

16 May 2018

By Fax (3468 2076) and By Post

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

Attention: Mr. Malcolm Sage

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 for April 2018**

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report No. 43 for April 2018 (Rev. 2) certified by the ET Leader (ET's ref.: "5126871/19.10/OC128/KC/RL" dated 16 May 2018) and provided to us via e-mail on 16 May 2018.

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

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection and the reported information be true, valid and correct as per Conditions 5.4 and 5.5 of EP-353/2009/K respectively.

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

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



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Ms. Lowell Chiu	(By Fax: 3188 6614)
	Atkins	Mr. Keith Chau	(By Fax: 2890 6343)
	LCWJV	Mr. Owen Leung	(By Fax: 3621 0180)

Internal: DY, YH, TM, HW, ENPO Site

Q:\Projects\HYDZHMBEEM00\02_Proj_Mgt\02_Corr\HYDZHMBEEM00_0_6506L.18.doc

Your ref.
Our ref. 5126871/19.10/OC128/KC/RL

Date: 16 May 2018

By Post and e-mail (Stephen.Tsang@lcwjv.com)

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

Attn: Mr. Stephen Tsang

Dear Mr. Tsang,

**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. 43**

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that Monthly EM&A Report No. 43 (Revision 2) conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

**Yours faithfully,
for and on behalf of
Atkins China Limited**



**Keith Chau
Environmental Team Leader**

- cc.**
1. AECOM – Mr. Michael Tovey (By Fax.: 3468 2076)
 2. IEC / ENPO – Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)



Contract No. HY/2013/01

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

**Monthly EM&A Report No. 43
(Covering the Period from 1 April 2018 to 30 April 2018)**

16 May 2018

Revision 2

Main Contractor



Leighton - Chun Wo
Joint Venture

Environmental Team



Contents

Executive Summary

1	Introduction	1
1.1	Basic Project Information	1
1.2	Project Organisation	2
1.3	Construction Programme	3
1.4	Construction Works Undertaken During the Reporting Period	3
2	Air Quality Monitoring	4
2.1	Monitoring Requirements	4
2.2	Monitoring Equipment	4
2.3	Monitoring Locations	5
2.4	Monitoring Parameters, Frequency and Duration	5
2.5	Monitoring Methodology	5
2.6	Monitoring Schedule for the Reporting Month	7
2.7	Monitoring Results	8
3	Noise Monitoring	9
3.1	Monitoring Requirements	9
3.2	Monitoring Equipment	9
3.3	Monitoring Locations	9
3.4	Monitoring Parameters, Frequency and Duration	10
3.5	Monitoring Methodology	10
3.6	Monitoring Schedule for the Reporting Month	11
3.7	Monitoring Results	11
4	Water Quality Monitoring	12
4.1	Monitoring Requirements	12
4.2	Monitoring Equipment	12
4.3	Monitoring Parameters, Frequency and Duration	13
4.4	Monitoring Location	13
4.5	Monitoring Methodology	14
4.6	Monitoring Result	16
5	Dolphins Monitoring	18
5.1	Monitoring Requirement	18
5.2	Monitoring Methodology and Location	18
5.3	Monitoring Schedule for the Reporting Month	21
5.4	Monitoring Result	21
6	Environmental Site Inspection and Audit	23
6.1	Site Inspection	23
6.2	Advice on the Solid and Liquid Waste Management Status	24
6.3	Environmental Licenses and Permits	24
6.4	Implementation Status of Environmental Mitigation Measures	25
6.5	Summary of Exceedance of the Environmental Quality Performance Limit	25
6.6	Summary of Complaints, Notification of Summons and Successful Prosecution	25
7	Future Key Issues	27
7.1	Construction Programme for the Coming Months	27
7.2	Environmental Site Inspection and Monitoring Schedule for the Coming Month	27

8	Conclusions.....	28
8.1	Conclusions.....	28



Figures

- Figure 2.1 Location of Air Quality Monitoring Stations and Wind Station
Figure 3.1 Location of Noise Monitoring Stations
Figure 4.1 Location of Water Monitoring Stations

Appendices

- Appendix A Location of Works Areas
Appendix B Project Organization for Environmental Works
Appendix C Construction Programme
Appendix D Monitoring Data and Graphical Plot (Air Quality, Noise and Water Quality)
Appendix E Dolphin Monitoring Result
Appendix F Wind Data
Appendix G Calibration Certificates
Appendix H Event and Action Plan
Appendix I Waste Flow Table
Appendix J Environmental Licenses and Permits
Appendix K Implementation Schedule for Environmental Mitigation Measures (EMIS)
Appendix L Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions
Appendix M Environmental Site Inspection and Monitoring Schedule
Appendix N Investigation Report

Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HZMB HKBCF) – Passenger Clearance Building (hereafter referred to as “the Contract”) (includes the construction works of Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System within Contract No. HY/2013/01 works area) for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/01 works area) (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 HZMB HKBCF Project 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/K for HKBCF was issued on 11 April 2016. 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. The construction works of the Contract No. HY/2013/06 within Contract No. HY/2013/01 works area commenced on 20 February 2018.

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 (Version 1.0) and will be providing environmental team services to the Contract.

This is the forty-third monthly EM&A Report for the Contract which summarizes findings of the EM&A works during the reporting period from 1 to 30 April 2018. (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/01 works area)

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). The air quality, noise, water quality and dolphin monitoring works under Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works were suspended from 1 September 2017. The ET of Contract No. HY/2013/01 is required and continues the same implementation of environmental monitoring commencing on 1 September 2017. It should be noted that the air quality monitoring station (AMS6) is covered by Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF.

A summary of the monitoring activities during the reporting period are listed below:

1-hour TSP Monitoring: AMS2 - 3, 9, 13, 19, 24 and 30 April 2018
AMS3B - 3, 9, 13, 19, 24 and 30 April 2018
AMS7B - 4, 6, 12, 18, 23 and 27 April 2018

24-hour TSP Monitoring: AMS2 - 4, 10, 12, 18, 23 and 27 April 2018
AMS3B⁽ⁱ⁾ - 4, 10, 12, 18 and 23 April 2018
AMS7B - 3, 9, 13, 25⁽ⁱⁱ⁾ and 30 April 2018

Noise Monitoring: NMS2 - 4, 12, 17 and 26 April 2018
NMS3B - 3, 9, 19, 26⁽ⁱⁱⁱ⁾ and 30 April 2018

Water Quality Monitoring: 2, 4, 6, 9, 11, 13, 16, 18, 20, 23, 25, 27 and 30 April 2018

Chinese White Dolphin Monitoring: 11, 18^(iv), 24^(iv) and 26 April 2018

Environmental Site Inspection: 4, 11, 18, and 25 April 2018

Remark:

(i) Air quality monitoring on 27 April 2018 at AMS3B (Site Boundary of Site Office Area at Work Area WA2) was rescheduled to 4 May 2018 due to motor failure. An email was sent to ENPO, ER and Contractor on 30 April 2018. After checking and repair by a competent person, the high volume sampler was re-calibrated and resumed normal on 4 May 2018.

(ii) Air quality monitoring on 19 April 2018 at AMS7B (3RS Site Office) was rescheduled to 25 April 2018 due to power supply failure. An email was sent to ENPO, ER and Contractor on 23 April 2018. The problem of electricity connection was found by a competent person and fixed on 25 April 2018. The high volume sampler was resumed normal on 25 April 2018.

(iii) Noise monitoring at NMS3B on 24 April 2018 was rescheduled to 26 April 2018 due to raining.

(iv) Dolphin monitoring on 16 and 23 April 2018 were rescheduled to 18 and 24 April 2018 respectively due to boat availability.

Breaches of Action and Limit Levels

A summary of environmental exceedances for the reporting period are listed below:

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	-	-
	24-hr TSP	-	-
Noise	Leq (30 min)	-	-
Water Quality	Suspended solids level (SS)	5	-
	Turbidity level	-	-
	Dissolved oxygen level (DO)	-	-
Dolphin Monitoring	Quarterly Analysis	-	-

Complaint Log

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

Notifications of Summons and Successful Prosecutions

There was no notifications of summons or prosecutions received during the reporting period.

Reporting Change

There was no reporting change during the reporting period.

Future Key Issues

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

For Contract No. HY/2013/01

Land Based work

- Wet trade works of Toilets
- Dry trade works of Toilets
- Kiosk/Booth installation
- Testing and commissioning works
- Third Party Independent Design Checker (TPIDC) Inspection
- Paving
- Planting Trees
- Lift/Escalator EMSD Inspection
- Fit-out of lift cars
- Glazing Works.
- Cleaning

No marine based construction work to be undertaken in the upcoming month.

For Contract No. HY/2013/06 within Contractor No. HY/2013/01 works area

- Conduit installation and Cabling at ELV & Sever Room, and Zone E PCB



1 Introduction

1.1 Basic Project Information

- 1.1.1 This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building (hereafter referred to as “the Contract”) (includes the construction works of Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System within Contract No. HY/2013/01 works area) for the Highways Department of Hong Kong Special Administrative Region. The Contract was awarded to Leighton – Chun Wo Joint Venture (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/01 works area) (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/K for HKBCF was issued on 11 April 2016. 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 commenced on 6 October 2014. The construction works of the Contract No. HY/2013/06 within Contract No. HY/2013/01 works area commenced on 20 February 2018. The works areas of the Contract are shown in **Appendix A**.
- 1.1.3 The proposed works under this Contract comprise the following:
- For Contract No. HY/2013/01
- 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 numbers of footbridge links;
 - Construction of a public toilet, 6 numbers 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 numbers 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 pickup 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.

For Contract No. HY/2013/06 within Contract No. HY/2013/01

- The Automatic Vehicle Clearance Support System amid to increasing traffic flow for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities;
- Responsible for designs and develops a set of tailor-made computer monitoring and control systems to for daily security operation; and
- The Clearance Workstations at 72 vehicle clearance kiosks, Customs and Excise's inbound and outbound traffic control centers as well as a Vehicle Tracking System.

1.1.4 This is the forty-third monthly EM&A Report for the Contract No. HY/2013/01 which summarizes the audit findings of the EM&A programme during the reporting period from 1 to 30 April 2018 (included the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/01 works area).

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
<u>For Contract No. HY/2013/01</u>				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Malcolm Sage	3958 7330	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor (Leighton – Chun Wo Joint Venture)	Project Manager	Owen Leung	9232 5750	3621 0180
	Environmental Officer	Stephen Tsang	9686 0787	3621 0180
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343
24 hours complaint hotline	---	---	3958 7300	---
<u>For Contract No. HY/2013/06 within Contract No. HY/2013/01 works area</u>				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Registered Architect	Malcolm Sage	3958 7330	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
	Site Agent	Mr. Eric Yim	2565 3355	3162 5217

Contractor (ATAL Technologies Limited)	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343
24 hours complaint hotline	---	---	6509 0375	---

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:

For Contract No. HY/2013/01

Land Based work

- Pipework and ductwork installation
- Wet trade works
- Dry trade works
- MEP High Level Containment
- Removal of temporary works
- Hanging scaffolding removal
- Paving
- Planting Tree
- Glazing Works
- Road and Kerbing
- Testing and commissioning works
- Water features and planters
- Kiosk/Booth installation

No marine based construction work was undertaken in the reporting month.

For Contract No. HY/2013/06 within Contract No. HY/2013/01 works area

- Conduit installation and cabling at ELV & Server Room, Zone E PCB

2 Air Quality Monitoring

2.1 Monitoring Requirements

- 2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour Total Suspended Particulates (TSP) levels at 4 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit Level for the 1-hour and 24-hour TSP are provided in **Table 2.1** and **2.2** respectively.

Table 2.1 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS2 - Tung Chung Development Pier	374	500
AMS3B - Site Boundary of Site Office Area at Work Area WA2	368	
AMS6 - Dragonair / CNAC (Group) Building (HKIA)	360	
AMS7B – 3RS Site Office	370	

Table 2.2 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS2 - Tung Chung Development Pier	176	260
AMS3B - Site Boundary of Site Office Area at Work Area WA2	167	
AMS6 – Dragonair / CNAC (Group) Building (HKIA)	173	
AMS7B – 3RS Site Office	183	

2.2 Monitoring Equipment

- 2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in **Table 2.3**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

2.3.1 Monitoring locations AMS2 and AMS7 were set up at the purposed locations in accordance with Contract Specific EM&A Manual. For monitoring location AMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.

2.3.2 **Table 2.4** describes the details of the monitoring stations and **Figure 2.1** shows the locations of the air quality monitoring stations.

Table 2.4 Construction Dust Monitoring Locations

ID	Location Description
AMS2	Tung Chung Development Pier
AMS3B	Site Boundary of Site Office Area at Work Area WA2
AMS6	Dragonair/CNAC (Group) Building
AMS7B ⁽²⁾	3RS Site Office

Remarks:

- (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) The original monitoring location was at Hong Kong SkyCity Marriott Hotel (AMS7). As the permission to carry out air quality monitoring at Hong Kong SkyCity Marriott Hotel was not granted after 31 January 2015, the monitoring location was relocated to Chu Kong Air-Sea Union Transportation Co. Ltd. (AMS7A) from 5 February 2015 to 30 December 2015. The alternative monitoring location at Chu Kong Air-Sea Union Transportation Co. Ltd. was approved by EPD on 5 February 2015. However, AMS7A was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 2015. As the permission to carry out air quality monitoring at Hong Kong SkyCity Marriott Hotel was not granted after the end of January 2018, as such, a proposal for the monitoring location relocated to 3RS Site Office (AMS7B) was justified by the ET Leader for Contract No. HY/2013/01 on 22 January 2018; verified by the IEC on 24 January 2018; and submitted to EPD on 30 January 2018, and the AQM has been carrying out at AMS7B with EPD's consent since 6 February 2018.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2.5** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.5 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	Three times every 6 days while the highest dust impact was expected
24-hour TSP	Once every 6 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.



- (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler was provided.
 - (iv) No furnace or incinerator flues are nearby.
 - (v) Airflow around the sampler was unrestricted.
 - (vi) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (vii) A secured supply of electricity was obtained to operate the samplers.
 - (viii) The sampler was located more than 20 meters from any dripline.
 - (ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (x) Flow control accuracy was kept within $\pm 2.5\%$ deviation over 24-hour sampling period.
- (b) Preparation of Filter Papers
- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not variable by more than ± 3 °C; the relative humidity (RH) was < 50% and not variable by more than $\pm 5\%$. A convenient working RH was 40%.
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
- (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminium strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the Updated EM&A Manual for HKBCF (Version 1.0) (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.

- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.
- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in **Appendix G**.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
 - (ii) Close the air collecting opening cover.
 - (iii) Push the "TIME SETTING" switch to [BG].
 - (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
 - (v) Turn the knob at SENS ADJ position to insert the light scattering plate.
 - (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
 - (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
 - (viii) Pull out the knob and return it to MEASURE position.
 - (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
 - (x) Lower down the air collection opening cover.
 - (xi) Push "START/STOP" switch to start measurement.
- ##### (b) Maintenance and Calibration
- (i) The 1-hour TSP meter was calibrated at 1-year intervals against a Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler. Calibration certificates of the Laser Dust Monitors are provided in **Appendix G**.

2.6 Monitoring Schedule for the Reporting Month

- #### 2.6.1
- Air quality monitoring on 27 April 2018 at AMS3B (Site Boundary of Site Office Area at Work Area WA2) was rescheduled to 4 May 2018 due to motor failure. An email was sent to ENPO, ER and Contractor on 30 April 2018. After checking and repair by a competent person, the high volume sampler was re-calibrated and resumed normal on 4 May 2018.

- 2.6.2 Air quality monitoring on 19 April 2018 at AMS7B (3RS Site Office) was rescheduled to 25 April 2018 due to power supply failure. An email was sent to ENPO, ER and Contractor on 23 April 2018. The problem of electricity connection was found by a competent person and fixed on 25 April 2018. The high volume sampler was resumed normal on 25 April 2018.
- 2.6.3 The schedule for air quality monitoring in April 2018 is provided in **Appendix M**.

2.7 Monitoring Results

- 2.7.1 The monitoring results for 1-hour and 24-hour TSP are summarized in **Table 2.6** and **2.7** respectively. Detailed impact air quality monitoring results are presented in **Appendix D**.

Table 2.6 Summary of 1-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS2	71	28 – 116	374	500
AMS3B	26	6 - 42	368	
AMS7B	63	10 - 226	370	

Table 2.7 Summary of 24-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS2	55	23 - 107	176	260
AMS3B	50	26- 89	167	
AMS7B	86	44 -114	183	

- 2.7.2 No Action and Limit Level exceedances of 1-hour TSP were recorded at AMS2, AMS3B and AMS7B during the reporting month.
- 2.7.3 No Action and Limit Level exceedances of 24-hour TSP were recorded at AMS2, AMS3B and AMS7B during the reporting month.
- 2.7.4 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 2.7.5 The event and action plan is provided in **Appendix H**.
- 2.7.6 The wind data obtained from the on-site wind station (as shown in Figure 2.1) during the reporting month is provided in **Appendix F**.

3 Noise Monitoring

3.1 Monitoring Requirements

- 3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit Level for the noise monitoring is provided in **Table 3.1**.

Table 3.1 Action and Limit Levels for Noise during Construction Period

Monitoring Station	Time Period	Action Level	Limit Level
NMS2	0700-1900 hours on normal weekdays	When one documented complaint is received.	75 dB(A)
NMS3B			70/65 dB(A)*

Remark:

* Limit Level for schools will be applied for NMS3B. Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.

3.2 Monitoring Equipment

- 3.2.1 Noise monitoring was performed using sound level meters at each designed monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment are given in **Table 3.2**.

Table 3.2 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

- 3.3.1 Monitoring location NMS2 was set up at the proposed locations in accordance with Contract Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of school. Permission on setting up and carry out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact noise monitoring was conducted at site boundary of the site office area in Work Area WA2 (NMS3B) respectively. Same baseline noise level (as derived from the baseline monitoring data recorded at Ho Yu College) and Limit Level were adopted for this alternative noise monitoring location.
- 3.3.2 **Figure 3.1** shows the locations of noise monitoring stations. **Table 3.3** describes the details of monitoring stations.

Table 3.3 Construction Noise Monitoring Locations

ID	Location Description
NMS2	Seaview Crescent
NMS3B	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) Limit Level for schools will be applied for NMS3B. Day time noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 **Table 3.4** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.4 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-minutes measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The measurement at NMS3B was free-field measurement and NMS2 was Façade measurement. A correction of +3dB(A) shall be made to the free-field measurement.
- (b) The battery condition was checked to ensure the correct functioning of the meter.
- (c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: L_{eq} (30-minutes) during non-restricted hours i.e. 0700-1900 on normal workdays.
- (d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (e) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.

- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in **Appendix G**.

3.6 Monitoring Schedule for the Reporting Month

- 3.6.1 Noise monitoring at NMA3B on 24 April 2018 was rescheduled to 26 April 2018 due to raining. An email was sent to ENPO, ER and Contractor on 24 April 2018.
- 3.6.2 The schedule for construction noise monitoring in April 2018 is provided in **Appendix M**.

3.7 Monitoring Results

- 3.7.1 The monitoring results for construction noise are summarized in **Table 3.5**. Detailed monitoring results and relevant graphical plots are presented in **Appendix D**.

Table 3.5 Summary of Construction Noise Monitoring Results During the Reporting Month

Monitoring Stations	Average, dB(A) L _{eq} (30 mins)	Range, dB(A) L _{eq} (30 mins)	Limit Level, dB(A) L _{eq} (30 mins)
NMS2	65	64 - 65	75
NMS3B(*)	63	59 - 67	70/65

Remark: (*) The Limit Level for schools will be applied for NMS3B. Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.

On 9 April 2018, the Hong Kong Diploma of Secondary Education (HKDSE) Examination was conducted at Ho Yu College. The Limit Level of 65dB(A) was applied.

