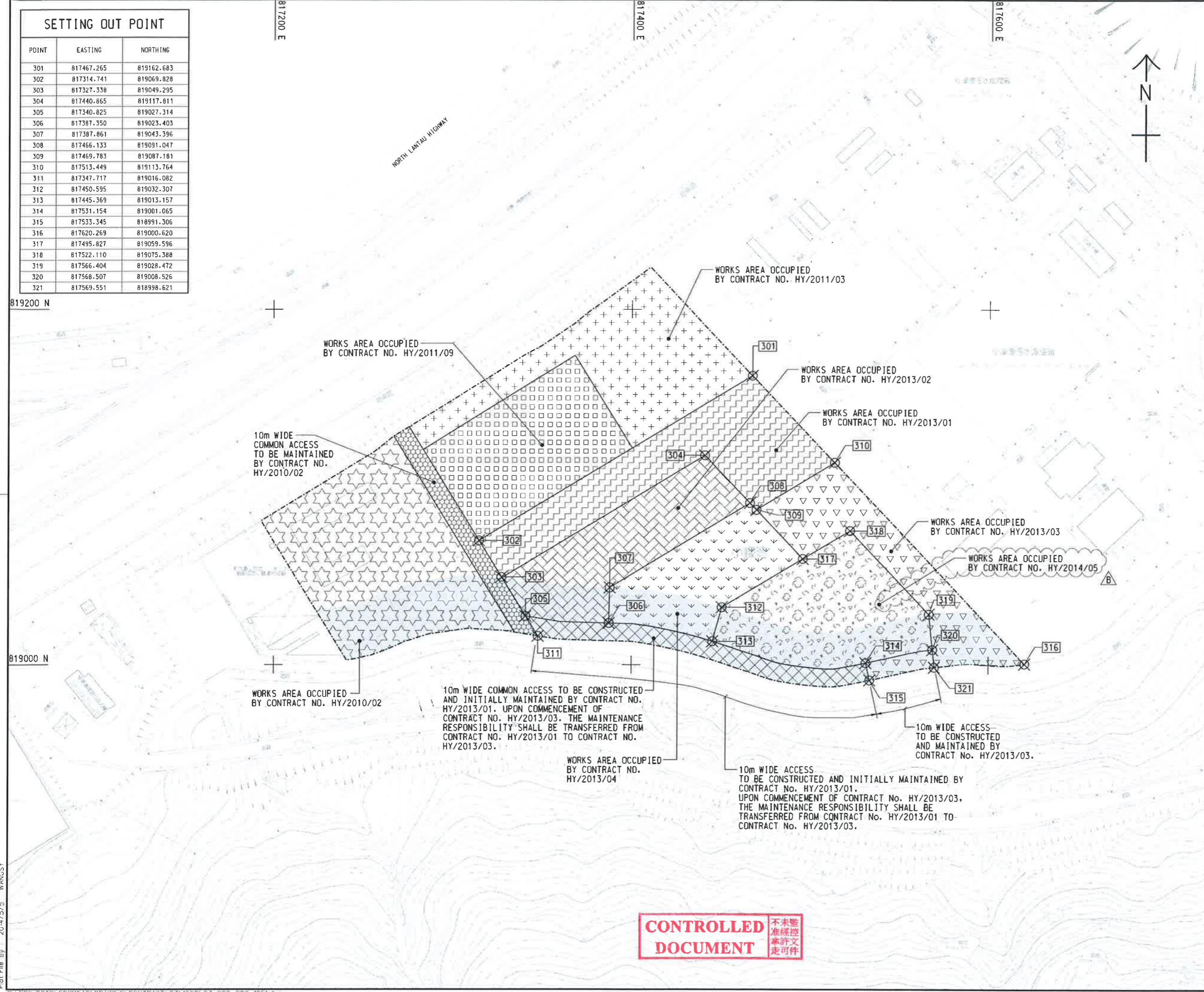
|                |                   |                      |
|----------------|-------------------|----------------------|
| DESIGNED BY 設計 | CONTRACT NO. 合約編號 | P. Dir. APPROVED 批准人 |
| BWCW           | HY/2013/03        | TKH                  |

|             |           |
|-------------|-----------|
| DRAWN BY 繪圖 | STATUS 階段 |
| WSY         |           |

SCALE 比例 A1 1 : 25000  
 DIMENSIONS ARE IN 尺寸單位 METRES  
 © COPYRIGHT RESERVED 版權所有

Plot File by : 2014/3/26 WANGSY

| SETTING OUT POINT |            |            |
|-------------------|------------|------------|
| POINT             | EASTING    | NORTHING   |
| 301               | 817467.265 | 819162.683 |
| 302               | 817314.741 | 819069.828 |
| 303               | 817327.338 | 819049.295 |
| 304               | 817440.865 | 819117.811 |
| 305               | 817340.825 | 819027.314 |
| 306               | 817387.350 | 819023.403 |
| 307               | 817387.861 | 819043.396 |
| 308               | 817466.133 | 819091.047 |
| 309               | 817469.783 | 819087.181 |
| 310               | 817513.449 | 819113.764 |
| 311               | 817347.717 | 819016.082 |
| 312               | 817450.595 | 819032.307 |
| 313               | 817445.369 | 819013.157 |
| 314               | 817531.154 | 819001.065 |
| 315               | 817533.345 | 818991.306 |
| 316               | 817620.269 | 819000.620 |
| 317               | 817495.827 | 819059.596 |
| 318               | 817522.110 | 819075.388 |
| 319               | 817566.404 | 819028.472 |
| 320               | 817568.507 | 819008.526 |
| 321               | 817569.551 | 818998.621 |



LOCATION PLAN  
SCALE 1 : 25000

- NOTES:
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
  - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

|  |   |
|--|---|
|  | WORKS AREA BOUNDARY                             |
|  | PORTION 3.1                                     |
|  | PORTION 3.2                                     |
|  | PORTION 3.3                                     |
|  | PORTION 3.4                                     |
|  | PORTION 3.5                                     |
|  | PORTION 3.6                                     |
|  | PORTION 3.7                                     |
|  | PORTION 3.8                                     |
|  | PORTION 3.9                                     |
|  | PORTION 3.10                                    |
|  | NON-BUILDING AREA<br>8200m <sup>2</sup> (WHOLE) |

**FOR CONSTRUCTION**

|      |                       |          |          |
|------|-----------------------|----------|----------|
| C    | WORKING DRAWING       | BWCW SCI | MAY. 15  |
| B    | TENDER ADDENDUM NO. 2 | BWCW SCI | MAY. 14  |
| A    | TENDER ADDENDUM NO. 1 | BWCW SCI | APR. 14  |
| -    | TENDER DRAWING        | BWCW SCI | MAR. 14  |
| REV. | DESCRIPTION           | REV.     | DATE     |
| 01   | ISSUED FOR PERMIT     | 01       | 15/05/14 |

HONG KONG HIGHWAYS DEPARTMENT  
 香港路政處  
 HONG KONG-ZHUSHAN-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 VEHICLE CLEARANCE PLAZAS AND  
 ANCILLARY BUILDINGS AND FACILITIES

WORKS AREA WA3

**AECOM** **Aedas**  
 Rogers Stirk Harbour + Partners  
 BURO HAPPOLD ATKINS ADI

DRG. NO. 60191048/C3/000/C00/1051C  
 圖紙編號

|                             |                            |                        |
|-----------------------------|----------------------------|------------------------|
| DESIGNED BY<br>BWCW         | CONTRACT NO.<br>HY/2013/03 | A. BY APPROVED<br>TKH  |
| DRAWN BY<br>WSY             | STATUS<br>R/D              | <b>WORKING DRAWING</b> |
| SCALE<br>A1 1 : 1000        | © COPYRIGHT RESERVED       |                        |
| DIMENSIONS ARE IN<br>METRES | 圖 樣 所 有                    |                        |

