

Your ref. 5126871/19.10/OC028/SO/el

Date: 10 December 2014

By Post and e-mail (Donald.lp@lcwjv.com)

Leighton – Chun Wo Joint Venture 39/F Sun Hung Kai Centre 30 Harbour Road Hong Kong

Attn: Mr. Donald Ip

Dear Mr. lp,

#### Contract No. HY/2013/01 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building Certification of Monthly EM&A Report No.2

Atkins China Ltd. certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 2 for November 2014 (Revision 2), in principle, conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/G.

Yours faithfully for and on behalf of Atkins China Ltd

atth

Sharifah OR Environmental Team Leader

CC.

1. AECOM – Mr. Darrel Kingan (By Fax.: 3468 2076)

2. ENPO/IEC - Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)

**阿特金斯 ATKINS** 香港九龍尖沙咀海港城 九倉電訊中心十三樓 13/F Wharf T&T Centre Harbour City Tsim Sha Tsui Kowloon Hong Kong

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Ref.: HYDHZMBEEM00\_0\_2533L.14

11 December 2014

By Fax (3468 2076) and By Post

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

Attention: Mr. Darrel Paul Kingan

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/2013/01 – HZMB HKBCF – Passenger Clearance Building Monthly Environmental Monitoring & Audit Report No. 2 for November 2014

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report No. 2 for November 2014 (Revision 2) certified by the ET Leader (ET's ref.: "5126871/19.10/OC028/SO/el" dated 10 December 2014) and provided to us via e-mail on 10 December 2014.

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

Thank you for your kind attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

Konj

Raymond Dai Independent Environmental Checker

c.c. HyD HyD Atkins LCWJV Mr. Matthew Fung Ms. Lowell Chiu Ms. Sharifah Or Mr. Gary Wong (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2890 6343) (By Fax: 3973 1188)

Internal: DY, YH, JM, ENPO Site

Q:\Projects\HYDHZMBEEM00\02\_Proj\_Mgt\02\_Corr\HYDHZMBEEM00\_0\_2553L.14.doc



### Contract No. HY/2013/01

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

### Monthly EM&A Report No.2

(Covering the Period from 1 November 2014 to 30 November 2014)

10 December 2014

**Revision 2** 

Main Contractor



Leighton - Chun Wo Joint Venture **Environmental Team** 





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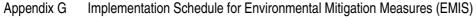
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#### Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to Leighton – Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.

The Contract is part of Hong Kong – Zhuhai – Macao Bridge HKBCF which is a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/G for HKBCF was issued on 6 August 2013. These documents are available through the EIA Ordinance Register. Site preparation works of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014.

Atkins China Limited 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 (Version1.0) and will be providing environmental team services to the Contract.

This is the second Monthly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 1 November 2014 to 30 November 2014.

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

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. 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, 19 and 26 November 2014

#### **Breaches of Action and Limit Levels**

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS6 by Environmental Team of Contract No. HY/2011/03 during the reporting period.

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

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

#### 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 Change**

There was no reporting change in the reporting period.





#### Future Key Issues

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

- Piling Works at WA1;
- Pre-drilling Works at WA1;
- Construction of Office, Welfare facilities and Canteen Building at WA1;
- Socketed H Piles Works at WA1; and
- Pile testing at WA1.



Introduction

#### **1.1 Basic Project Information**

- 1.1.1 This monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region. The Contract was awarded to Leighton Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 The Contract is part of Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) which is a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). An Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/G for HKBCF was issued on 6 August 2013. These documents are available through the EIA Ordinance Register. Site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract Appendix A.
- 1.1.3 The proposed works under this Contract comprise the following:
  - Construction of Passenger Clearance Building (PCB) including architectural and builders works, structural steel roof and reinforced concrete frames, basement, piled foundations, aluminium roof, curtain wall facades, building services and electrical and mechanical works;
  - Installation of district cooling system including seawater cooling intake pumping station, seawater intake and discharge water pipelines work; Installation of Chilled water cooling pipelines system, heat exchanger and chilled pumping system;
  - Construction of transport and associated facilities connecting to the PCB entailing the Emergency Vehicular Access, an at-grade mainland side drop-off area, an Hong Kong side elevated drop-off deck and 8 nos. of footbridge links;
  - Construction of a public toilet, 6 nos. of C&ED observation booths, a generator set building and a refuse storage & material recovery chamber;
  - Construction of a section of 70m common utilities enclosure and staff subway and civil provisions for associated electrical and mechanical works;
  - Construction of drainage, sewerage, fresh water & flushing water supply and utilities & service works;
  - Construction of civil provisions, including draw pits & ducting for Traffic Control and Surveillance System (TCSS) and Extra Low Voltage System (ELV);
  - Construction of box culvert A;
  - Construction of 2 nos. of vehicular bridge abutments at mainland side pickup area earthmound;
  - Construction of geotechnical works including top up the existing earth mound from +11.5mPD to the finished level as stated in the Contract, reinforced earth slope and fill slopes and special backdrop manhole at mainland side pick up area earthmound;
  - Landscape hardworks and softworks; and
  - Other works which are shown on the Drawings or specified in the Specification or which may be ordered in accordance with the Contract.
- 1.1.4 This is the second Monthly Environmental Monitoring and Audit (EM&A) Report for the Contract which summaries the audit findings of the EM&A programme during the reporting period from 1 November 2014 to 30 November 2014.





#### 1.2 **Project Organisation**

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1**.

#### Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
(Environ Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor	Project Manager	Gary Wong	3143 7013	3973 1188
(Leighton – Chun Wo Joint Venture)	Environmental Officer	Donald Ip	6461 8635	3973 1188
Environmental Team (Atkins China Limited)	Environmental Team Leader	Sharifah Or	2972 1802	2890 6343
24 hours complaint hotline			3958 7300	

#### **1.3 Construction Programme**

1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.

#### 1.4 Construction Works Undertaken During the Reporting Period

- 1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:
  - Piling works at WA1;
  - Pre-drilling works at WA1;
  - Construction of office, welfare facilities and canteen building at WA1;
  - Construction of CLP substation building at WA2; and
  - Cement Solidification/Stabilization Work for Excavated Marine Sediment at the South of WA1.



#### 2 Air Quality Monitoring

#### 2.1 Monitoring Locations

2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. Figure 2.1 shows the locations of air monitoring stations.

Table 2.1	Construction	Duct	Monitoring	Locations
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ID	Location Description
AMS 6 <sup>(1)</sup>	Dragonair/CNAC (Group) Building
AMS 7 <sup>(1)</sup>	Hong Kong SkyCity Marriott Hotel

Remark:

(1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

#### 2.2 Monitoring Requirements

- 2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02and HY/2011/03.
- 2.2.2 The Action and Limit Level for 1-hr TSP and 24-hr TSP are provided in **Table 2.2** and **Table 2.3**, respectively.

 Table 2.2
 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500
AMS 7 - Hong Kong SkyCity Marriott Hotel	370	500

#### Table 2.3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m³
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260
AMS 7 - Hong Kong SkyCity Marriott Hotel	183	260

- 2.2.3 The event and action plan is provided in **Appendix D**.
- 2.2.4 If an exceedance is recorded at AMS6 and AMS7, an investigation will be undertaken for the Contract and findings will be reported in the monthly EM&A Report.

2.3 Monitoring Results





- 2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03, respectively.
- 2.3.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS6 by Environmental Team of Contract No. HY/2011/03 during the reporting period.
- 2.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.



#### 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 impact noise monitoring at NMS2 and NMS3B as part of EM&A programme if these noise monitoring stations are no longer covered under Contract No. HY/2010/02. **Figure 3.1** shows the locations of noise monitoring stations.

#### Table 3.1 Construction Dust Monitoring Locations

ID	Location Description
NMS2 <sup>(1)</sup>	Seaview Crescent
NMS3B <sup>(1)(2)</sup>	Site Boundary of Site Office Area at Works Area WA2

Remarks:

(1) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

(2) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

#### 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 Nos. 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

Parameter	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(A)*

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.

- 3.2.3 The event and action plan is provided in **Appendix D**.
- 3.2.4 If an exceedance is recorded at NMS2 and NMS3B, an investigation will be undertaken for the Contract and findings will be reported in the monthly EM&A Report.

#### 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 station sNMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.



#### ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### 4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, a site inspection was carried out on 5, 13, 19 and 26 November 2014.
- 4.1.2 Particular observations during the site inspections are described below.

#### 5 November 2014

- (a) Black smoke was observed from an air compressor at Tyson area. Maintenance was provided for the air compressor near Tysan work area. This observation was closed on 13 November 2014.
- (b) Oil stain was observed on the ground near site entrance. The oil stain on the ground was cleared. A reminder near the fuel inlet was added. This observation was closed on 13 November 2014.

#### 13 November 2014

(a) Stagnant pool was observed near a generator and an air compressor. The stagnant pool near the generator and air compressor was cleared. This observation was closed on 19 November 2014.

A remark was provided in the site inspection checklist. The Contractor was reminded to transfer the excavated marine mud to a designated area for storage and provide a cover for those untreated marine mud.