- 3.7.2 School calendar of Ho Yu College and calendar of Hong Kong Diploma of Secondary Education (HKDSE) were checked. On 9 April 2018, the examination of HKDSE was conducted at Ho Yu College. The measured noise level at NMS3B on 9 April 2018 was 62 dB(A), which was not exceeded the noise level of 65dB(A) during examination. As such the Event and Action Plan was not triggered.
- 3.7.3 The event and action plan is provided in **Appendix H**.

4 Water Quality Monitoring

4.1 Monitoring Requirements

- 4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurement were taken in accordance with the Contract Specific EM&A Manual. **Table 4.1** shows the established Action and Limit Levels for the environmental monitoring works.

Table 4.1 Action and Limit Levels for Water Quality

Parameters	Action Level	Limit Level
DO in mg L ⁻¹ (Surface, Middle & Bottom)	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6
SS in mg L ⁻¹ (depth-averaged) at all monitoring stations and control stations	23.5 and 120% of upstream control station's SS at the same tide of the same day*	34.4 and 130% of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes*
Turbidity in NTU (depth-averaged)	27.5 and 120% of upstream control station's turbidity at the same tide of the same day*	47.0 and 130% of upstream control station's turbidity at the same tide of the same day*

Remarks: * Reference is made to EPD approval of adjustment of water quality assessment criteria issued and became effective on 18 February 2013.

- Notes:
1. "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
 2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 3. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 4. All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.
 5. The 1%-ile of baseline data for dissolved oxygen (surface and middle) and dissolved oxygen (bottom) are 4.2 mg/L and 3.6 mg/L respectively.

4.2 Monitoring Equipment

- 4.2.1 **Table 4.2** summaries the equipment used in the impact water quality monitoring programme.

Table 4.2 Water Quality Monitoring Equipment

Equipment	Brand and Model	Serial Number
DO and Temperature Meter, Salinity Meter, Turbidity Meter and pH Meter	YSI ProDSS	16H104234 / 17H105557/ 17E100747/ 15M100005

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 **Table 4.3** summarizes the monitoring parameters, frequency and monitoring depths of impact water quality monitoring in the Contract Specific EM&A Manual.

Table 4.3 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17 Control/Far Field Stations: CS(Mf)3(N), CS(Mf)5, CS4, CS6, CSA Sensitive Receiver Stations: SR3(N), SR4(N), SR5(N), SR6, SR7, SR10A(N) & SR10B(N)(2)	- Depth, m - Temperature, °C - Salinity, ppt - Dissolved Oxygen (DO), mg/L - DO Saturation, % - Turbidity, NTU - pH - Suspended Solids (SS), mg/L	Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 (1m below water surface, mid-depth and 1m above sea bed, except where the water depth is less than 6m, in which case the mid-depth station may be omitted. Should the water depth less than 3m, only the mid-depth station will be monitored.)

4.4 Monitoring Location

- 4.4.1 In accordance with the Contract Specific EM&A Manual, a total of twenty-one stations (nine Impact Stations, seven Sensitive Receiver Stations and five Control/Far Field Stations) were designated for impact water quality monitoring. The nine Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the seven Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the five Control/ Far Field Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions
- 4.4.2 The water quality monitoring stations at CS(Mf)3 (Coordinate: 809989E, 821117N), IS10 (Coordinate: 812577E, 820670N) and SR5 (811489E, 820455N) have been occupied by the marine work of a designated project - Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project). The alternative water quality monitoring station at CS(Mf)3(N) (Coordinate: 808814E, 822355N), IS10(N) (Coordinate: 812942E, 820881N) and SR5(N) (812569E, 8201475N) were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017 and it was approved by EPD on 12 May 2017.
- 4.4.3 The water quality monitoring stations at SR3, SR10A and SR10B(N) were not available for water sampling due to safety reason, thus, monitoring stations were changed to SR3(N) (Coordinate: 810689E, 816591N); SR10A(N) (Coordinate: 823644E, 823484N) and SR10B(N2) (Coordinate: 823689E, 823159N) were justified by the ET Leader on 8 November 2017 and the IEC verified on 13 November 2017; and submitted to EPD on 29 November 2017 and it was approved by EPD on 22 December 2017.
- 4.4.4 **Table 4.4** and **Figure 4.1** shows the locations of water quality monitoring stations.



Table 4.4 Impact Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10(N)*	Impact Station (Close to HKBCF construction site)	812942	820881
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3(N) ^	Sensitive receivers (San Tau SSSI)	810689	816591
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
SR5(N)*	Sensitive receiver (Artificial Reef in NE Airport)	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A(N) ^	Sensitive receivers (Ma Wan FCZ) 1	823644	823484
SR10B(N2) ^	Sensitive receivers (Ma Wan FCZ) 2	823689	823159
CS(Mf)3(N)*	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA	Control Station	818103	823064

Remarks:

*Alternative water quality monitoring stations at CS(Mf)3(N), SR5(N) and IS10(N) were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017 and it was approved by EPD on 12 May 2017.

^ Alternative water quality monitoring stations at SR3, SR10A and SR10B(N) were justified by the ET Leader on 8 November 2017 and verified by IEC on 13 November 2017; and submitted to EPD on 29 November 2017 and it was approved by EPD on 22 December 2017.

4.5 Monitoring Methodology

4.5.1 Instrumentation

- (a) The in-situ water quality parameters, viz. dissolved oxygen, temperature, salinity, turbidity and pH, were measured by multi-parameter meters and pH meter.

4.5.2 Operating/Analytical Procedures

- (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
- (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
- (c) All in-situ measurements were taken at 3 water depths, 1m below water surface, mid-depth and 1m above sea bed, except where the water depth was less than 6m, in which case the mid-depth station was omitted. Should the water depth be less than 3m, only the mid-depth station was monitored.
- (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in high density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
- (f) The analysis method and reporting and detection limit for SS is shown in **Table 4.5**.

Table 4.5 Laboratory Analysis for Suspended Solids

Parameters	Instrumentation	Analytical Method	Reporting Limit	Detection Limit
Suspended Solids (SS)	Weighting	APHA 2540-D	0.5mg/L	0.5mg/L

- (g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.

4.5.3 Maintenance and Calibration

- (a) All in situ monitoring instruments would be calibrated and calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. Calibration details are provided in **Appendix G**.
- (b) The dissolved oxygen probe of YSI 6820 was calibrated by wet bulb method. Before the calibration routine, the sensor for dissolved oxygen was thermally equilibrated in water-saturated air. Calibration cup is served as a calibration chamber and it was loosened from airtight condition before it is used for the calibration. Calibration at ALS Technichem (HK) Pty Ltd. was carried out once every three months in a water sample with a known concentration of dissolved oxygen. The sensor was immersed in the water and after thermal equilibration, the known mg/L value was keyed in and the calibration was carried out automatically.

- (c) The turbidity probe of YSI 6820 is calibrated two times a month. A zero check in distilled water was performed with the turbidity probe of YSI 6820 once per monitoring day. The probe will be calibrated with a solution of known NTU at ALS Technichem (HK) Pty Ltd. once every three months.

4.6 Monitoring Result

- 4.6.1 Impact water quality monitoring results and graphical plots are provided in **Appendix D**.
- 4.6.2 For impact water quality monitoring, number of exceedances recorded during the reporting month at each impact station are summarised in **Table 4.6**.
- 4.6.3 No Action Level and Limit Level exceedances dissolved oxygen were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 4.6.4 No Action Level and Limit Level exceedances of turbidity were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 4.6.5 One Action Level exceedance of suspended solid was recorded at mid-ebb tide on 2 April 2018 while four Action Level exceedances of suspended solid were recorded at mid-flood tide on 18, 20 and 23 April 2018. No Limit Level exceedances of suspended solid were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 4.6.6 As confirmed by the Contractor, no marine transportation and marine-based work was conducted during the water quality exceedance day. Therefore, it is concluded that the exceedances were not related the Contract. The detailed investigation results of this exceedance recorded is shown in **Appendix N**.
- 4.6.7 The event and action plan is provided in **Appendix H**.

Table 4.6 Summary of Water Quality Exceedances

Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action Level							2018-04-02	
	Limit Level								
IS(Mf)6	Action Level								
	Limit Level								
IS7	Action Level								
	Limit Level								
IS8	Action Level								
	Limit Level								
IS(Mf)9	Action Level								
	Limit Level								
IS10(N)	Action Level								2018-04-20
	Limit Level								
IS(Mf)11	Action Level								



Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
	Limit Level								
IS(Mf)16	Action Level								
	Limit Level								
IS17	Action Level								
	Limit Level								
SR3(N)	Action Level								
	Limit Level								
SR4(N)	Action Level								
	Limit Level								
SR5(N)	Action Level								
	Limit Level								
SR6	Action Level								2018-04-18
	Limit Level								
SR7	Action Level								2018-04-18; 2018-04-25
	Limit Level								
SR10A(N)	Action Level								
	Limit Level								
SR10B (N2)	Action Level								
	Limit Level								
Total	Action Level	0	0	0	0	0	0	1	4
		5							
	Limit Level	0	0	0	0	0	0	0	0
		0							

5 Dolphins Monitoring

5.1 Monitoring Requirement

- 5.1.1 Vessel based surveys for the Chinese White Dolphin (CWD), *Sousa chinensis*, are to be conducted by a dedicated team comprising a qualified marine mammal ecologist and experienced marine mammal observers (MMOs). The purpose of the surveys is to evaluate the impact of the HKCBF reclamation and, if deemed detrimental, to take appropriate action as per the EM&A manual.
- 5.1.2 The Action and Limit Level for dolphin monitoring are provided in **Table 5.1** and **5.2** respectively.

Table 5.1 Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	Northeast Lantau (NEL)	Northwest Lantau (NWL)
Action Level	(STG < 70% of baseline) & (ANI < 70% of baseline)	(STG < 70% of baseline) & (ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND [(STG < 40% of baseline) & (ANI < 40% of baseline)]	

Remarks:

1. STG means no. of on-effort dolphin sightings per 100 km of survey effort
2. ANI means no. of dolphins from all on-effort sightings per 100 km of survey effort
3. For North Lantau Social Cluster, AL will be trigger if either NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table 5.2 Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) & (ANI < 15.5)	(STG < 6.9) & (ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI < 8.9)] AND [(STG < 3.9) & (ANI < 17.9)]	

- 5.1.3 The event and action plan is provided in **Appendix H**.

5.2 Monitoring Methodology and Location

Vessel-based Line-transect Survey

- 5.2.1 According to the requirement of the updated EM&A manual, dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (**Figure 1 of Appendix E**) twice per month throughout the entire construction period.
- 5.2.2 The co-ordinates for the transect lines and a layout map showing the transect lines have been provided by AFCD and are shown in **Table 5.3**.



Table 5.3 Impact Dolphin Monitoring Transect Line Co-ordinates

Transect Line No.	HK Grid System	
	Easting	Northing
1(#)	804671	815456
	804671	831404
2(#)	805476	820800
	805476	826654
3	806464	821150
	806464	822911
4	807518	821500
	807518	829230
5	808504	821850
	808504	828602
6	809490	822150
	809490	825352
7(#)	810499	822000
	810499	824613
8(#)	811508	821123
	811508	824254
9(#)	812516	821303
	812516	824254
10*	813525	820827
	813525	824657
11#	814556	818853
	814556	820992
12	815542	818807
	815542	824882
13	816506	819480
	816506	824859
14	817537	820220
	817537	824613
15	818568	820735
	818568	824433
16	819532	821420
	819532	824209
17	820451	822125
	820451	823671
18	821504	822371
	821504	823761
19	822513	823268
	822513	824321
20	823477	823402
	823477	824613
21	805476	827081
	805476	830562
22	806464	824033
	806464	829598
23	814559	821739
	814559	824768
24	805476	815900
	805476	819100

Remarks:
(a) * Due to the presence of deployed silt curtain systems at the site boundaries of the Contract, some of



the transect lines shown in Figure 1 of Appendix E could not be fully surveyed during the regular survey. Transect 10 is reduced from 6.4km to approximately 3.6km in length due to the HKBCF construction site. Therefore, the total transect length for both NEL and NWL combined is reduced to approximately 108km.

- (b) # Coordinates for transect lines 1, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015.
- (c) Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original transect lines of dolphin monitoring 2, 3, 4, 5, 6 and 7 are enclosed by works boundary of 3RS Project. Alternative dolphin monitoring transect lines 2, 3, 4, 5, 6, 7 and 24 are adopted starting from 17 May 2017 to replace the original transect lines.
- (d) The change of transect lines 2, 3, 4, 5, 6 and 7 and new vessel-based transect line 24 for dolphin monitoring have been proposed due to the marine work of a designated project - Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project). It was justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017 and it was approved by EPD on 12 May 2017.

- 5.2.3 The survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 20 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2017). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.
- 5.2.4 Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fuion* marine binoculars.
- 5.2.5 Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.
- 5.2.6 During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).
- 5.2.7 Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 5.2.8 When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.
- 5.2.9 Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in **Figure 1 of Appendix E**) was labeled as “primary” survey effort,

while the survey effort conducted along the connecting lines between parallel lines was labeled as “secondary” survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected along primary and secondary lines were similar in NEL and NWL survey areas. Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.

- 5.2.10 Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using primary survey effort alone, as well as the combined survey effort from both primary and secondary lines.

Photo-identification Work

- 5.2.11 When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.
- 5.2.12 A professional digital camera (*Canon* EOS 7D or 60D model), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.
- 5.2.13 All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.
- 5.2.14 Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).
- 5.2.15 All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database.

5.3 Monitoring Schedule for the Reporting Month

- 5.3.1 The schedule for dolphin monitoring in April 2018 is provided in **Appendix M**.

5.4 Monitoring Result

Vessel-based Line-transect Survey

- 5.4.1 Two sets of systematic line-transect vessel surveys were conducted under the HKBCF dolphin monitoring programme on the 11, 18, 24 and 26 April 2018, to cover all transect lines in NWL and NEL survey areas twice. The survey routes of each survey day are presented in **Figures 2 to 5 of Appendix E**.
- 5.4.2 A total of 268.99 km of survey effort was collected, with 100.0% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the March’s surveys (**Annex I of Appendix E**).
- 5.4.3 Among the two areas, 102.90 km and 166.09 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 190.53 km and 78.46 km respectively (**Annex I of Appendix E**).

- 5.4.4 During the two sets of monitoring surveys in April 2018, only three groups of eight Chinese White Dolphins were sighted (**Annex II of Appendix E**). All three dolphin sightings were made in NWL, while none was sighted in NEL. Moreover, all three dolphin groups were sighted on primary lines during on-effort search (**Appendix II of Appendix E**). Notably, none of the sightings was associated with any operating fishing vessel.
- 5.4.5 Distribution of the dolphin sightings made in April 2018 is shown in **Figure 6 of Appendix E**. These dolphin groups were sighted to the north, northeast and southwest of Lung Kwu Chau at the northwestern end of the North Lantau region (**Figure 6 of Appendix E**). Notably, all dolphin groups were sighted very far away from the HKBCF reclamation site, as well as the HKLR03 reclamation site and HKLR09/TMCLKL alignments (**Figure 6 of Appendix E**).
- 5.4.6 During the April's surveys, encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) are shown in **Tables 5.4 and 5.5**.

Table 5.4 Dolphin encounter rates deduced from the two sets of HKBCF surveys (two surveys in each set) in April 2018 in Northeast (NEL) and Northwest Lantau (NWL)

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: April 11 th / 18 th	0.0	0.0
	Set 2: April 24 th / 26 th	0.0	0.0
NWL	Set 1: April 11 th / 18 th	1.7	5.2
	Set 2: April 24 th / 26 th	3.4	8.6

Table 5.5 Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four HKBCF surveys conducted in April 2018 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	2.6	1.8	6.9	4.8

- 5.4.7 The average dolphin group size in April 2018 was 2.7 individuals per group. All three groups were small in size with 2-3 animals per group (**Annex II of Appendix E**).

Photo-identification Work

- 5.4.8 Six known individual dolphins were re-sighted seven times during April's surveys (**Annex III and IV of Appendix E**). Besides NL123 being re-sighted twice, the rest of them were re-sighted only once during the monitoring month.
- 5.4.9 Notably, one of the identified individuals (NL202) was sighted with her older calf (NL286) during their re-sightings in April 2018.

6 Environmental Site Inspection and Audit

6.1 Site Inspection

- 6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract No. HY/2013/01 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/01 works area). During the reporting period, site inspections were carried out on 4, 11, 18 and 25 April 2018.
- 6.1.2 Particular observations for Contract No. HY/2013/01 and Contract No. HY/2013/06 within Contract No. HY/2013/01 works area during the site inspections and corrective actions undertaken by the Contractor are described in **Table 6.1** and **Table 6.2**.

Table 6.1 Summary of Environmental Site Inspections for Contract No. HY/2013/01

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 April 2018	Nil	Nil.	Nil.
11 April 2018	<ol style="list-style-type: none"> General refuses were found in the works area at Row 1. Oil stains was observed at Row 1. Chemical container was found without drip tray at Row 4. 	<ol style="list-style-type: none"> The general refuses were removed from the works area at Row 1. The oil stain was cleared at Row 1. The chemical container was removed at Row 4. 	18 April 2018
18 April 2018	Nil.	Nil.	Nil.
25 April 2018	<ol style="list-style-type: none"> Chemical containers were found without drip tray at Row 1. 	<ol style="list-style-type: none"> The Contractor was reminded to provide drip trays for the chemical containers 	Follow-up action undertaken by the Contractor will be inspected during the site inspection to be undertaken in May 2018.

Table 6.2 Summary of Environmental Site Inspections for Contract No. HY/2013/06 within Contract No. HY/2013/01 works area

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
11 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
25 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

6.1.3 Particular observations (Landscape works) for Contract No. HY/2013/01 during the site inspections and corrective actions undertaken by the Contractor are described in **Table 6.3**. The landscape work for Contract No. HY/2013/01 was commenced on 1 March 2018. The implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were monitored during the reporting period. Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor.

Table 6.3 Summary of Environmental Site Inspections (Landscape works) for Contract No. HY/2013/01 works area

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
11 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
25 April 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

6.1.4 The Contractor has rectified all observations as identified during environmental site inspections during the reporting month.

6.2 Advice on the Solid and Liquid Waste Management Status

- 6.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 6.2.2 No marine sediment was generated in the reporting month. As informed by the Contractor in April 2016, the transfer of treated marine sediment to Contract no. HY/2010/02 has been discontinued since July 2015.
- 6.2.3 The monthly summary of waste flow table is detailed in **Appendix I**.
- 6.2.4 The Contractor was reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage areas on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

6.3 Environmental Licenses and Permits

- 6.3.1 The valid environmental licenses and permits for Contract No. HY/2013/01 during the reporting period are summarized in **Appendix J**.
- 6.3.2 As confirmed the contractor (Contract No. HY/2013/01), all chemical waste from Contract No. HY/2013/06 should be disposed through Contractor of Contract No. HY/2013/01 within Contract No. HY/2013/01 site area. Contract No. HY/2013/06 with valid Disposal of Construction Waste Billing Account during the reporting period are summarized in **Appendix J**.



6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 The Contractor conducts watering on all exposed soil within the Contract site and associated works areas 8 times per day when construction activities are being undertaken.
- 6.4.3 The marine traffic records and geographical plots of all the vessels tracks will be submitted by the Contractor to ER, ETL and IEC/ENPO within 3 weeks after the reporting month. As informed by Contractor, there was no marine transportation since 30 January 2018.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity check), regular checking were conducted by the dolphin watcher(s) / dolphin observer(s) within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. No dolphin spotted within the enclosed silt curtain systems was reported and recorded during the reporting period. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.
- 6.4.5 Training was provided for barge operators in accordance with the Regular Marine Travel Routes Plan and relevant records were kept properly.
- 6.4.6 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix K**. Most of the necessary mitigation measures were implemented properly.