**CONTROLLED DOCUMENT**  
 不准未經核准  
 准許文  
 走可作

Plot File by 2014/5/5 WANGSY



SETTING OUT POINT

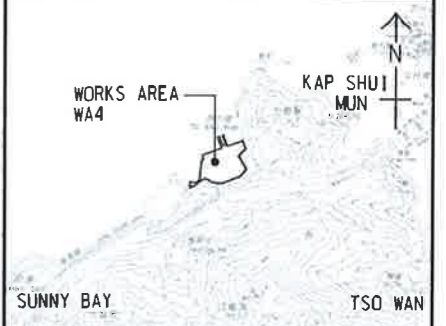
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|-------|------------|------------|
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| 402   | 822640.593 | 822689.415 |
| 403   | 822515.608 | 822559.848 |
| 404   | 822610.940 | 822599.642 |
| 405   | 822629.428 | 822607.359 |
| 406   | 822526.988 | 822529.813 |
| 407   | 822618.348 | 822567.950 |
| 408   | 822542.232 | 822489.581 |
| 409   | 822584.983 | 822507.426 |
| 410   | 822606.866 | 822516.561 |
| 411   | 822560.278 | 822441.956 |
| 412   | 822602.949 | 822460.010 |
| 413   | 822621.914 | 822467.959 |
| 414   | 822624.130 | 822470.998 |
| 415   | 822651.725 | 822508.856 |
| 416   | 822644.758 | 822521.192 |

822600 N

822400 N

822400 E

822600 E



LOCATION PLAN  
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

- WORKS AREA BOUNDARY
- PORTION 4.1
- PORTION 4.2
- PORTION 4.3
- PORTION 4.4
- PORTION 4.5
- PORTION 4.6
- PORTION 4.7
- PORTION 4.8
- PORTION 4.9

CONTROLLED DOCUMENT

FOR CONSTRUCTION

| REV. NO. | DESCRIPTION           | DATE    | BY   | CHECKED | DATE |
|----------|-----------------------|---------|------|---------|------|
| C        | WORKING DRAWING       | MAY. 15 | BWCW | SCI     |      |
| B        | TENDER ADDENDUM NO. 2 | MAY. 14 | BWCW | SCI     |      |
| A        | TENDER ADDENDUM NO. 1 | APR. 14 | BWCW | SCI     |      |
| -        | TENDER DRAWING        | MAR. 14 | BWCW | SCI     |      |

HIGHWAYS DEPARTMENT  
HONG KONG-ZHUIHAI-MACAO BRIDGE PROJECT MANAGEMENT OFFICE

HONG KONG-ZHUIHAI-MACAO BRIDGE  
HONG KONG BOUNDARY CROSSING FACILITIES  
- VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

WORKS AREA WA4

**AECOM** Aedas  
Rogers Stirk Harbour + Partners  
BURO HAPPOLD ATKINS ADI

DRG. NO. 60191048/C3/000/C00/1052C

DESIGNED BY BWCW CONTRACT NO. HY/2013/03 P. DIR. APPROVED TKH

SCALE A1 1 : 1000 WORKING DRAWING

DIMENSIONS ARE IN METRES © COPYRIGHT RESERVED

Plot File by 2014/5/5 WANGSY

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has horizontal bars extending from the top and bottom edges.

Report No.: 0165/15/ED/0102

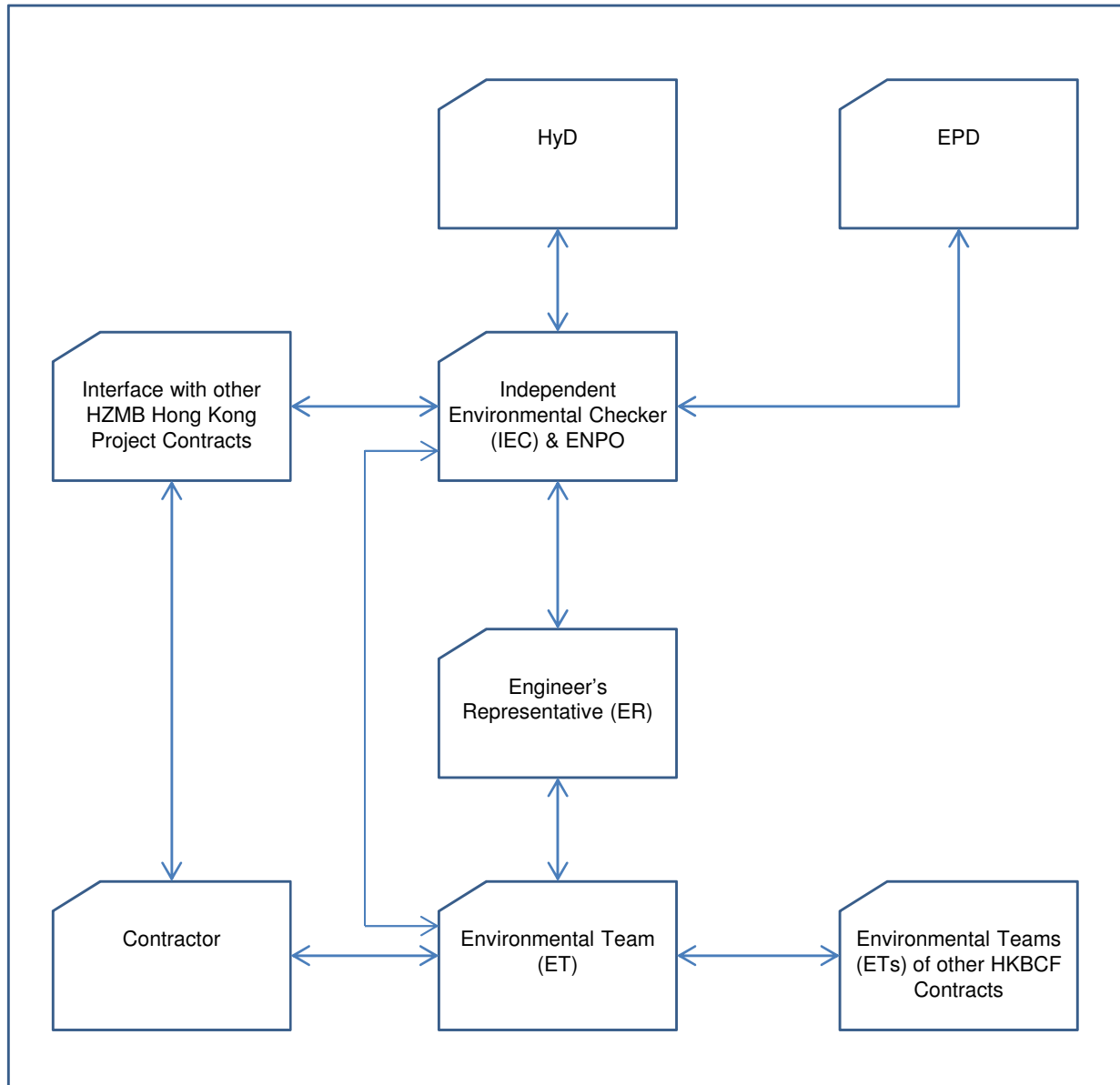
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### **Appendix B**

#### **Project Organisation for Environmental Works**

## Appendix B -

### Project Organisation for Environmental Works



↔ Line of Communication

## **MATERIALAB CONSULTANTS LIMITED**

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has horizontal bars above and below it.