#### 19 November 2014

- (a) Haul road was observed dry. Water spraying was applied to the haul road. This observation was closed on 26 November 2014.
- (b) Food waste was observed on the ground. The food waste was removed. This observation was closed on 26 November 2014.
- (c) Chemical waste storage area was not secured with lock. The chemical waste storage area was locked and secured. This observation was closed on 26 November 2014.
- (d) Chemical containers stored in the chemical waste storage area without appropriate labels. Also, the stacks of chemical containers were not made secure to avoid fall down. The chemical containers stored in chemical waste storage area were labelled properly and the chemical containers were placed properly to avoid fall down. This observation was closed on 26 November 2014.

#### 26 November 2014

(a) Over 20 bags of cement were not covered properly. The Contractor is recommended to provide proper cover for the cement bags.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting month. Follow-up actions for outstanding observations will be inspected during the next site inspections.

#### 4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 The monthly summary of waste flow table is detailed in **Appendix E**.





4.2.3 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 Practise on the Packaging, Labelling and Storage of Chemical Wastes.

#### 4.3 Environmental Licenses and Permits

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

#### 4.4 Implementation Status of Environmental Mitigation Measures

- 4.4.1 In response to the site audit **findings**, the Contractors carried out corrective actions.
- 4.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 4.5.1 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS6 by Environmental Team of Contract No. HY/2011/03 during the reporting period.
- 4.5.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.5.3 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.6 Summary of Complaints, Notification of Summons and Successful Prosecution
- 4.6.1 There were no complaints received during the reporting period.
- 4.6.2 No notification of summons and prosecution was received during the reporting period.
- 4.6.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix H**.



#### 5 FUTURE KEY ISSUES

- 5.1 **Construction Programme for the Coming Months**
- 5.1.1 As informed by the Contractor, the major construction activities for December 2014 are summarized in **Table 5.1**.

 Table 5.1
 Construction Activities for December 2014

Site Area Description of Activities	
WA1	Piling Works
WA1	Pre-Drilling Works
WA1	Construction of Office, Welfare Facilities and Canteen Building
WA1	Socketed H Piles Works
WA1	Pile Testing

- 5.2 Environmental Site Inspection Schedule for the Coming Month
- 5.2.1 The tentative schedule for weekly site inspections for December 2014 is provided in **Appendix** I.



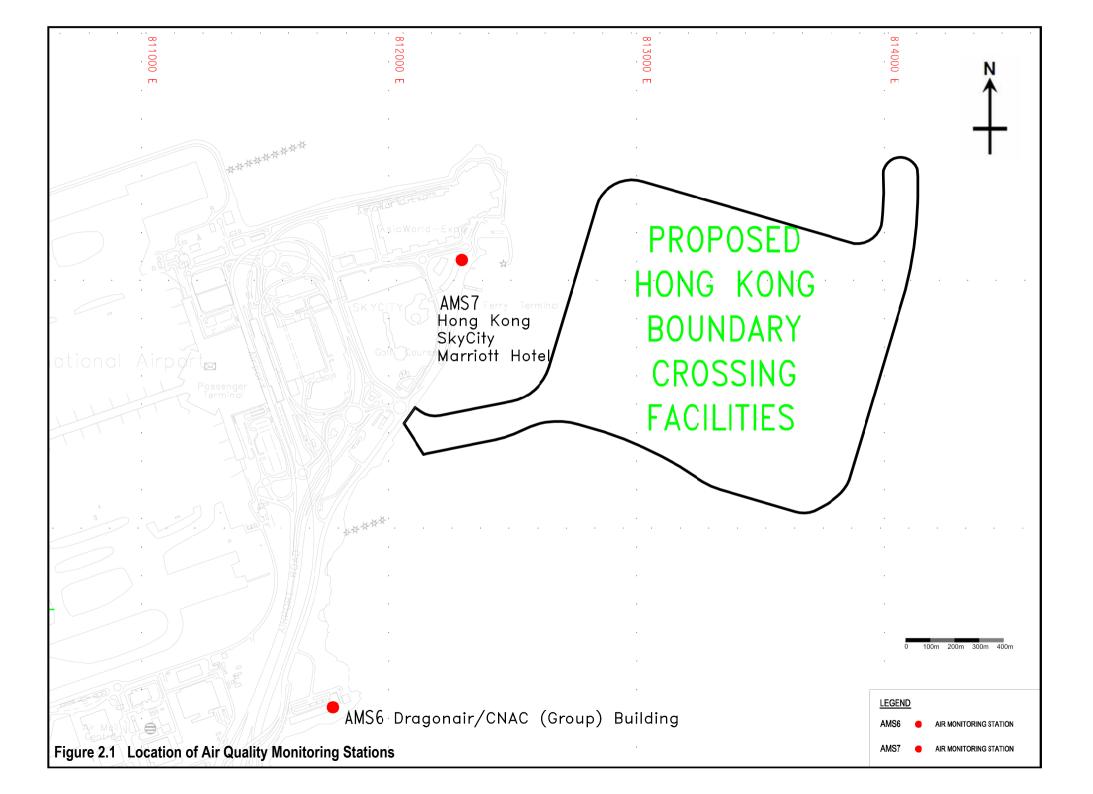
#### **CONCLUSION**

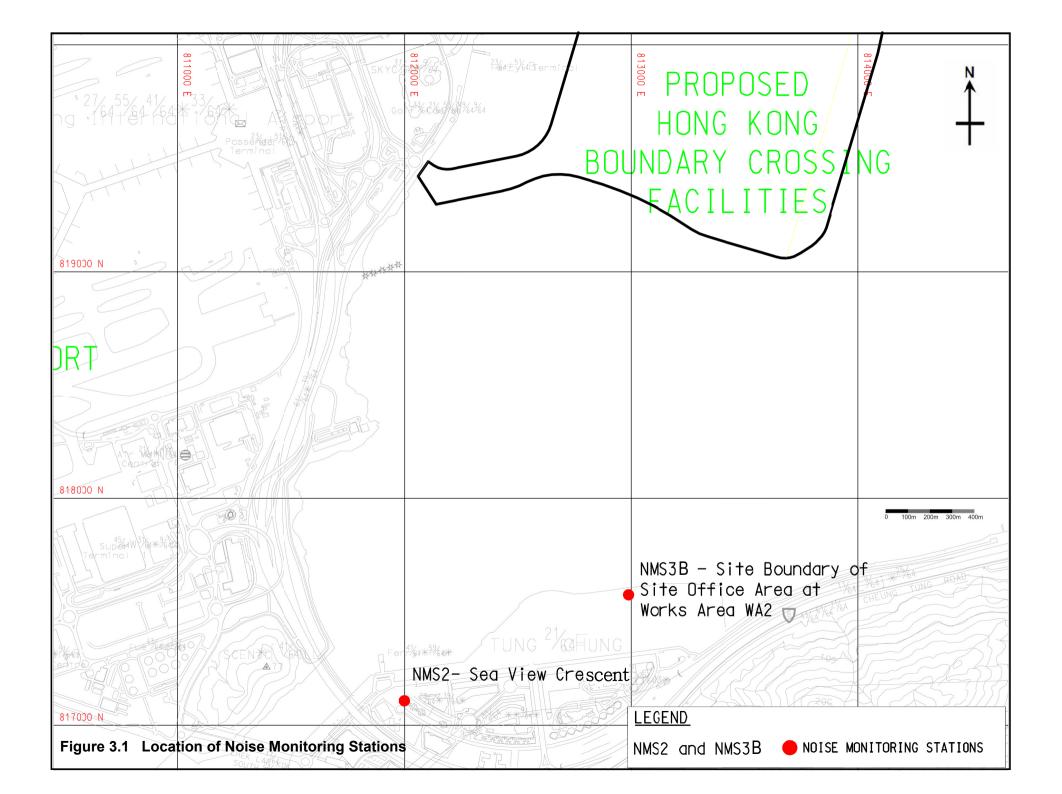
#### 6.1 Conclusions

- 6.1.1 The site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014. This the second Monthly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 1 November 2014 to 30 November 2014.
- 6.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS6 by Environmental Team of Contract No. HY/2011/03 during the reporting period.
- 6.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.1.4 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.1.5 An environmental site inspection was carried out on 5, 13, 19 and 26 November 2014 Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 6.1.6 There were no complaints received during the reporting period.
- 6.1.7 No notification of summons and successful prosecution was received during the reporting period.