6.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 6.5.1 For air quality monitoring, no Action and Limit Level exceedances of 1-hour and 24-hour TSP level were recorded at AMS2, AMS3B and AMS7B during the reporting month.
- 6.5.2 Summary of Action and Limit Level exceedance of 1-hour TSP level and 24-hour TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 6.5.3 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.
- 6.5.4 For water quality monitoring, no Action Level and Limit Level exceedances dissolved oxygen were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 6.5.5 No Action Level and Limit Level exceedances of turbidity were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 6.5.6 One Action Level exceedance of suspended solid was recorded at mid-ebb tide on 2 April 2018 while four Action Level exceedances of suspended solid were recorded at mid-flood tide on 18, 20 and 23 April 2018. No Limit Level exceedances of suspended solid were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 6.5.7 As confirmed by the Contractor, no marine transportation and marine-based work was conducted on 2, 18, 20 and 23 April 2018. Therefore, it is concluded that the exceedances were not related the Contract.
- 6.5.8 For dolphin monitoring, dolphin surveys were conducted on 11, 18, 24 and 26 April 2018, A total of 268.99 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather. Only three groups of eight Chinese White Dolphins were sighted. Both dolphin sightings were made in NWL, while none was sighted in NEL.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 6.6.1 There was no complaint received in relation to the environmental impact during the reporting period. The details of cumulative statistics of Environmental Complaints are provide in **Appendix L**.



- 6.6.2 No notification of summons and prosecution was received during the reporting period.
- 6.6.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix L**.

7 Future Key Issues

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major construction activities for May 2018 are summarized in **Table 7-1**.

Table 7-1 Construction Activities for May 2018

Site Area	Description of Activities	Nature of Activities
For Contract No. HY/2013/01		
WA1	Wet trade works of Toilets	Land-Based
WA1	Dry trade works of Toilets	Land-Based
WA1	MEP High Level Containment	Land-Based
WA1	Third Party Independent Design Checker (TPIDC) Inspections	Land-Based
WA1	Paving	Land-Based
WA1	Planting Trees	Land-Based
WA1	Lift/Escalator EMSD Inspection	Land-Based
WA1	Fit-out of lift cars	Land-Based
WA1	Glazing Works	Land-Based
WA1	Cleaning	Land-Based
WA1	Kiosk/Booth installation	Land-Based
WA1	Testing and commissioning works	Land-Based
For Contract No. HY/2013/06 within Contract No. HY/2013/01 works area		
ELV & Server Room, Zone E PCB	Conduit installation and cabling	Land-Based

7.2 Environmental Site Inspection and Monitoring Schedule for the Coming Month

7.2.1 The tentative schedule for weekly site inspection and monitoring for May 2018 is provided in **Appendix M**.

8 Conclusions

8.1 Conclusions

- 8.1.1 The site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014. The construction works of the Contract No. HY/2013/06 within Contractor No. HY/2013/01 works area commenced on 20 February 2018. The forty-third Monthly EM&A Report summarizes findings of the EM&A works during the reporting period from 1 to 30 April 2018 (included the construction works of Contract No. HY/2013/06 within Contractor No. HY/2013/01 works area).
- 8.1.2 For air quality monitoring, no Action and Limit Level exceedances of 1-hour and 24-hour TSP level were recorded at AMS2, AMS3B and AMS7B during the reporting month.
- 8.1.3 Summary of Action and Limit Level exceedance of 1-hour TSP level and 24-hour TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 8.1.4 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.
- 8.1.5 For water quality monitoring during the reporting month, no Action Level and Limit Level exceedance of dissolved oxygen were recorded at mid-ebb tide and mid-flood tide. No Action Level and Limit Level exceedance of turbidity was recorded at mid-ebb tide and mid-flood tide. One Action Level exceedance of suspended solid was recorded at mid-ebb tide on 2 April 2018 while four Action Level exceedances of suspended solid were recorded at mid-flood tide on 18, 20 and 23 April 2018. No Limit Level exceedances of suspended solid were recorded at mid-ebb tide and mid-flood tide. As confirmed by the Contractor, no marine transportation and marine-based work was conducted on 2, 18, 20 and 23 April 2018. Therefore, it is concluded that the exceedances were not related the Contract.
- 8.1.6 For dolphin monitoring, dolphin surveys were conducted on 11, 18, 24 and 26 April 2018, A total of 268.99 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather. Only three groups of eight Chinese White Dolphins were sighted (Appendix II). All three dolphin sightings were made in NWL, while none was sighted in NEL.
- 8.1.7 Environmental site inspections were carried out on 4, 11, 18 and 25 April 2018 for the Contract No. HY/2013/01 (includes the construction works of Contract No. HY/2013/06 within Contractor No. HY/2013/01 works area). Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.
- 8.1.8 There was no complaint received in relation to the environmental impact during the reporting period.
- 8.1.9 No notification of summons and successful prosecution was received during the reporting period.



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

FIGURES

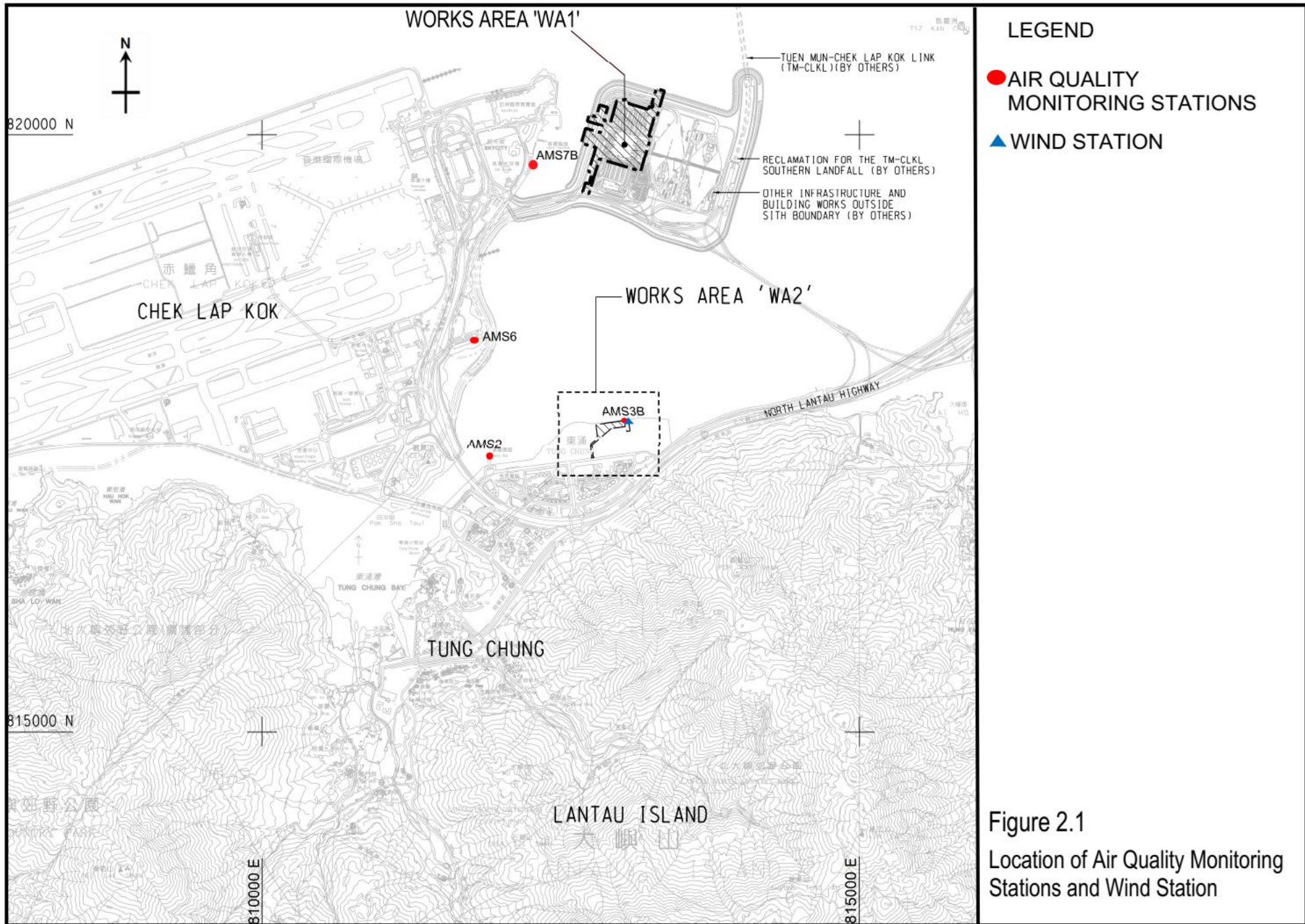


Figure 2.1
Location of Air Quality Monitoring Stations and Wind Station

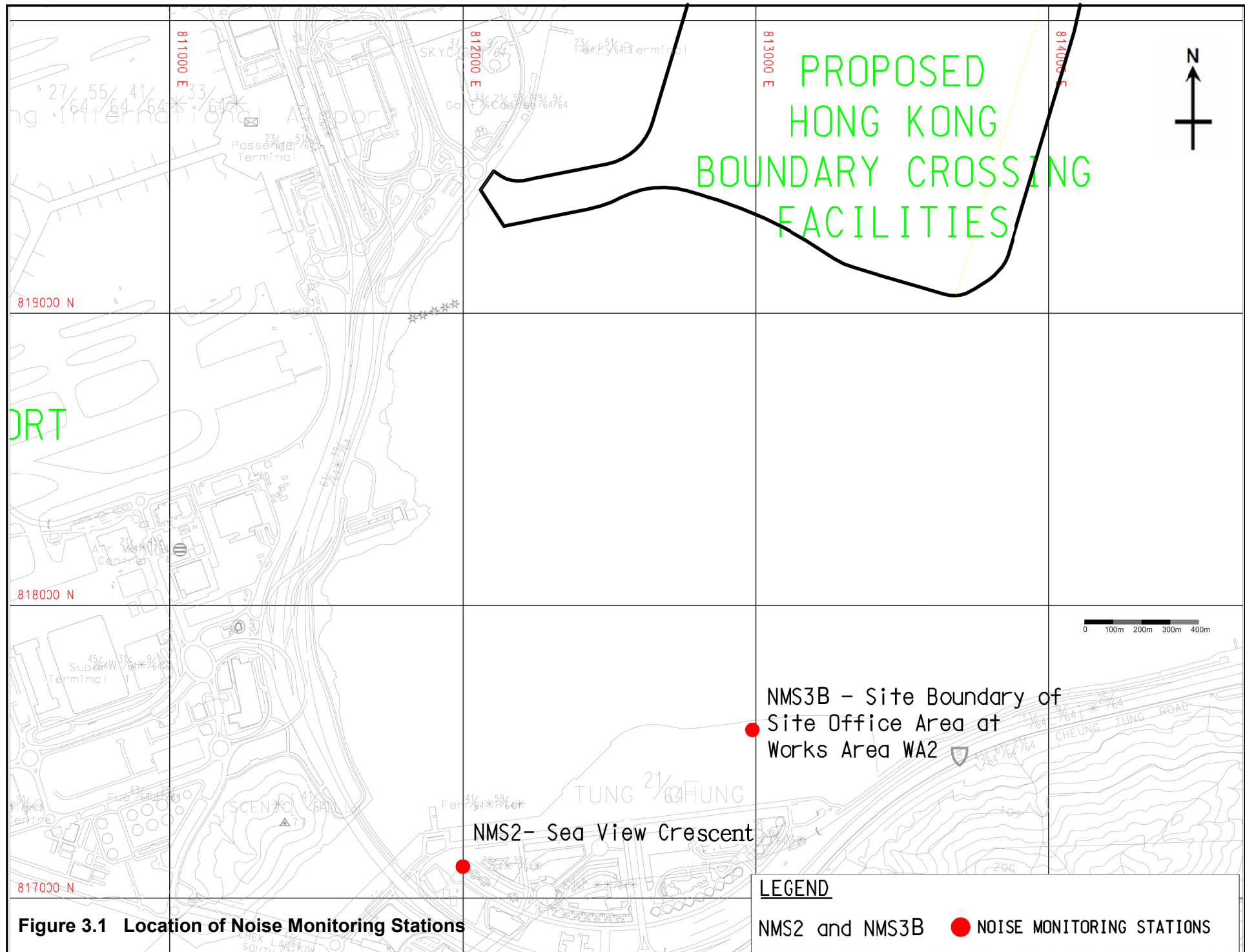
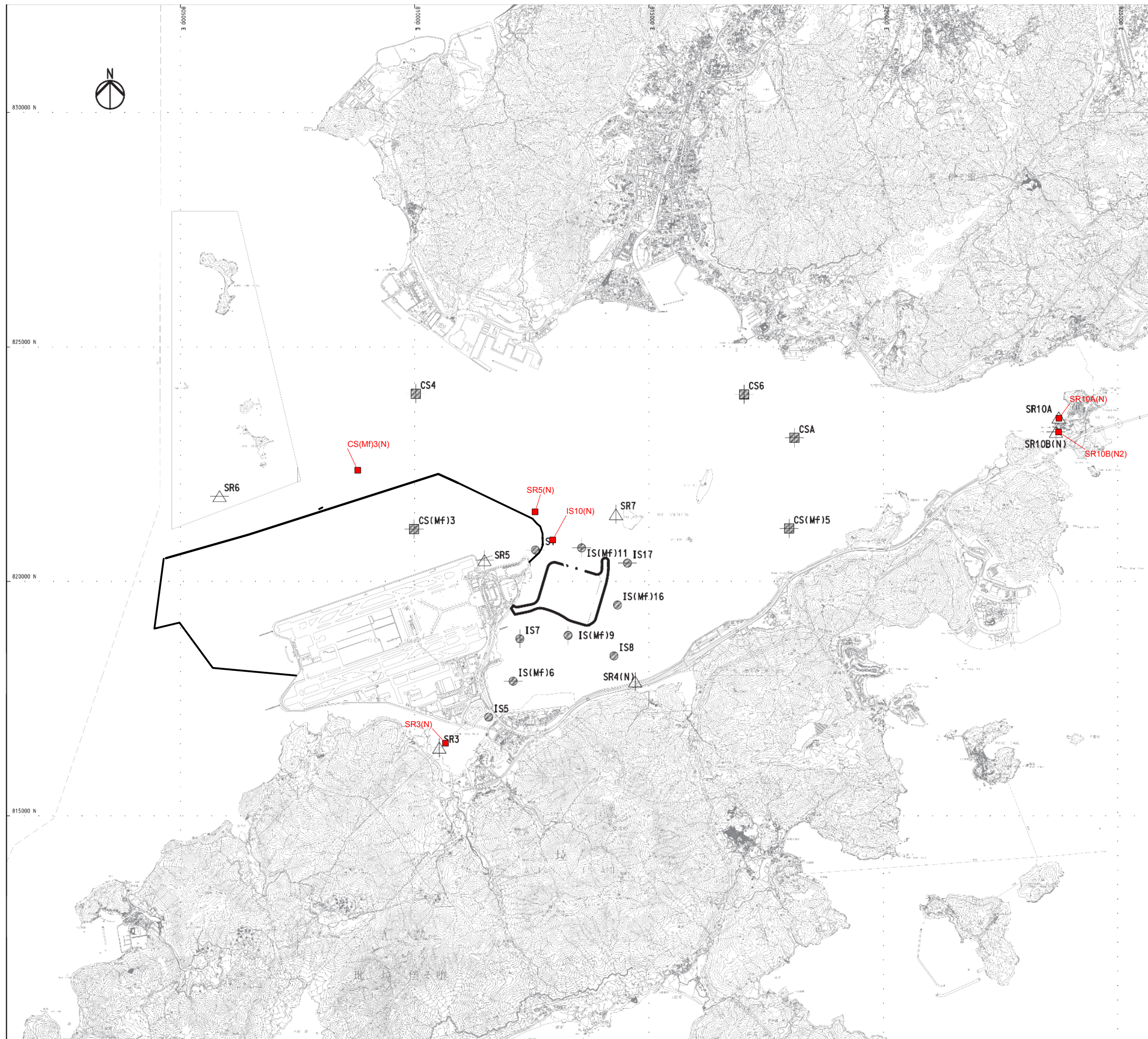


Figure 3.1 Location of Noise Monitoring Stations

LEGEND

NMS2 and NMS3B ● NOISE MONITORING STATIONS



Station	East	North
IS5	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
IS10(N)	812942	820881
IS(Mf)11	813562	820716
IS(Mf)16	814328	819497
IS17	814539	820391
SR3(N)	810689	816591
SR4(N)	814705	817859
SR5(N)	812569	821475
SR6	805837	821818
SR7	814293	821431
SR10A(N)	823644	823484
SR10B(N2)	823689	823159
CS(Mf)3(N)	808814	822355
CS(Mf)5	817990	821129
CS4	810025	824004
CS6	817028	823992
CSA	818103	823064

FIGURE 4.1— LOCATION OF WATER QUALITY MONITORING STATIONS



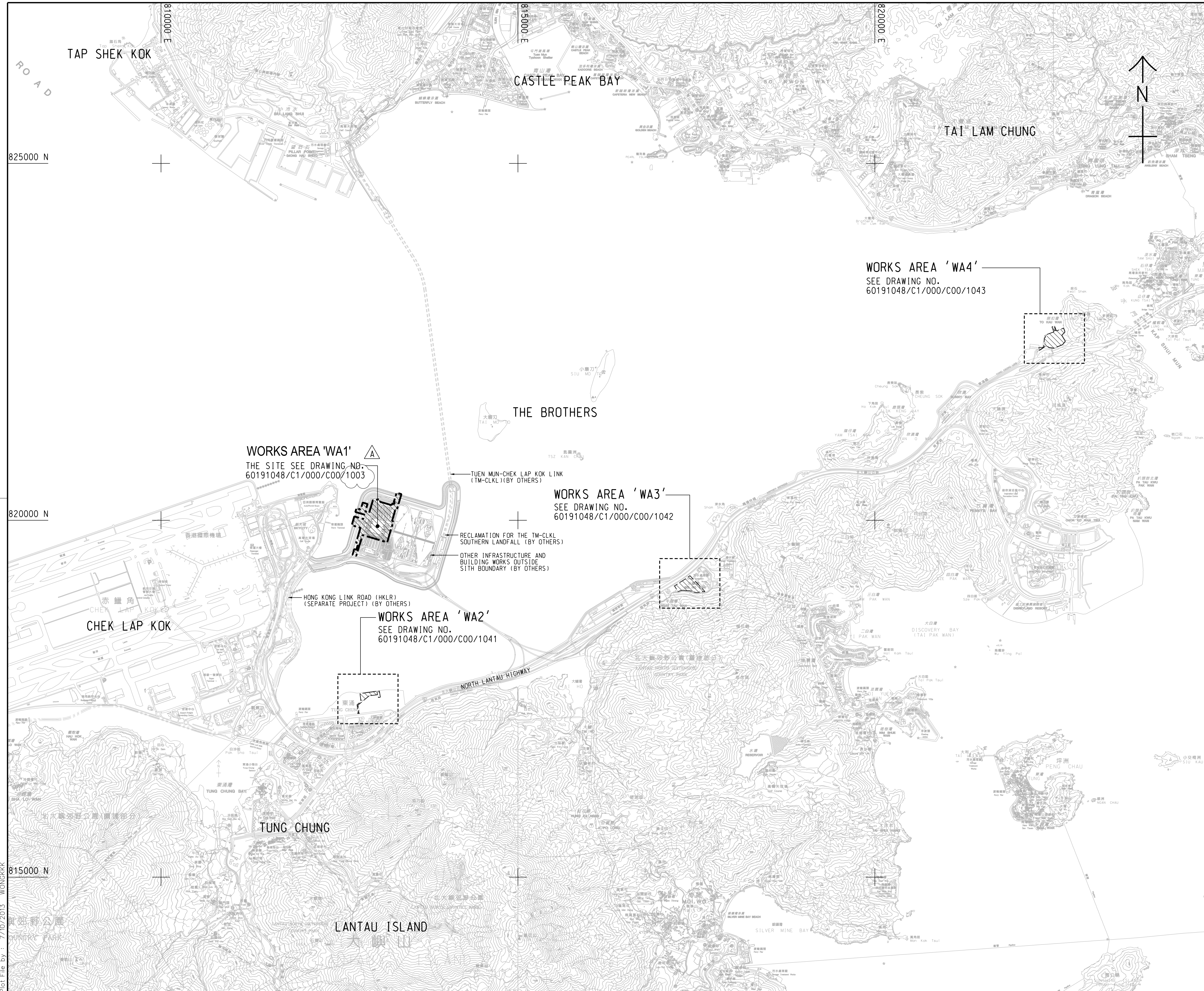
路政署
HIGHWAYS DEPARTMENT

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

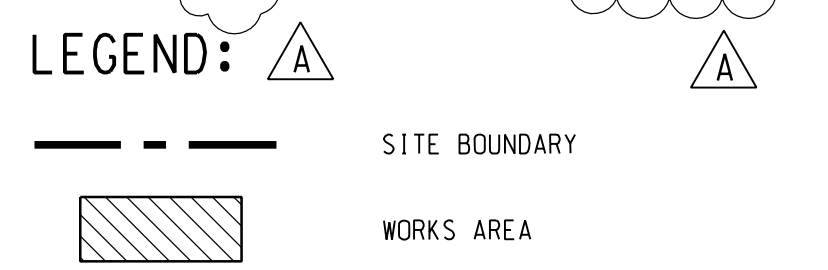
Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX A

Location of Works Areas



- NOTES:**
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
 - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C1/000/C00/1041 TO 1043.



