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Report No.: 0165/15/ED/0212

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)

November 2015

China Harbour Engineering Co., Ltd. **Client:**

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

Report No.: 0165/15/ED/0212

Prepared by: Sandra Pang

Reviewed by: Bong Yu

Certified by:

Arthur Cheng **Environmental Team Leader**



Ref.: HYDHZMBEEM00_0_3658L.15

10 December 2015

By Fax (3468 2076) and By Post

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

Attention: Mr. Michael Tovey

Dear Sir,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and Ancillary Buildings and Facilities Monthly Environmental Monitoring & Audit Report for November 2015

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

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

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

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

Kongut

Raymond Dai Independent Environmental Checker

c.c.

, HyD MCL

HyD

CHEC

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

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

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

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 – <u>Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)</u>

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

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

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Cheng Environmental Team Leader

AC/sp

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Ms. Miranda Wong CHEC – Mr. Paul Pui, Mr. Marko Chan Ramboll Environ – Mr. Ray Yan, Mr. Andy Wong





10 December 2015

MCL/ED/0663/2015/C

Date

Our Ref.

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Report No.: 0165/15/ED/0212

EXECUTIVE SUMMARY

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

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

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

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

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

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

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

Breaches of Action and Limit Levels

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

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

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

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

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

Complaint Log

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

Notifications of Summons and Successful Prosecutions

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

Reporting Changes

There was no reporting change during the reporting period.

Future Key Issues

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

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

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1. INTRODUCTION

1.1 Background

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

1.2 **Project Description**

- 1.2.1 The works to be executed under this Contract include the following major items:
 - a. Cargo clearance facilities including kiosks for clearance of good vehicles, customs inspection platforms, X-ray building, etc.;
 - 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**

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

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

Table 1.1 Contact Persons and Telephone Numbers of Key Personnel

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

1.4 Construction Programme

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

1.5 Construction Works Undertaken during the Reporting Period

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

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2. AIR QUAILITY MONITORING

2.1 Monitoring Locations

2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and 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.

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

2.2 Monitoring Requirements

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

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m³)			
	1 hour TSP				
AMS6	360	500			
AMS7A	370	500			
	24 hours TSP				
AMS6	173	260			
AMS7A	183	- 260			

Table 2.2 Action and Limit Levels for Air Quality

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

2.3 Monitoring Results

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

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3. NOISE MONITORING

3.1 Monitoring Locations

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

Table 3.1 Construction Noise Monitoring Location

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

3.2 Monitoring Requirements

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

Table 3.2 Action and Limit Level for Construction Noise

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

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

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

3.3 Monitoring Results

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

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4. WATER QUALITY MONITORING

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

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5. ECOLOGY MONITORING

- 5.1 There was no marine works conducted, 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

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6.1 Site Inspection

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

5 November 2015 1. No particular finding.

13 November 2015

1. No particular finding.

20 November 2015

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

23 November 2015

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

6.2 Advice on the Solid and Liquid Waste Management Status

- The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of 6.2.1 receptacles were available for general refuse collection and sorting.
- 6.2.2 The monthly summary of waste flow table is detailed in **Appendix E**.
- There was no Inert C & D Materials and 0.034 (in'000m³) of Non-inert C & D Wastes and no 6.2.3 excavated marine sediment generated in this reporting period. Excavated marine sediment (if any) will be treated using cement solidification/stabilisation (Cement S/S) techniques and will be reused onsite for either backfilling or landscaping (e.g. berm material).
- If off-site disposal is required, the excavated marine mud from the land-based works shall be 6.2.4 disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.

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

6.3 Environmental Licenses and Permits

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

6.4 Implementation Status of Environmental Mitigation Measures

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

6.5 Summary of Exceedance of the Environmental Quality Performance Limit

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

6.6 Summary of Complaints, Notification of Summons and Successful Prosecution

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

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7. FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

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

7.2 Environmental Site Inspection Schedule for the Coming Month

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

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8. CONCLUSIONS

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

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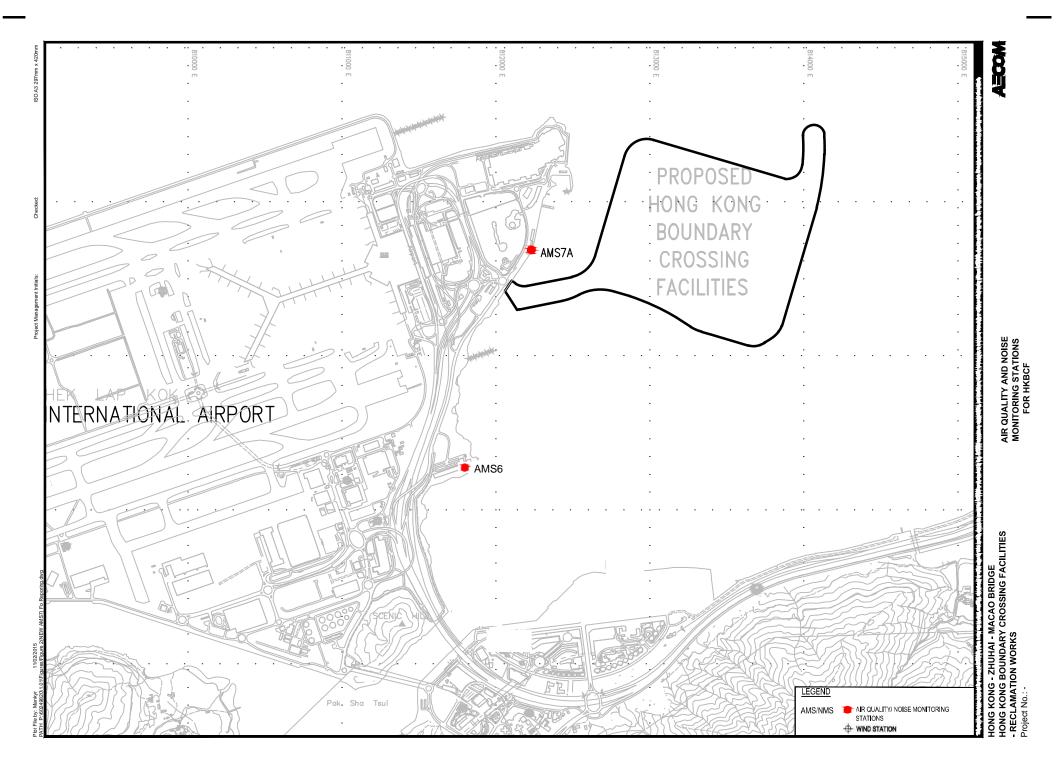
Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

: (852)-24508238 : (852)-24508032 Fax Email : mcl@fugro.com.hk **MateriaLab**

Report No.: 0165/15/ED/0212

Figure 1

Air Quality Monitoring Stations



Tel

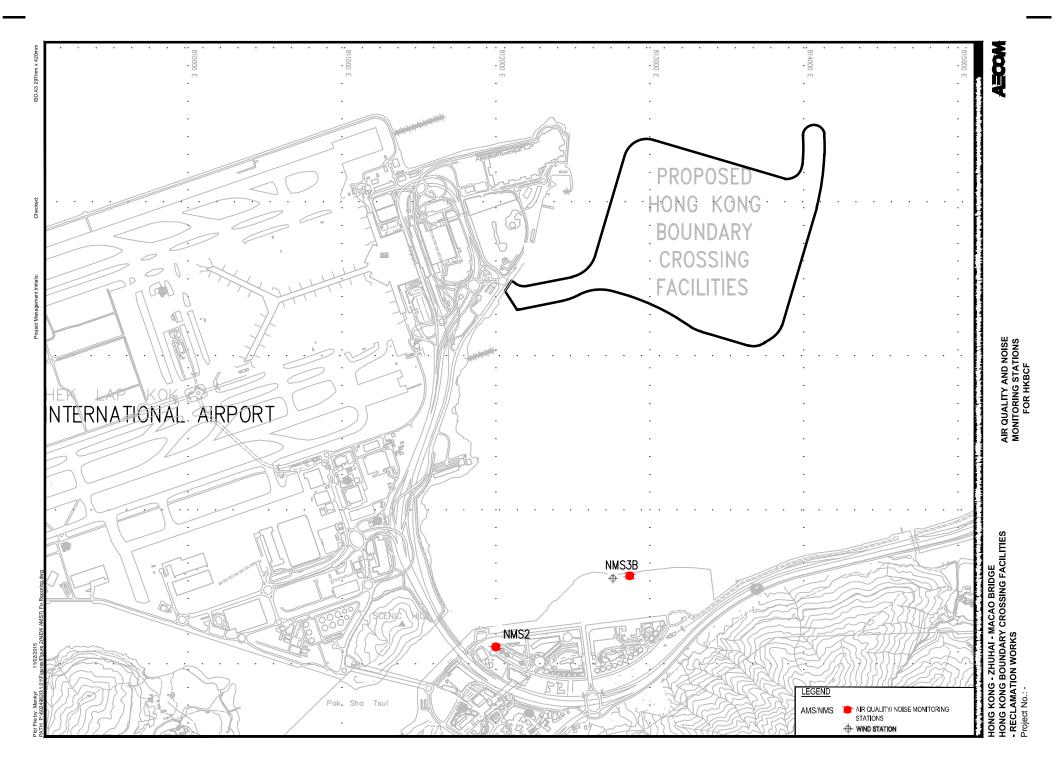
Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