## **FIGURES**

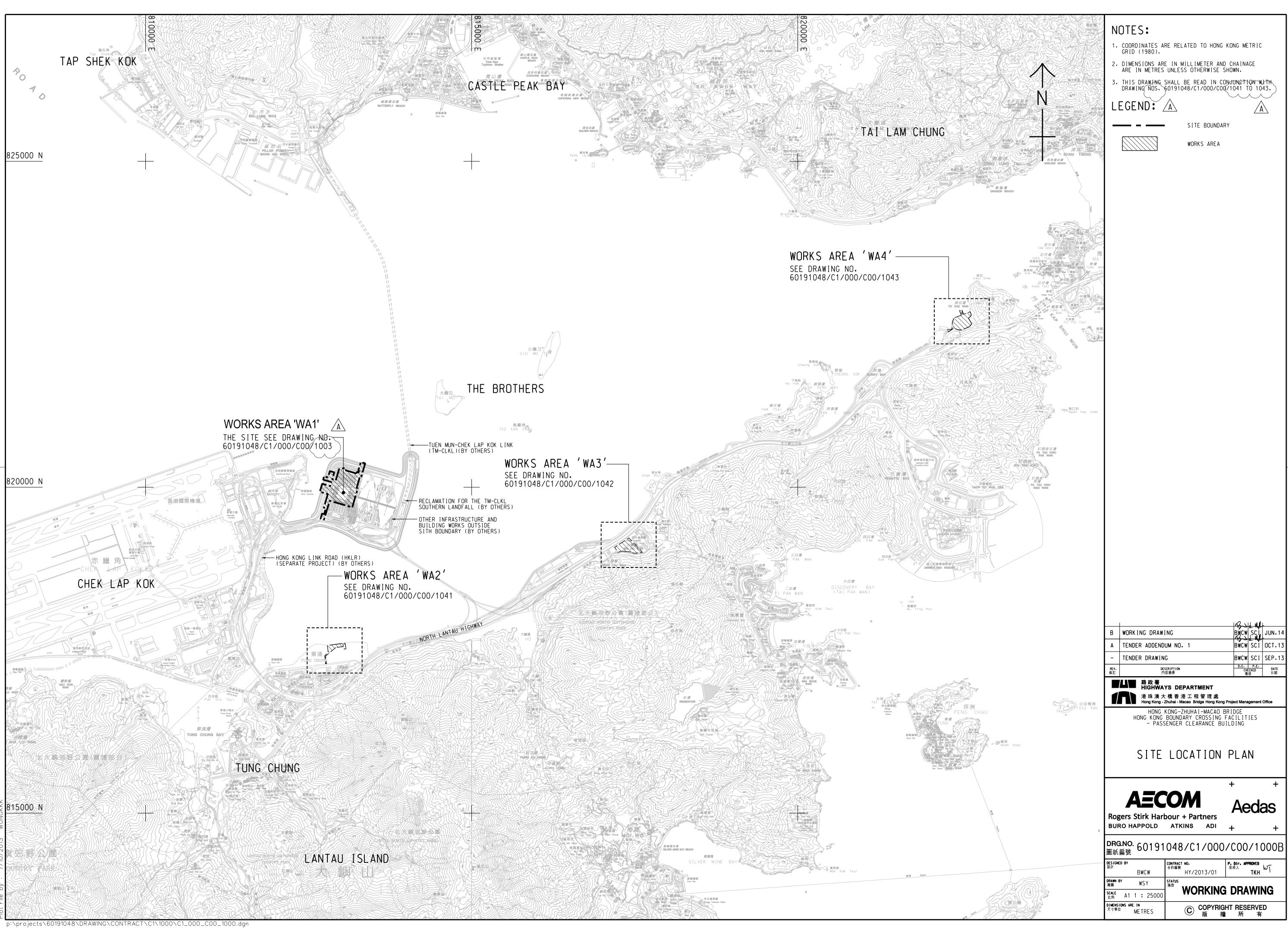


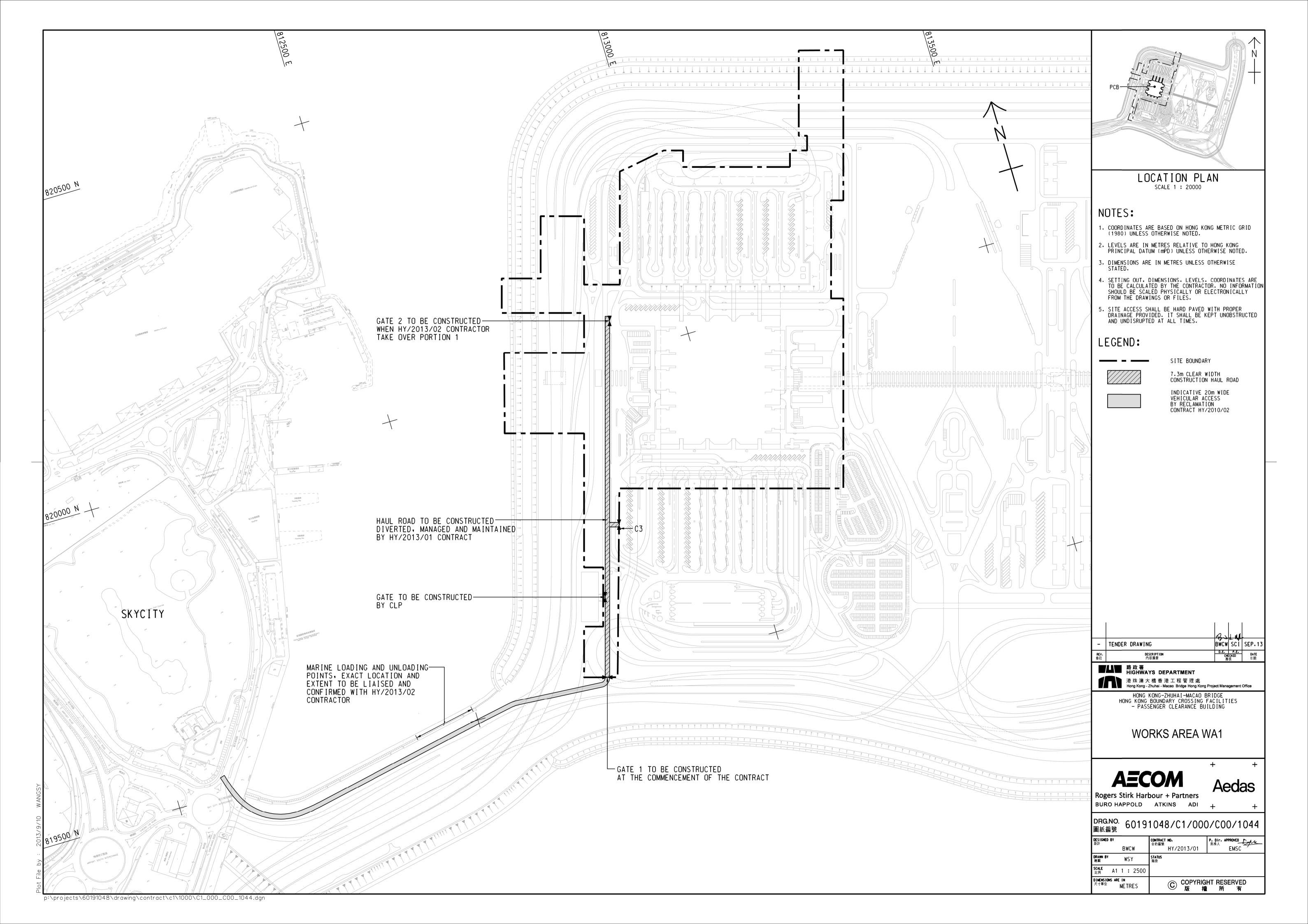


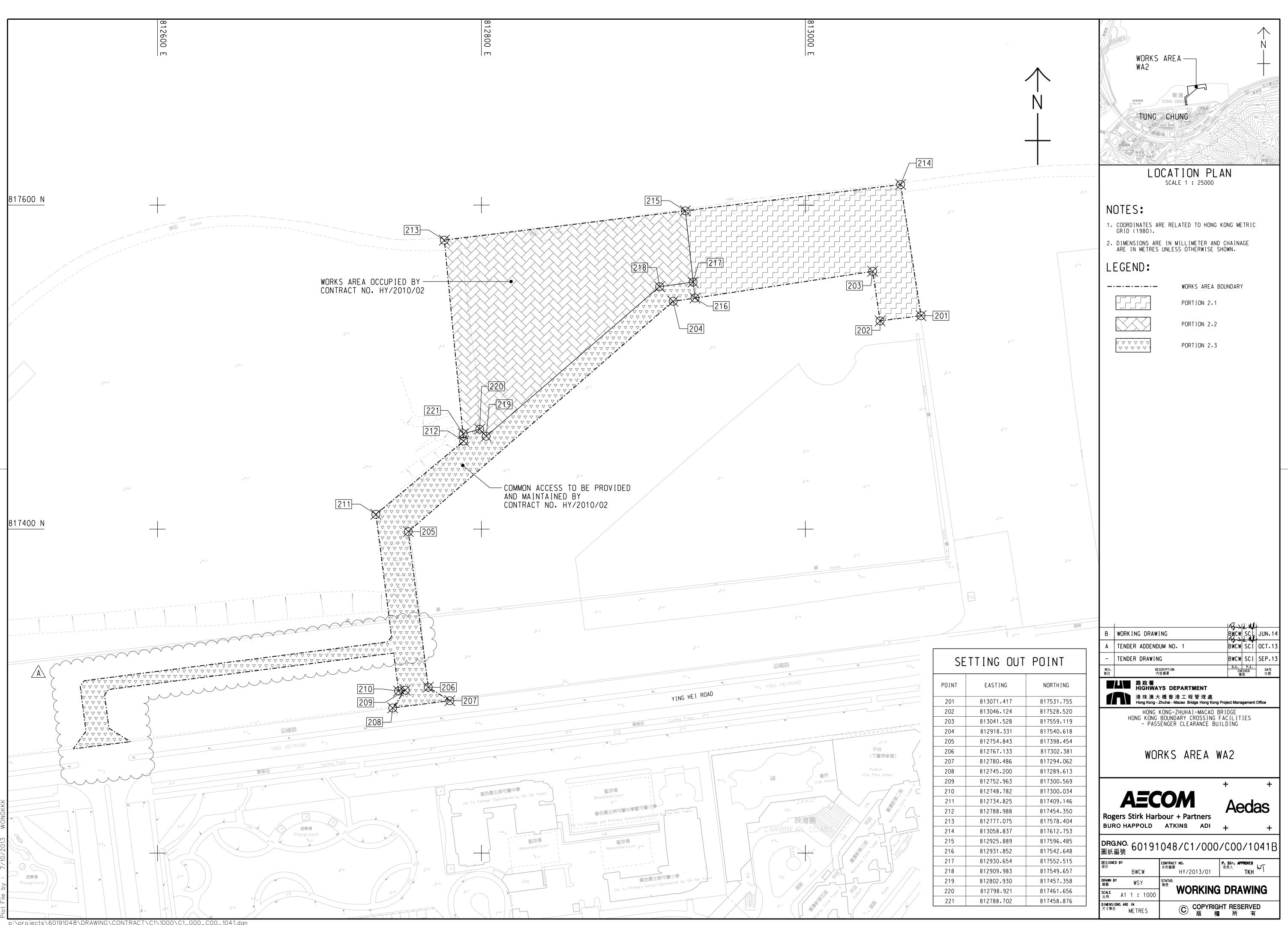


## **APPENDIX A**

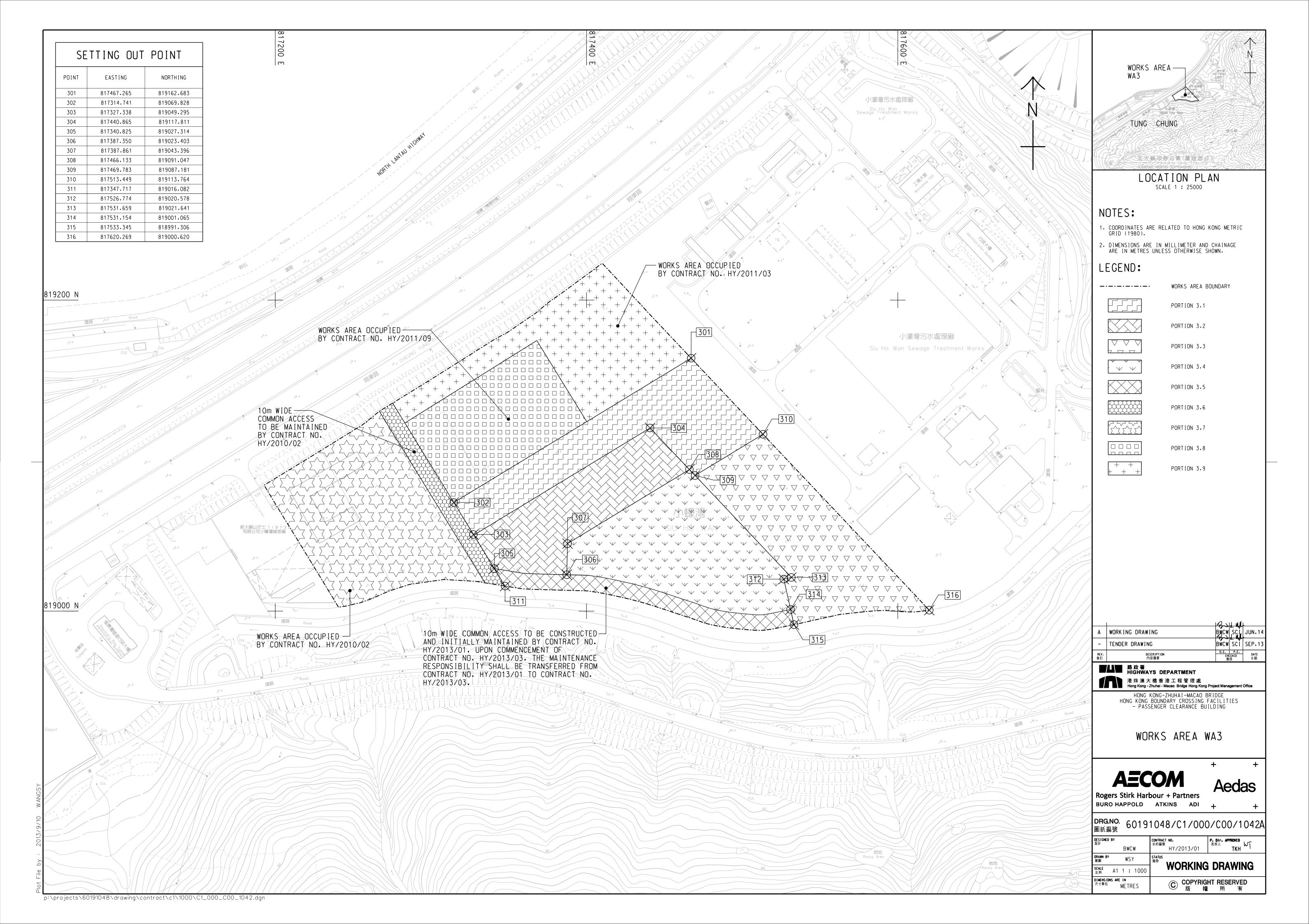
Location of Works Areas