Report No.: 0165/15/ED/0102

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### **Appendix C**

### **Construction Programme**

| Activity ID   | Activity Name   | Original Duration | Remaining Duration | % Complete | Start       | Finish      | Total Float | 2015 |     |     |     |     | 2016 |
|---|---|-------------------|--------------------|------------|-------------|-------------|-------------|------|-----|-----|-----|-----|------|
|   |   |                   |                    |            |             |             |             | Sep  | Oct | Nov | Dec | Jan |      |
| <b>HKBCF - VCP &amp; Ancillary Buildings and Facilities, Rev. 3 UD</b>                |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>CONTRACT DATES</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Site Access &amp; Possession</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <i>Possession of Portion of Site</i>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A0040   | Possession of Portion C (<=100 days)  | 0                 | 0                  | 0%         |             | 30-Sep-15*  | -73         |      |     |     |     |     |      |
| A0050   | Possession of Portion D (<=220 days)  | 0                 | 0                  | 0%         |             | 15-Nov-15*  | 0           |      |     |     |     |     |      |
| A0060   | Possession of Portion E (<=160 days)  | 0                 | 0                  | 100%       |             | 15-Sep-15 A |             |      |     |     |     |     |      |
| A0070   | Possession of Portion F (<=220 days)  | 0                 | 0                  | 0%         |             | 15-Nov-15*  | 0           |      |     |     |     |     |      |
| A0080   | Possession of Portion G (<=225 days)  | 0                 | 0                  | 0%         |             | 20-Nov-15*  | 0           |      |     |     |     |     |      |
| <b>Section/Stage Subject to Excision</b>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A0740   | Contract Date for Section IIB (100 days, latest date when the Engineer may order) | 0                 | 0                  | 0%         | 30-Sep-15*  |             | -74         |      |     |     |     |     |      |
| <b>PORTION A1</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Portion A1 Structures</b>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <i>Bridge A9</i>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Bored Pile</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| S91010  | Predrill SI, 10 nos.  | 61                | 61                 | 0%         | 18-Nov-15   | 01-Feb-16   | -82         |      |     |     |     |     |      |
| <i>047 - Fresh Water Pumping Station, Portion A1 &amp; A2</i>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A04700  | Predrill SI, 4 nos.   | 12                | 12                 | 0%         | 03-Dec-15   | 17-Dec-15   | -63         |      |     |     |     |     |      |
| <i>049 - Sewage Treatment Plant, Portion A1 &amp; A2</i>                              |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A04910  | Predrill SI, 36 nos.  | 36                | 34                 | 5%         | 22-Sep-15 A | 18-Nov-15   | -82         |      |     |     |     |     |      |
| A04920  | Predrill SI, 3 nos.   | 6                 | 6                  | 0%         | 18-Nov-15   | 25-Nov-15   | -82         |      |     |     |     |     |      |
| A04930  | Approval of Rockhead & Foundation   | 14                | 14                 | 0%         | 25-Nov-15   | 11-Dec-15   | -82         |      |     |     |     |     |      |
| A04940  | Bored Piling (39 Nr.)   | 127               | 127                | 0%         | 11-Dec-15   | 21-May-16   | -82         |      |     |     |     |     |      |
| <b>Portion A1 Buildings</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <i>012 - DOH Disinsection Area and Store Room 1, at Portion A1</i>                    |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A01210  | Excavation & Blinding   | 10                | 10                 | 0%         | 31-Oct-15   | 11-Nov-15   | -51         |      |     |     |     |     |      |
| A01220  | Raft Foundation   | 20                | 20                 | 0%         | 12-Nov-15   | 04-Dec-15   | -51         |      |     |     |     |     |      |
| A01240  | Superstructure  | 35                | 35                 | 0%         | 05-Dec-15   | 18-Jan-16   | -51         |      |     |     |     |     |      |
| <i>036 - Weigh Station</i>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03610  | Excavation  | 10                | 0                  | 100%       | 16-Sep-15 A | 21-Sep-15 A |             |      |     |     |     |     |      |
| A03620  | Raft Foundation   | 50                | 45                 | 10%        | 22-Sep-15 A | 28-Jun-16   | -62         |      |     |     |     |     |      |
| <i>037 C&amp;ED Tower Cum Inbound Cargo Examination Building (Portion A1 &amp; B)</i> |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03710  | Excavation  | 14                | 14                 | 0%         | 30-Sep-15   | 16-Oct-15   | -84         |      |     |     |     |     |      |
| A03720  | Substructure  | 50                | 50                 | 0%         | 17-Oct-15   | 15-Dec-15   | -84         |      |     |     |     |     |      |
| A03730  | Super Structure   | 110               | 110                | 0%         | 16-Dec-15   | 04-May-16   | -84         |      |     |     |     |     |      |
| <i>041 Fire Station Cum Ambulance Depot</i>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A04100  | Excavation + Blinding   | 14                | 14                 | 0%         | 30-Sep-15   | 16-Oct-15   | 3           |      |     |     |     |     |      |
| <i>042 Drill Tower</i>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A04200  | Drill Tower (042) SI Drilling, 6 Nr.  | 19                | 0                  | 100%       | 01-Sep-15 A | 14-Sep-15 A |             |      |     |     |     |     |      |
| A04210  | Driven Piles 16 Nr.   | 15                | 15                 | 0%         | 17-Dec-15   | 07-Jan-16   | -63         |      |     |     |     |     |      |
| <i>052 - Transforms (Zone 4)</i>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

| Date      | Revision                             | Checked | Approved |
|-----------|--------------------------------------|---------|----------|
| 31-Jul-15 | Initial Works Programme Rev. 2, 3MRP | ZJ      |          |
| 31-Aug-15 | Initial Works Programme Rev. 2, 3MRP | ZJ      |          |
| 30-Sep-15 | Initial Works Programme Rev. 3, 3MRP | ZJ      |          |

**HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities** 30-Sept-15

| Activity ID  | Activity Name                             | Original Duration | Remaining Duration | % Complete | Start       | Finish      | Total Float | 2015 |     |     |     |     | 2016 |
|--|---|-------------------|--------------------|------------|-------------|-------------|-------------|------|-----|-----|-----|-----|------|
|  |   |                   |                    |            |             |             |             | Sep  | Oct | Nov | Dec | Jan |      |
| A05200   | Excavation                                | 7                 | 0                  | 100%       | 01-Sep-15 A | 04-Sep-15 A |             | █    |     |     |     |     |      |
| A05210   | Substructure                              | 22                | 0                  | 100%       | 05-Sep-15 A | 19-Sep-15 A |             | █    |     |     |     |     |      |
| A05220   | Superstructure                            | 64                | 61                 | 5%         | 21-Sep-15 A | 11-Dec-15   | -52         | █    | █   | █   | █   |     |      |
| A05230   | Fitting out works in Tx Room to CLP (KD4) | 55                | 55                 | 0%         | 11-Dec-15   | 20-Feb-16   | -52         |      |     |     |     | █   | █    |
| A05240   | BS Installation (KD9)                     | 66                | 66                 | 0%         | 11-Dec-15   | 04-Mar-16   | 16          |      |     |     |     | █   | █    |
| A05250   | Finishing (KD10)                          | 87                | 87                 | 0%         | 11-Dec-15   | 01-Apr-16   | -5          |      |     |     |     | █   | █    |
| <b>105 IMMD Guard Booth, Portion A1</b>                      |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| B10510   | Excavation + Blinding                     | 5                 | 5                  | 0%         | 12-Nov-15   | 17-Nov-15   | 0           |      |     | █   |     |     |      |
| <b>External Works for Portion A1</b>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Drainage Works</b>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| B00010   | Initial Survey                            | 6                 | 6                  | 0%         | 17-Aug-15 A | 07-Oct-15   | -84         | █    | █   |     |     |     |      |
| SG0020   | Drainage Works (4210m & 76MHs)            | 300               | 297                | 1%         | 16-Sep-15 A | 10-Feb-17   | -81         | █    |     |     |     |     |      |
| SG0030   | Sewerage (1063m & 30MHs)                  | 300               | 300                | 0%         | 29-Dec-15   | 03-Jan-17   | -52         |      |     |     |     |     | █    |
| <b>PORTION A2</b>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Portion A2 Structures</b>                                 |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>048 - Reclaimed Water Pumping Station, Portion A2</b>     |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A04810   | Predrill SI, 4 nos.                       | 13                | 13                 | 0%         | 18-Nov-15   | 03-Dec-15   | -82         |      |     | █   |     |     |      |
| A04820   | Piling 4nr.                               | 52                | 52                 | 0%         | 17-Dec-15   | 23-Feb-16   | -82         |      |     |     |     | █   | █    |
| <b>External Works for Portion A2</b>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Drainage Works</b>  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| B00020   | Initial Survey                            | 6                 | 6                  | 0%         | 30-Sep-15   | 07-Oct-15   | -81         |      | █   |     |     |     |      |
| <b>PORTION B</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Portion B Structures</b>                                  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>028 - Staff Subway</b>                                    |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| C02810   | ELS + Blind (Seg. 28-36 (12 Bay)          | 42                | 42                 | 0%         | 15-Oct-15   | 03-Dec-15   | -32         |      | █   | █   |     |     |      |
| C02820   | Seg. 20-27 Construction - Base Slab       | 28                | 28                 | 0%         | 30-Nov-15   | 04-Jan-16   | -32         |      |     |     | █   | █   |      |
| C02830   | Seg. 20-27 Construction - Wall + Top Slab | 37                | 37                 | 0%         | 23-Dec-15   | 06-Feb-16   | -32         |      |     |     |     | █   | █    |
| <b>Portion B Buildings</b>                                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks</b>      |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A02700   | Submission & Approval for Steel Works     | 50                | 50                 | 0%         | 30-Sep-15   | 28-Nov-15   | -13         |      | █   | █   |     |     |      |
| A02710   | Pre-fabrication for the Steel Kiosks      | 100               | 100                | 0%         | 30-Nov-15   | 05-Apr-16   | -13         |      |     |     | █   | █   |      |
| <b>026 Inbound IMMD and DOH Secondary Screening Building</b> |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A02610   | Excavation + Blinding                     | 10                | 10                 | 0%         | 28-Oct-15   | 07-Nov-15   | -54         |      |     | █   |     |     |      |
| <b>054 Inbound Fixed X-ray Building</b>                      |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A05420   | Excavation + Blinding                     | 10                | 10                 | 0%         | 30-Sep-15   | 12-Oct-15   | -60         | █    |     |     |     |     |      |
| A05430   | Substructure                              | 50                | 50                 | 0%         | 13-Oct-15   | 10-Dec-15   | -60         |      | █   | █   |     |     |      |
| A05440   | Super Structure for Tx Room               | 60                | 60                 | 0%         | 11-Dec-15   | 25-Feb-16   | -60         |      |     |     |     | █   | █    |
| <b>038 AFCD Office</b>                                       |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03810   | Excavation + Blinding                     | 7                 | 7                  | 0%         | 28-Oct-15   | 04-Nov-15   | 7           |      |     | █   |     |     |      |
| <b>039 Police Main Building</b>                              |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03910   | Excavation + Blinding                     | 12                | 12                 | 0%         | 30-Sep-15   | 14-Oct-15   | -60         | █    |     |     |     |     |      |
| A03920   | Substructure                              | 70                | 70                 | 0%         | 15-Oct-15   | 08-Jan-16   | -60         |      | █   | █   |     |     |      |
| <b>040 Incident Control Tower</b>                            |   |                   |                    |            |             |             |             |      |     |     |     |     |      |

█ Actual Work  
█ Remaining Work  
█ Critical  
◆ Milestone

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| 30-Sep-15 | Initial Works Programme Rev. 3, 3MRP | ZJ      |          |

| Activity ID  | Activity Name                             | Original Duration | Remaining Duration | % Complete | Start     | Finish    | Total Float | 2015 |     |     |     |     | 2016 |
|--|---|-------------------|--------------------|------------|-----------|-----------|-------------|------|-----|-----|-----|-----|------|
|  |   |                   |                    |            |           |           |             | Sep  | Oct | Nov | Dec | Jan |      |
| A04010   | Excavation + Blinding                     | 10                | 10                 | 0%         | 15-Oct-15 | 27-Oct-15 | 0           |      |     |     |     |     |      |
| <b>Glass Wall</b>  |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| C04010   | Shop Drawing Submission and Approval      | 30                | 30                 | 0%         | 30-Sep-15 | 05-Nov-15 | 60          |      |     |     |     |     |      |
| C04020   | Fabrication of Glass Wall                 | 60                | 60                 | 0%         | 06-Nov-15 | 18-Jan-16 | 60          |      |     |     |     |     |      |
| <b>102 HKPF UVSS Monitor Room</b>                                      |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| A10200   | Excavation + Blinding                     | 7                 | 7                  | 0%         | 28-Oct-15 | 04-Nov-15 | 100         |      |     |     |     |     |      |
| <b>Metal Canopy and Roof Installation</b>                              |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| B10210   | Shop Drawing Submission and Approval      | 30                | 30                 | 0%         | 22-Dec-15 | 28-Jan-16 | 55          |      |     |     |     |     |      |
| <b>103 Police Inspection Post</b>                                      |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| A10310   | Excavation + Blinding                     | 5                 | 5                  | 0%         | 22-Oct-15 | 27-Oct-15 | -54         |      |     |     |     |     |      |
| <b>HPL Composite Panel Cladding System</b>                             |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| B10310   | Shop Drawing Submission and Approval      | 30                | 30                 | 0%         | 30-Sep-15 | 05-Nov-15 | 192         |      |     |     |     |     |      |
| B10320   | Fabrication of HPL Cladding               | 60                | 60                 | 0%         | 06-Nov-15 | 18-Jan-16 | 192         |      |     |     |     |     |      |
| <b>057 Transformers (Zone 2)</b>                                       |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| A05710   | Excavation + Blinding                     | 10                | 10                 | 0%         | 30-Sep-15 | 12-Oct-15 | -60         |      |     |     |     |     |      |
| A05720   | Raft Foundation                           | 52                | 52                 | 0%         | 13-Oct-15 | 12-Dec-15 | -60         |      |     |     |     |     |      |
| A05730   | Superstructure                            | 65                | 65                 | 0%         | 14-Dec-15 | 04-Mar-16 | -60         |      |     |     |     |     |      |
| <b>107 - C&amp;ED Mobile X-ray Operation Office (Cargo), Portion B</b> |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| C10710   | Excavation + Blinding                     | 7                 | 7                  | 0%         | 13-Oct-15 | 20-Oct-15 | -60         |      |     |     |     |     |      |
| C10720   | Raft Foundation                           | 32                | 32                 | 0%         | 22-Oct-15 | 27-Nov-15 | -60         |      |     |     |     |     |      |
| C10730   | Superstructure (Roof Slabs)               | 62                | 62                 | 0%         | 28-Nov-15 | 15-Feb-16 | -60         |      |     |     |     |     |      |
| <b>113 - Field Kiosk for Access Control, Portion B</b>                 |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| B11310   | Excavation + Blinding                     | 7                 | 7                  | 0%         | 09-Nov-15 | 16-Nov-15 | -54         |      |     |     |     |     |      |
| B11320   | Raft Foundation                           | 32                | 32                 | 0%         | 17-Nov-15 | 23-Dec-15 | -54         |      |     |     |     |     |      |
| B11330   | Superstructure (Roof Beams & Slabs)       | 60                | 60                 | 0%         | 24-Dec-15 | 09-Mar-16 | -54         |      |     |     |     |     |      |
| <b>External Works for Portion B</b>                                    |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| <b>Drainage Works</b>  |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| B00030   | Initial Survey                            | 12                | 12                 | 0%         | 30-Sep-15 | 14-Oct-15 | -60         |      |     |     |     |     |      |
| SG1540   | Drainage Works (7812m & 168MHs)           | 360               | 360                | 0%         | 15-Oct-15 | 30-Dec-16 | -55         |      |     |     |     |     |      |
| SG3580   | Sewerage (1175m & 32MHs)                  | 360               | 360                | 0%         | 15-Oct-15 | 30-Dec-16 | -55         |      |     |     |     |     |      |
| <b>Waterpipe Laying</b>  |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| SW1550   | Fresh Water Main Laying (1972m)           | 360               | 360                | 0%         | 11-Dec-15 | 01-Mar-17 | -55         |      |     |     |     |     |      |
| SW1560   | Flushing Water Main Laying (1851m)        | 360               | 360                | 0%         | 11-Dec-15 | 01-Mar-17 | -55         |      |     |     |     |     |      |
| <b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>  |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| SU5300   | Duct Laying for Utilities/Telecom Cabling | 360               | 360                | 0%         | 11-Dec-15 | 01-Mar-17 | -55         |      |     |     |     |     |      |
| <b>Sign Gantry ADS 306A &amp; ADS 306B</b>                             |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| SS0070   | Sign Gantry ADS 306B SI Drilling, 2 Nr.   | 6                 | 6                  | 0%         | 28-Dec-15 | 05-Jan-16 | -55         |      |     |     |     |     |      |
| SS0110   | Sign Gantry ADS306A SI Drilling, 2 Nr.    | 7                 | 7                  | 0%         | 17-Dec-15 | 28-Dec-15 | -55         |      |     |     |     |     |      |
| SS5230   | Submission and approval for Sign Gantry   | 180               | 180                | 0%         | 30-Sep-15 | 11-May-16 | -33         |      |     |     |     |     |      |
| <b>PORTION C</b>   |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| <b>Portion C Buildings</b>   |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| <b>010 - Inbound Coach Kiosk &amp; Staff Subway Entrance</b>           |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| A01010   | Substructure and Staircase Construction   | 60                | 60                 | 0%         | 15-Oct-15 | 24-Dec-15 | -60         |      |     |     |     |     |      |
| A01020   | Kiosk Superstructure                      | 100               | 100                | 0%         | 28-Dec-15 | 30-Apr-16 | -34         |      |     |     |     |     |      |
| <b>009 - Shuttle Bus Kiosk &amp; Staff Subway Entrance</b>             |   |                   |                    |            |           |           |             |      |     |     |     |     |      |
| A00910   | ELS + Blinding (Seg. 1-7) (7 bay)         | 42                | 42                 | 0%         | 15-Oct-15 | 03-Dec-15 | -60         |      |     |     |     |     |      |
| A00920   | Constructing Base Slab of Seg. 1-7        | 28                | 28                 | 0%         | 30-Nov-15 | 04-Jan-16 | -60         |      |     |     |     |     |      |
| A00930   | Constructing Wall + Top Slab of Seg. 1-7  | 37                | 37                 | 0%         | 23-Dec-15 | 06-Feb-16 | -60         |      |     |     |     |     |      |