: (852)-24508238 : (852)-24508032 Fax Email : mcl@fugro.com.hk **MateriaLab**

Report No.: 0165/15/ED/0212

Figure 2

Noise Monitoring Stations



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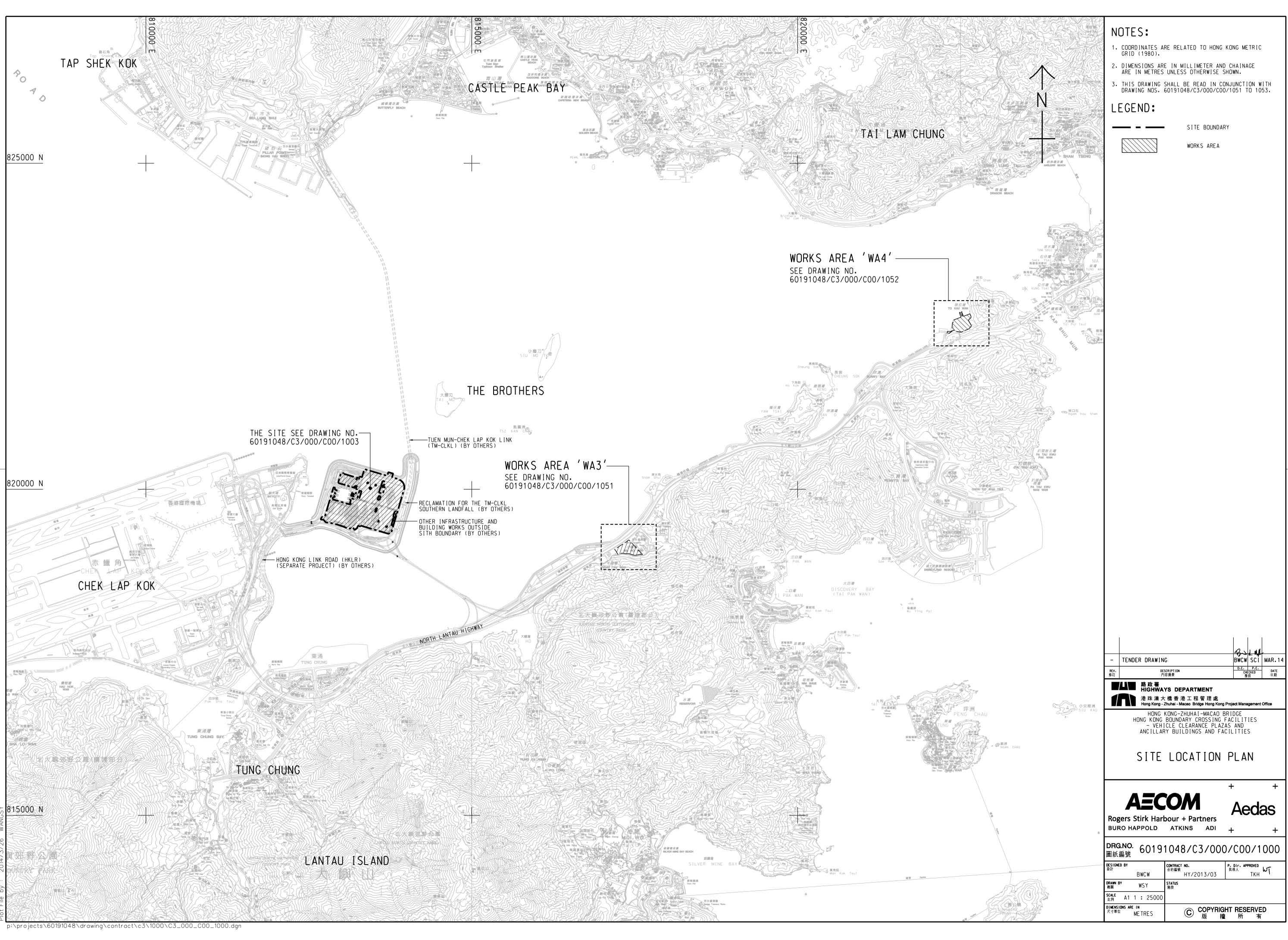
Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

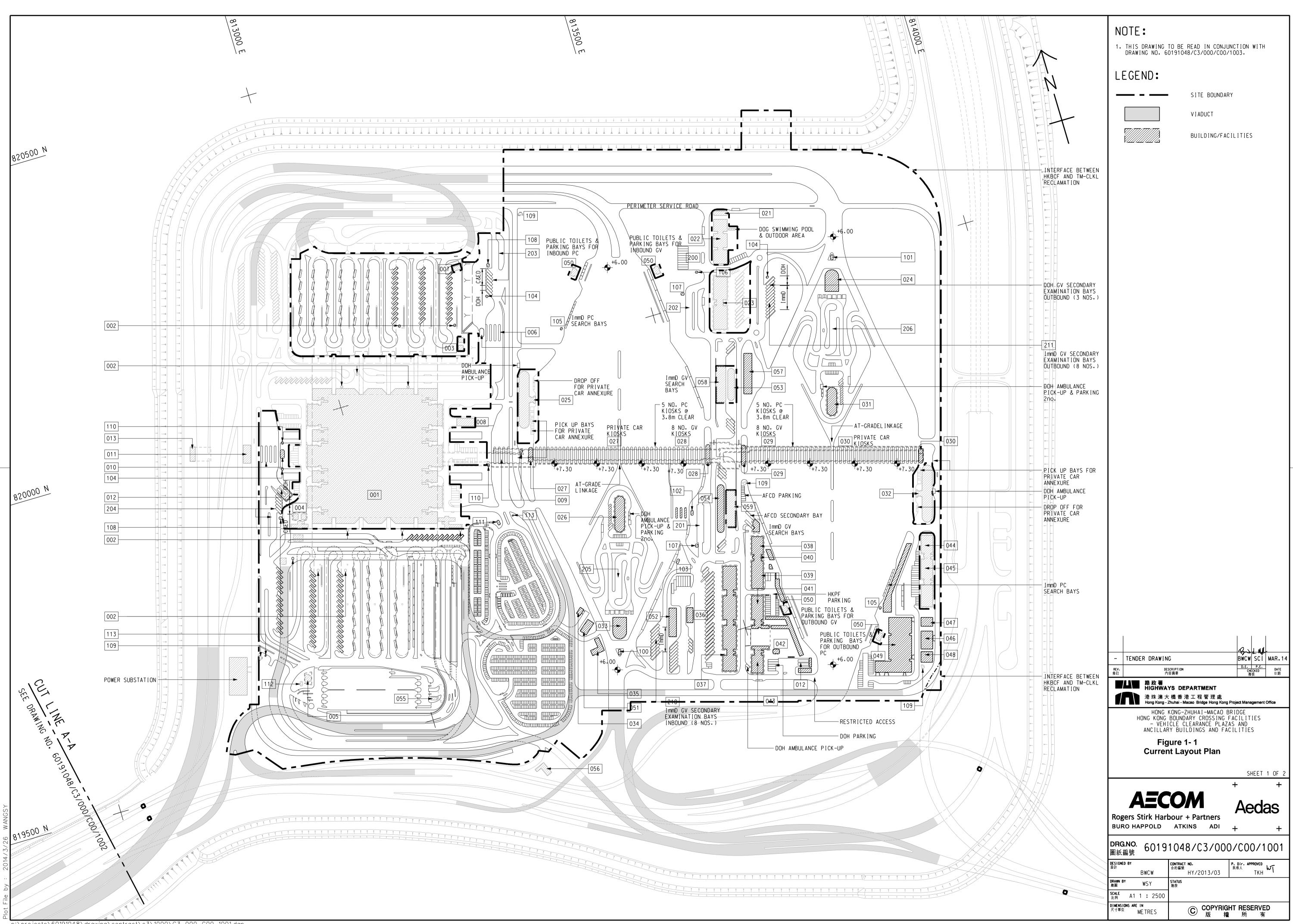
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Report No.: 0165/15/ED/0212