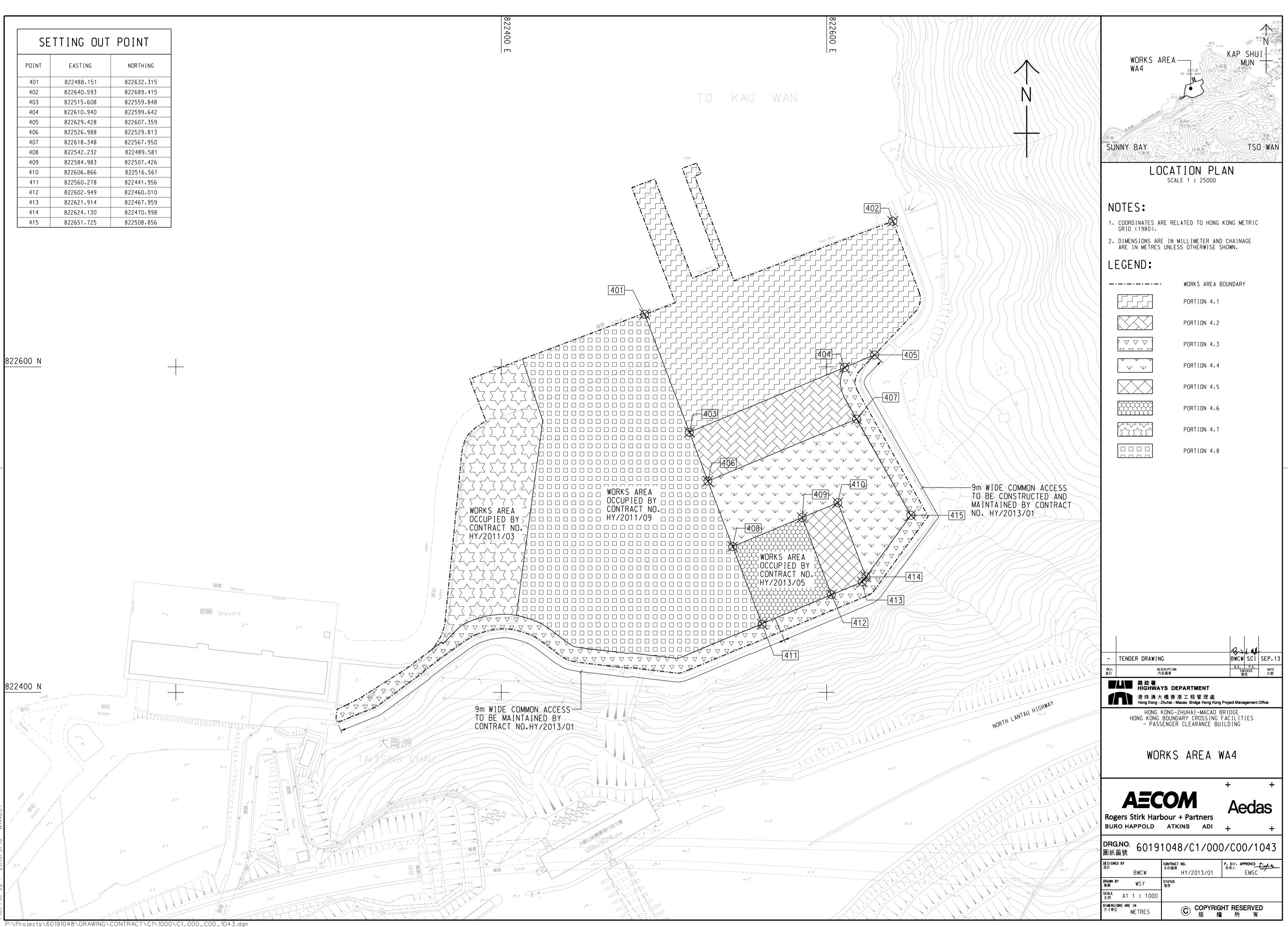






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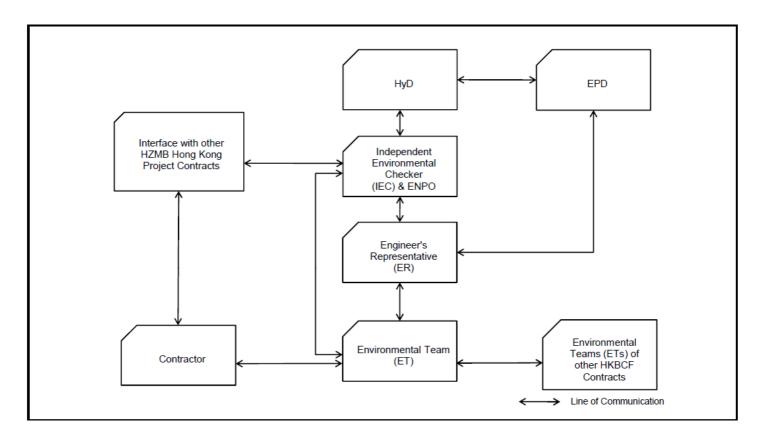
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# **APPENDIX B**