■ Actual Work  
■ Remaining Work  
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| 30-Sep-15 | Initial Works Programme Rev. 3, 3MRP | ZJ      |          |

| Activity ID  | Activity Name                         | Original Duration | Remaining Duration | % Complete | Start       | Finish    | Total Float | 2015 |     |     |     |     | 2016 |  |
|--|---------------------------------------|-------------------|--------------------|------------|-------------|-----------|-------------|------|-----|-----|-----|-----|------|--|
|  |                                       |                   |                    |            |             |           |             | Sep  | Oct | Nov | Dec | Jan |      |  |
| <b>012 - DOH Disinsection Area and Store Room 1, at Portion C</b>    |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| B01210   | Excavation & Blinding                 | 10                | 10                 | 0%         | 13-Oct-15   | 24-Oct-15 | -51         |      | █   |     |     |     |      |  |
| <b>104 - DOH Secondary Screening Station, at Portion C</b>           |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| A10420   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 26-Oct-15   | 30-Oct-15 | -51         |      | █   |     |     |     |      |  |
| <b>108 C&amp;ED Mobile X-ray Machine Operation Office, Portion C</b> |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| A10805   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 07-Oct-15   | 12-Oct-15 | -51         | █    |     |     |     |     |      |  |
| <b>HPL Composite Panel Cladding System</b>                           |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| A10800   | Shop Drawing Submission and Approval  | 30                | 30                 | 0%         | 09-Nov-15   | 12-Dec-15 | -20         |      |     | █   |     |     |      |  |
| A10815   | Fabrication of HPL Cladding           | 60                | 60                 | 0%         | 14-Dec-15   | 27-Feb-16 | -20         |      |     |     | █   |     |      |  |
| <b>110 IMMD Guard Booth (Type 2)</b>                                 |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| A11020   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 31-Oct-15   | 05-Nov-15 | 185         |      |     | █   |     |     |      |  |
| <b>111 Field Kiosk for Carpark Operator</b>                          |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| A11120   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 17-Nov-15   | 21-Nov-15 | 117         |      |     | █   |     |     |      |  |
| <b>113 - Field Kiosk for Access Control, Portion C</b>               |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| C11310   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 30-Sep-15   | 06-Oct-15 | -60         | █    |     |     |     |     |      |  |
| C11320   | Raft Foundation                       | 30                | 30                 | 0%         | 07-Oct-15   | 11-Nov-15 | -60         |      | █   |     |     |     |      |  |
| C11330   | Superstructure (Roof Beams & Slabs)   | 60                | 60                 | 0%         | 12-Nov-15   | 23-Jan-16 | -60         |      |     | █   |     |     |      |  |
| <b>External Works for Portion C</b>                                  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Drainage Works</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| B00040   | Initial Survey                        | 12                | 12                 | 0%         | 30-Sep-15   | 14-Oct-15 | -60         | █    |     |     |     |     |      |  |
| SG2400   | Drainage Works (1695m & 32MHs)        | 150               | 150                | 0%         | 28-Dec-15   | 02-Jul-16 | -60         |      |     |     |     | █   |      |  |
| SG3610   | Sewerage (186m & 4MHs)                | 150               | 150                | 0%         | 28-Dec-15   | 02-Jul-16 | -39         |      |     |     |     | █   |      |  |
| <b>PORTION D</b>   |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Portion D Building</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>113 - Field Kiosk for Access Control, Portion D</b>               |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| C11350   | Excavation & Blinding                 | 5                 | 5                  | 0%         | 16-Nov-15   | 20-Nov-15 | 197         |      |     | █   |     |     |      |  |
| <b>External Works for Portion D</b>                                  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Drainage Works</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| B00050   | Initial Survey                        | 6                 | 6                  | 0%         | 16-Nov-15   | 21-Nov-15 | 85          |      |     | █   |     |     |      |  |
| SG3640   | Drainage Works (555m & 13MHs)         | 100               | 100                | 0%         | 23-Nov-15   | 24-Mar-16 | 85          |      |     | █   |     |     |      |  |
| SG3760   | Sewerage (121m & 6MHs)                | 100               | 100                | 0%         | 23-Nov-15   | 24-Mar-16 | 85          |      |     | █   |     |     |      |  |
| <b>PORTION E</b>   |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>External Works for Portion E</b>                                  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Drainage Works</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| B00060   | Initial Survey                        | 6                 | 6                  | 0%         | 30-Sep-15   | 07-Oct-15 | 136         | █    |     |     |     |     |      |  |
| <b>PORTION F</b>   |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>External Works for Portion F</b>                                  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Drainage Works</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| B00070   | Initial Survey                        | 6                 | 6                  | 0%         | 16-Nov-15   | 21-Nov-15 | 277         |      |     | █   |     |     |      |  |
| <b>PORTION G, H1 &amp; H2</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Portion G Structures</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Box Culvert C</b>   |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Steel H Pile</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| SC0210   | Predrill SI for Box Culvert C, 11 Nr. | 66                | 7                  | 90%        | 01-Sep-15 A | 30-Dec-15 | 72          | █    |     |     |     | █   |      |  |
| <b>Bridge A1</b>   |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |
| <b>Bored Pile</b>  |                                       |                   |                    |            |             |           |             |      |     |     |     |     |      |  |