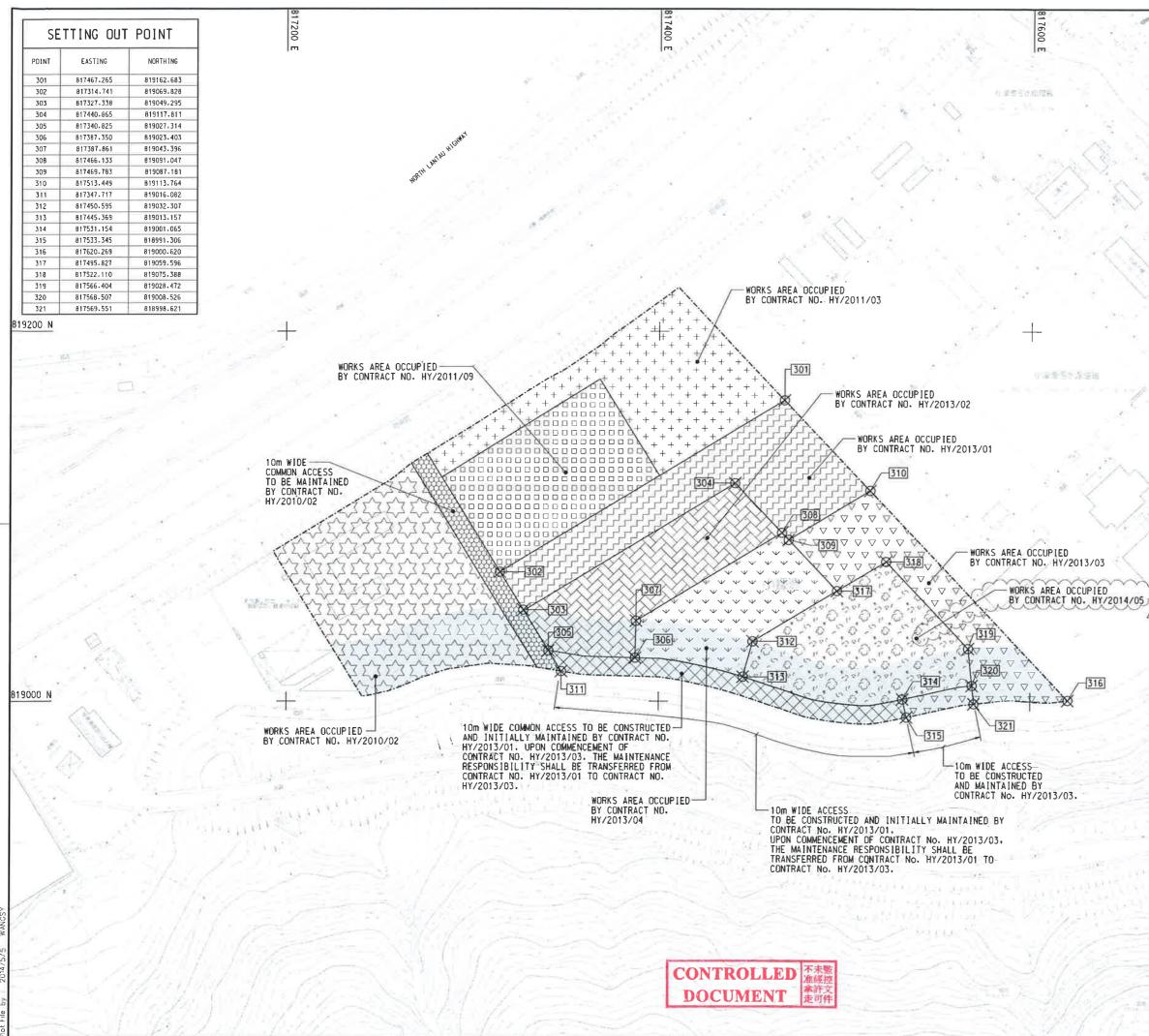
Appendix A

Location of Works Areas





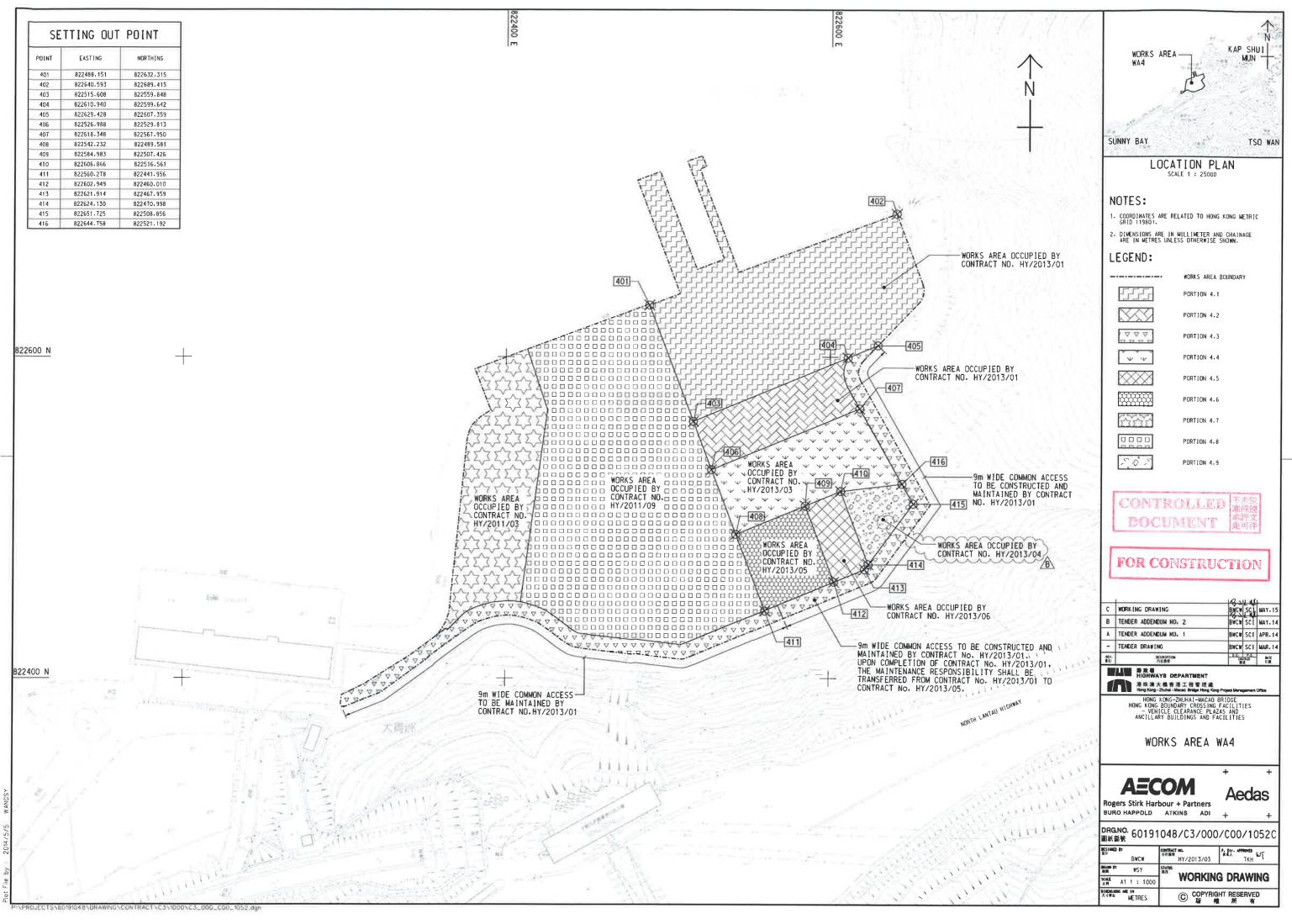
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Report No.: 0165/15/ED/0212

Appendix B

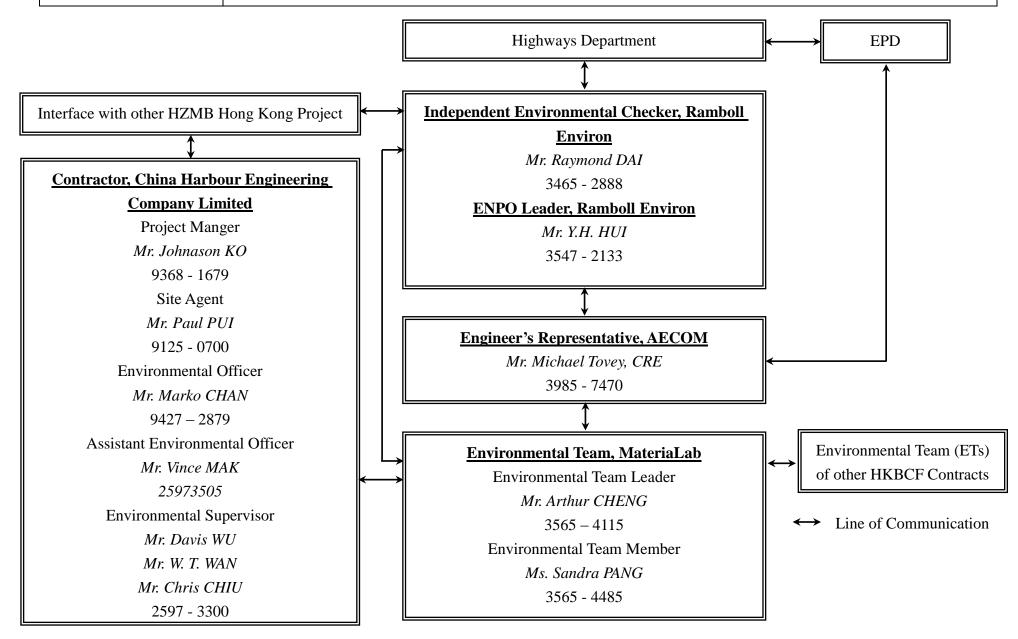
Project Organization for Environmental Works