Project Organization for Environmental Works



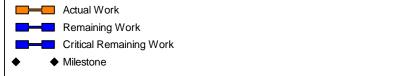




## **APPENDIX C**

**Construction Programme** 

		Original	Start			
		Duration			│	4 Dec 01 -[S[S]V[T]  T[F[S[S]V[T
PCB-PWD-01310 PCB-PWD-01340	BS - Finalize design & design checker review BS - Prepare details design	12.0 24.0	22-Jan-15 02-Feb-15	04-Feb-15 07-Mar-15		
PCB-PWD-01340 PCB-PWD-01320	BS - Prepare details design BS - Submit Design to Engineer with ICE Certificate	0.0	02-Feb-15	07-Mar-15 04-Feb-15	-	
PCB-PWD-01330	BS - Engineer AIP Approval;	28.0	05-Feb-15	04-Mar-15	-	
PCB-PWD-01390	BS - Prepare Shop Drawings, Procurement, Delivery	90.0	05-Feb-15	29-May-15		
PCB-PWD-01350 PCB-PWD-01360	BS - Finalise design & Engineer Comment; Design checker rev BS - Submit Design to Engineer with ICE Certificate	view 12.0	09-Mar-15	21-Mar-15 21-Mar-15		
	BS - Engineer DDA Approval; Consent to Proceed construct	28.0	22-Mar-15	18-Apr-15		
	MENT, MANUFACTURING & DE	LIVER <sup>300.4</sup>	28-Apr-14 A	29-Apr-15		
	nt, Manufacturing; Deliveries	300.4	28-Apr-14 A	29-Apr-15		·
	of Major Roof Sub-Contracts	248.0	28-Apr-14 A	28-Dec-14	•	
	ontractor Procurement	159.4	15-Jun-14 A	29-Apr-15		
<i>.</i> tructural Ste		90.0	15-May-14 A	31-Dec-14		
	lwork (Materials)	90.0	15-May-14 A	31-Dec-14		
PCB-1060	Award sub-contractor (Steel Roof)	90.0 267.0	15-May-14 A 12-Jun-14 A	31-Dec-14 13-May-15		
DNSTRU						
	Clearance Building	267.0	12-Jun-14 A	13-May-15		
	nment Works	36.0	13-Jun-14 A	17-Dec-14	II	
CB-2470 ling	PCB(A1) - Site Hoarding and Fencing	36.0 267.0	13-Jun-14 A 12-Jun-14 A	17-Dec-14 13-May-15		
ortion A1		267.0	12-Jun-14 A	13-May-15		
Pre-Drilling		157.0	12-Jun-14 A	03-Oct-14 A		
PCB-2260	PCB - Pre-Drilling 112	112.0	12-Jun-14 A	03-Oct-14 A		
PCB-02-12541	BCA(A1)- Pre-Drilling 40 number	42.0	05-Aug-14 A	03-Oct-14 A		
PCB-2280 PCB-02-12551	GL B - Pre-Drilling 6 number BCA(A2)- Pre-Drilling 10 number	36.0 24.0	12-Aug-14 A 25-Aug-14 A	03-Oct-14 A 03-Oct-14 A		
PCB-02-12521	WVC (A1) - Pre-Drilling 7 number	12.0	27-Aug-14 A	03-Oct-14 A		
ored Piling		187.0	22-Sep-14 A	13-May-15		
		231.6	22-Sep-14 A	13-May-15		
			·			
Sam Wo Contra		193.6	29-Sep-14 A	13-May-15 29-Apr-15		
Sam Wo Contra PLANT F1 - 1.	actor 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles	193.6	·	13-May-15 29-Apr-15 29-Apr-15		
Sam Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1.	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3	193.6           .0m Casing         174.0           174.0         174.0           .0m Casing         78.0	29-Sep-14 A 10-Oct-14 A 10-Oct-14 A 22-Dec-14	29-Apr-15 29-Apr-15 09-Mar-15		
Sam Wo Contra PLANT F1 - 1.4 PCBCW-0050 PLANT F2 - 1.4 PCBCW-0530	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 312 Number Bored Piles5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 35 Number Bored Piles	193.6           .0m Casing         174.0           174.0         174.0           .0m Casing         78.0           78.0         78.0	29-Sep-14 A 10-Oct-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14*	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15		
Sam Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1. PCBCW-0530 PLANT E1 - 1.	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3	193.6           .0m Casing         174.0           174.0         174.0           .0m Casing         78.0           78.0         78.0	29-Sep-14 A 10-Oct-14 A 10-Oct-14 A 22-Dec-14	29-Apr-15 29-Apr-15 09-Mar-15		
Sam Wo Contra PLANT F1 - 1.: PCBCW-0050 PLANT F2 - 1.: PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1.:	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 5 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 8 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2	193.6           .0m Casing         174.0           174.0         174.0           .0m Casing         78.0           2.0m Casing         29.0           29.0         29.0           2.5m Casing         28.0	29-Sep-14 A 10-Oct-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14* 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15		
Cam Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1. PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         .5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         .5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         .5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles	193.6         .0m Casing       174.0         174.0         .0m Casing       78.0         .0m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14* 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15 09-Mar-15		
am Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1. PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT A - 2.0	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 5 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 8 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2	193.6           .0m Casing         174.0           174.0         174.0           .0m Casing         78.0           2.0m Casing         29.0           29.0         29.0           2.5m Casing         28.0	29-Sep-14 A 10-Oct-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14* 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15		
Sam Wo Contra PLANT F1 - 1.; PCBCW-0050 PLANT F2 - 1.; PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT A - 2.0 PCBCW-1470 PLANT C - 1.5	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 5 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 8 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 9 Number Bored Piles pile use 2.5m casing & 2.5m Pile use 3m Casing 10 Number Bored Piles pile use 2.0m casing	193.6         2.0m Casing       174.0         174.0       174.0         2.0m Casing       78.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       29.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15		
Sam Wo Contra PLANT F1 - 1.: PCBCW-0050 PLANT F2 - 1.: PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT A - 2.0 PCBCW-1470 PLANT C - 1.5 PCBCW-1880	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         9 Number Bored Piles         10 Number Bored Piles         10 Number Bored Piles         10 Number Bored Piles         9 Number Bored Piles         9 Number Bored Piles         10 Number Bored Piles         9 Number Bored Piles	193.6         .0m Casing       174.0         174.0         20m Casing       78.0         20m Casing       29.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       29.0         2.5m Casing	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15		
Sam Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1. PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT A- 2.0 PCBCW-1470 PLANT C - 1.5 PCBCW-1880 PLANT G1 - 2.	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 12 Number Bored Piles 5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3 5 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 8 Number Bored Piles 5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2 9 Number Bored Piles pile use 2.5m casing & 2.5m Pile use 3m Casing 10 Number Bored Piles pile use 2.0m casing	193.6         .0m Casing       174.0         174.0       174.0         .0m Casing       78.0         2.0m Casing       29.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         10.1       126.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15		
Sam Wo Contra PLANT F1 - 1.: PCBCW-0050 PLANT F2 - 1.: PCBCW-0530 PLANT E1 - 1.: PCBCW-1020 PLANT E2 - 1.: PCBCW-1100 PLANT A - 2.0 PCBCW-1470 PLANT C - 1.5 PCBCW-1880 PLANT G1 - 2.: PCBCW-2290 PLANT G2 - 2.	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         pile use 2.5m casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         7 Number Bored Piles         0m Pile Use 2.5m Casing         0m Pile Use 2.5m Casing	193.6         .0m Casing       174.0         174.0       174.0         .0m Casing       78.0         2.0m Casing       29.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       29.0         2.5m Casing       29.0         29.0       126.0         126.0       29.0         29.0       29.0         40.0       40.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A 10-Oct-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 15-Jan-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 11-Feb-15 06-Jan-15		
Sam Wo Contra PLANT F1 - 1.: PCBCW-0050 PLANT F2 - 1.: PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT E2 - 1. PCBCW-1470 PLANT C - 1.5 PCBCW-1880 PLANT G1 - 2. PCBCW-2290 PLANT G2 - 2. PCBCW-2570	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         9 Number Bored Piles         pile use 2.5m casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         7 Number Bored Piles	193.6         .0m Casing       174.0         174.0       174.0         .0m Casing       78.0         .0m Casing       28.0         2.5m Casing       28.0         125.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 11-Feb-15		
Sam Wo Contra PLANT F1 - 1.: PCBCW-00500 PLANT F2 - 1.: PCBCW-05300 PLANT F1 - 1.: PCBCW-10200 PLANT E2 - 1.: PCBCW-11000 PLANT E2 - 1.: PCBCW-14700 PLANT C - 1.5 PCBCW-14700 PLANT G1 - 2.0 PCBCW-25700 PLANT B - 2.0 PCBCW-26600	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         9 Number Bored Piles         10 Number Bored Piles         9 Number Bored Piles         10 Number Bored Piles         9 Number Bored Piles         9 Number Bored Piles         0 M Pile Use 2.5m Casing         2 Number Bored Piles         0 M Pile Use 2.5m Casing         2 Number Bored Piles         0 M Pile Use 2.5m Casing         9 Number Bored Piles         0 M Pile Use 2.5m Casing         9 Number Bored Piles	193.6         .0m Casing       174.0         174.0       174.0         .0m Casing       78.0         20.0       78.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         28.0       29.0         2.5m Casing       29.0         2.5m Casing       29.0         2.5m Casing       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         40.0       40.0         40.0       40.0         126.0       126.0         126.0       126.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A 10-Oct-14 A 10-Oct-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 15-Apr-15		