█ Actual Work  
█ Remaining Work  
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|--|---|-------------------|--------------------|------------|-------------|-------------|-------------|------|-----|-----|-----|-----|------|
|  |   |                   |                    |            |             |             |             | Sep  | Oct | Nov | Dec | Jan |      |
| S10110   | Predrill SI, 10 nos.                    | 30                | 30                 | 0%         | 05-Dec-15   | 12-Jan-16   | 85          |      |     |     |     |     |      |
| <b>Bridge A3</b>                                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Bored Pile</b>                                  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| S31610   | Predrill SI, 10 Nr.                     | 30                | 0                  | 100%       | 10-Aug-15 A | 22-Sep-15 A |             |      |     |     |     |     |      |
| S31620   | Predrill SI, 1 Nr.                      | 6                 | 0                  | 100%       | 15-Sep-15 A | 22-Sep-15 A |             |      |     |     |     |     |      |
| <b>Bridge A5</b>                                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Bored Pile</b>                                  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| S52610   | Predrill SI, 15 nos.                    | 18                | 17                 | 8%         | 22-Sep-15 A | 24-Dec-15   | 1           |      |     |     |     |     |      |
| S52620   | Predrill SI for others 4 nos.           | 6                 | 6                  | 0%         | 24-Dec-15   | 04-Jan-16   | 12          |      |     |     |     |     |      |
| S52630   | Bore piling for 19 Nr.                  | 60                | 60                 | 0%         | 24-Dec-15   | 10-Mar-16   | 1           |      |     |     |     |     |      |
| <b>Bridge A8</b>                                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Bored Pile</b>                                  |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| S86120   | Predrill SI for P802 2 nos.             | 13                | 13                 | 0%         | 05-Dec-15   | 19-Dec-15   | 66          |      |     |     |     |     |      |
| <b>Retaining Walls W1-1, W3-1, W5-1 &amp; W7-1</b> |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Retaining Wall W3-1</b>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| S37110   | Predrill SI for W3-1, 12 Nr.            | 36                | 27                 | 25%        | 12-Sep-15 A | 14-Mar-16   | 12          |      |     |     |     |     |      |
| <b>Portion G Buildings</b>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>033 Inbound Private Car Exam Building</b>       |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03300   | Excavation + Blinding                   | 10                | 10                 | 0%         | 03-Dec-15   | 14-Dec-15   | 102         |      |     |     |     |     |      |
| <b>035 - Sewage Pumping Station, Portion G</b>     |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03510   | Predrill SI, 4 nos.                     | 13                | 0                  | 100%       | 13-Aug-15 A | 03-Sep-15 A |             |      |     |     |     |     |      |
| A03520   | Predrill SI, 1 no.                      | 6                 | 0                  | 100%       | 03-Sep-15 A | 10-Sep-15 A |             |      |     |     |     |     |      |
| A03525   | Approval of Rockhead & Founding         | 14                | 14                 | 0%         | 05-Dec-15   | 21-Dec-15   | 19          |      |     |     |     |     |      |
| <b>051 Transformers (Zone 5)</b>                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A05100   | Excavation + Blinding                   | 5                 | 5                  | 0%         | 21-Nov-15   | 26-Nov-15   | 0           |      |     |     |     |     |      |
| A05110   | Substructure                            | 15                | 15                 | 0%         | 27-Nov-15   | 14-Dec-15   | 0           |      |     |     |     |     |      |
| A05140   | Super Structure                         | 35                | 35                 | 0%         | 15-Dec-15   | 27-Jan-16   | 0           |      |     |     |     |     |      |
| <b>100 Inbound Traffic Control Kiosk</b>           |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A10000   | Excavation + Blinding                   | 5                 | 5                  | 0%         | 27-Nov-15   | 02-Dec-15   | 45          |      |     |     |     |     |      |
| <b>HPL Composite Panel Cladding System</b>         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| B10010   | Shop Drawing Submission and Approval    | 30                | 30                 | 0%         | 21-Nov-15   | 28-Dec-15   | 69          |      |     |     |     |     |      |
| B10015   | Fabrication of F/C System               | 60                | 60                 | 0%         | 29-Dec-15   | 11-Mar-16   | 69          |      |     |     |     |     |      |
| <b>External Works for Portion G, H1 &amp; H2</b>   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Drainage Works</b>                              |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| B00080   | Initial Survey                          | 12                | 12                 | 0%         | 21-Nov-15   | 04-Dec-15   | 0           |      |     |     |     |     |      |
| <b>Sign Gantry DS40, DS41 &amp; DS75</b>           |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| SS0170   | Submission and approval for Sign Gantry | 90                | 90                 | 0%         | 21-Nov-15   | 11-Mar-16   | 14          |      |     |     |     |     |      |
| <b>PORTION J</b>                                   |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>Portion J Structure</b>                         |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| <b>030 Outbound Private Car &amp; CV Kiosks</b>    |   |                   |                    |            |             |             |             |      |     |     |     |     |      |
| A03010   | Submission & Approval for Steel Works   | 60                | 60                 | 0%         | 16-Dec-15   | 01-Mar-16   | 4           |      |     |     |     |     |      |

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

| Date      | Revision                             | Checked | Approved |
|-----------|--------------------------------------|---------|----------|
| 31-Jul-15 | Initial Works Programme Rev. 2, 3MRP | ZJ      |          |
| 31-Aug-15 | Initial Works Programme Rev. 2, 3MRP | ZJ      |          |
| 30-Sep-15 | Initial Works Programme Rev. 3, 3MRP | ZJ      |          |

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### **Appendix D**

### **Event / Action Plan**

**Appendix D –**

**Event / Action Plan for Air Quality and Noise Monitoring**

Event / Action Plan for Air Quality

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

| Event   | Action  |   |   |  |
|---|---|---|---|--|
|   | ET  | IEC   | ER  | Contractor   |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and ER;</li> <li>3. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>4. Repeat measurements to confirm findings;</li> <li>5. Increase monitoring frequency to daily;</li> <li>6. Discuss with IEC and Contractor on remedial actions required;</li> <li>7. If exceedance continues, arrange meeting with IEC and ER;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>5. Supervise Implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol> | <ol style="list-style-type: none"> <li>1. Submit proposals for remedial to ER within 3 working days of notification;</li> <li>2. Implement the agreed proposals;</li> <li>3. Amend proposal if appropriate.</li> </ol> |

| Event                           | Action  |   |   |  |
|---------------------------------|---|---|---|--|
|                                 | ET  | IEC   | ER  | Contractor   |
| <b>Limit Level</b>              |   |   |   |  |
| 1.<br>Exceedance for one sample | 1. Identify source, investigate the causes of exceedance and propose remedial measures;<br>2. Inform ER, Contractor and EPD;<br>3. Repeat measurement to confirm finding;<br>4. Increase monitoring frequency to daily;<br>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;<br>2. Check Contractor's working method;<br>3. Discuss with ET and Contractor on possible remedial measures;<br>4. Advise the ER on the effectiveness of the proposed remedial measures;<br>5. Supervise implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing;<br>2. Notify Contractor;<br>3. Ensure remedial measures properly implemented. | 1. Take immediate action to avoid further exceedance;<br>2. Submit proposals for remedial actions to IEC within 3 working days of notification;<br>3. Implement the agreed proposals;<br>4. Amend proposal if appropriate. |

| Event   | Action   |  |  |   |
|---|--|--|--|---|
|   | ET   | IEC  | ER   | Contractor  |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> <li>1. Notify IEC, ER, Contractor and EPD;</li> <li>2. Identify source;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>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.</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedances abated.</li> </ol> |