CHINA HARBOUR ENGINEERING COMPANY LIMITED



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

Projects Organization for Environmental Works



Tel

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

: (852)-24508238 : (852)-24508032 Fax Email : mcl@fugro.com.hk **MateriaLab**

Report No.: 0165/15/ED/0212

Appendix C

Construction Programme

y ID	ndary Crossing Facilities - Vehicle Clearance Plazas and A Activity Name	Original	-	% Complete	Stort	Finich	Total Elect		2015		2016	30-Nov
y iD	Activity Name	Duration	Duration	% Complete	Start	Finish	Total Float	Nov	Dec	Jan	Feb	1
IKBCF - V	CP & Ancillary Buildings and Facilities, Rev. 3 U										1 00	<u> </u>
CONTRAC												
	I DATES											
Key Dates A1040	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec.	0	0	0%		04-Feb-16*	-51				KD4 Achievem	ent of S
A1040	15)	0	U	0 /8		04-160-10	-51					
Site Access	& Possession											
Possessio	n of Portion of Site											
A0040	Possession of Portion C (<=100 days)	0	0	0%		30-Nov-15*	-134		Possession of Portic			
A0050	Possession of Portion D (<=220 days)	0	0	0%		30-Nov-15*	-14		Possession of Portio			
A0070	Possession of Portion F (<=220 days)	0	0	0%		30-Nov-15*	-14		Possession of Portio			
A0080 A0090	Possession of Portion G (<=225 days) Possession of Portion H1 (<=273 days)	0	0	0% 0%		30-Nov-15* 07-Jan-16*	-9		Possession of Portion		Portion H1 (<=273 days	····
A0090	Possession of Portion H2 (<=273 days)	0	0	0%		07-Jan-16*	0				Portion H2 (<=273 days	1
A0110	Possession of Portion J (<=320 days)	0	0	0%		23-Feb-16*	0					Poss
	ge Subject to Excision	<u>, </u>										
A0710	Contract Date for Section IA (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0			 Contract Date f 	or Section IA (273 days,	, latest
A0720	Contract Date for Section IB (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0			Contract Date f	or Section IB (273 days,	, lates
A0740	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	0%	30-Nov-15*		-135		 Contract Date for Se 	ction IIB (100 days, latest d	ate when the Engineer	may o
A0750	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	0	0	0%	23-Feb-16*		0				•	Cont
A0760	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0			 Contract Date f 	or Section III (273 days,	lates
A0810	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0				Section IX (270 days, la	
A0820	Contract Date for Section X (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0				Section X (270 days, lat	
A0830	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0				Stage 20 (270 days, late	
A0840	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0		04-Jan-16*		0				Stage 21 (270 days, late	
A0850	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0				Stage 22 (270 days, late	
A0860	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)	0	0		04-Jan-16*		0				Stage 23 (270 days, late	
A0870	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0			 Contract Date for 	Stage 24 (270 days, late	∋st da
ORTION												
	Structures											
Bridge A9												1
Bored Pile												
S91010	Predrill SI, 10 nos.	61	24		10-Nov-15 A		-51					
	Bored pile for P904, A905, 4 nos.	58	58	0%	28-Dec-15	09-Mar-16	-51					_
	h Water Pumping Station, Portion A1 & A2					1						
A04700	Predrill SI, 4 nos.	12	0	100%	03-Nov-15 A	23-Nov-15 A						
	Piling 4nr.	50	50	0%	19-Feb-16	21-Apr-16	-79					
049 - Sewa	age Treatment Plant, Portion A1 & A2											1
	 							Date		Revision	Checked	Ap
Actual W	Vork ing Work					RAMME (IWP ARY BUILDIN		30-Sen-1			ZJ	
Critical		VERICLE	ULEARANCE	FLAZAS A	Page 1 of 7	ANT DUILUIN	IGS AND FAU	31-Oct-1			ZJ	
 Mileston 					. 490 1 01 /			30-Nov-1	15 Initial Works Pogramn	ne Rev. 3, 3MRP	ZJ	