WORKS AREA 'WA1'
THE SITE SEE DRAWING NO. 60191048/C1/000/C00/1003

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

WORKS AREA 'WA3'
SEE DRAWING NO. 60191048/C1/000/C00/1042

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

WORKS AREA 'WA2'
SEE DRAWING NO. 60191048/C1/000/C00/1041

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

WORKS AREA 'WA4'
SEE DRAWING NO. 60191048/C1/000/C00/1043

B	WORKING DRAWING	BWCW SCI JUN.14
A	TENDER ADDENDUM NO. 1	BWCW SCI OCT.13
-	TENDER DRAWING	BWCW SCI SEP.13
REV.	DESCRIPTION	CHECKED DATE
修訂	內容摘要	審核 日期

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

HONG KONG-ZHUHAI-MACAO BRIDGE
 HONG KONG BOUNDARY CROSSING FACILITIES
 - PASSENGER CLEARANCE BUILDING

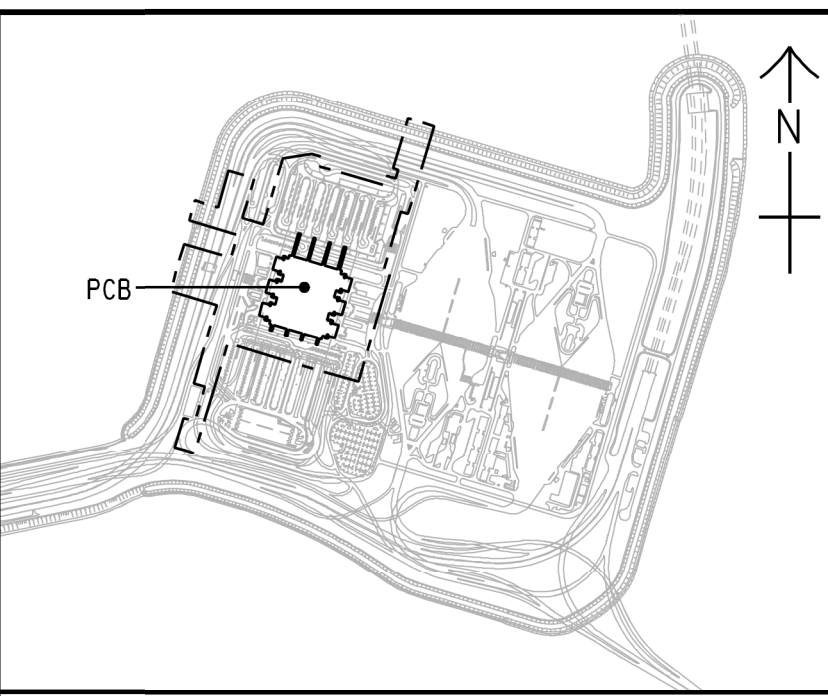
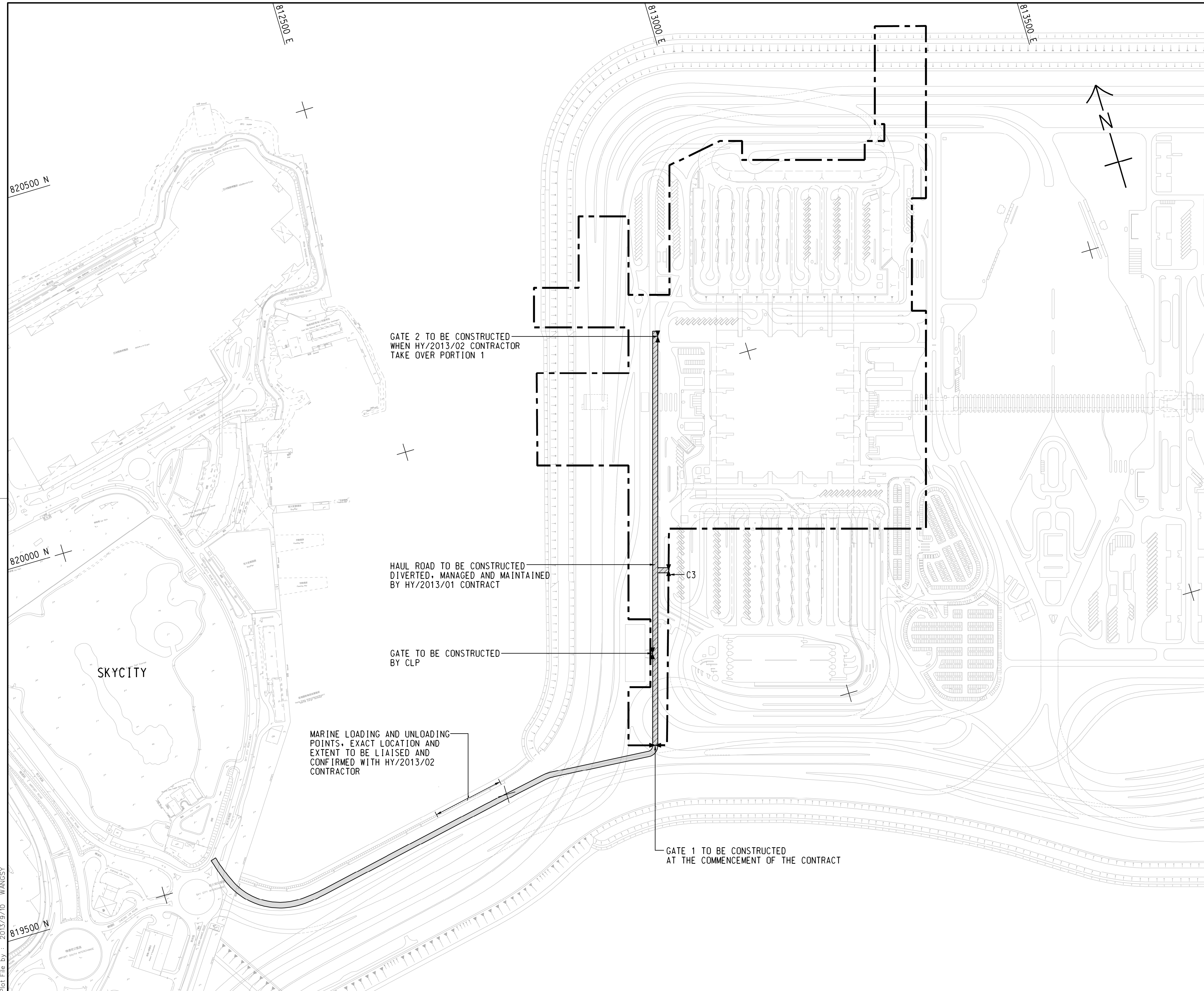
SITE LOCATION PLAN

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

DRG.NO. 60191048/C1/000/C00/1000B
 圖紙編號

DESIGNED BY 設計	BWCW	CONTRACT NO. 合約編號	HY/2013/01	P. DIR. APPROVED 批准人	TKH
DRAWN BY 繪圖	WSY	STATUS 階段	WORKING DRAWING		
SCALE 比例	A1 1 : 25000	DIMENSIONS ARE IN 尺寸單位 METRES			
© COPYRIGHT RESERVED 版權所 有					

Plot File by : 7/10/2013 WONGKKK



LOCATION PLAN
SCALE 1 : 20000

- NOTES:**
- COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
 - LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (mPD) UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - SETTING OUT, DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
 - SITE ACCESS SHALL BE HARD PAVED WITH PROPER DRAINAGE PROVIDED. IT SHALL BE KEPT UNOBSTRUCTED AND UNDISRUPTED AT ALL TIMES.

- LEGEND:**
- SITE BOUNDARY
 - 7.3m CLEAR WIDTH CONSTRUCTION HAUL ROAD
 - INDICATIVE 20m WIDE VEHICULAR ACCESS BY RECLAMATION CONTRACT HY/2010/02

GATE 2 TO BE CONSTRUCTED WHEN HY/2013/02 CONTRACTOR TAKE OVER PORTION 1

HAUL ROAD TO BE CONSTRUCTED DIVERTED, MANAGED AND MAINTAINED BY HY/2013/01 CONTRACT

GATE TO BE CONSTRUCTED BY CLP

MARINE LOADING AND UNLOADING POINTS, EXACT LOCATION AND EXTENT TO BE LIAISED AND CONFIRMED WITH HY/2013/02 CONTRACTOR

GATE 1 TO BE CONSTRUCTED AT THE COMMENCEMENT OF THE CONTRACT

REV.	DESCRIPTION	CHK'D	DATE
01	TENDER DRAWING	BWCW SCI	SEP.13

路政署 HIGHWAYS DEPARTMENT
港珠澳大桥香港工程管理处
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE
 HONG KONG BOUNDARY CROSSING FACILITIES
 - PASSENGER CLEARANCE BUILDING

WORKS AREA WA1

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

Aedas

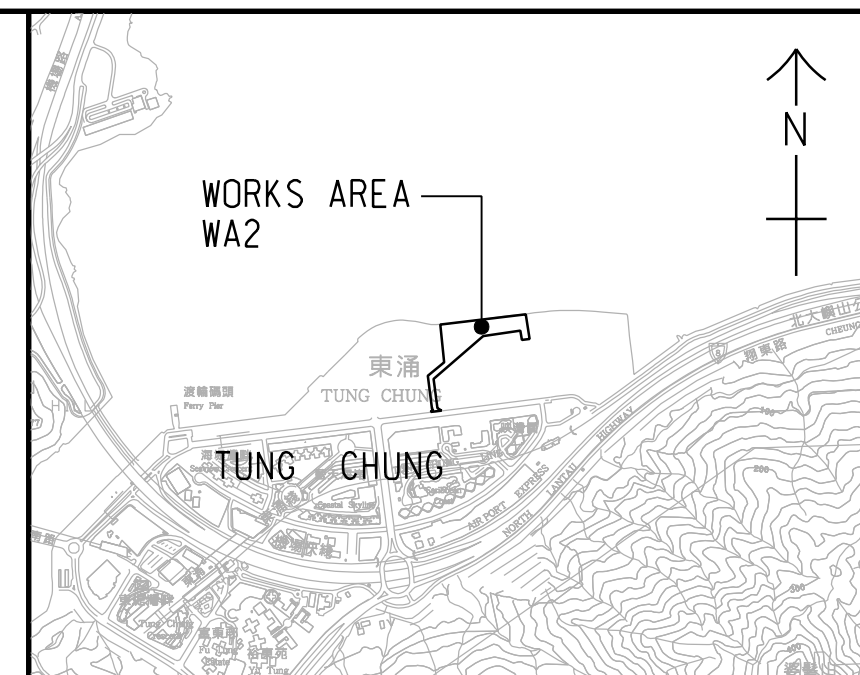
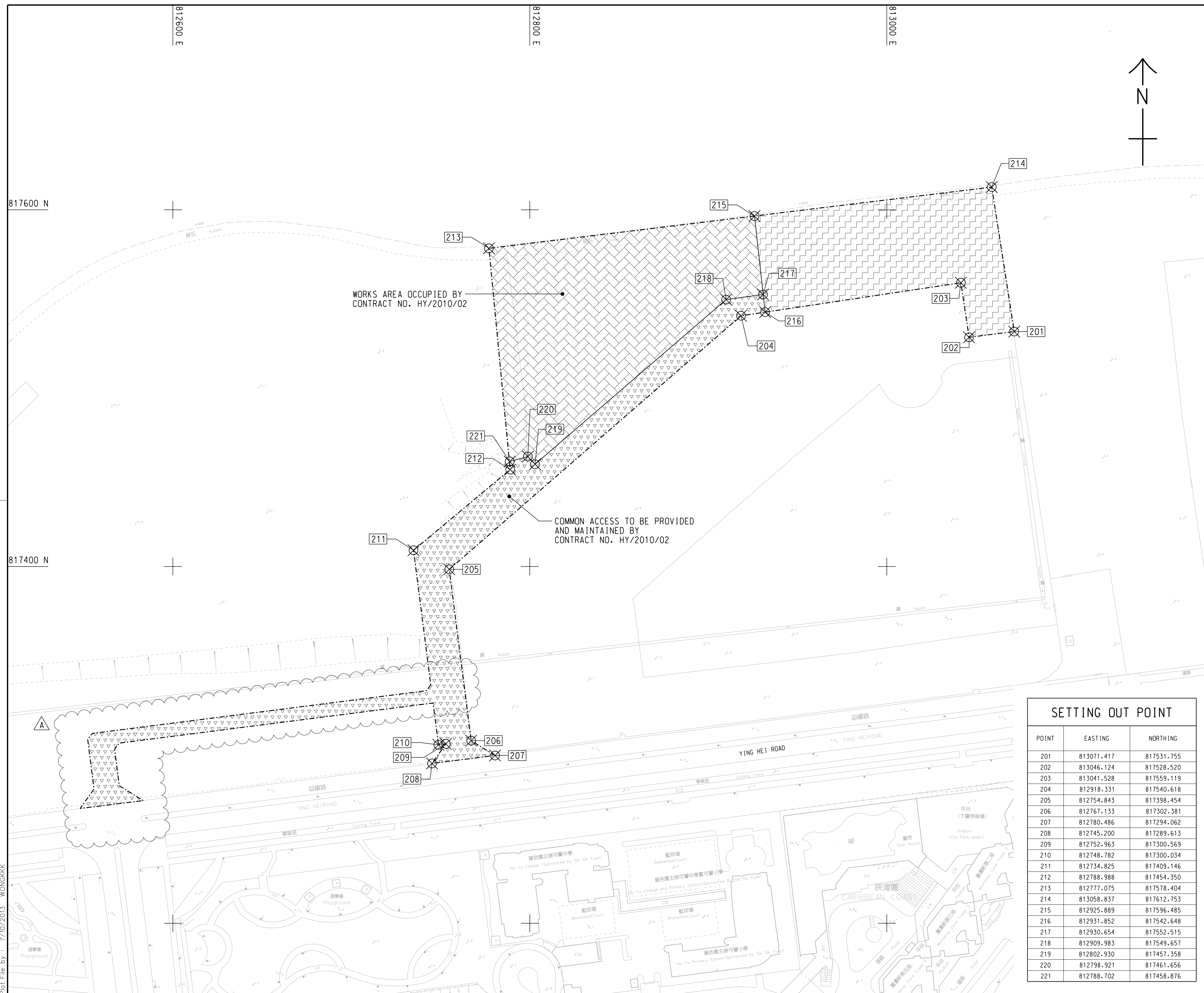
DRG.NO. 60191048/C1/000/C00/1044
 圖紙編號

DESIGNED BY BWCW	CONTRACT NO. HY/2013/01	P. Dir. APPROVED EMSC
---------------------	----------------------------	--------------------------

DRAWN BY WSY	STATUS CHECKED
-----------------	-------------------

SCALE 1 : 2500
 DIMENSIONS ARE IN METRES

© COPYRIGHT RESERVED
 版權所有



LOCATION PLAN
SCALE 1 : 25000

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

- LEGEND:**
- WORKS AREA BOUNDARY
 - [Hatched Pattern] PORTION 2.1
 - [Cross-hatched Pattern] PORTION 2.2
 - [Triangle Pattern] PORTION 2.3

B	WORKING DRAWING	BWCW SCI	JUN. 14
A	TENDER ADDENDUM NO. 1	BWCW SCI	OCT. 13
-	TENDER DRAWING	BWCW SCI	SEP. 13
REV.	DESCRIPTION	CHECKED	DATE
01	內務圖	WONG	13/10/13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA2

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

DRG. NO. 60191048/C1/000/C00/1041B
圖紙編號

DESIGNED BY 設計	BWCW	CONTRACT NO. 合約編號	HY/2013/01	P. DIR. APPROVED 批准人	TKH
DRAWN BY 繪圖	WSY	STATUS 狀況	WORKING DRAWING		
SCALE 比例	A1 1 : 1000	DIMENSIONS ARE IN 尺寸單位 METRES			
		© COPYRIGHT RESERVED 版權所 有			

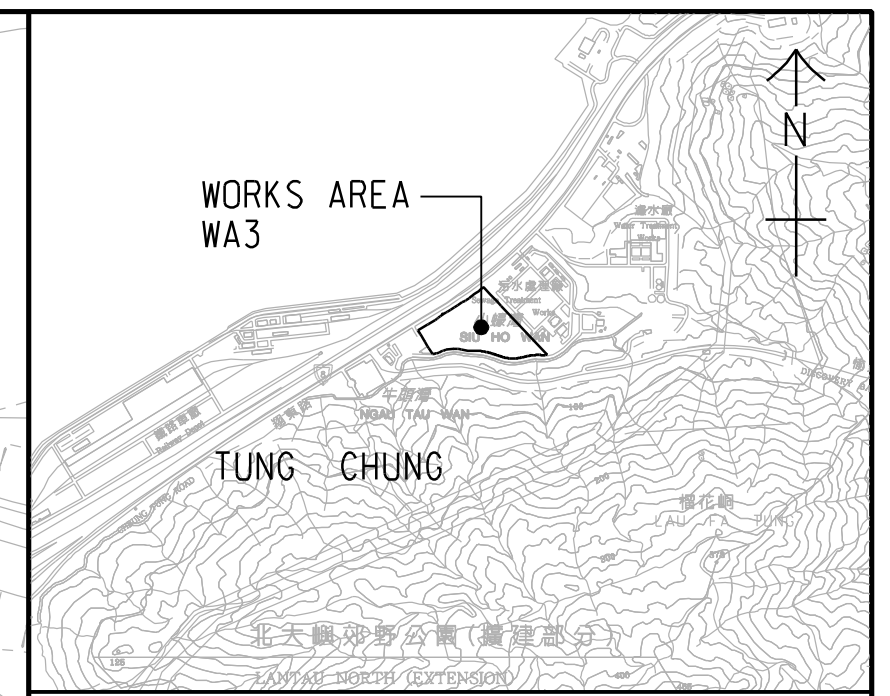
SETTING OUT POINT

POINT	EASTING	NORTHING
201	813071.417	817531.755
202	813046.124	817528.520
203	813041.528	817559.119
204	812918.331	817540.618
205	812754.843	817398.454
206	812767.133	817302.381
207	812780.486	817294.062
208	812745.200	817289.613
209	812752.963	817300.569
210	812748.782	817300.034
211	812734.825	817409.146
212	812788.988	817454.350
213	812777.075	817578.404
214	813058.837	817612.753
215	812925.889	817596.485
216	812931.852	817542.648
217	812930.654	817552.515
218	812909.983	817549.657
219	812802.930	817457.358
220	812798.921	817461.656
221	812788.702	817458.876