Event / Action Plan for Construction Noise Monitoring

| Event        | Action   |   |   |  |
|--------------|--|---|---|--|
|              | ET   | IEC   | ER  | Contractor   |
| Action Level | <ol style="list-style-type: none"> <li>1. Notify IEC and Contractor;</li> <li>2. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>3. Report the results of investigation to the IEC,ER and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol> | <ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol> | <ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC;</li> <li>2. Implement noise mitigation proposals.</li> </ol> |

| Event       | Action   |  |  |   |
|-------------|--|--|--|---|
|             | ET   | IEC  | ER   | Contractor  |
| Limit Level | <ol style="list-style-type: none"> <li>1. Inform IEC, ER, EPD and Contractor;</li> <li>2. Identify source;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>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.</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol> |



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### **Appendix E**

### **Waste Flow Table**



**Monthly Summary of Waste Flow Table for 2015 (year)**

Name of Person completing the Record: Marko Chan

| Month        | Actual Quantities of Inert C&D Materials Generated Monthly |                          |                          |                          |                          | Actual Quantities of Non-inert C&D Wastes Generated Monthly |                            |              |                |                             |
|--------------|--|--------------------------|--------------------------|--------------------------|--------------------------|---|----------------------------|--------------|----------------|-----------------------------|
|              | Total Quantity Generated                                   | Broken Concrete          | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill  | Metals  | Paper/ cardboard packaging | Plastics     | Chemical Waste | Others, e.g. general refuse |
|              | (in '000m <sup>3</sup> )                                   | (see Note 1)             |                          |                          |                          |   |                            | (see Note 2) |                |                             |
|              | (in '000m <sup>3</sup> )                                   | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000 Kg)  | (in '000 Kg)               | (in '000 Kg) | (in '000 Kg)   | (in '000m <sup>3</sup> )    |
| Jan          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Feb          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Mar          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Apr          | 0  | 0                        | 0                        | 0                        | 0                        | 0   | 0                          | 0            | 0              | 0                           |
| May          | 0  | 0                        | 0                        | 0                        | 0                        | 0   | 0                          | 0            | 0              | 0                           |
| Jun          | 0.003  | 0                        | 0                        | 0                        | 0.003                    | 0   | 0                          | 0            | 0              | 0.063                       |
| Jul          | 0.402  | 0                        | 0                        | 0                        | 0.402                    | 0   | 0                          | 0            | 0              | 0.029                       |
| Aug          | 0.100  | 0                        | 0                        | 0                        | 0.100                    | 0   | 0                          | 0            | 0              | 0.044                       |
| Sept         | 0  | 0                        | 0                        | 0                        | 0                        | 0   | 0                          | 0            | 0              | 0.034                       |
| Oct          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Nov          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Dec          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| <b>Total</b> | <b>0.505</b>   | <b>0</b>                 | <b>0</b>                 | <b>0</b>                 | <b>0.505</b>             | <b>0</b>  | <b>0</b>                   | <b>0</b>     | <b>0</b>       | <b>0.170</b>                |

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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### **Appendix F**

#### **Environmental Licenses and Permits**

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

(update: 05/10/2015)

| Item | Permit/Licence Registration  | Permit No.        | Work Area                  | Application Date | Issue Date | Valid Date |            | Status | Remark |
|------|--|-------------------|----------------------------|------------------|------------|------------|------------|--------|--------|
|      |  |                   |                            |                  |            | From       | To         |        |        |
| 1    | Environmental Permit<br>Pursuant to Environmental Impact Assessment Ordinance  | EP-353/2009/I     | HKBCF                      | 30-Jun-15        | 17-Jul-15  | 17-Jul-15  | Nil        | Valid  |        |
| 2    | Notification<br>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<br>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<br>Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation | A/C No. 7022228   | Main Site Area,<br>WA3 & 4 | 14-Apr-15        | 06-May-15  | 06-May-15  | Nil        | Valid  |        |
| 5    | Registration as Waste Producer<br>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<br>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<br>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<br>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<br>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  |        |
| 10   | Construction Noise Permit<br>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  |        |
| 11   | Construction Noise Permit<br>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  |        |
| 12   | Construction Noise Permit<br>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  | Valid  |        |
| 13   | Construction Noise Permit<br>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  |        |

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### **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 |
|--------------------|---------------|---|--------------------------|-----------------------|
| <b>Air Quality</b> |               |   |                          |                       |
| 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                     |
| S5.5.6.2           | A2            | 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> <li>• 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;</li> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>• 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;</li> <li>• 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;</li> </ul>  | All construction sites   | V                     |
| S5.5.6.2           | A2            | <ul style="list-style-type: none"> <li>• 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;</li> <li>• 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,</li> <li>• 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;</li> <li>• 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;</li> <li>• 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;</li> <li>• Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>• 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</li> </ul> | All construction sites   | V                     |
| S5.5.6.2           | A2            | <ul style="list-style-type: none"> <li>• 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;.</li> <li>• 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</li> <li>• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface</li> </ul>  | 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                          | √                     |
| 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                          | √                     |
| S5.5.6.4                             | A5            | 5) Implement regular dust monitoring under EM&A programme during the construction stage.   | Selected Representative dust monitoring station | √                     |
| S5.5.7.1                             | A6            | The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; <ul style="list-style-type: none"> <li>• Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>• 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;</li> <li>• Vents for all siios and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>• The materials which may generate airborne dusty emissions should be wetted by water spray system;</li> <li>• All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> <li>• All conveyor transfer points should be totally enclosed;</li> <li>• All access and route roads within the premises should be paved and wetted; and</li> <li>• 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</li> </ul> | Selected Representative dust monitoring station | √                     |
| S5.5.2.7                             | A7            | The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: <ul style="list-style-type: none"> <li>• All road surface within the barging facilities will be paved;</li> <li>• Dust enclosures will be provided for the loading ramp;</li> <li>• Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>• Continuous water spray at the loading points</li> </ul>   | All construction sites                          | N/A                   |
| <b>Construction Nose (Air borne)</b> |               |  |   |                       |
| S6.4.10                              | N1            | 1) Use of good site practices to limit noise emissions by considering the following: <ul style="list-style-type: none"> <li>• only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>• 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;</li> <li>• plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>• silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>• mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>• material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>  | All 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                          | √                     |
| S6.4.12                              | N3            | 3) 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   | N6            | 6) Implement a noise monitoring under EM&A programme.  | Selected representative noise monitoring station                                 | V                     |
| <b>Sediment</b>                              |               |  |  |                       |
| 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   | N/A                   |
| <b>Waste Management (Construction Waste)</b> |               |  |  |                       |
| S8.3.8                                       | WM1           | <b>Construction and Demolition Material</b><br>The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> <li>• Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>• Carry out on-site sorting;</li> <li>• Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>• Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>• 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&amp;D materials and to minimize their generation during the course of construction.</li> <li>• In addition, disposal of the C&amp;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</li> </ul> | All construction sites   | V                     |
| S8.3.9-<br>S8.3.11                           | WM2           | <b>C&amp;D Waste</b> <ul style="list-style-type: none"> <li>• Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;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.</li> <li>• The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;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</li> </ul>   | All construction sites   | V                     |