Sam Wo Contra PLANT F1 - 1. PCBCW-0050 PLANT F2 - 1. PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT A - 2.0 PCBCW-1470 PLANT C - 1.5 PCBCW-2290 PLANT G2 - 2. PCBCW-2570 PLANT G2 - 2. PCBCW-2660 PLANT B - 2.0 PCBCW-2660 PLANT D - 1.5	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         pile use 2.5m casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         0m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.0m Casing	193.6         .0m Casing       174.0         174.0         .0m Casing       78.0         78.0       78.0         2.5m Casing       29.0         2.5m Casing       28.0         28.0       29.0         2.5m Casing       28.0         29.0       29.0         2.5m Casing       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         40.0       126.0         40.0       40.0         126.0       126.0         126.0       145.6	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 17-Nov-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 12-Nov-14 A 12-Nov-14 A 19-Dec-14	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 15-Apr-15 15-Apr-15 13-May-15		
Sam Wo Contra PLANT F1 - 1.4 PCBCW-00500 PLANT F2 - 1.4 PCBCW-05300 PLANT E1 - 1.4 PCBCW-10200 PLANT E2 - 1.4 PCBCW-11000 PLANT E2 - 1.4 PCBCW-11000 PLANT A - 2.00 PCBCW-14700 PLANT G1 - 2.2 PCBCW-22900 PLANT G2 - 2.4 PCBCW-25700 PLANT G2 - 2.4 PCBCW-25700 PLANT B - 2.00 PCBCW-26600 PLANT D - 1.5 PCBCW-30300	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         9 Number Bored Piles         pile use 2.5m casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         7 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         10 Number Bored Piles         m Pile Use 2.0m Casing         10 Number Bored Piles	193.6         .0m Casing       174.0         174.0       174.0         .0m Casing       78.0         .0m Casing       78.0         .0m Casing       29.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       28.0         2.5m Casing       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         40.0       40.0         40.0       40.0         126.0       126.0         126.0       126.0         126.0       126.0         126.0       126.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 17-Nov-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 20-Nov-14 A 20-Nov-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 15-Apr-15		
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Sam Wo Contra PLANT F1 - 1.: PCBCW-0050 PLANT F2 - 1.: PCBCW-0530 PLANT E1 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1020 PLANT E2 - 1. PCBCW-1100 PLANT C - 1.5 PCBCW-1470 PLANT G1 - 2. PCBCW-2290 PLANT G2 - 2. PCBCW-2570 PLANT G2 - 2. PCBCW-2570 PLANT G2 - 2. PCBCW-2600 PLANT B - 2.00 PCBCW-3450 PLANT J - 2.00 PCBCW-3450 PCB	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         pile use 2.5 casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         7 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         10 Number Bored Piles         m Pile Use 2.5m Casing         10 Number Bored Piles         m Pile Use 2.5m Casing         10 Number Bored Piles         m Pile Use 3.0m casing         10 Number Bored Piles         m Pile use 3.0m casing         7 Number Bored Piles         m Pile u	193.6         .0m Casing       174.0         174.0       174.0         200       78.0         200       29.0         25m Casing       29.0         25m Casing       28.0         25m Casing       28.0         25m Casing       28.0         25m Casing       28.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         126.0       126.0         145.6       53.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0 <tr< td=""><td>29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 17-Nov-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 19-Dec-14 19-Dec-14 07-Oct-14 A 07-Oct-14 A 14-Oct-14 A 14-Oct-14 A 24-Sep-14 A</td><td>29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 06-Jan-15 15-Apr-15 15-Apr-15 13-May-15 27-Feb-15 25-Feb-15 25-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15</td><td></td><td></td></tr<>	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 17-Nov-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 19-Dec-14 19-Dec-14 07-Oct-14 A 07-Oct-14 A 14-Oct-14 A 14-Oct-14 A 24-Sep-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 06-Jan-15 15-Apr-15 15-Apr-15 13-May-15 27-Feb-15 25-Feb-15 25-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15		
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Sam Wo Contra PLANT F1 - 1.4 PCBCW-00500 PLANT F2 - 1.4 PCBCW-05300 PLANT F2 - 1.4 PCBCW-10200 PLANT E2 - 1.4 PCBCW-10200 PLANT E2 - 1.4 PCBCW-11000 PLANT E2 - 1.5 PCBCW-14700 PLANT G1 - 2.0 PCBCW-22900 PLANT G2 - 2. PCBCW-22900 PLANT G2 - 2. PCBCW-22900 PLANT G2 - 2. PCBCW-22900 PLANT G2 - 2. PCBCW-25700 PLANT G2 - 2.0 PCBCW-26600 PLANT D - 1.5 PCBCW-34500 PLANT J - 2.00 PCBCW-34500 PLANT J - 2.00 PCBCW-34500 PLANT J - 2.00 PCBCW-34500 PLANT J - 2.00 PCBCW-346900 PLANT B - 2.00 PCBCW-46900 PLANT B - 2.00	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         pile use 2.5m casing & 2.5m Pile use 3m Casing         10 Number Bored Piles         pile use 2.0m casing         9 Number Bored Piles         0m Pile Use 2.5m Casing         7 Number Bored Piles         0m Pile Use 2.5m Casing         2 Number Bored Piles         0m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.5m Casing         9 Number Bored Piles         m Pile Use 2.0m Casing         10 Number Bored Piles         Constructor         n Pile use 3.0m casing         9 Number Bored Piles         m Pile use 3.0m casing         9 Number Bored Piles         m Pile use 3.0m casing         9 Number Bored Piles         m Pile use 3.0m casing         9 Number Bored Pile	193.6         174.0         174.0         174.0         174.0         200         78.0         78.0         78.0         29.0         126.0         145.6         53.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0         29.0	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A 10-Oct-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 20-Nov-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 19-Dec-14 19-Dec-14 19-Dec-14 307-Oct-14 A 07-Oct-14 A 14-Oct-14 A 14-Oct-14 A 24-Sep-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 17-Apr-15 11-Feb-15 06-Jan-15 06-Jan-15 06-Jan-15 15-Apr-15 15-Apr-15 13-May-15 27-Feb-15 25-Feb-15 25-Feb-15 27-Feb-15 27-Feb-15 05-Feb-15 05-Feb-15 05-Feb-15 05-Feb-15		
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PCBCW-25700           PLANT B - 2.00           PCBCW-30300           New Concept C           PLANT D - 1.5           PCBCW-34500           PLANT J - 2.01           PCBCW-41600           PLANT B - 2.00           PCBCW-41600 <td< td=""><td>5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         0 Number Bored Piles         10 Number Bored Piles         m Pile Use 2.0m Casing         10 Number Bored Piles         Constructor         n Pile use 3.0m casing         9 Number Bored Piles         m Pile use 3.0m casing         9 Number Bored Piles         m Pile use 2.0 Casing (Main Building) &amp; 2.0m dia. Use 3.0m         9 Number Bored Piles         m Pile</td><td>193.6         .0m Casing       174.0         174.0       174.0         20.0       78.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       29.0         2.5m Casing       29.0         29.0       29.0         29.0       29.0         126.0       29.0         29.0       40.0         40.0       40.0         126.0       126.0         126.0       145.6         53.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         20.0       29.0         20.0       29.0         20.0       &lt;</td><td>29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 20-Nov-14 A 19-Dec-14 19-Dec-14 19-Dec-14 307-Oct-14 A 07-Oct-14 A 14-Oct-14 A 14-Oct-14 A 14-Oct-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A</td><td>29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 06-Jan-15 15-Apr-15 13-May-15 27-Feb-15 25-Feb-15 25-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15 05-Feb-15 05-Feb-15 08-Feb-15 08-Feb-15 08-Feb-15 08-Feb-15 15-Apr-15 15-Apr-15 29-Apr-15</td><td></td><td></td></td<>	5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         12 Number Bored Piles         5m pile use 2.5 casing at Drop off area and 2.0m Pile Use 3         5 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         8 Number Bored Piles         5m pile use 2.5 casing at drop off area and 2.0m Pile Use 2         9 Number Bored Piles         0 Number Bored Piles         10 Number Bored Piles         m Pile Use 2.0m Casing         10 Number Bored Piles         Constructor         n Pile use 3.0m casing         9 Number Bored Piles         m Pile use 3.0m casing         9 Number Bored Piles         m Pile use 2.0 Casing (Main Building) & 2.0m dia. Use 3.0m         9 Number Bored Piles         m Pile	193.6         .0m Casing       174.0         174.0       174.0         20.0       78.0         2.5m Casing       29.0         2.5m Casing       28.0         2.5m Casing       29.0         2.5m Casing       29.0         29.0       29.0         29.0       29.0         126.0       29.0         29.0       40.0         40.0       40.0         126.0       126.0         126.0       145.6         53.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         29.0       29.0         20.0       29.0         20.0       29.0         20.0       <	29-Sep-14 A 10-Oct-14 A 22-Dec-14 22-Dec-14 29-Sep-14 A 29-Sep-14 A 14-Oct-14 A 14-Oct-14 A 20-Oct-14 A 20-Oct-14 A 17-Nov-14 A 10-Oct-14 A 10-Oct-14 A 12-Nov-14 A 12-Nov-14 A 20-Nov-14 A 20-Nov-14 A 20-Nov-14 A 19-Dec-14 19-Dec-14 19-Dec-14 307-Oct-14 A 07-Oct-14 A 14-Oct-14 A 14-Oct-14 A 14-Oct-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A 24-Sep-14 A	29-Apr-15 29-Apr-15 09-Mar-15 09-Mar-15 15-Jan-15 09-Mar-15 09-Mar-15 09-Mar-15 17-Apr-15 17-Apr-15 27-Mar-15 27-Mar-15 11-Feb-15 06-Jan-15 06-Jan-15 06-Jan-15 15-Apr-15 13-May-15 27-Feb-15 25-Feb-15 25-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15 27-Feb-15 05-Feb-15 05-Feb-15 08-Feb-15 08-Feb-15 08-Feb-15 08-Feb-15 15-Apr-15 15-Apr-15 29-Apr-15		
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THREE MONTH ROLLING PROGRA