Plot File by : 7/10/2013 WONGKKK

SETTING OUT POINT

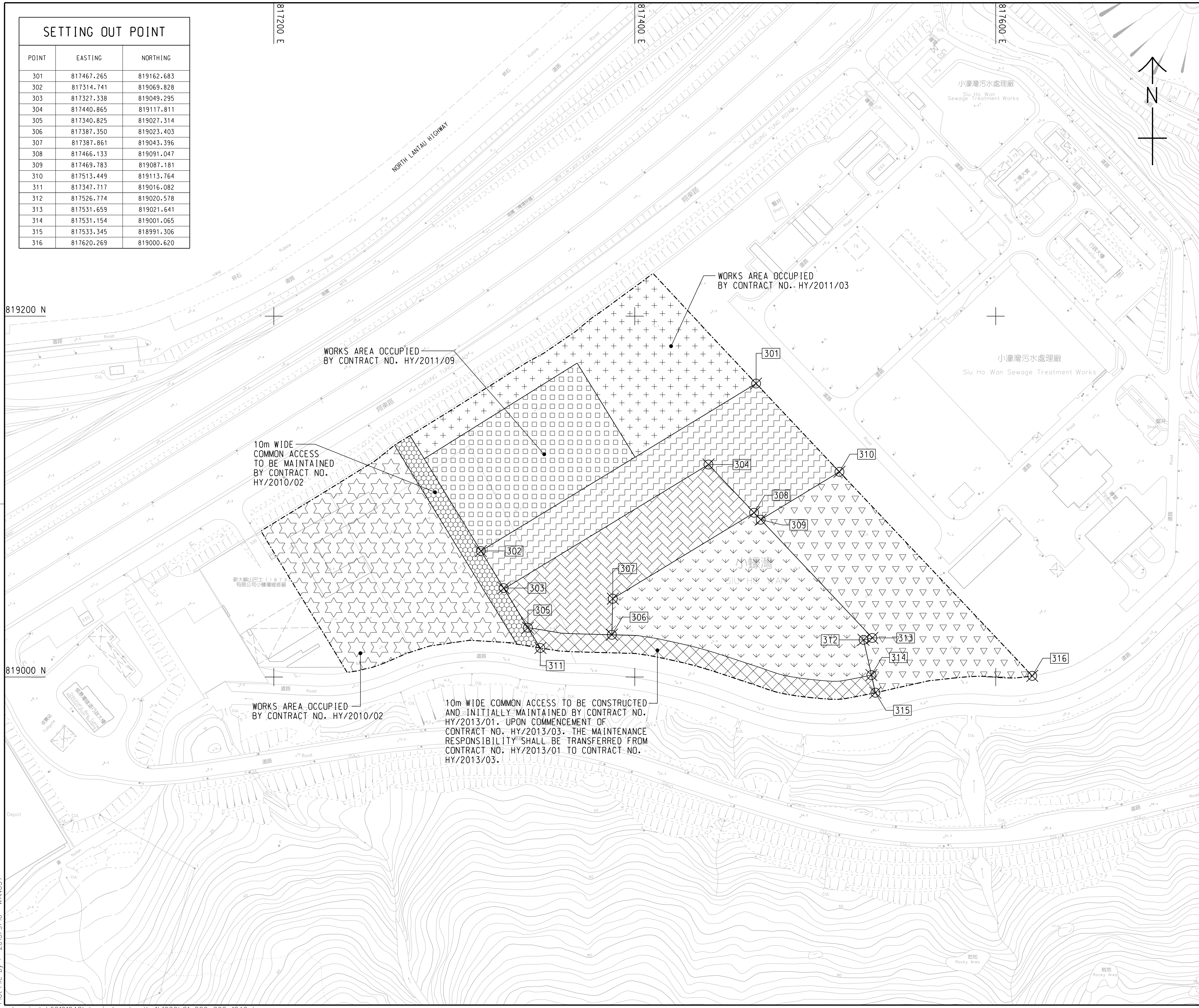
POINT	EASTING	NORTHING
301	817467.265	819162.683
302	817314.741	819069.828
303	817327.338	819049.295
304	817440.865	819117.811
305	817340.825	819027.314
306	817387.350	819023.403
307	817387.861	819043.396
308	817466.133	819091.047
309	817469.783	819087.181
310	817513.449	819113.764
311	817347.717	819016.082
312	817526.774	819020.578
313	817531.659	819021.641
314	817531.154	819001.065
315	817533.345	818991.306
316	817620.269	819000.620



LOCATION PLAN
SCALE 1 : 25000

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

- LEGEND:
- WORKS AREA BOUNDARY
 - PORTION 3.1
 - PORTION 3.2
 - PORTION 3.3
 - PORTION 3.4
 - PORTION 3.5
 - PORTION 3.6
 - PORTION 3.7
 - PORTION 3.8
 - PORTION 3.9



10m WIDE COMMON ACCESS TO BE MAINTAINED BY CONTRACT NO. HY/2010/02

10m WIDE COMMON ACCESS TO BE CONSTRUCTED AND INITIALLY MAINTAINED BY CONTRACT NO. HY/2013/01. UPON COMMENCEMENT OF CONTRACT NO. HY/2013/03, THE MAINTENANCE RESPONSIBILITY SHALL BE TRANSFERRED FROM CONTRACT NO. HY/2013/01 TO CONTRACT NO. HY/2013/03.

REV. 01	WORKING DRAWING	DATE	JUN. 14
REV. 02	TENDER DRAWING	DATE	SEP. 13

路政署 HIGHWAYS DEPARTMENT
港珠澳大桥香港工程管理局
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA3

AECOM Aedas
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

DRG.NO. 60191048/C1/000/C00/1042A
圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. DIR. 批准人	APPROVED 日期
BWCW	HY/2013/01	TKH	WT
DRAWN BY 繪圖	STATUS 階段	WORKING DRAWING	
WSY	A1 1 : 1000		
SCALE 比例	DIMENSIONS ARE IN METRES		
COPYRIGHT RESERVED 版權所 有			

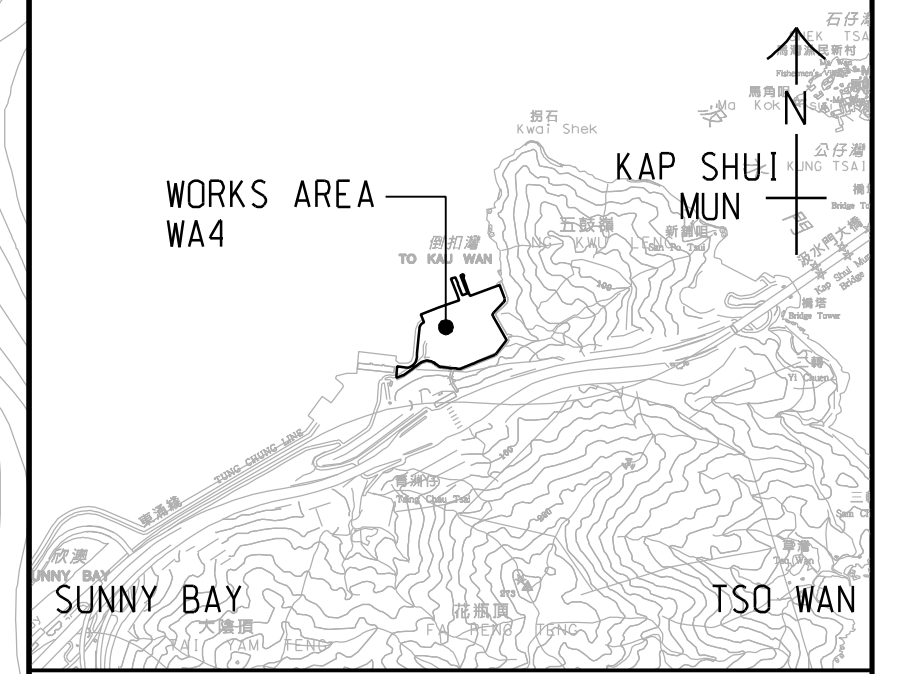
SETTING OUT POINT

POINT	EASTING	NORTHING
401	822488.151	822632.315
402	822640.593	822689.415
403	822515.608	822559.848
404	822610.940	822599.642
405	822629.428	822607.359
406	822526.988	822529.813
407	822618.348	822567.950
408	822542.232	822489.581
409	822584.983	822507.426
410	822606.866	822516.561
411	822560.278	822441.956
412	822602.949	822460.010
413	822621.914	822467.959
414	822624.130	822470.998
415	822651.725	822508.856

822400 E

822600 E

TO KAU WAN



LOCATION PLAN
SCALE 1 : 25000

NOTES:

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

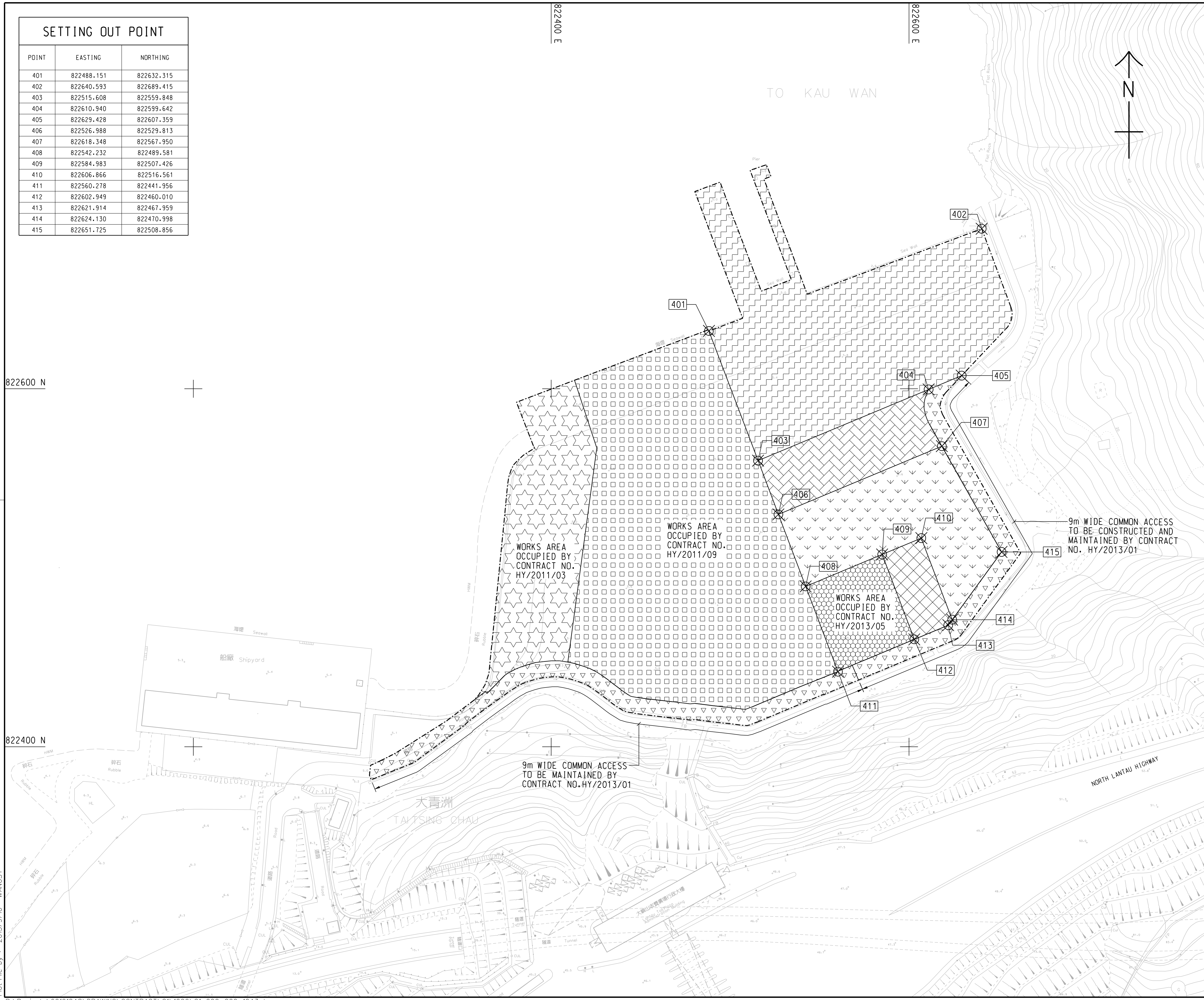
LEGEND:

- WORKS AREA BOUNDARY
- [Pattern 1] PORTION 4.1
- [Pattern 2] PORTION 4.2
- [Pattern 3] PORTION 4.3
- [Pattern 4] PORTION 4.4
- [Pattern 5] PORTION 4.5
- [Pattern 6] PORTION 4.6
- [Pattern 7] PORTION 4.7
- [Pattern 8] PORTION 4.8

822600 N

822400 N

Plot File by : 2013/9/10 WANGSY



REV.	DESCRIPTION	DATE
1	TENDER DRAWING	SEP.13

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

HONG KONG-ZHUHAI-MACAO BRIDGE
 HONG KONG BOUNDARY CROSSING FACILITIES
 - PASSENGER CLEARANCE BUILDING

WORKS AREA WA4

AECOM Aedas
 Rogers Stirk Harbour + Partners
 BURO HAPPOLD ATKINS ADI

DRG.NO. 60191048/C1/000/C00/1043
 圖紙編號

DESIGNED BY BWCW CONTRACT NO. HY/2013/01 P. Dir. APPROVED EMSC

DRAWN BY WSY STATUS 補放

SCALE 1:1000 DIMENSIONS ARE IN METRES

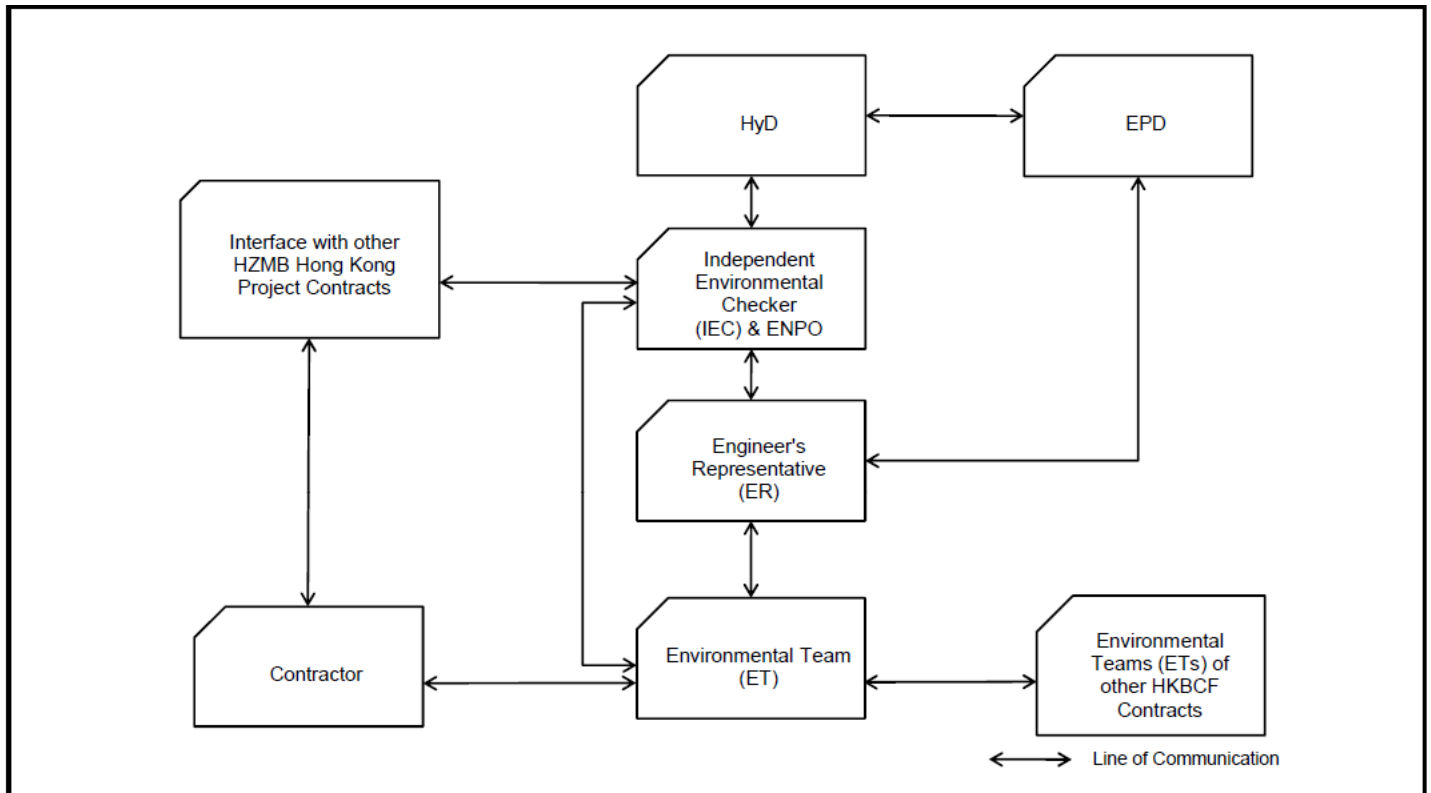
© COPYRIGHT RESERVED



APPENDIX B

Project Organization for Environmental Works

Project Organisation for Environmental Works





路政署
HIGHWAYS DEPARTMENT

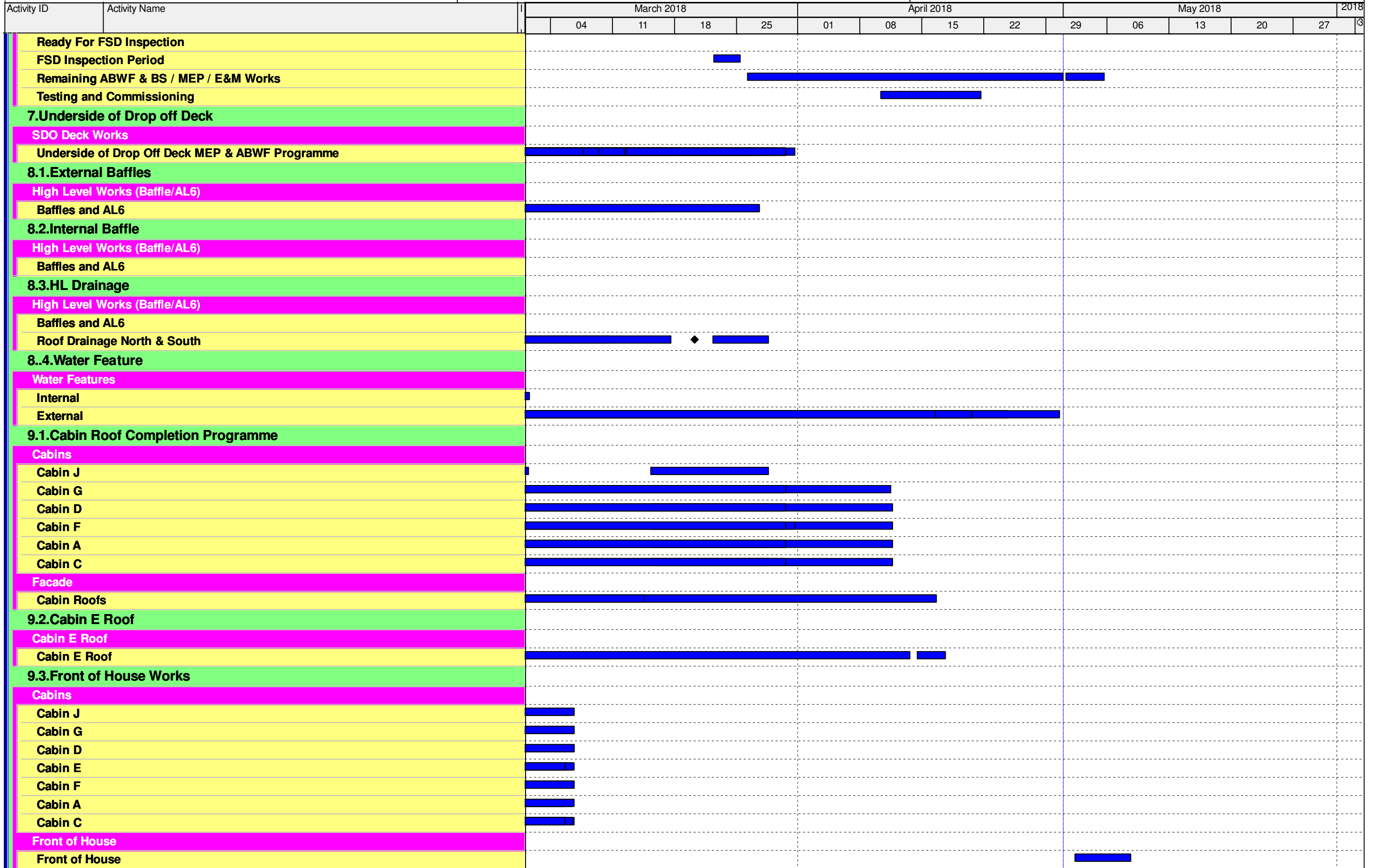
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX C