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rtion A1 Buildings(2 - DOH Disinsection(01210Excavation(01210Excavation(01220Raft Founda(01240Supersturct(01240Supersturct(01240Supersturct(01240Supersturct(01240Super Struct(01240Super Struct(01240Super Struct(01240Substructure(03630Super Struct(03710Excavation(03710Excavation(03720Substructure(03730Super Struct(03730Super Struct(04100Excavation(04110Substructure(04210Driven Piles(04220Piling Test(04230Excavation(04240Substructure(05230Fitting out w(05230Fitting out w(05230Finishing (K(05230Finishing (K(05240BS Installati(05250Finishing (K(0510Excavation(10510Excavation(10510Excavation(10510Fabrication(10510Fabrication(10510Shop Drawi(10510Shop Drawi(10510Shop Carve(10510Shop Drawi(10510Shop Drawi(10510Shop Drawi(10510Shop Drawi(10510Shop Drawi(10510Shop Drawi(10510Shop Drawi(10510<	ed Piling (39 Nr.)	127	127		23-Dec-15	01-Jun-16	-92		i ! !
12 - DOH Disinsection 0.01210 Excavation 0.01210 Raft Founda 0.01220 Raft Founda 0.01220 Raft Founda 0.01220 Supersturct 0.01240 Supersturct 0.01240 Supersturct 0.01240 Supersturct 0.01240 Super Struct 0.03630 Super Cum 0.03630 Super Struct 0.03710 Excavation 0.03720 Substructure 0.03730 Super Struct 0.03730 Super Struct 0.04110 Excavation 0.04210 Driven Piles 0.04220 Piling Test 0.04230 Excavation 0.04240 Substructure 0.05230 Fitting out w 0.05230 Fitting out w 0.05230 Finishing (K 0.05230 Shop Drawi 810580	eet Piling as ELS1 for Equalization Tanks	12	12	0%	24-Feb-16	08-Mar-16	-92		
01210Excavation01220Raft Founda01240Supersturct36 - Weigh Station303630303630Super Struct37 C&ED Tower Cum03710Excavation03720Substructur03730Super Struct31 Fire Station Cum A04100Excavation04110Substructur04210Driven Piles04220Piling Test04220Substructur04230Excavation04220Substructur05220Superstructur05230Fitting out w05235Energisation05240BS Installati05250Finishing (K051MMD Guard BootShop Drawi810580Shop Drawi810590Fabricationternal Works for Porrainage Works600010Initial Surve600030Sewerage (
01220Raft Founda001240Supersturct001240Supersturct001240Supersturct001240Super Struct003630Super Struct003630Super Struct003710Excavation003710Excavation003720Substructure003730Super Struct01110Excavation003730Super Struct003730Super Struct003730Super Struct003730Super Struct004100Excavation04210Driven Piles04220Piling Test04230Excavation04240Substructure05230Fitting out w05230Fitting out w05230Finshing (K05240BS Installati05250Finishing (K05210Excavation10510Excavation10520Shop Drawi10530Shop Drawi10590Fabrication10500Initial Surve100010Initial Surve100010Sewerage (nsection Area and Store Room 1, at Portion A1	1							
01240Supersturct36 - WeighStation36 - WeighStation37 C&EDTower Cum37 C&EDTower Cum37 C&EDSubstructure37 C&EDDriven Piles37 C&EDPiling Test303730Superstructure304100Excavation304210Driven Piles304220Piling Test304230Excavation304240Substructure305230Fitting out w305230Fitting out w305230Finishing (K305240BS Installati305250Finishing (K305210Excavation305230Shop Drawi310510Excavation3200010Initial Surve300010Initial Surve300010Sewerage (avation & Blinding	10	10	0%	31-Dec-15	12-Jan-16	-101		
36 - Weigh Station.03630Super Struct.03630Super Struct.03710Excavation.03710Substructure.03720Substructure.03730Super Struct.03730Super Struct.03730Super Struct.03730Super Struct.03730Super Struct.04100Excavation.04110Substructure.04210Driven Piles.04220Piling Test.04230Excavation.04240Substructure.05220Superstructure.05230Fitting out w.05230Fitting out w.05230Finishing (K.05240BS Installati.05250Finishing (K.0510Excavation.05250Shop DrawiB10590Fabrication.050010Initial Surve.00010Initial Surve.00030Sewerage (t Foundation	20	20	0%	13-Jan-16	04-Feb-16	-101		1 1 1
A03630Super StructA03630Super StructA03710ExcavationA03710ExcavationA03720SubstructureA03730Super StructA1 Fire Station Cum /A04100ExcavationA04100ExcavationA04100ExcavationA04210Driven PilesA04200Piling TestA04200ExcavationA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA04200SubstructureA05230Fitting out wA05230Finishing (KA05240BS InstallatiA05250Finishing (KA05100ExcavationA10510ExcavationA10510FabricationA10590FabricationA10590FabricationA10590Initial SurveA00010Initial SurveA00010Sewerage (persturcture	35	35	0%	05-Feb-16	19-Mar-16	-101		
37 C&ED Tower Cum 03710Excavation03710Substructure03720Substructure03730Super Struct 11 Fire Station Cum / 04100Excavation04110Substructure04110Substructure04210Driven Piles04220Piling Test04230Excavation04240Substructure05220Supersturcture05230Fitting out w05235Energisation05240BS Installati05250Finishing (K05210Excavation10510Excavation10510Excavation10510Excavation10510Excavation10510Excavation10510Excavation10510Fabrication10510Fabrication10510Fabrication10510Initial Surve10500Shop Drawi10500Sewerage (tion								
.03710Excavation.03720Substructure.03730Super Struct.03730Super Struct.04100Excavation.04100Excavation.04110Substructure.04210Driven Piles.04210Driven Piles.04220Piling Test.04230Excavation.04240Substructure.05220Superstructure.05230Fitting out w.05235Energisation.05240BS Installati.05250Finishing (K.05100Excavation.05250Shop DrawiB10510Shop DrawiB10590Fabrication.050010Initial Surve.00010Sewerage (per Structure	90	0	100%	06-Oct-15 A	19-Nov-15 A	1		
.03710Excavation.03720Substructure.03730Super Struct.03730Super Struct.04100Excavation.04100Excavation.04110Substructure.04210Driven Piles.04210Driven Piles.04220Piling Test.04230Excavation.04240Substructure.05220Superstructure.05230Fitting out w.05235Energisation.05240BS Installati.05250Finishing (K.05100Excavation.05250Shop DrawiB10510Shop DrawiB10590Fabrication.050010Initial Surve.00010Sewerage (
.03720Substructure.03730Super Structure.04100Excavation.04100Excavation.04110Substructure.04100Driven Piles.04210Driven Piles.04230Excavation.04240Substructure.04230Excavation.04240Substructure.04230Excavation.04240Substructure.05230Fitting out w.05235Energisation.05240BS Installati.05250Finishing (K.05100Excavation.05250Finishing (K.05100Excavation.05200Shop DrawiB10510Fabrication.05000Initial Surve.00010Initial Surve.00010Sewerage (er Cum Inbound Cargo Examination Building ((Portion A1 & B)							
A03730Super StructA1 Fire Station Cum / a04100ExcavationA1 Fire Station Cum / a04100Excavationa04110Substructurea04210Driven Pilesa04220Piling Testa04230Excavationa04240Substructurea04240Substructurea04240Substructurea04240Substructurea05220Supersturcturea05230Fitting out wa05235Energisationa05240BS Installatia05250Finishing (Ka05250Finishing (Ka05250Shop DrawiB10510Excavationacade Envelop StructureB10590Fabricationternal Works for Por rainage Worksacould Initial Surveacould Sewerage (avation	14	7	50%	07-Oct-15 A	07-Dec-15	-102		
A03730Super StructA1 Fire Station Cum / a04100ExcavationA1 Fire Station Cum / a04100Excavationa04110Substructurea04210Driven Pilesa04220Piling Testa04230Excavationa04240Substructurea04240Substructurea04240Substructurea04240Substructurea05220Supersturcturea05230Fitting out wa05235Energisationa05240BS Installatia05250Finishing (Ka05250Finishing (Ka05250Shop DrawiB10510Excavationacade Envelop StructureB10590Fabricationternal Works for Por rainage Worksacould Initial Surveacould Sewerage (
If Fire Station Cum /0.04100Excavation0.04100Substructure0.04110Substructure0.04110Driven Piles0.04210Driven Piles0.04210Piling Test0.04220Piling Test0.04230Excavation0.04240Substructure0.05220Superstructure0.05230Fitting out w0.05230Fitting out w0.05230Finshing (K0.05250Finishing (K0.05250Finishing (K0.0510Excavationacade Envelop StructureB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works600010Initial Surve600030Sewerage (structure	50	25	50%	13-Oct-15 A	08-Jan-16	-102		
If Fire Station Cum /0.04100Excavation0.04100Substructure0.04110Substructure0.04110Driven Piles0.04210Driven Piles0.04210Piling Test0.04220Piling Test0.04230Excavation0.04240Substructure0.05220Superstructure0.05230Fitting out w0.05230Fitting out w0.05230Finshing (K0.05250Finishing (K0.05250Finishing (K0.0510Excavationacade Envelop StructureB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works600010Initial Surve600030Sewerage (110	110	0.0/	00. lan 10	00 May 10	100		
004100Excavation004110Substructure12 Drill Tower004210004210Driven Piles004200Piling Test004200Excavation004200Substructure004200Substructure004200Substructure004200Substructure005200Supersturcture005230Fitting out w005235Energisation005250Finishing (K005250Finishing (K005250Finishing (K00510Excavationacade Envelop StructureB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works600010Initial Surve600030Sewerage (110	110	0%	09-Jan-16	26-May-16	-102		
.04110 Substructure .04210 Driven Piles .04210 Driven Piles .04210 Piling Test .04230 Excavation .04230 Substructure .04230 Substructure .04230 Substructure .04230 Substructure .04240 Substructure .04240 Substructure .052 Transforms (Zone .05230 Fitting out w .05235 Energisation .05240 BS Installati .05250 Finishing (K .05250 Finishing (K .05210 Excavation .05250 Finishing (K .0510 Excavation .05250 Finishing (K .0510 Excavation .05250 Shop Drawi B10590 Fabrication .0500010 Initial Surve .000010 Sewerage (4.4		0.0(00 No. 45	45 D + 45	47		1
12 Drill Tower 04210 Driven Piles 04210 Piling Test 04220 Piling Test 04230 Excavation 04240 Substructure 05220 Supersturct 05230 Fitting out w 05235 Energisation 05240 BS Installati 05250 Finishing (K 051010 Excavation acade Envelop Structure B10580 Shop Drawi B10590 Fabrication rainage Works 300010 Initial Surve 300010 Sego030 Sewerage (-	14	14			15-Dec-15	-47		1
04210Driven Piles04220Piling Test04230Excavation04230Excavation04240Substructure05240Supersturcture05235Energisation05240BS Installati05250Finishing (K0510Excavation10510Excavation10580Shop Drawi10590Fabrication10590Fabrication10590Initial Surve100010Initial Surve100010Sewerage (84	84	0%	24-Dec-15	11-Apr-16	-54		
04220Piling Test04230Excavation04240Substructure052 - Transforms (Zond)05220Supersturcture05230Fitting out w05235Energisation05240BS Installati05250Finishing (K05250Finishing (K0510Excavation6acade Envelop StructureB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works600010Initial Surve660030Sewerage (
04230Excavation.04240Substructure.04240Substructure.04240Substructure.052Transforms (Zong.05230Fitting out w.05235Energisation.05240BS Installati.05250Finishing (K.05250Finishing (K.05210Excavation.05250Finishing (K.05210Excavation.05250Finishing (K.05250Finishing (K.05250Fabrication.05200Fabrication.050010Initial Surve.00010Sewerage (15	15		07-Dec-15	23-Dec-15	-54		
04240Substructure2 - Transforms (Zond)05220Supersturcture05230Fitting out w05235Energisation05240BS Installati05250Finishing (K0510Excavationacade Envelop StructureB10580Shop DrawiB10590Fabricationternal Works for Portrainage Works000010Initial Surve00030Sewerage (-	10	10		24-Dec-15	07-Jan-16	-13		
52 - Transforms (Zond)0.05220Supersturct0.05230Fitting out w0.05235Energisation0.05240BS Installati0.05250Finishing (K0.05250Finishing (K0.05250Excavation0.05250Excavation0.05250Finishing (K0.05250Finishing (K0.05250Fabrication1.05250Fabrication1.05250Fabrication1.05250Fabrication1.05250Initial Surve0.0010Initial Surve0.0030Sewerage (14	14		08-Jan-16	23-Jan-16	-13		
.05220Supersturct.05230Fitting out w.05235Energisation.05240BS Installati.05250Finishing (K.05250Finishing (K.05210Excavation.05250Shop Drawi.05250Shop Drawi.05250Fabrication.05250Fabrication.05250Fabrication.05250Fabrication.05250Fabrication.0500Initial Surve.00010Initial Surve.00030Sewerage (35	35	0%	25-Jan-16	08-Mar-16	-13		
.05230Fitting out w.05235Energisation.05235Energisation.05240BS Installati.05250Finishing (K.0510Excavation.0510Excavation.05250Shop DrawiB10510Shop DrawiB10580Shop DrawiB10590Fabrication.000010Initial Surve.00030Sewerage (((
005235Energisation005240BS Installati005250Finishing (K05250Finishing (K0510Excavation0510Excavation0500Shop DrawiB10580Shop DrawiB10590Fabricationternal Works for Por rainage Works000010Initial Surve000010Sewerage (ersturcture	64	0	100%	21-Sep-15 A	30-Nov-15 A			
005235Energisation005240BS Installati005250Finishing (K05250Finishing (K0510Excavation0510Excavation0500Shop DrawiB10580Shop DrawiB10590Fabricationternal Works for Por rainage Works000010Initial Surve000010Sewerage (ng outworks in Ty Doom to CLD (KDA)		EE	0.0/	20 Nov 15	04-Feb-16	41		
05240BS Installati05250Finishing (K05250Finishing (K05100Excavation10510Excavation10510Shop Drawi10580Shop Drawi10590Fabrication10590Fabrication10590Initial Surve100010Initial Surve100010Sewerage (ng out works in Tx Room to CLP (KD4)	55 50	55 50		30-Nov-15 05-Feb-16	11-Apr-16	-41		1
05250Finishing (K05 IMMD Guard Boot0510510Excavationcacade Envelop StructuB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works000010Initial SurveG0030Sewerage (66	66		30-Nov-15	20-Feb-16	27		
D5 IMMD Guard Boot10510Excavationacade Envelop StructuB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works300010Initial SurveG0030Sewerage (87	87		30-Nov-15	16-Mar-16	6		
110510 Excavation acade Envelop Structu B10580 Shop Drawi B10590 Fabrication ternal Works for Portainage Works 800010 Initial Surve 660030 Sewerage (07	07	0 /8	30-1100-13	10-10141-10	0		1
acade Envelop StructuB10580Shop DrawiB10590Fabricationternal Works for Porrainage Works000010Initial SurveG0030Sewerage (5	5	09/	13-Jan-16	18-Jan-16	-50		
B10580Shop DrawiB10590Fabricationternal Works for Por rainage Works000010Initial Surve00030Sewerage (-	5	5	070	13-Jan-10	10-Jan-10	-50		
B10590 Fabrication ternal Works for Portrainage Works 000010 Initial Surve 000030 Sewerage (op Drawing Submission and Approval	30	30	0%	04-Jan-16	06-Feb-16	17		
ternal Works for Por rainage Works 000010 Initial Surve 060030 Sewerage (prication of F/C System	60	60		11-Feb-16	25-Apr-16	17		
rainage Works 200010 Initial Surve 3G0030 Sewerage (-	00	00	078	11-1 60-10	23-Api-10			
G00010 Initial Surve G0030 Sewerage (
G0030 Sewerage (^	0.01			10.4		
	ai Survey	6	6	0%	17-Aug-15 A	05-Dec-15	-134		
	verage (1063m & 30MHs)	300	300	00/	15-Dec-15	17-Dec-16	-41		
		300	300	0%	10-080-10	17-Dec-10	-41		
rtion A2 Structures									
18 - Reclaimed Water	d Water Pumping Station, Portion A2								

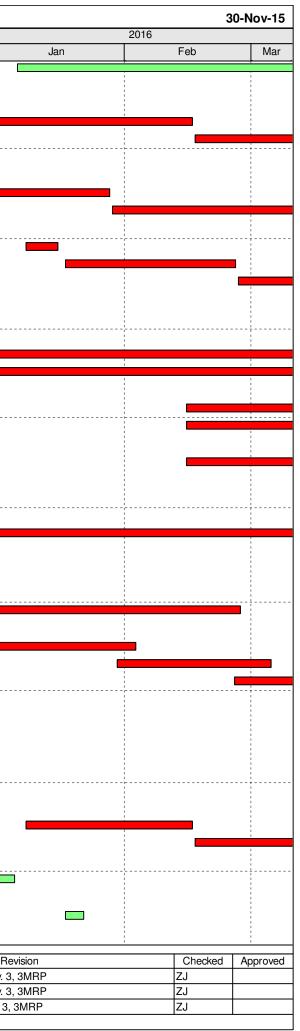
Actual Work	THREE MONTH ROLLING PROGRAMME (IWP REV.3)	Date	Revi
Remaining Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	30-Sep-15	Initial Works Programme Rev. 3, 3
		31-Oct-15	Initial Works Programme Rev. 3, 3
	Page 2 of 7	30-Nov-15	Initial Works Pogramme Rev. 3, 3
♦ Milestone			