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Cont     Part of the server									
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	PLANT D - 2.0	pile use 2.5m casing			· ·				
		9 Number Bored Piles			· ·				
		s (110 Piles)							
	1st Group			<u></u>					
		PCB - Bored Piling to PCB - 8 Piles							
		PCB - Bored Piling to PCB - 8 Piles		-					
	3rd Group		121.0	-	03-Mar-15				
		PCB - Bored Piling to PCB - 8 Piles							
		PCB - Bored Piling to PCB - 7 Piles							-
	5th Group								
		PCB - Bored Piling to PCB - 8 Piles							
		PCB - Bored Piling to PCB - 8 Piles							
	7th Group			-					
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CPCRP-2000         CPCR-2000         <									
Common Utilities Enclosure         Visu         XXXxp14.0         Visu				22-Dec-14				•	
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PCD 9/1/20         CUE - Proof dring & tooding test         63.0         07-Jan-15         11-Man-15           Image: Acada Work         Image: THREE MONTH ROLLING PROGRAMME         Image: THREE MONTH ROLLING PROGRAMME         Image: Three Month Rolling Programme - Tal Observator 2014         Science of Sci									
Anal Work     THREE MONTH ROLLING PROGRAMME     Determing Wark     Determing Wark     Determing Wark     Determing Wark     Determing Wark									
Image: Actual Work       01-Dec-14       3 Month Rolling Programme - 1st December 2014       SGJ         Image: Remaining Work       01-Dec-14       3 Month Rolling Programme - 1st December 2014       SGJ									
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Actual Work	THREE MONTH ROLLING PROGR
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Critical Remaining Work	
♦ ♦ Milestone	Page 6 of 6



# **APPENDIX D**

Event and Action Plan

### Event/Action Plan for Air Quality

	EVENT		ACTION					
		ET	IEC	ER	CONTRACTOR			
	CTION LEVEL							
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>			
2.	Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurement s to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>			

	EVENT		ACTIO		
		ET	IEC	ER	CONTRACTOR
LI	MIT LEVEL				
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
2.	Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

EVENT		ACTION					
	ET	IEC	ER	CONTRACTOR			
	<ol> <li>Notify IEC and Contractor;</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>		notification of failure in writing; 2. Notify Contractor;	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>			
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>			



# **APPENDIX E**

Waste Flow Table

Name of Department: Highways Department

#### Contract No.: HY/2013/01

### Monthly Summary Waste Flow Table for 2014



	Actua	al Quantities	of Inert C&D	Materials G	enerated Mo	onthly	Actual Quantities of C&D Wastes Generated Monthly				Monthly
Month	Total Quantity Generated (see Note 8)	Hard Rock and Large Broken Concrete (see Note 9)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill (see Note 10)	Imported Fill	Metals (see Note 5)	Paper / Cardboard Packaging (see Note 5)	Plastics (see Note 3) (see Note 5)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January											
February											
March											
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
August	0.107	0.000	0.000	0.000	0.107	0.000	0.000	0.000	0.000	0.000	0.012
September	1.372	0.000	0.726	0.228	0.418	0.000	0.000	0.000	0.000	0.000	0.016
October	3.132	0.000	0.023	2.971	0.138	2.474	0.000	0.000	0.000	0.000	0.033
November	26.097	0.000	0.000	15.112	10.985	0.429	0.000	0.000	0.000	1.280	0.047
December											
Total	30.708	0.000	0.749	18.311	11.648	2.903	0.000	0.000	0.000	1.280	0.123

page 1

Name of Department: Highways Department

#### Contract No.: HY/2013/01



	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*									
Total Quantity Generated (see Note 8)	Hard Rock and Large Broken Concrete (see Note 9)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill (see Note 10)	Imported Fill	Metals (see Note 5)	Paper / Cardboard Packaging (see Note 5)	Plastics (see Note 3) (see Note 5)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )

Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m<sup>3</sup>.
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:
  - in-situ: rock = 2.5 tonnes/m<sup>3</sup>; soil = 2.0 tonnes/m<sup>3</sup>
  - excavated: rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup>; broken concrete and bitumen = 2.4 tonnes/m<sup>3</sup>
  - C&D Waste = 0.9 tonnes/m<sup>3</sup>; bentonite slurry = 2.8 tonnes/m<sup>3</sup>
- (7) Numbers are rounded off to the nearest three decimal places
- (8) The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"
- (9) The "Hard Rock and Large Broken Concrete" were disposed as public fill
- (10) The amount in "Disposed as Public Fill" included the "Hard Rock and Large Broken Concrete" disposed as public fill





## **APPENDIX F**

**Environmental Licenses and Permits** 



Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Nov 2	014	
Item No.		nit/License o Applic	or Registration ation	Permit/License/ Notification/ Registration	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
NO.	Work Area	Date	Reference	Description	negistration Number	Date	Date		
1	All Areas	29 Jul 13	N/A	Environmental Permit to construct the Passenger Clearance Building and associated works of the Hong Kong Zhuhai and Macao Bridge Boundary Crossing Facilities	EP-353/2009/G	06 Aug 13	N/A	EPD	
2	All Areas	29 Apr 14	H2620-LTR-EPD- AU-000006	Billing Account for disposal of construction waste	Billing Account No.: 7019944	16 May 14	N/A	EPD	
3	PCB	30 Apr 14	H2620-LTR- EPD- 000002	<u>Notification</u> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373961	05 May 14	N/A	EPD	
4	WA2	30 Apr 14	H2620-LTR- EPD- 000003	<u>Notification</u> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373956	05 May 14	N/A	EPD	
6	WA3	30 Apr 14	H2620-LTR-EPD- AU-000001	<u>Notification</u> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373962	05 May 14	N/A	EPD	