Construction Programme

Activity ID	Activity Name	March 2018				April 2018				May 2018				2018	
		04	11	18	25	01	08	15	22	29	06	13	20	27	31
Target Programme to Completion Update DD 1st May															
0.Fire Service Inspections															
Fire Service Inspections															
Fire Service Inspections															
FSD1000	Complete FS defects from 1st Inspection														
FSD1010	FS taskforce inspections														
FSD1020	Additional works - AVAS systems														
FSD1030	Additional works - BSMT AHU Room Detectors														
FSD1035	Additional works - Probe detetors (AHU Plantroom)														
FSD1040	Final FS rehearsal tests/make ready for FS re inspection														
FSD1050	Request FS re-inspecton (excluding EVA + SFH)														
FSD1055	FS Review Period														
FSD1060	FS reinspection(s) (excluding EVA+SFH)														
FSD1071	FS reinspection for EVA+SFH														
FSD1072	EVA & SFH completion including FS Inspection														
FSD1072a	FS Review														
FSD1080	FS Issue fire certification														
FSD1090	TPIDC/AP/RSE Inspection														
FSD1100	OP Obtained														
FSD1110	Complete o/s items during Maintenance Period														
1.External Works															
External Staircases															
External Works															
PCB - East															
PCB - West															
PCB - North (Under Row 5)															
PCB - Site entrance area and northern end (North West)															
Guard Booths															
2.External Toilets															
Public Toilets															
RC Structures															
ABWF Works															
MEP															
Roof															
3.Covered Walkway															
Covered Walkway															
South															
North															
4.Vertical Circulation															
Vertical Circulation															
Eastern Vertical Circulation															
Western Vertical Circulation															
5.Smoke Vent and Delivery Hatch															
Smoke Vent and Delivery Hatch															
6.Refuse Collection Point															
Refuse Collection Building															



■ Remaining Level of Effort
 ■ Remaining Work
 ◆ Milestone
 ■ Actual Work
 ■ Critical Remaining Work

Activity ID	Activity Name	March 2018				April 2018				May 2018				2018	
		04	11	18	25	01	08	15	22	29	06	13	20	27	31
Kiosks & Booths		[Gantt bars]													
Red & Green Channels		[Gantt bars]													
A26132	Red & Green Channel - Building Steel / Glazing	[Gantt bar]													
A26133	Red & Green Channel - Critical Room - ABWF	[Gantt bar]													
A26134	Red & Green Channel - Other Room - MEP	[Gantt bar]													
A26135	Red & Green Channel - Other Room - ABWF	[Gantt bar]													
A26136	Red & Green Channel - Critical Room - MEP	[Gantt bar]													
A26137	Red & Green Channel - Building Steel / Glazing	[Gantt bar]													
A26137a	Red & Green Channel - Hanging TV frames	[Gantt bar]													
A26138	Red & Green Channel - Critical Room - ABWF	[Gantt bar]													
A26139	Red & Green Channel - Critical Room - MEP	[Gantt bar]													
A26140	Red & Green Channel - Other Room - MEP	[Gantt bar]													
A26141	Red & Green Channel - Other Room - ABWF	[Gantt bar]													
10. Balustrade		[Gantt bars]													
Balustrade		[Gantt bars]													
Internal		[Gantt bars]													
Footbridges		[Gantt bars]													
11. Roof Works		[Gantt bars]													
High Level Works (Baffle/AL6)		[Gantt bars]													
Roof Cladding & Glazing		[Gantt bars]													
Southern Drop Off Deck		[Gantt bars]													
SDO Deck Works		[Gantt bars]													
EVA and Stage 1		[Gantt bar]													
Stage 2 (DOD North West)		[Gantt bar]													
Stage 3 (DOD South West)		[Gantt bar]													
Stage 4 (DOD East)		[Gantt bar]													
Movement Joint		[Gantt bars]													
Facade Programme		[Gantt bars]													
Facade		[Gantt bars]													
Genset Building		[Gantt bars]													
Sea Water Pump House		[Gantt bars]													
Testing and Commissioning		[Gantt bars]													
Electrical Systems		[Gantt bars]													
CLP Tx Power & LV Sub-mains Power-On		[Gantt bars]													
EL1000	C3 handover for Remaining External Cable Duct Routes	[Gantt bar]													
EL1010	Complete Balance of Submains Cabling to External Areas incl C2 & C3 areas	[Gantt bar]													
EL1020	Progressively Energise Outgoing Circuits from LV switchboards - External Areas incl C2&C3	[Gantt bar]													
EL1030	LV Switchboards - Final Interfacing T&C with SCADA system	[Gantt bar]													
Electrical Sub-mains Installation & Final Distribution		[Gantt bars]													
EL1040	Complete Installation CBS Lighting Control for Emergency FS Lighting (26 no. sets):	[Gantt bar]													
EL1050	Final T&C: CBS Lighting Control fo FS Related Lighting Installations	[Gantt bar]													
EL1060	SCADA Interfacing with CBS and Final T&C	[Gantt bar]													
Lighting and Small Power		[Gantt bars]													
EL1070	Non-FS: Lighting & Small Power Final Circuit Testing / Progressive Switch Lights On	[Gantt bar]													
EL1080	Non-FS : Lighting & Small Power - Final Lighting Control T&C and Lux Level Checks	[Gantt bar]													
EL1090	Non-FS: Lighting & Small Power Final Circuit Testing / Progressive Switch Lights On	[Gantt bar]													
EL1100	Non-FS : Lighting & Small Power - Final Lighting Control T&C and Lux Level Checks	[Gantt bar]													

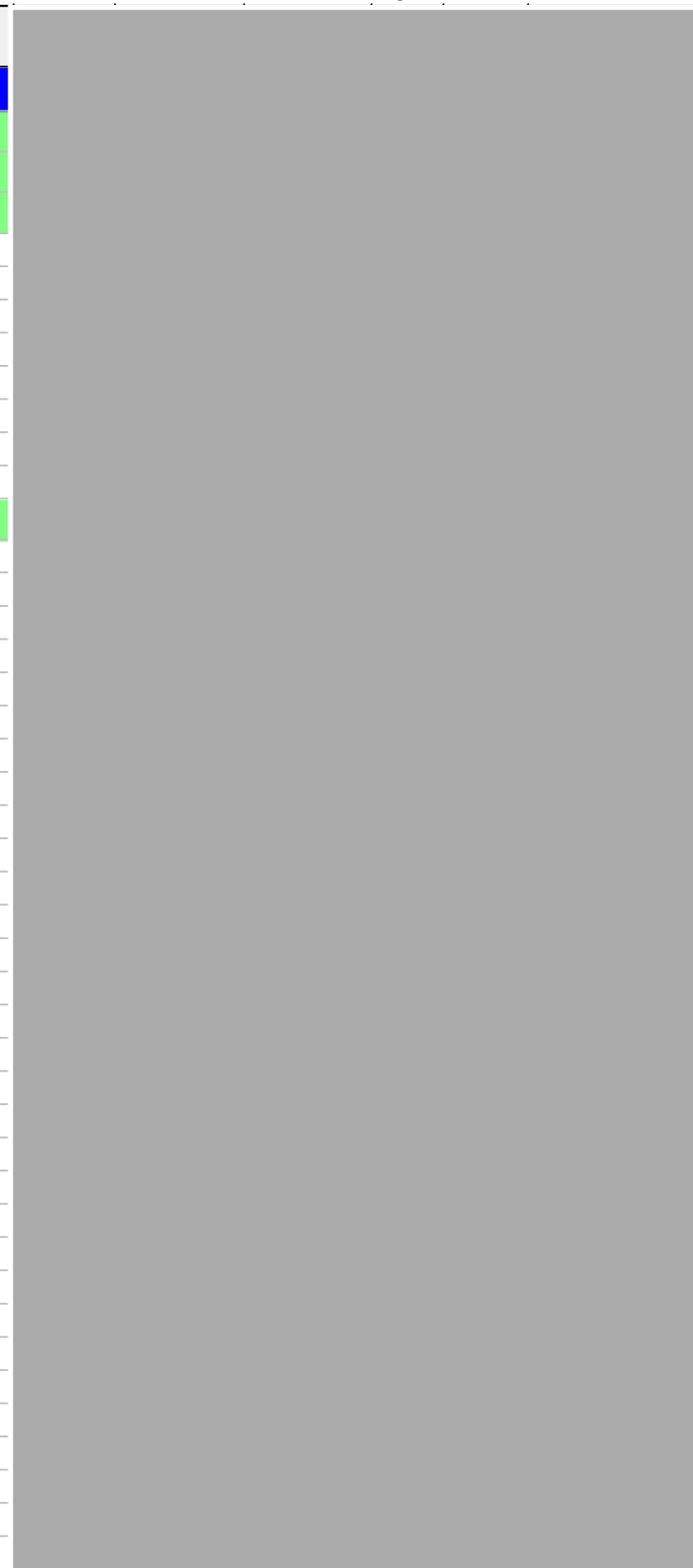
█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Actual Work
 █ Critical Remaining Work

Activity ID	Activity Name	March 2018				April 2018				May 2018				2018	
		04	11	18	25	01	08	15	22	29	06	13	20	27	31
EL1110	Non-FS: Lighting & Small Power Final Circuit Testing / Progressive Switch Lights On	[Actual Work]													
EL1120	Non-FS : Lighting & Small Power - Final Lighting Control T&C and Lux Level Checks														
EL1130	Non-FS: Lighting & Small Power Final Circuit Testing / Progressive Switch Lights On	[Actual Work]													
EL1140	Non-FS : Lighting & Small Power - Final Lighting Control T&C and Lux Level Checks														
UPS Systems - Final T&C:															
EL1150	Full Load Test and Functional T&C														
EL1160	Interfacing with SCADA														
Emergency Generator & Associated Diesel Fuel Supply systems															
EL1170	Fire Service Generators (Zone C & G) Final T&C and Interfacing with SCADA														
EL1180	Fire Service Generators (Zone A, D & J) Final T&C and Interfacing with SCADA														
EL1190	Emergency Generators (3no at EGB) Final T&C and Interfacing with SCADA														
Other "Misc" Electrical Systems															
EL1200	Earthing System - Final T&C														
EL1210	Lightning Protection System - Final T&C														
EL1220	SCADA System Interfacing with LV Sw Board and PQM Energy Mgt system														
MVAC Systems															
Chiller Plant & Associated Chilled & Heating Water Distribution															
MV1000	Stage 1 T&C for Chilled Water Circuit to enable Conditioned Wild Air														
MV1010	Progressive Energise Chiller Plant MCC's														
MV1020	Chilled Water - Primary & Secondary Water Circuit Flushing & Chemical Cleaning														
MV1020a	Chilled Water - Primary & Secondary Water Circuit Flushing & Chemical Cleaning - remaining														
MV1030	Chiller Primary Water Circuit By-pass Loops Re-instatement following flushing														
MV1040	Chiller Secondary Water Circuit By-pass Loops at AHU's and Hx Re-instatement														
MV1050	Chilled Water Pumps - Functional and Performance Tests														
MV1050a	Chilled Water Pumps - Functional and Performance Tests - Remaining														
MV1060	Chilled Water System - Ancilliary Equipment T&C														
MV1060a	Chilled Water System - Ancilliary Equipment T&C - Remaining														
MV1070	Chiller 1 & 2 Initial start-up checks (with Chiller supplier)														
MV1080	Chiller 3 to 8 Initial start-up checks (with Chiller supplier)														
MV1090	Light Chiller 1 to 3 Initial start-up checks (with Chiller supplier)														
MV1100	Condensor Seawater Supply Available														
MV1110	Target Chillers 1 & 2 Chillers Available and Chilled Water ON (In Manual Mode)														
MV1120	Target ALL Chillers Available (In Manual Mode)														
MV1130	Chilled Water - Secondary Water Circuit Flushing & Chemical Cleaning - CUE														
MV1140	Chiller Secondary Water Circuit Remove By-pass Loops - CUE														
MV1620	Chilled Water Riser Branches local flushing														
MV1630	CHW Riser chemical treatment and cleaning														
MV1640	Complete balance CW,HW pwk - Flushing , Chem Clean and Final Balance														
Chilled Water and Sea Water System SCADA T&C															
MV1150	Progressive Power On to SCADA PLC Panels														
MV1160	SWPH & Chiller Plant - End to End SCADA Wiring - Point Testing from PLC to Field Equipm														
MV1170	SWPH & Ciller Plant - SCADA Functional Testing														
MV1180	Chiller Plant & SWP - SCADA Chiller Start-up/Shut Down Programme Checking														
MV1190	Chiller & SWP Plant - SCADA Integrated Equipment Tests														
MV1200	Chiller & SWP Plant - SCADA Operation of System in Full Auto Mode														
MV1210	Chiller & SWP Plant - SCADA "Fine Tune" System Settings / Operation														
Heating Water Distribution - T&C															
MV1220	Heating Water Pumps - T&C / Pump Alignment														
MV1230	Primary & Secondary Heating Water Pipe Flushing and Chemical Cleaning														
MV1240	Stage 1 Water Balancing - Main Pipework Basement level and up to G/F Riser														

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
█ Critical Remaining Work

Activity ID	Activity Name	March 2018				April 2018				May 2018				2018	
		04	11	18	25	01	08	15	22	29	06	13	20	27	31
MV1250	Complete balance HTG Pwk - Flushing, Chem. Clean and Final Balance														
Heat Pumps - Initial start-up SAT checks & SCADA T&C															
MV1260	Heat Pump 1 to 4 Initial start-up checks (with Chiller supplier)														
MV1270	Progressive Power On to SCADA PLC Panels														
MV1280	Heat Pump - End to End SCADA Wiring - Point Testing from PLC to Field Eq.														
MV1290	Heat Pump System - SCADA Functional Testing														
MV1300	Heat Pump - SCADA Heat PumpStart-up/Shut Down Programme Checking														
MV1310	Heat Pump system- SCADA Integrated Equipment Tests														
MV1320	Heat Pump - SCADA Operation of System in Full Auto Mode														
AHU, Fans & Associated Distribution (including VAV, FCU, etc) B/F															
MV1340	FCU Installations at LV Switch Rooms and Elect/ELV Rooms														
MV1350	Misc Ventilation Systems (various areas)														
All Cabins (G/F to Roof) - incls AHU+Duct Riser+ VAV(if applicable)+ Final Air Grille															
MV1360	BOH Cabin AHU - Chilled water Available - Initial AHU Start-up T&C														
MV1370	BOH Cabin AHU & Main Distribution Ducts - Initial System Air Balance for conditioned "Wild A														
MV1380	Target ALL Cabin AHU's Operational - providing conditioned "Wild Air" to Cabins														
MV1390	Cabins VAV Box -Progressive Power On for VAV Box & SCADA network														
MV1400	BOH Cabin AHU - Complete Final Airside Balancing for Main Duct Runs and at VAV boxes														
MV1410	BOH Cabins AHU & VAV -Final SCADA Interfacing & Control for Air-side Equipment														
MV1420	BOH Cabin AHU & VAV - Put SCADA in Auto / "Fine Tune" System Settings / Operation														
MV1430	BOH cabins : FCU Installations at BOH Elect/ELV Rooms														
MV1440	CRAC System for Critical Rooms (Split Refrig. & Waterside Units) incl SCADA Interfacing														
MV1450	BOH Cabins : Misc Ventilation Systems (various areas)														
G/F FOH Concourse - incls AHU+Duct Riser+ Drum Louvre /Final Air Grille															
MV1460	FOH AHU - Chilled Water Available - Initial AHU Start-up T&C														
MV1470	FOH AHU & Main Distribution Ducts - Initial System Air Balance for "Wild Air"														
MV1480	Target 50% of FOH AHU's Operational - providing conditioned "Wild Air" to FOH														
MV1490	Target 100% of FOH AHU's Operational - providing conditioned "Wild Air" to FOH														
MV1500	FOH AHU, Distribution Duct & Drum Louvre - Final Airside Balancing for Main Duct Runs														
MV1510	FOH Areas: AHU - Final SCADA Interfacing & Control for Air-side Equipment														
MV1520	FOH Areas - Put AHU SCADA in Auto / "Fine Tune" System Settings / Operation														
MV1530	R&G Channel, Kiosks and Retail: MVAC Installations T&C														
1/F FOH Concourse - incls AHU+Duct Riser+ VAV(if applicable)+ Final Air Grille															
MV1540	FOH AHU - Chilled Water Available - Initial AHU Start-up T&C														
MV1550	FOH AHU & Main Distribution Ducts - Initial System Air Balance for "Wild Air"														
MV1560	Target 50% of FOH AHU's Operational - providing conditioned "Wild Air" to FOH														
MV1570	Target 100% of FOH AHU's Operational - providing conditioned "Wild Air" to FOH														
MV1580	FOH AHU, Distribution Duct & Drum Louvre - Final Airside Balancing for Main Duct Runs														
MV1590	FOH Areas: AHU - Final SCADA Interfacing & Control for Air-side Equipment														
MV1600	FOH Areas - Put AHU SCADA in Auto / "Fine Tune" System Settings / Operation														
MV1610	R&G Channel, Kiosks and Retail: MVAC Installations T&C														

Activity ID	Activity Name
Hong Kong-Zhuhai_Macao Bridge Hong Kong Boundary Crossing F	
Key Dates	
Interface Activities	
Site and Facility Inspection	
JS1200	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2
JS1210	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2
JS1620	Pre Site and Facility Inspection by Contractor at Location 14 - Deg2
JS1630	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg2
JS1760	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1
JS1770	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1
JS1780	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2
JS1790	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2
Access Dates	
AD1000	Location 1(PCB (001) Basement)-Deg1 (270d)
AD1010	Location 1(PCB (001) Basement)-Deg2 (380d)
AD1020	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d)
AD1030	Location 1(PCB (001) ELV Room (Grid Line E3))-Deg2 (380d)
AD1040	Location 2(PCB (001) First Floor Main Server Room)-Deg1 (330d)
AD1050	Location 2(PCB (001) First Floor Main Server Room)-Deg2 (380d)
AD1060	Location 2(PCB (001) First Floor Main Server Room) - For Server Installation - Deg2 (380d)
AD1070	Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)
AD1080	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg1 (330d)
AD1090	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg2 (380d)
AD1130	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)
AD1150	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,14)
AD1170	Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)-Deg2 (480d)
AD1190	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room)-Deg2 (480d)
AD1200	Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room) - For Server installation - Deg2 (480d)
AD1220	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)
AD1240	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)
AD1270	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)
AD1290	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)
AD1300	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)
AD1310	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)
AD1320	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)
AD1330	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)
AD1340	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)
AD1350	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)
AD1360	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)
AD1370	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)
AD1501	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d) Phase 2
AD1510	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 1
AD1511	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 2
AD1521	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d) Phase 2