ID	Activity Name	Original	Remaining	% Complete	Start	Finish	Total Float		201	15
		Duration	Duration					Nov		Dec
A04810	Predrill SI, 4 nos.	13	0	100%	03-Nov-15 A	23-Nov-15 A				
A04820	Piling 4nr.	52	52		14-Dec-15	18-Feb-16	-79			
A04830	Sheet Piling as ELS for Basement 1	12	12	0%	19-Feb-16	03-Mar-16	-79			
	orks for Portion A2									
Drainage										
B00020	Initial Survey	6	6	0%	30-Nov-15	05-Dec-15	-131		1	
ORTION	B									
Portion B S	Structures									
027 - Staff	Subway									
C02720	Seg. 8-13 Construction - Base Slab	21	19	10%	03-Nov-15 A	13-Apr-16	-68			
028 - Staff	Subway									
C02810	ELS + Blind (Seg. 28-36 (12 Bay)	42	42	0%	14-Dec-15	03-Feb-16	-82			
C02820	Seg. 20-27 Construction - Base Slab	28	28	0%	30-Jan-16	05-Mar-16	-82			
C02830	Seg. 20-27 Construction - Wall + Top Slab	37	37	0%	26-Feb-16	13-Apr-16	-82			
ortion B E	Buildings									
027/02 <mark>8 I</mark> n	bound Kiosks & 029 Outbound Kiosks									
A02700	Submission & Approval for Steel Works	50	50	0%	30-Nov-15	29-Jan-16	-63		į.	
A02710	Pre-fabrication for the Steel Kiosks	100	100	0%	30-Jan-16	04-Jun-16	-63			
027/ <u>028 In</u>	bound Kiosks & 029 Outbound Kiosks, Section IX,	Subject to Excisio	n							
B02730	Submission & Approval for Steel Works	75	75	0%	04-Jan-16	07-Apr-16	5			
	nd IMMD and DOH Secondary Screening Building					· · ·				
A02610	Excavation + Blinding	10	10	0%	28-Dec-15	08-Jan-16	-104			
	nd Fixed X-ray Building									
A05420	Excavation + Blinding	10	10	በ%	30-Nov-15	10-Dec-15	-110			
A05430	Substructure	50	50		11-Dec-15	13-Feb-16	-110		1	
A05440	Super Structure for Tx Room	60	60		15-Feb-16	28-Apr-16	-110			
038 AFCD				<u> </u>						
A03810	Excavation + Blinding	7	7	በ%	28-Dec-15	05-Jan-16	-43			
	Main Building	,		0 /8	_0 000 10					
A03910	Excavation + Blinding	12	12	Nº /.	30-Nov-15	12-Dec-15	-110			
A03910 A03920	Substructure	70	70		14-Dec-15	10-Mar-16	-110			
	nt Control Tower	70	70	U /0			-110			
A040110	Excavation + Blinding	10	10	00/	14-Dec-15	24-Dec-15	-50		·····	
	adding System	10	10	0%	14-060-13	24-060-10	-50			
B04010	Shop Drawing Submission and Approval	30	30	በ%	03-Feb-16	11-Mar-16	94			
Glass Wall			00	0 78			57			
C04010	Shop Drawing Submission and Approval	30	30	በ%	30-Nov-15	06-Jan-16	10			
C04010	Fabrication of Glass Wall	60	60		07-Jan-16	19-Mar-16	10			
	UVSS Monitor Room		00	0 /0						
A10200	Excavation + Blinding	7	7	በ%	28-Dec-15	05-Jan-16	50			
	opy and Roof Installation	/	1	U /0	L0 D60-10	55 Jan-10	50			
B10210	Shop Drawing Submission and Approval	30	30	۵%	22-Dec-15	28-Jan-16	55			
B10210	Fabrication of MC/R	60	60		29-Jan-16	15-Apr-16	55			
	Inspection Post		00	0 /0						
A10310	Excavation + Blinding	5	5	N %	19-Dec-15	24-Dec-15	-104			
	posite Panel Cladding System	5	5	U /0	10 060-10	24 060-10	-104			
B10310	Shop Drawing Submission and Approval	30	30	በ%	30-Nov-15	06-Jan-16	142		i i i	
510010		50	50	U /0	00 1404-10	50 Jan-10	142		<mark>:</mark>	
المارية الم	Novic		TUD						Date	
Actual V									30-Sep-15	Initial Works Progra
	ing Work	VEHICLE	CLEARANC	E PLAZAS		ARY BUILDIN	IGS AND FA		31-Oct-15	Initial Works Progra
Critical		1			Page 3 of 7			-	30-Nov-15	Initial Works Pograr

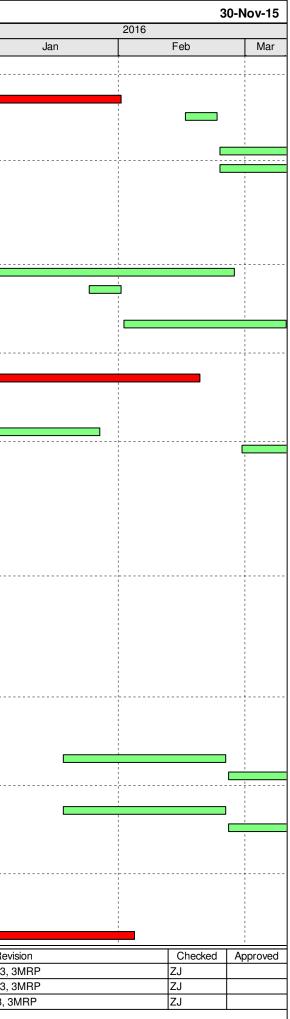


/ ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	20		
B10320	Fabrication of HPL Cladding	60	60	00/	07-Jan-16	19-Mar-16	142	Nov	Dec	
	rmers (Zone 2)	00	00	0 /8	07-0411-10	13-10121-10				
	Excavation + Blinding	10	10	0%	30-Nov-15	10-Dec-15	-110			
A05720	Raft Foundation	52	52	0%	11-Dec-15	16-Feb-16	-110			i.
A05730	Supersturcture	65	65	0%	17-Feb-16	07-May-16	-110			
107 - C&ED	Mobile X-ray Operation Office (Cargo), Portion B									
-	Excavation + Blinding	7	7	0%	11-Dec-15	18-Dec-15	-110			
C10720	Raft Foundation	32	32	0%	19-Dec-15	28-Jan-16	-110			
C10730	Superstructure (Roof Slabs)	62	62	0%	29-Jan-16	18-Apr-16	-110			
113 - Field H	Kiosk for Access Control, Portion B									
B11310	Excavation + Blinding	7	7	0%	09-Jan-16	16-Jan-16	-104			
B11320	Raft Foundation	32	32	0%	18-Jan-16	26-Feb-16	-104			
B11330	Superstructure (Roof Beams & Slabs)	60	60	0%	27-Feb-16	12-May-16	-104			
External Wo	rks for Portion B					-				
Drainage W	orks									
	Initial Survey	12	12	0%	30-Nov-15	12-Dec-15	-110			
	Drainage Works (7812m & 168MHs)	360	360		14-Dec-15	03-Mar-17	-105			
	Sewerage (1175m & 32MHs)	360	360		14-Dec-15	03-Mar-17	-105			
Waterpipe L										
	Fresh Water Main Laying (1972m)	360	360	0%	15-Feb-16	05-May-17	-105			
	Flushing Water Main Laying (1851m)	360	360		15-Feb-16	05-May-17	-105			
	for Utilities/Telecom Cabling, TCSS & Lighting			0,0	1010010					
	Duct Laying for Utilities/Telecom Cabling	360	360	0%	15-Feb-16	05-May-17	-105			
	ADS 306A & ADS 306B	000	000	0 /0	1010010	00 May 17	100			
	Sign Gantry ADS 306B SI Drilling, 2 Nr.	6	6	0%	15-Dec-15	21-Dec-15	-36			
	Sign Gantry ADS 306B SI Drilling, 2 Nr.	7	7		07-Dec-15	14-Dec-15	-36			
	Submission and approval for Sign Gantry	180	180		30-Nov-15	12-Jul-16	-83			
PORTION C		100	100	0 /8	30-1101-13	12-501-10	-03			
Portion C Bu	-									
	nd Coach Kiosk & Staff Subway Entrance								<u></u>	
	Substructure and Staircase Construction	60	60	0%	14-Dec-15	27-Feb-16	-110			
	e Bus Kiosk & Staff Subway Entrance									
	ELS + Blinding (Seg. 1-7) (7 bay)	42	42		14-Dec-15	03-Feb-16	-98			:
	Constructing Base Slab of Seg. 1-7	28	28		30-Jan-16	05-Mar-16	-98			
	Constructing Wall + Top Slab of Seg. 1-7	37	37	0%	26-Feb-16	13-Apr-16	-98			
	Disinsection Area and Store Room 1, at Portion C									
	Excavation & Blinding	10	10	0%	11-Dec-15	22-Dec-15	-101			
104 - DOH S	econdary Screening Station, at Portion C									
A10420	Excavation & Blinding	5	5	0%	23-Dec-15	30-Dec-15	-101		ſ	
108 C&ED N	Nobile X-ray Machine Operation Office, Portion C									
A10805	Excavation & Blinding	5	5	0%	05-Dec-15	10-Dec-15	-101			
HPL Compo	site Panel Cladding System									
A10800	Shop Drawing Submission and Approval	30	30	0%	09-Jan-16	16-Feb-16	-70			
A10815	Fabrication of HPL Cladding	60	60	0%	17-Feb-16	30-Apr-16	-70			
110 IMMD G	uard Booth (Type 2)									
A11020	Excavation & Blinding	5	5	0%	31-Dec-15	06-Jan-16	135			
111 Field Ki	osk for Carpark Operator					·				
	Excavation & Blinding	5	5	0%	18-Jan-16	22-Jan-16	67			
	Kiosk for Access Control, Portion C									
Actual Wo	ork		THREE N		LING PRO	GRAMME (IWF	P REV.3)	Date		R
Remaining		VEHICLE				•		ITIES 30-Sep-15	Initial Works Progra	
Critical					Page 4 of 7	_ 2		31-Oct-15	Initial Works Progra	
					5			30-Nov-15	Initial Works Pogra	nme Kev. 3.