LEIGHTON Ѡ 俊和 Leighton - Chun Wo Joint Venture

Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Nov 2	014	
Item	Per	mit/License Applic	or Registration ation	Permit/License/ Notification/	Permit/License/	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Registration Number Date		Date		
7	PCB	30 May 14	H2620-LTR-EPD- AU-000020	RegistrationasChemical WasteProducer for disposal ofspent batteries, usedlubrication oil and surpluspaint at PCB area	WPN: 5213-951-L2846-01	08 Jul 14	N/A	EPD	
8	PCB	23 Jun 14	In H2620-LTR- EPD-000017	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0683-14	03 Jul 14	29 Dec 14	EPD	Superseded by GW-RS0908-14
9	WA2	02 Jul 14	H2620-LTR-LCJ- AU-000280	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS0715-14	17 Jul 14	15 Jan 15	EPD	Superseded by GW-RS1034-14
10	WA3	02 Jul 14	H2620-LTR-LCJ- AU-000324	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0716-14	17 Jul 14	15 Jan 15	EPD	



Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

							Date : Nov 2	014	
ltem No.	Per Work	Applic		Permit/License/ Notification/ Registration	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Area	Date	Reference	Description					
11	PCB	23 Jun 14	H2620-LTR- EPD- 000527	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0908-14	03 Sep 14	22 Dec 14	EPD	Superseded by GW-RS1044-14
12	РСВ	15 Sep 14	H2620-LTR-EPD- AU-000034	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1044-14	29 Sep 14	24 Dec 14	EPD	Superseded by GW-RS1300-14
13	WA2	12 Sep 14	H2620-LTR-EPD- AU-000032	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS1034-14	29 Sep 14	28 Mar 15	EPD	
14	WA4	17 Oct 14	H2620-LTR-EPD- AU-000036	<b><u>CNP</u></b> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0814-14	20 Oct 14	19 Apr 15	EPD	

**LEIGHTON** (後和 CHUN Wo Leighton - Chun Wo Joint Venture

Environmental License/ Permits /Notification Register

Contract No. HY/2013/01 Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

				-	-		Date : Nov 2	014	
Item	Permit/License or Registration Application			Permit/License/ Notification/	Permit/License/	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Registration Number	Date	Date		
15	PCB	03 Nov 14	H2620-LTR-EPD- AU-000040	<b><u>CNP</u></b> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1300-14	17 Nov 14	16 Feb 15	EPD	
16	PCB	31 Jul 2014	H2620-LTR-EPD- AU-000038	Water Discharge License for construction works on PCB island	WT00020335-2014	13 Nov 2014	30 Nov 2019	EPD	





## **APPENDIX G**

Implementation Schedule for Environmental Mitigation Measures (EMIS)

### Environmental Mitigation Implementation Schedule – Hong Kong Boundary Crossing Facilities (Superstructures and Infrastructures)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
Air Quality	/						
S5.5.6.1	A1	<ol> <li>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)
S5.5.6.2	A2	<ol> <li>Proper watering of exposed spoil should be undertaken throughout the construction phase:</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> </ol>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
S5.5.6.2	Α2	<ul> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>W here a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>3</sup> and 260 µgm <sup>3</sup> , respectively)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
S5.5.6.2	A2	<ul> <li>Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;</li> <li>Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>-3</sup> and 260 µgm <sup>-3</sup> , respectively)
\$5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	To control the dust impact
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.	Control construction dust	Engineer	All construction sites	Design Stage	Air Pollution Control (Construction Dust) Regulation
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	• Air Pollution Control (Construction Dust) Regulation To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm <sup>3</sup> and 260 µgm <sup>3</sup> , respectively)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
S5.5.7.1	A6	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</li> <li>Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP;</li> <li>Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>The materials which may generate airborne dusty emissions should be wetted by water spray system;</li> <li>All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> <li>All access and route roads within the premises should be paved and wetted; and</li> <li>Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body.</li> </ul>	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	<ul> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm<sup>-3</sup> and 260 µgm<sup>-3</sup>, respectively)</li> </ul>
S5.5.2.7	A7	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</li> <li>All road surface within the barging facilities will be paved;</li> <li>Dust enclosures will be provided for the loading ramp;</li> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>Continuous water spray at the loading points.</li> </ul>	Control construction dust	Contractor	All construction sites	Construction stage	Air Pollution Control (Construction Dust) Regulation

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
		e (Air borne)			•	•	
S6.4.10	N1	<ol> <li>Use of good site practices to limit noise emissions by considering the following:</li> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ol>	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	Noise Control Ordinance     Annex 5, TM-EIA
S6.4.12	N3	3) Install movable noise barriers (typically density @14kg/m <sup>2</sup> ), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	Noise Control Ordinance     Annex 5, TM-EIA     75dB(A) for residential premises     The movable barrier should achieve at least 5dB(A) and the full enclosure should be designed to achieve 10dB(A)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
S6.4.13	N4	<ol> <li>Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.</li> </ol>	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	Noise Control Ordinance & its TM     Annex 5, TM-EIA
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	Noise Control Ordinance     Annex 5, TM-EIA
	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	Noise Control Ordinance     Annex 5, TM-EIA     75dB(A) for     residential     premises
Sediment	•		•				
S7.3	S1	<ol> <li>The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.</li> </ol>	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	Waste Disposal Ordinance     ETWBTC 34/2002

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
Waste Mar	nagement	t (Construction Waste)					
S8.3.8	WM1	<ul> <li>Construction and Demolition Material</li> <li>The following mitigation measures should be implemented in handling the waste:</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>Implement an enhanced W aste Management Plan similar to ETW BTC (W orks) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> <li>In addition, disposal of the C&amp;D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETW B TC 19/2005

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\$8.3.9- \$8.3.11	WM2	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TC 19/2005</li> </ul>
S8.2.12- S8.3.15	WM3	<ul> <li>Chemical Waste</li> <li>Chemical waste that is produced, as defined by Schedule 1 of the W aste Disposal (Chemical W aste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical W astes.</li> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
		<ul> <li>Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>					
S8.3.16	WM4	<ul> <li><u>Sewage</u></li> <li>Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.</li> </ul>	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance
S8.3.17	WM5	<ul> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> <li>Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided.</li> <li>Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Dispos al Ordinance

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
Water Qua		struction Phase)					
S9.11.1.7	W2	Land Works	To control construction water	Contractor	Land-based works	Construction	TM-EIAO
		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:	quality		areas	stage	
		<ul> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> </ul>					
		• sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the W PCO or collected for disposal offsite. The use of soakaways shall be avoided;					
		<ul> <li>storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks;</li> </ul>					
		• silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm;					
		• temporary access roads should be surfaced with crushed stone or gravel;					
		<ul> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> </ul>					
		measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;					
		<ul> <li>open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms;</li> </ul>					
		<ul> <li>manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers;</li> </ul>					
		<ul> <li>discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> </ul>					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
S9.11.1.7	W2	<ul> <li>all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit;</li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO
		<ul> <li>wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> </ul>					
		<ul> <li>the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;</li> </ul>					
		<ul> <li>wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> </ul>					
		<ul> <li>vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal;</li> </ul>					
		<ul> <li>the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> </ul>					
		<ul> <li>waste oil should be collected and stored for recycling or disposal, in accordance with the W aste Disposal Ordinance;</li> </ul>					
		<ul> <li>all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and</li> </ul>					
		<ul> <li>surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul>					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?
Ecology (	Construction	Phase)					
S10.7	E4	Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water
S10.7	E5	<ul> <li>Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time</li> </ul>	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	
S10.7	E8	<ul> <li>Control vessel speed</li> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During construction	
Fisheries	1		L	•			L
S11.7	F4	<ul><li>Maritime Oil Spill Response Plan (MOSRP);</li><li>Contingency plan.</li></ul>	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation	

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Landscape	e & Visua	l (Detailed Design Phase)					
S14.3.3.1	-	<ul> <li>General design measures include:</li> <li>Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> <li>Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;</li> <li>Protection measures for the trees to be retained during construction activities;</li> <li>Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;</li> <li>Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;</li> <li>Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>Providing salt-toler ant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> <li>For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings and so on), and the related infrastructure (e.g. parapet planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and ransparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and</li> <li>Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF.</li> </ul>	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage	

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-		I (Construction Phase)					
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage	
		G1. Grass-hydroseed bare soil surface and stock pile areas.	landscape impact			Stage	
		G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.					
		G3. Not applicable as this is for HKLR.					
		G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF					
		G5. Vegetation reinstatement and upgrading to disturbed areas					
		G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed					
		G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;					
		G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.					
		G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enchance "natural-look" of the new coastline.					
S14.3.3.3	LV3	Mitigate Visual Impacts           V1.Minimize time for construction activities during construction period.           V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.					

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EM&A							
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All construction sites	Construction stage	• EIAO Guidance Note No.4/2002 • TM-EIAO
S15.5 - S15.6	EM2	<ol> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ol>	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	EIAO Guidance Note No.4/2002     TM-EIAO



## **APPENDIX H**

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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

Reporting Period	Cumulative Statistics						
hepotting renou	Complaints	Notifications of summons	Successful prosecutions				
This reporting period	0	0	0				
From commencement date of construction to end of reporting month	0	0	0				



### **APPENDIX** I

Environmental Site Inspection Schedule



			Dec-14				
	Monday	Tueday	Wednesday	Thursday	Friday	Saturday	Sunday
Time	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
			Site Inspection				
Time	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
			Site Inspection				
Time	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
				Site Inspection			
Time	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
				Holiday	Holiday		
			Site Inspection				
Time	29-Dec	30-Dec	31-Dec				
			Site Inspection				