2015			2016				2017				2018				2019		
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
22-Oct-17, Hong Kong-Zhuhai_Macao Bridge																	
23-Jun-17, Site and Facility Inspection:																	
Pre Site and Facility Inspection by Contractor at Location 4 - Deg2																	
Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2																	
Pre Site and Facility Inspection by Contractor at Location 14 - Deg2																	
Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg2																	
Pre Site and Facility Inspection by Contractor at Location 18 - Deg1																	
Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1																	
Pre Site and Facility Inspection by Contractor at Location 18 - Deg2																	
Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2																	
24-Aug-17, Access Dates																	
Location 1(PCB (001) Basement)-Deg1 (270d), 31-May-17																	
Location 1(PCB (001) Basement)-Deg2 (380d), 15-Jun-17																	
Location 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d), 31-May-17																	
Location 1(PCB (001) ELV Room (Grid Line E3))-Deg2 (380d), 15-Jun-17																	
Location 2(PCB (001) First Floor Main Server Room)-Deg1 (330d), 31-May-17																	
Location 2(PCB (001) First Floor Main Server Room)-Deg2 (380d), 15-Jun-17																	
Location 2(PCB (001) First Floor Main Server Room) - For Server Installation - Deg2 (380d), 15-Jun-17																	
Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d), 31-May-17																	
Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg1 (330d), 31-May-17																	
Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg2 (380d), 15-Jun-17																	
Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d), 15-Jun-17																	
Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,14), 15-Jun-17																	
Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)-Deg2 (480d), 15-Jun-17																	
Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room)-Deg2 (480d), 15-Jun-17																	
Location 3a(Inbd Cargo Exam Bldg (037) Main Server Room) - For Server installation - Deg2 (480d), 15-Jun-17																	
Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d), 15-Jun-17																	
Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d), 15-Jun-17																	
Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d), 15-Jun-17																	
Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d), 15-Jun-17																	
Location 8(Inbd Private Car Annex (025))-Deg1 (430d), 15-Jun-17																	
Location 8(Inbd Private Car Annex (025))-Deg2 (580d), 15-Jun-17																	
Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d), 15-Jun-17																	
Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d), 15-Jun-17																	
Location 9(Outbd Private Car Annex (032))-Deg1 (520d), 15-Jun-17																	
Location 9(Outbd Private Car Annex (032))-Deg2 (660d), 15-Jun-17																	
Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d), 15-Jun-17																	
Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d), 15-Jun-17																	
Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d) Phase 2, 15-Jun-17																	
Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 1, 15-Jun-17																	
Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d) Phase 2, 15-Jun-17																	
Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d) Phase 2, 15-Jun-17																	

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

- Actual Level of Effort
- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone
- Milestone

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev.: 0	WC	LC
10-Mar-17	Rev.: 1.0a	WC	LC
5-May-17	Rev.: 1.0b	WC	LC

Activity ID	Activity Name	2015												2016				2017				2018				2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q1	Q2	Q3						
	Detailed Design Specification																											
	Construction Design and Management																											
	Supply/Manufacture Mock-up items																											
	Supply/Manufacture prototypes																											
	Software Design, Coding and Testing																											
	Coding																											
	Software System Inetgration																											
	Prototype & Software Simulation Tests																											
	Procurement - Phase 1 / Section I																											
	Supply/Manufacture products for FAT																											
	Factory Acceptance Test (FAT)																											
	Supply/Manufacture Equipment																											
	Delivery and Bench Acceptance Test for Phase 1/ Section I																											
	Installation - Phase 1 / Section I																											
	Location 1(PCB (001) Basement)																											
	EM1920 L1(001)B/F - Cable Laying and termination at Location 1 and Location 2																											
	Location 1(PCB (001) ELV Room (Grid Line E3))																											
	EM1940 L1(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2																											
	Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))																											
	EM1960 L2(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2																											
	Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5))																											
	EM1080 L2(001)Heath Ctrl Rm - Cable Laying and termination at Location 1 and Location 2																											
	EM1100 L2(001)Heath Ctrl Rm - Cable Splicing and Testing and Labeling																											
	EM1120 L2(001)Health Ctrl Rm - Intercom and PA system Installation																											
	EM1140 L2(001)Heath Ctrl Rm - Intercom and PA system tuning																											
	Location 2(PCB (001) First Floor Main Server Room)																											
	EM1000 L2(001)Main Server Rm - Cable Laying and termination at Location 1 and Location 2																											
	EM1020 L2(001)Main Server Rm - Cable Splicing and Testing and Labeling																											
	EM1040 L2(001)Main Server Rm - AVCSS Network and Server Installation																											
	EM1060 L2(001)Main Server Rm - AVCSS Network and Server Tuning																											
	Location 3(Inbd Cargo Exam Bldg (037) MDF Room)																											
	Location 3(Inbd Cargo Exam Bldg (037) ELV Room)																											
	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,141)																											
	EM2020 L3(037)Inspec Offices - Cable Laying and termination in Location 3 and Location 3a																											
	EM2040 L3(037)Inspec Offices - Cable Splicing and Testing and Labeling																											
	EM2060 L3(037)Inspec Offices - AVCSS SURCON WS and 55" LCD Installation																											
	EM2080 L3(037)Inspec Offices - VTS WS Installation																											
	EM2100 L3(037)Inspec Offices - SURCON and WS Tuning																											
	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)																											
	EM1160 L3(037)PLF Ctrl Rm - Cable Laying and termination in Location 3 and Location 3a																											
	EM1180 L3(037)PLF Ctrl Rm - Cable Splicing and Testing and Labeling																											
	EM1200 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55" TV Wall Installation																											
	EM1220 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning																											

01-Sep-17, Installation - Phase 1 / Section I
 22-Jun-17, Location:1(PCB (001),Basement)
 L1(001)B/F - Cable Laying and termination at Location
 22-Jun-17, Location:1(PCB (001),ELV Room (Grid Line
 L1(001)ELV Rm - Cable Laying and termination at Loca
 22-Jun-17, Location:2(PCB (001),Ground Floor ELV R
 L2(001)ELV Rm - Cable Laying and termination at Loca
 18-Aug-17, Location:2(PCB (001),Ground Floor DO
 L2(001)Heath Ctrl Rm - Cable Laying and termination
 L2(001)Heath Ctrl Rm - Cable Splicing and Testing and
 L2(001)Health Ctrl Rm - Intercom and PA system In
 L2(001)Health Ctrl Rm - Intercom and PA system tu
 21-Aug-17, Location:2(PCB (001) First Floor Main
 L2(001)Main Server Rm - Cable Laying and terminatio
 L2(001)Main Server Rm - Cable Splicing and Testing
 L2(001)Main Server Rm - AVCSS Network and Ser
 L2(001)Main Server Rm - AVCSS Network and Se
 07-Aug-17, Location 3(Inbd Cargo Exam Bldg (037
 L3(037)Inspec Offices - Cable Laying and termination i
 L3(037)Inspec Offices - Cable Splicing and Testing and
 L3(037)Inspec Offices - AVCSS SURCON WS and 5
 L3(037)Inspec Offices - VTS WS Installation
 L3(037)Inspec Offices - SURCON and WS Tuning
 07-Aug-17, Location 3(Inbd Cargo Exam Bldg (037
 L3(037)PLF Ctrl Rm - Cable Laying and termination in
 L3(037)PLF Ctrl Rm - Cable Splicing and Testing and
 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55
 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning

Programme No.: HZMB-DWP Data Date: 14-Aug-15		Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)	Date	Revision	Checked	Approved
			14-Nov-16	Rev.: 0	WC	LC
			10-Mar-17	Rev.: 1.0a	WC	LC
			5-May-17	Rev.: 1.0b	WC	LC

Activity ID	Activity Name	2015			2016				2017				2018				2019			
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
EM1700	L12(028)(5nos P1) - AIOP Installation (5 nos)																			
EM1720	L12(028)(5nos P1) - Loop installation (25 nos)																			
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																				
EM1740	L12(029)(5nos P1) - Cable Containment in Kiosks																			
EM1760	L12(029)(5nos P1) - Cable Laying and termination																			
EM1780	L12(029)(5nos P1) - Cable Splicing and Testing and Labeling																			
EM1800	L12(029)(5nos P1) - AVCSS/MOM Kiosk Equipment Installation (5 nos)																			
EM1821	L12(029)(5nos P1) - XDB installation (5 nos)																			
EM1822	L12(029)(5nos P1) - ODB installation (4 nos)																			
EM1823	L12(029)(5nos P1) - ODB installation (1 nos)																			
EM1840	L12(029)(5nos P1) - AIOP Installation (5 nos)																			
Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)																				
EM2520	L13(030)(9nos P1) - Cable Containment in Kiosks																			
EM2540	L13(030)(9nos P1) - Cable Laying and termination																			
EM2560	L13(030)(9nos P1) - Cable Splicing and Testing and Labeling																			
EM2580	L13(030)(9nos P1) - AVCSS/MOM Kiosk Equipment Installation (9 nos)																			
EM2601	L13(030)(9nos P1) - XDB installation (9 nos)																			
EM2602	L13(030)(9nos P1) - ODB installation (7 nos)																			
Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos																				
EM1440	L14 - Cable Laying and termination at ELV Room in CUE																			
Location 15(Inbd Traffic Control Kiosk (100))																				
Location 16(Outbd Traffic Control Kiosk (101))																				
EM2760	L16(101) - Cable Laying and termination																			
EM2780	L16(101) - Cable Splicing and Testing and Labeling																			
EM2800	L16(101) - AVCSS SYSCON and SURCON Installation																			
EM2820	L16(101) - VTS WS and 55" LCD Installation																			
Location 17(Inbd Private Car Exam Bldg(033) Operational Office)																				
Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)																				
EM2940	L18(024) - Cable Laying and termination																			
EM2960	L18(024) - Cable Splicing and Testing and Labeling																			
EM2980	L18(024) - AVCSS SURCON and 55" LCD Installation																			
EM3000	L18(024) - SURCON Tuning																			
Location 19 (DOH Cargo Clearance Bldg(043))																				
EM1360	L19(043) - Cable Laying and termination																			
EM1380	L19(043) - Cable Splicing and Testing and Labeling																			
EM1400	L19(043) - PA and Intercom Installation																			
EM1420	L19(043) - PA and Intercom Tuning																			
Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS																				
EM3020	Inbound VID cabling from pillar box to VID field equipment																			
EM3040	Inbound VTS cabling from pillar box to VTS field equipment																			
EM3060	Inbound TLS cabling from pillar box to TLS field equipment																			
EM3080	Inbound VID field equipment installation (8 VID)																			
EM3100	Inbound VTS field equipment installation (4 RFID + 3 Cameras)																			
EM3120	Inbound TLS field equipment installation (4 TLS)																			
EM3140	Inbound VID and VTS and TLS field equipment tuning																			

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

- Actual Level of Effort
- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- summary
- Baseline Milestone
- Milestone

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev.: 0	WC	LC
10-Mar-17	Rev.: 1.0a	WC	LC
5-May-17	Rev.: 1.0b	WC	LC


Activity ID	Activity Name	2015												2016				2017				2018				2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3									
Location 8(Inbd Private Car Annex (025)) (Phase 2)		30-Aug-17; Location 8(Inbd Private Car Annex (025))																										
EM3370	L8(025) - Cable Containment in Kiosks	L8(025) - Cable Containment in Kiosks																										
EM3380	L8(025) - Cable Laying and termination	L8(025) - Cable Laying and termination																										
EM3400	L8(025) - Cable Splicing and Testing and Labeling	L8(025) - Cable Splicing and Testing and Labeling																										
Location 9(Outbd Private Car Annex (032)) (Phase 2)		30-Aug-17; Location 9(Outbd Private Car Annex (032))																										
EM3500	L9(032) - Cable Containment in Kiosks	L9(032) - Cable Containment in Kiosks																										
EM3520	L9(032) - Cable Laying and termination	L9(032) - Cable Laying and termination																										
Initial On-Site Test and Commissioning / Pre-SAT (Phase 2 / Section II)																												
Site Acceptance Test (Phase 2 / Section II)																												
Operability Period Test (Phase 2 / Section II)																												
Completion (Phase 2 / Section II)																												
Engineering Support for Phase 2 / Section II																												
Procurement for Phase2 / Section III																												
Delivery and Bench Acceptance Test for Phase2 / Section III																												
Installation - Phase 2 / Section III		09-Oct-17; Installation - Phase 2/ Section III																										
Location 10,11,12,13 (Vehicle Clearance Kiosks)		09-Oct-17; Location 10,11,12,13 (Vehicle Clearance Kiosks)																										
Location 12 Inbd Private Car Kiosks (027) - 12 nos (Phase 2)		09-Oct-17; Location 12 Inbd Private Car Kiosks																										
EM4440	L12(027)(12nos P2) - Cable Laying and termination	L12(027)(12nos P2) - Cable Laying and termination																										
EM4460	L12(027)(12nos P2) - Cable Splicing and Testing and Labeling	L12(027)(12nos P2) - Cable Splicing and Testing and Labeling																										
EM4480	L12(027)(12nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)	L12(027)(12nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																										
Location 13 Outbd Private Car Kiosks (030) - 12 nos (Phase 2)		01-Sep-17; Location 13 Outbd Private Car Kiosks																										
EM4560	L13(030)(12nos P2) - Cable Containment in Kiosks	L13(030)(12nos P2) - Cable Containment in Kiosks																										
Location 12 Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)		31-Aug-17; Location 12 Outbd Goods Vehicle Kiosks																										
EM4880	L12(029)(3nos P2) - Cable Laying and termination	L12(029)(3nos P2) - Cable Laying and termination																										
EM4900	L12(029)(3nos P2) - Cable Splicing and Testing and Labeling	L12(029)(3nos P2) - Cable Splicing and Testing and Labeling																										
EM4920	L12(029)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)	L12(029)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																										
EM4940	L12(029)(3nos P2) - ODB & XDB Installation (3 nos)	L12(029)(3nos P2) - ODB & XDB Installation (3 nos)																										
EM4960	L12(029)(3nos P2) - AIOP Installation (3 nos)	L12(029)(3nos P2) - AIOP Installation (3 nos)																										
EM4980	L12(029)(3nos P2) - Loop Installation (15 nos)	L12(029)(3nos P2) - Loop Installation (15 nos)																										
Location 11 Outbd Coach Kiosks (009) - 4 nos (Phase 2)																												
Location 12 Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)		24-Aug-17; Location 12 Inbd Goods Vehicle Kiosks																										
EM4720	L12(028)(3nos P2) - Cable Laying and termination	L12(028)(3nos P2) - Cable Laying and termination																										
EM4740	L12(028)(3nos P2) - Cable Splicing and Testing and Labeling	L12(028)(3nos P2) - Cable Splicing and Testing and Labeling																										
EM4760	L12(028)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)	L12(028)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																										
EM4780	L12(028)(3nos P2) - ODB & XDB Installation (3 nos)	L12(028)(3nos P2) - ODB & XDB Installation (3 nos)																										
EM4800	L12(028)(3nos P2) - AIOP Installation (3 nos)	L12(028)(3nos P2) - AIOP Installation (3 nos)																										
EM4820	L12(028)(3nos P2) - Loop Installation (15 nos)	L12(028)(3nos P2) - Loop Installation (15 nos)																										
EM4840	L12(028)(3nos P2) - Kiosk Equipment Configuration (3 nos)	L12(028)(3nos P2) - Kiosk Equipment Configuration (3 nos)																										
EM5120	L12(028)(3nos P2) - Inbd Goods Vehicle Kiosks Installation Complete	L12(028)(3nos P2) - Inbd Goods Vehicle Kiosks Installation Complete																										
Location 10 Shuttle Bus Kiosks (006) - 4 nos (Phase 2)		30-Aug-17; Location 10 Shuttle Bus Kiosks (006)																										
EM4000	L10(006)(4nos P2) - Cable Containment in Kiosks	L10(006)(4nos P2) - Cable Containment in Kiosks																										
Location 11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-1																												
Location 11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-2																												
Initial On-Site Test and Commissioning / Pre-SAT (Phase 2 / Section III)																												

Programme No.: HZMB-DWP
Data Date: 14-Aug-15








- Actual Level of Effort
- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone
- Milestone
- summary

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev.: 0	WC	LC
10-Mar-17	Rev.: 1.0a	WC	LC
5-May-17	Rev.: 1.0b	WC	LC

Activity ID	Activity Name	2015			2016				2017				2018				2019			
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
	<ul style="list-style-type: none">  Site Acceptance Test (Phase 2 / Section III)  Operability Period Test (Phase 2 / Section III)  Completion (Phase 2 / Section III)  Operation (Phase 2 / Section III)  Defect Liability Period (DLP)  Document Submission (Phase 2 / Section III) 																			

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

-  Actual Level of Effort
-  Primary Baseline
-  Actual Work
-  Remaining Work
-  Critical Remaining Work
-  Baseline Milestone
-  Milestone

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev.: 0	WC	LC
10-Mar-17	Rev.: 1.0a	WC	LC
5-May-17	Rev.: 1.0b	WC	LC



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX D

Monitoring Data and Graphical Plot
(Air Quality, Noise and water Quality)

Air Quality Monitoring Data

Project	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKBCF	2018-04-03	AMS2 Tung Chung Pier	12:57	1-hr TSP	61	µg/m ³
HKBCF	2018-04-03	AMS2 Tung Chung Pier	13:57	1-hr TSP	64	µg/m ³
HKBCF	2018-04-03	AMS2 Tung Chung Pier	14:57	1-hr TSP	62	µg/m ³
HKBCF	2018-04-09	AMS2 Tung Chung Pier	13:39	1-hr TSP	77	µg/m ³
HKBCF	2018-04-09	AMS2 Tung Chung Pier	14:39	1-hr TSP	74	µg/m ³
HKBCF	2018-04-09	AMS2 Tung Chung Pier	15:39	1-hr TSP	73	µg/m ³
HKBCF	2018-04-13	AMS2 Tung Chung Pier	12:55	1-hr TSP	28	µg/m ³
HKBCF	2018-04-13	AMS2 Tung Chung Pier	13:55	1-hr TSP	28	µg/m ³
HKBCF	2018-04-13	AMS2 Tung Chung Pier	14:55	1-hr TSP	28	µg/m ³
HKBCF	2018-04-19	AMS2 Tung Chung Pier	13:19	1-hr TSP	97	µg/m ³
HKBCF	2018-04-19	AMS2 Tung Chung Pier	14:19	1-hr TSP	99	µg/m ³
HKBCF	2018-04-19	AMS2 Tung Chung Pier	15:19	1-hr TSP	100	µg/m ³
HKBCF	2018-04-24	AMS2 Tung Chung Pier	13:01	1-hr TSP	78	µg/m ³
HKBCF	2018-04-24	AMS2 Tung Chung Pier	14:01	1-hr TSP	112	µg/m ³
HKBCF	2018-04-24	AMS2 Tung Chung Pier	15:01	1-hr TSP	116	µg/m ³
HKBCF	2018-04-30	AMS2 Tung Chung Pier	12:59	1-hr TSP	69	µg/m ³
HKBCF	2018-04-30	AMS2 Tung Chung Pier	13:59	1-hr TSP	59	µg/m ³
HKBCF	2018-04-30	AMS2 Tung Chung Pier	14:59	1-hr TSP	56	µg/m ³
HKBCF	2018-04-04	AMS2 Tung Chung Pier	16:00	24-hr TSP	44	µg/m ³
HKBCF	2018-04-10	AMS2 Tung Chung Pier	14:35	24-hr TSP	46	µg/m ³
HKBCF	2018-04-12	AMS2 Tung Chung Pier	16:32	24-hr TSP	23	µg/m ³
HKBCF	2018-04-18	AMS2 Tung Chung Pier	08:00	24-hr TSP	79	µg/m ³
HKBCF	2018-04-23	AMS2 Tung Chung Pier	15:36	24-hr TSP	33	µg/m ³
HKBCF	2018-04-27	AMS2 Tung Chung Pier	08:00	24-hr TSP	107	µg/m ³