| EIA Ref.                                   | EM&A Log Ref. | Recommended Mitigation Measures   | Location of the measures | Implementation Status |
|--|---------------|---|--------------------------|-----------------------|
|  |               | should be considered for such segregation and storage.  |                          |                       |
| S8.3.12-<br>S8.3.15                        | WM3           | <u>Chemical Waste</u> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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</li> <li>• 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.</li> </ul> | All construction sites   | V                     |
| S8.3.16                                    | WM4           | <u>Sewage</u> <ul style="list-style-type: none"> <li>• 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.</li> </ul>  | All construction sites   | V                     |
| S8.3.17                                    | WM5           | <u>General Refuse</u> <ul style="list-style-type: none"> <li>• General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> </ul>  | All construction sites   | V                     |
| <b>Water Quality ( Construction Phase)</b> |               |   |                          |                       |
| S9.11.1.7                                  | W2            | <u>Land Works</u> <p>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:</p> <ul style="list-style-type: none"> <li>• wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> <li>• 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;</li> <li>• storm drainage shall be directed to storm drains via</li> </ul>  | Land-based works area    | V                     |

| EIA Ref.                            | EM&A Log Ref. | Recommended Mitigation Measures  | Location of the measures | Implementation Status |
|-------------------------------------|---------------|--|--------------------------|-----------------------|
|                                     |               | <p>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;</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>• temporary access roads should be surfaced with crushed stone or gravel;</li> <li>• rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> <li>• measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;</li> <li>• open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms;</li> <li>• 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;</li> <li>• discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> </ul>   |                          |                       |
| S9.11.1.7                           | W2            | <ul style="list-style-type: none"> <li>• 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;</li> <li>• wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> <li>• the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;</li> <li>• wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> <li>• 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;</li> <li>• the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> <li>• waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance;</li> <li>• 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</li> <li>• surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul> | Land-based works area    | V                     |
| <b>Ecology (Construction Phase)</b> |               |  |                          |                       |
| S10.7                               | E4            | <ul style="list-style-type: none"> <li>• Watering to reduce dust generation; prevention of siltation 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</li> </ul>  | Land-based works areas   | N/A                   |
| S10.7                               | E5            | <ul style="list-style-type: none"> <li>• Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time</li> </ul>  | Land-based works areas   | V                     |
| S10.7                               | E8            | <ul style="list-style-type: none"> <li>• Control vessel speed</li> </ul>   | Marine Traffic           | V                     |

| EIA Ref.  | EM&A Log Ref. | Recommended Mitigation Measures  | Location of the measures | Implementation Status |
|---|---------------|--|--------------------------|-----------------------|
|   |               | <ul style="list-style-type: none"> <li>• Skipper training</li> <li>• Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>  |                          |                       |
| <b>Fisheries</b>                                      |               |  |                          |                       |
| S11.7   | F4            | <ul style="list-style-type: none"> <li>• Maritime Oil Spill Response Plan (MOSRP);</li> <li>• Contingency plan.</li> </ul>   | HKBCF                    | V                     |
| <b>Landscape &amp; Visual (Detailed Design Phase)</b> |               |  |                          |                       |
| S14.3.3.1   | LV1           | <p>General design measures include:</p> <ul style="list-style-type: none"> <li>• Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> <li>• 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;</li> <li>• Protection measures for the trees to be retained during construction activities;</li> <li>• Optimizing the sizes and spacing of the bridge columns;</li> <li>• Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;</li> <li>• Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>• Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> <li>• 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</li> <li>• 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.</li> </ul> | HKBCF                    | V                     |
| <b>Landscape &amp; Visual (Construction Phase)</b>    |               |  |                          |                       |
| S14.3.3.3   | LV2           | <p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>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</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>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.</p>   | HKBCF                    | N/A                   |
| S14.3.3.3   | LV3           | <p><u>Mitigate Visual Impacts</u></p> <p>V1. Minimize time for construction activities during construction period.</p> <p>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.</p>  | HKBCF                    | N/A                   |
| <b>EM&amp;A</b>                                       |               |  |                          |                       |
| S15.5.2.2   | EM1           | An Independent Environmental Checker needs to be employed as per the EM&A Manual   | All construction         | V                     |

| EIA Ref.      | EM&A Log Ref. | Recommended Mitigation Measures  | Location of the measures | Implementation Status |
|---------------|---------------|--|--------------------------|-----------------------|
|               |               |  | sites                    |                       |
| S15.5 – S15.6 | EM2           | 1) An Environmental Team needs to be employed as per the EM&A Manual.<br>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.<br>3) 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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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has a thin white border.

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Report No.: 0165/15/ED/0102

### **Appendix H**

#### **Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions**

Appendix H –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

| <b>Reporting Period</b>  | <b>Cumulative Statistics</b> |                          |                         |
|--|------------------------------|--------------------------|-------------------------|
|  | Complaints                   | Notifications of Summons | Successful Prosecutions |
| This reporting period  | 0                            | 0                        | 0                       |
| From commencement date of construction to end of reporting month | 0                            | 0                        | 0                       |

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### **Appendix I**

#### **Environmental Site Inspection Schedule**

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Report No.: 0165/15/ED/0102

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

**August 2015**

| Sun | Mon | Tue                     | Wed | Thu                     | Fri | Sat |
|-----|-----|-------------------------|-----|-------------------------|-----|-----|
|     |     |                         |     |                         |     | 1   |
| 2   | 3   | 4                       | 5   | 6<br>Weekly Site Audit  | 7   | 8   |
| 9   | 10  | 11                      | 12  | 13<br>Weekly Site Audit | 14  | 15  |
| 16  | 17  | 18<br>Weekly Site Audit | 19  | 20                      | 21  | 22  |
| 23  | 24  | 25                      | 26  | 27<br>Weekly Site Audit | 28  | 29* |
| 30  | 31  |                         |     |                         |     |     |

\*Actual commencement date of construction works for this Contract



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**Materialab**

Report No.: 0165/15/ED/0102

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

**September 2015**

| Sun | Mon | Tue | Wed                       | Thu                        | Fri                        | Sat |
|-----|-----|-----|---------------------------|----------------------------|----------------------------|-----|
|     |     | 1   | 2<br>Weekly Site<br>Audit | 3                          | 4                          | 5   |
| 6   | 7   | 8   | 9                         | 10                         | 11<br>Weekly Site<br>Audit | 12  |
| 13  | 14  | 15  | 16                        | 17<br>Weekly Site<br>Audit | 18                         | 19  |
| 20  | 21  | 22  | 23                        | 24                         | 25<br>Weekly Site<br>Audit | 26  |
| 27  | 28  | 29  | 30                        |                            |                            |     |

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**HZMB HKBCF – Vehicle Clearance Plazas and Ancillary Buildings and Facilities**  
**Weekly Environmental Site Walk**

**October 2015**

| Sun | Mon | Tue | Wed | Thu                        | Fri                        | Sat |
|-----|-----|-----|-----|----------------------------|----------------------------|-----|
|     |     |     |     | 1                          | 2<br>Weekly Site<br>Audit  | 3   |
| 4   | 5   | 6   | 7   | 8<br>Weekly Site<br>Audit  | 9                          | 10  |
| 11  | 12  | 13  | 14  | 15<br>Weekly Site<br>Audit | 16                         | 17  |
| 18  | 19  | 20  | 21  | 22                         | 23<br>Weekly Site<br>Audit | 24  |
| 25  | 26  | 27  | 28  | 29<br>Weekly Site<br>Audit | 30                         | 31  |