	undary Crossing Facilities - Vehicle Clearance Plazas				E State	Tatal Floor		15	1		30-Nov-
<i>i</i> ity ID	Activity Name	Original Duration	Remaining Duration	% Complete Start	Finish	Total Float	20 Nov	15 Dec	Jan	2016 Feb	M
C11310	Excavation & Blinding	5	5	0% 30-Nov-15	04-Dec-15	-110	INOV	Dec	Jan	Feb	
C11320	Raft Foundation	30	30	0% 05-Dec-15		-110				·	
C11330	Superstructure (Roof Beams & Slabs)	60	60	0% 03-Dec-13		-110					1
	orks for Portion C	00	00		23 Mai 10						1
Drainage V											1
	Initial Survey	12	12	0% 30-Nov-15	12-Dec-15	-98					
PORTION	-	12	12	0 /8 30-1100-13	12-Dec-13	-30					
Portion D E											
	I Kiosk for Access Control, Portion D	-	e l								
	Excavation & Blinding	5	5	0% 07-Jan-16	12-Jan-16	155					
	orks for Portion D							 	 		
Drainage V											
	Initial Survey	6	6	0% 30-Nov-15		73					
SG3640	Drainage Works (555m & 13MHs)	100	100	0% 07-Dec-15	•	73					
	Sewerage (121m & 6MHs)	100	100	0% 07-Dec-15	12-Apr-16	73					
Waterpipe		1								·····	
	Fresh Water Main Laying (108m)	100	100	0% 06-Feb-16	13-Jun-16	73					1
	ng for Utilities/Telecom Cabling, TCSS & Lighting										
	Duct Laying for Utilities/Telecom Cabling	100	100	0% 06-Feb-16		97					:
SU5350	Duct Laying for TCSS & Lighting	100	100	0% 06-Feb-16	13-Jun-16	97					:
PORTION						/			 	· · · · · · · · · · · · · · · · · · ·	
External Wo	orks for Portion E										
Drainage V	Works										
B00060	Initial Survey	6	6	0% 30-Nov-15	05-Dec-15	86					1
PORTION	F										1
External Wo	orks for Portion F										
Drainage V	Works								· · · · · · · · · · · · · · · · · · ·		
	Initial Survey	6	6	0% 30-Nov-15	05-Dec-15	265					
	G, H1 & H2	, ,			J						
Portion G S											
Box Culve											
Steel H Pile										· · · · · · · · · · · · · · · · · · ·	
SC0210	Predrill SI for Box Culvert C, 11 Nr.	66	0	100% 01-Sep-15	A 31-Oct-15 A						
300210		00	0	100 % 01-Sep-13							
SC0220	Predrill SI for Box Culvert C, 12 Nr.	36	0	100% 02-Oct-15	A 31-Oct-15 A						
SC0230	Predrill SI for Box Culvert C 19 Nr.	30	6	80% 02-Nov-15	A 30-Dec-15	91					
SC5130	Box C - 164 nos. of driven H pile	60	60	0% 15-Jan-16	31-Mar-16	91				· · · · · · · · · · · · · · · · · · ·	
Bridge A1											
Bored Pile)										
S10110	Predrill SI, 10 nos.	30	30	0% 14-Dec-15	20-Jan-16	78					
Bridge A2											
Bored Pile)										
S21410	Bore pile + P301 + P601, (6 + 4) Nr.	73	73	0% 26-Nov-15	A 27-Aug-16	-92					
Bridge A3											
Bored Pile											1
S31630	Bore piling for A305, P304a/b (5 Nr.)	43	43	0% 02-Feb-16	29-Mar-16	-1					
Actual W	Nork			ONTH ROLLING PRO		D REV 2)	Date		Revision	Checked	Appro
	ning Work			PLAZAS AND ANCI		-	30-Sep-15	Initial Works Programn		ZJ	
Critical	-			PLAZAS AND ANCI Page 5 of			31-Oct-15	Initial Works Programn		ZJ	
United	ne			i age 5 01	,		30-Nov-15	Initial Works Pogramm	e Rev. 3, 3MRP	ZJ	

ity ID	ndary Crossing Facilities - Vehicle Clearance Pla	Original	-	% Complete	Start	Finish	Total Float	20	015
		Duration	Duration		Oldit			Nov	Dec
Bridge A4									
Bored Pile									
S42320	Bore pile 4 Nr.	33	33	0%	22-Dec-15	01-Feb-16	-1		
S42340	Pile Testing	7	7		16-Feb-16	23-Feb-16	24		
Pile Cap		· _ · · / · /	-	0,0		2010010			
S42360	Cap - Pier P401	30	30	0%	24-Feb-16	01-Apr-16	24		
S42370	Cap - Pier P402	30	30		24-Feb-16	01-Apr-16	24		
Bridge A5				0,0		01740			
Bored Pile									
S52610	Predrill SI, 15 nos.	18	0	100%	22-Sep-15 A	31-Oct-15 A			
					·				
S52620	Predrill SI for others 4 nos.	6	6	0%	14-Dec-15	19-Dec-15	37		
S52630	Bore piling for 19 Nr.	60	60	0%	14-Dec-15	27-Feb-16	11		1
S52640	Pile Testing for P504, P505	7	7	0%	25-Jan-16	01-Feb-16	11		
Pile Cap	· · · · ·								
S52710	Cap for P504, P505	30	30	0%	02-Feb-16	10-Mar-16	11		
Bridge A6									
Bored Pile									· · ·
S63510	Bore pile for P606, A607/A711, 6 Nr.	46	46	0%	22-Dec-15	19-Feb-16	-36		
	n, A7b, A7c		_						1 1 1
Bored Pile									
S74150	Predrill SI for P701, P702 - P705, 10 Nr.	30	30	0%	21-Dec-15	27-Jan-16	37		
S74170	Bore Piling for A701, P702 - P705, 10 Nr.	42	42		20-Nov-15 A		13		
074170			74	0 /0	201001107	2170110	10		
Bridge A8]				
Bored Pile									
	Predrill SI for P803, P804 4 nos.	25	0	100%	30-Jul-15 A	23-Nov-15 A			
000110		25	U	100 /8	50-501-15 A	20-1101-137			
S86120	Predrill SI for P802 2 nos.	13	0	100%	17-Nov-15 A	23-Nov-15 A			
000.20			C I						
Retaining	Walls W1-1, W3-1, W5-1 & W7-1				1				-
Retaining									
S37110	Predrill SI for W3-1, 12 Nr.	36	0	100%	12-Sep-15A	27-Nov-15 A			
			-						
S37120	Predrill SI for W3-1, other 4 Nr.	12	0	100%	02-Nov-15 A	27-Nov-15 A			
Portion G E	Buildings								
033 Inbou	nd Private Car Exam Building								
	Excavation + Blinding	10	10	0%	11-Dec-15	22-Dec-15	95		
	opy Installation								
B03300	Shop Drawing Submission and Approval	30	30	0%	19-Jan-16	25-Feb-16	112		
B03305	Fabrication of Glass Canopy	60	60		26-Feb-16	11-May-16	112		
	Metal Canopy		00		2010010	TT May To			
B03310	Shop Drawing Submission and Approval	30	30	0%	19-Jan-16	25-Feb-16	148		
B03315	Fabrication of F/C System	60	60		26-Feb-16	11-May-16	148		
	representation of the objection of the o	00	00	0 /0	2010010	TT May TO	140		
		14	14	0.9/	14 Dec 15	21 Dec 15	10		
A03525	Approval of Rockhead & Founding	14	14	0%	14-Dec-15	31-Dec-15	12		
	ormers (Zone 5)		_1		00 N				
A05100	Excavation + Blinding	5	5		30-Nov-15	04-Dec-15	-7		
A05110	Substructure	15	15		05-Dec-15	22-Dec-15	-7		
A05140	Super Structure	35	35	0%	23-Dec-15	04-Feb-16	-7		
Actual V	/ork					RAMME (IWP	BEV.3)	Date	
	ng Work					•	GS AND FACILI	30-Sep-15	
Critical					Page 6 of 7		SU AND I AULI	31-Oct-15	Initial Works Programme F
								30-Nov-15	Initial Works Pogramme R



ity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	Nov	2015	Dec
A05150	Finishing	60	60	0%	05-Feb-16	22-Apr-16	114			200
A05160	BS + E&M for Tx Room to CLP (Stage 3A)	59	59	0%	05-Feb-16	21-Apr-16	-7		·	
100 Inbou	nd Traffic Control Kiosk					·				
	Excavation + Blinding	5	5	0%	05-Dec-15	10-Dec-15	38			_
A10010	Raft Foundation	15	15		05-Feb-16	25-Feb-16	-7			
A10040	Super Structure (Roof Beams & Slabs)	30	30		26-Feb-16	05-Apr-16	-7			
	posite Panel Cladding System								·	
B10010	Shop Drawing Submission and Approval	30	30	0%	30-Nov-15	06-Jan-16	62		! 	
B10015	Fabrication of F/C System	60	60	0%	07-Jan-16	19-Mar-16	62			
External W	orks for Portion G, H1 & H2									
Drainage V	· · · · · · · · · · · · · · · · · · ·									
B00080	Initial Survey	12	12	0%	30-Nov-15	12-Dec-15	-7		· <mark></mark>	
	ry DS40, DS41 & DS75		12	0 /0			,			
	Sign Gantry DS40 SI Drilling, 3 Nr.	13	13	∩0/	16-Jan-16	30-Jan-16	76			
SS0010 SS0030	Sign Gantry DS40 Si Drilling, 1 Nr.	13	13		16-Jan-16	30-Jan-16	76			
SS0030	Sign Gantry DS75 SI Drilling, 2 Nr.	7	7		08-Jan-16	15-Jan-16	76			
SS0170	Submission and approval for Sign Gantry	90	90		30-Nov-15	19-Mar-16	70		·····	
PORTION		50	50	0 /8	30-1100-13	13-10121-10	,		1	
Portion J S										
	und Staff Subway (Portion J)									
B03010	ELS + blinding (Seg. 37-54) (18 bay)	55	55	0%	24-Feb-16	03-May-16	0			
030 Outbo	und Private Car & GV Kiosks									
A03010	Submission & Approval for Steel Works	60	60	0%	16-Dec-15	01-Mar-16	4			
	und Kiosks, Section IX, Subject to Excision				1					
C03010	Submission & Approval for Steel Works	100	100	0%	04-Jan-16	07-May-16	0			
Portion J B	Buildings									
024 Outbo	und Private Car Exam Building									
Glass Can	opy Installation									
B02410	Shop Drawing Submission and Approval	30	30	0%	24-Feb-16	01-Apr-16	109			
Aluminium	Metal Canopy									
B02450	Shop Drawing Submission and Approval	30	30	0%	24-Feb-16	01-Apr-16	124			
031 Outbo	und IMMD and DOH Secondary Screen Building									
A03100	Excavation + Blinding	10	10	0%	24-Feb-16	05-Mar-16	89			
061 Teleco	om Building									
A06120	Excavation + Blinding	5	5	0%	24-Feb-16	29-Feb-16	98			
	und Traffic Control Kiosk									
A10100	Excavation + Blinding	5	5	0%	24-Feb-16	29-Feb-16	2		·	
HPL Comp	posite Panel Cladding System				I					
B10110	Shop Drawing Submission and Approval	30	30	0%	24-Feb-16	01-Apr-16	159			
External Wo	orks for Portion J									
Drainage V										
B00110	Initial Survey	6	6	በ%-	24-Feb-16	01-Mar-16	0		·	
Sign Gant	-		0	0 /0						
	Sign Gantry DS104 SI Drilling, 2 Nr.	12	12		22-Dec-15	07-Jan-16	204		l.	_
SS0130				1107						

Actual Work	THREE MONTH ROLLING PROGRAMME (IWP REV.3)	Date	Rev
Remaining Work		30-Sep-15	Initial Works Programme Rev. 3,
	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	31-Oct-15	Initial Works Programme Rev. 3,
Critical	Page 7 of 7	30-Nov-15	Initial Works Pogramme Rev. 3, 3
 ♦ Milestone 			



evision	Checked	Approved
3, 3MRP	ZJ	
3, 3MRP	ZJ	
, 3MRP	ZJ	

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Report No.: 0165/15/ED/0212

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring

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

Event / Action Plan for Air Quality

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

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

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

Event / Action P	Plan for Construction	Noise Monitoring

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

Event				
210111	ET	IEC	ER	Contractor
Limit Level	 Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

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Report No.: 0165/15/ED/0212

Appendix E

Waste Flow Table



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

Monthly Summary of Waste Flow Table for <u>2015</u> (year)

Name of Person completing the Record: Marko Chan

	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of Non-inert C&D Wastes Generated Monthly					
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general
	Generated	(see Note 1)		Projects			packaging	(see Note 2)		refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)
Jan										
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	0	0	0	0	0	0	0	0	0	0.024
Nov	0	0	0	0	0	0	0	0	0	0.034
Dec										
Total	0.505	0	0	0	0.505	0	0	0	0	0.228

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

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Report No.: 0165/15/ED/0212

Appendix F

Environmental Licenses and Permits

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

Tt	Demoit/Lienner Desistantian	Damait Ma		Annii antian Data	Leave Dete	Valid	Date	C 4 a 4 a a	Remark
Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	From	То	Status	
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/I	HKBCF	30-Jun-15	17-Jul-15	17-Jul-15	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	14-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	28-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022391-2015	Main Site Area	05-May-15	04-Sept-15	04-Sept-15	30-Sept-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0477-15	Works Area WA3	20-Apr-15	04-May-15	18-May-15	17-Nov-15	Valid until 17-Nov-15	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0566-15	Box Culvert D	08-May-15	22-May-15	08-Jun-15	07-Nov-15	Valid until 07-Nov-15	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0020-15	Drill Tower	06-Jul-15	20-Jul-15	01-Aug-15	30-Nov-15	Valid until 30-Nov-15	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0999-15	CUE	28-Aug-15	11-Sept-15	14-Sept-15	10-Dec-15	Cancelled on 02-Nov-15	Superseded By GW-RS1203-15
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1065-15	Portion A1	15-Sept-15	29-Sept-15	30-Sept-15	31-Dec-15	Valid	

Itom	Permit/Licence Registration Permit No. Work Area		Work Area	Application Data	Issue Date	Valid Date		Status	Remark
Item Permit/Licence Re		gistration Permit No.		Application Date	Issue Date	From	То	Status	
14	Construction Noise Permit	GW-RS1203-15	CUE	20-Oct-15	03-Nov-15	02-Nov-15	31-Jan-16	Valid	
14	Pursuant to Section 8(6) of the Noise Control Ordinance	0	COL	20-001-15	03-1107-15	02-1100-15	31 -J an-10	vand	
15	Construction Noise Permit	GW-RS1315-15	Portion G	12-Nov-15	26-Nov-15	28-Nov-15	28-Feb-16	Valid	
Pursuant to Section 8(6)	Pursuant to Section 8(6) of the Noise Control Ordinance	0 10-151515-15	Formon G	12-100-13	20-1107-13	20-1NUV-13	20-190-10	vallu	

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Report No.: 0165/15/ED/0212

Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log	Recommended Mitigation Measures	Location of the	Implementation Status
	Ref.		measures	
Air Quality S5.5.6.1	A1	1) The contractor shall follow the procedures and	All	V
35.5.0.1		requirements given in the Air Pollution Control (Construction Dust) Regulation	construction sites	
S5.5.6.2	A2	 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	 When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the 	All construction sites	V
S5.5.6.2	A2	 top Cement or dry PFA delivered in buik should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;. Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface 	All construction sites	N/A

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		stabiliser within six months after the last construction activity on the construction site r part of the construction site where the exposed earth lies		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Represent- ative dust monitoring station	V
S5.5.7.1	A6	 The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Represent- ative dust monitoring station	V
S5.5.2.7	A7	 The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	N/A
Constructio			A11	M
S6.4.10 S6.4.11	N1	 Use of good site practices to limit noise emissions by considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The emitting of the backet wells be were the backet. 	All construction sites All construction	V
S6.4.12	N3	conditions of the hoardings shall be properly maintained throughout the construction period.3) Install movable noise barriers (typically density@14kg/m	sites For plant	N/A
JU.4. 12	NJ	acoustic mat or full enclosure close to noisy plants including	items	

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 representati ve noise monitoring station	V	
Sediment			1		
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	
S8.3.8	WM1	Construction Waste) Construction and Demolition Material	All	V	
S8.3.9-	WM2	 The following mitigation measures should be implemented in handling the waste: Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 	construction sites	V	
So.3.9- S8.3.11		 Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites 	construction sites	•	

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

EIA Ref.	Log Ref.		Location of the measures	Implementation Status
S9.11.1.7	W2	 adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited siit and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into the drainage system; alischarges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth mud or debris 	Land-based	V
		the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; • wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; • vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; • the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; • waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; • all fuel tanks and chemical storage areas should be provided with locks and be sited 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	works area	
Ecology (Co	nstruction			
S10.7	E4	Watering to reduce dust generation; prevention of siftation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater	Land-based works areas	N/A
S10.7	E5	 Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E8	Control vessel speed	Marine Traffic	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status	
		 Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 			
Fisheries					
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	HKBCF	V	
Landscape	& Visual (D				
Landscape S14.3.3.1	& Visual (D	/isual (Detailed Design Phase)		V	
S14.3.3.3	LV2	Image: Second	HKBCF	N/A	
S14.3.3.3	LV3	"natural-look" of the new coastline. <u>Mitigate Visual Impacts</u> V1.Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.	HKBCF	N/A	
EM&A					
S15.5.2.2	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	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	All construction sites	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

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Report No.: 0165/15/ED/0212

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Fax

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

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Report No.: 0165/15/ED/0212

Appendix H -

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

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

Tel

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

: (852)-24508238 : (852)-24508032 Fax Email : mcl@fugro.com.hk **MateriaLab**

Report No.: 0165/15/ED/0212

Appendix I

Environmental Site Inspection Schedule

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

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Report No.: 0165/15/ED/0212

Contract No. HY/2013/03

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

Environmental Site Inspection Schedule for November 2015

Tel

Fax

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

Tentative Environmental Site Inspection Schedule for December 2015

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