Air Quality Monitoring Data

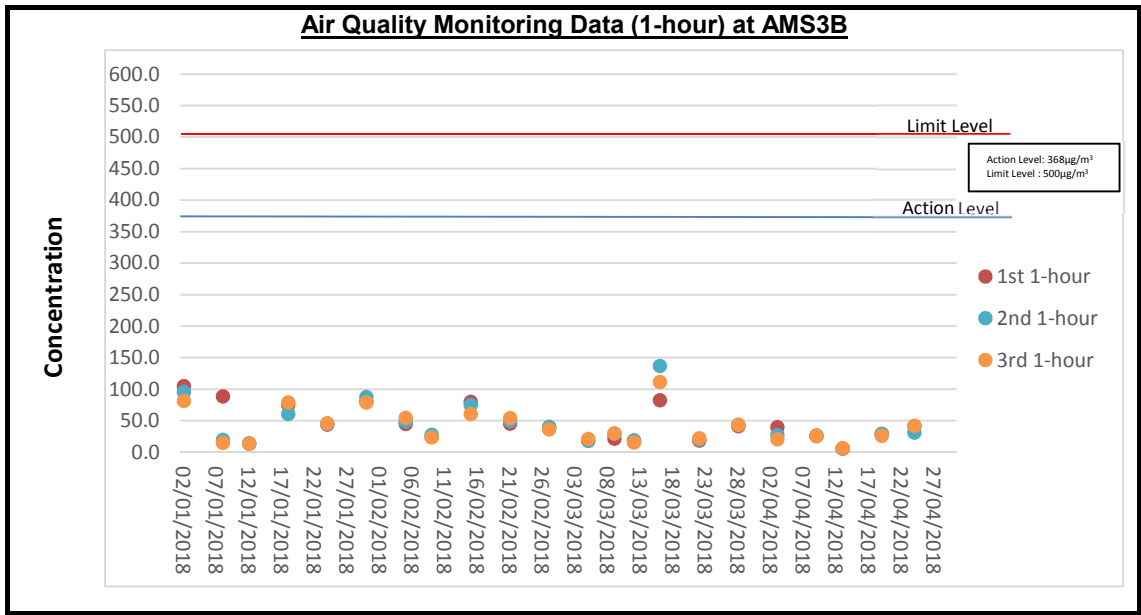
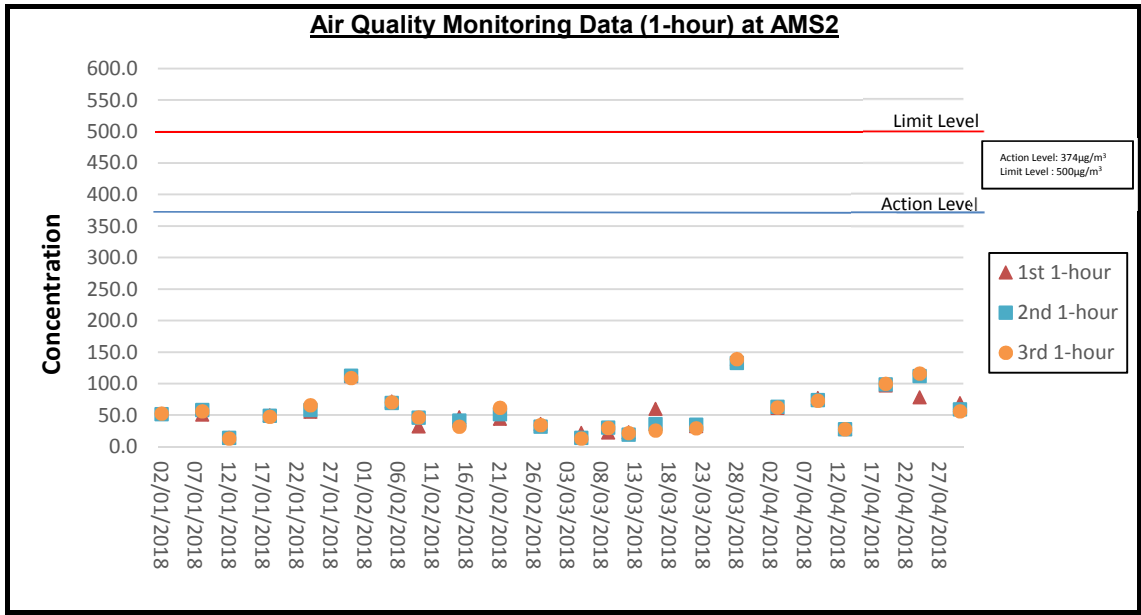
Project	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKBCF	2018-04-03	AMS3B Site Office	09:00	1-hr TSP	41	µg/m ³
HKBCF	2018-04-03	AMS3B Site Office	10:00	1-hr TSP	27	µg/m ³
HKBCF	2018-04-03	AMS3B Site Office	11:00	1-hr TSP	21	µg/m ³
HKBCF	2018-04-09	AMS3B Site Office	13:00	1-hr TSP	26	µg/m ³
HKBCF	2018-04-09	AMS3B Site Office	14:00	1-hr TSP	27	µg/m ³
HKBCF	2018-04-09	AMS3B Site Office	15:00	1-hr TSP	26	µg/m ³
HKBCF	2018-04-13	AMS3B Site Office	13:00	1-hr TSP	6	µg/m ³
HKBCF	2018-04-13	AMS3B Site Office	14:00	1-hr TSP	6	µg/m ³
HKBCF	2018-04-13	AMS3B Site Office	15:00	1-hr TSP	7	µg/m ³
HKBCF	2018-04-19	AMS3B Site Office	09:00	1-hr TSP	30	µg/m ³
HKBCF	2018-04-19	AMS3B Site Office	10:00	1-hr TSP	29	µg/m ³
HKBCF	2018-04-19	AMS3B Site Office	11:00	1-hr TSP	26	µg/m ³
HKBCF	2018-04-24	AMS3B Site Office	09:00	1-hr TSP	42	µg/m ³
HKBCF	2018-04-24	AMS3B Site Office	10:00	1-hr TSP	32	µg/m ³
HKBCF	2018-04-24	AMS3B Site Office	11:00	1-hr TSP	42	µg/m ³
HKBCF	2018-04-30	AMS3B Site Office	09:00	1-hr TSP	28	µg/m ³
HKBCF	2018-04-30	AMS3B Site Office	10:00	1-hr TSP	28	µg/m ³
HKBCF	2018-04-30	AMS3B Site Office	11:00	1-hr TSP	24	µg/m ³
HKBCF	2018-04-04	AMS3B Site Office	12:52	24-hr TSP	54	µg/m ³
HKBCF	2018-04-10	AMS3B Site Office	08:00	24-hr TSP	46	µg/m ³
HKBCF	2018-04-12	AMS3B Site Office	15:35	24-hr TSP	26	µg/m ³
HKBCF	2018-04-18	AMS3B Site Office	08:00	24-hr TSP	89	µg/m ³
HKBCF	2018-04-23	AMS3B Site Office	08:00	24-hr TSP	34	µg/m ³

Remark: Air quality monitoring on 27 April 2018 at AMS3B (Site Boundary of Site Office Area at Work Area WA2) was rescheduled to 4 May 2018 due to motor failure.

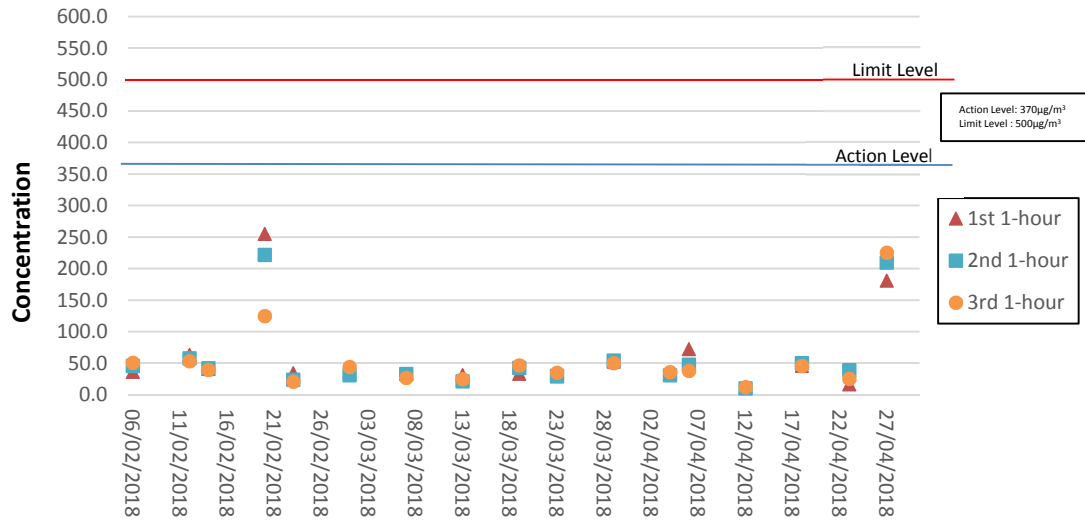
Air Quality Monitoring Data

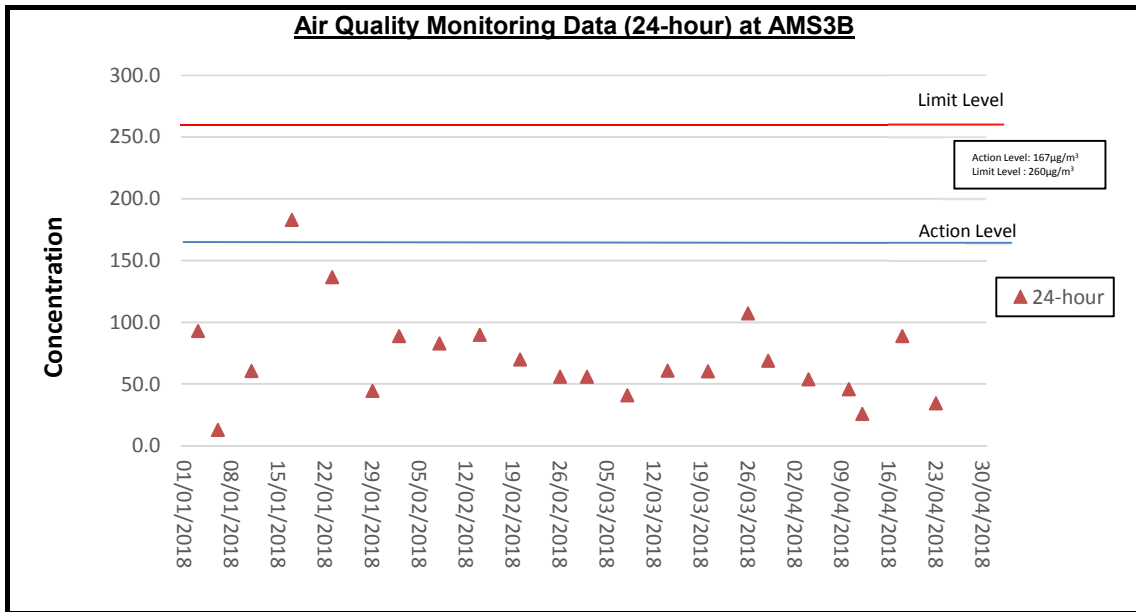
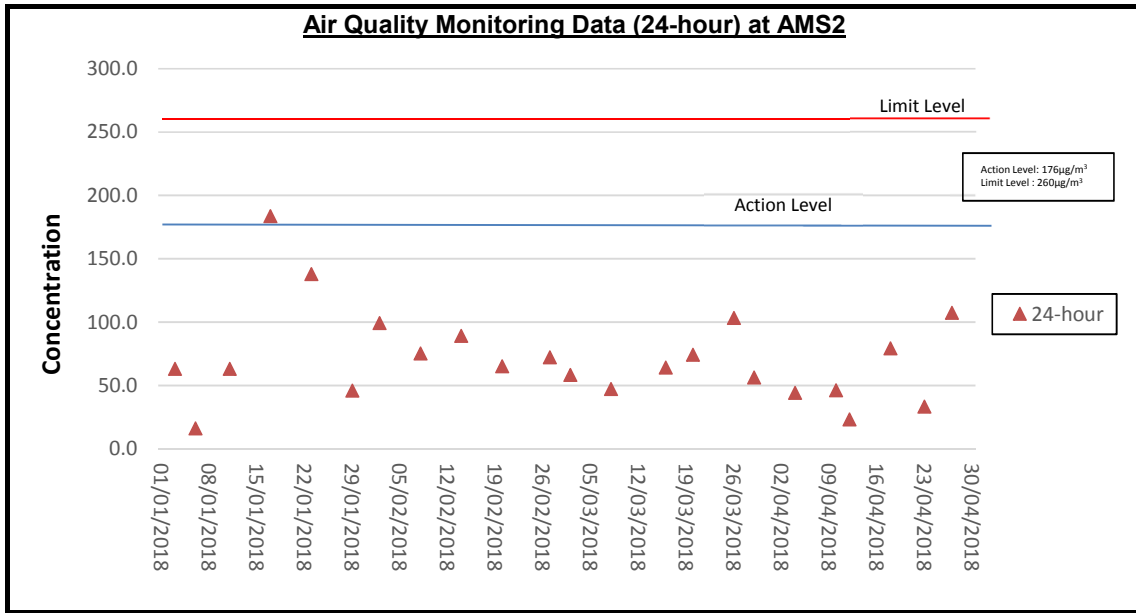
Project	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKBCF	2018-04-04	AMS7B 3RS Site Office	09:00	1-hr TSP	34	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-04	AMS7B 3RS Site Office	10:00	1-hr TSP	31	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-04	AMS7B 3RS Site Office	11:00	1-hr TSP	36	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-06	AMS7B 3RS Site Office	14:00	1-hr TSP	72	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-06	AMS7B 3RS Site Office	15:00	1-hr TSP	48	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-06	AMS7B 3RS Site Office	16:00	1-hr TSP	38	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-12	AMS7B 3RS Site Office	14:00	1-hr TSP	12	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-12	AMS7B 3RS Site Office	15:00	1-hr TSP	10	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-12	AMS7B 3RS Site Office	16:00	1-hr TSP	12	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-18	AMS7B 3RS Site Office	14:00	1-hr TSP	46	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-18	AMS7B 3RS Site Office	15:00	1-hr TSP	50	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-18	AMS7B 3RS Site Office	16:00	1-hr TSP	46	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-23	AMS7B 3RS Site Office	14:00	1-hr TSP	16	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-23	AMS7B 3RS Site Office	15:00	1-hr TSP	39	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-23	AMS7B 3RS Site Office	16:00	1-hr TSP	25	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-27	AMS7B 3RS Site Office	14:17	1-hr TSP	181	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-27	AMS7B 3RS Site Office	15:17	1-hr TSP	210	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-27	AMS7B 3RS Site Office	16:17	1-hr TSP	226	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-03	AMS7B 3RS Site Office	08:00	24-hr TSP	99	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-09	AMS7B 3RS Site Office	08:00	24-hr TSP	109	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-13	AMS7B 3RS Site Office	08:00	24-hr TSP	44	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-25	AMS7B 3RS Site Office	15:54	24-hr TSP	114	$\mu\text{g}/\text{m}^3$
HKBCF	2018-04-30	AMS7B 3RS Site Office	08:00	24-hr TSP	66	$\mu\text{g}/\text{m}^3$

Remark: Air quality monitoring on 19 April 2018 at AMS7B (3RS Site Office) was rescheduled to 25 April 2018 due to power supply failure.

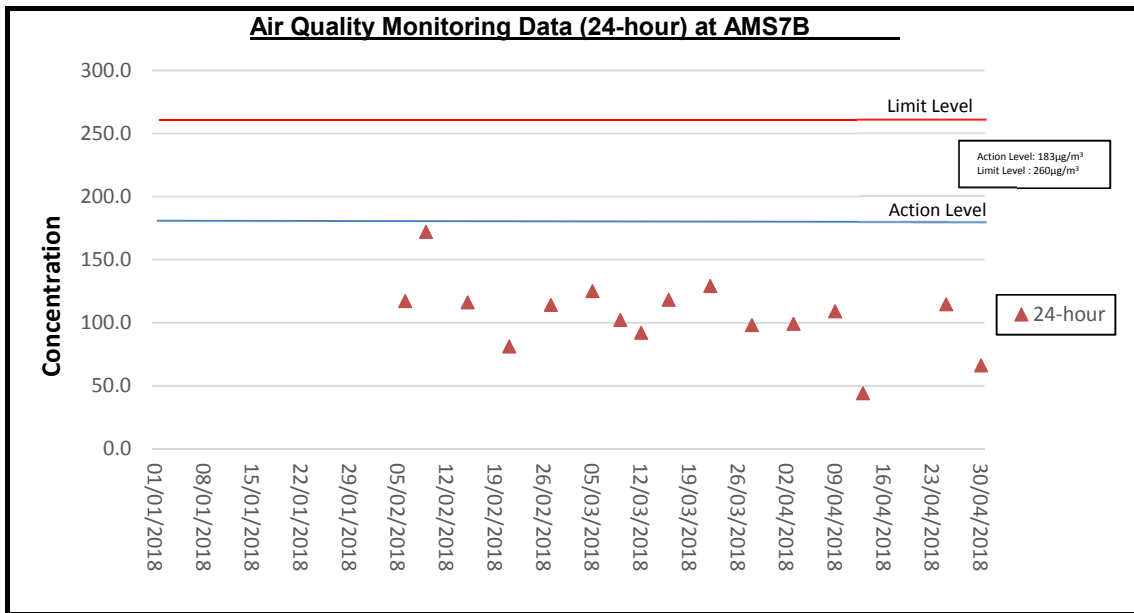


Air Quality Monitoring Data (1-hour) at AMS7B





Remark: Air quality monitoring on 27 April 2018 at AMS3B (Site Boundary of Site Office Area at Work Area WA2) was rescheduled to 4 May 2018 due to motor failure.



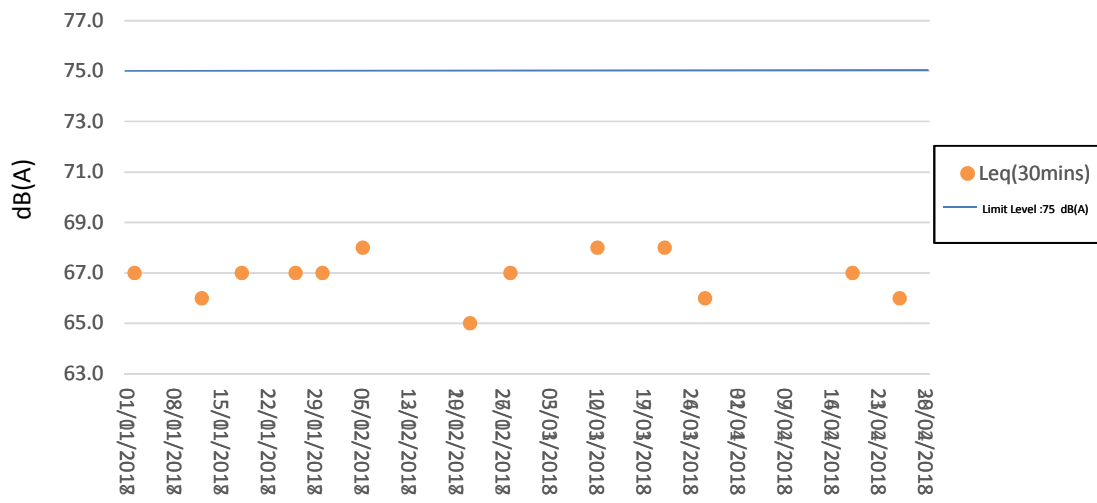
Remark: Air quality monitoring on 19 April 2018 at AMS7B (3RS Site Office) was rescheduled to 25 April 2018 due to power supply failure.

Noise Monitoring Data

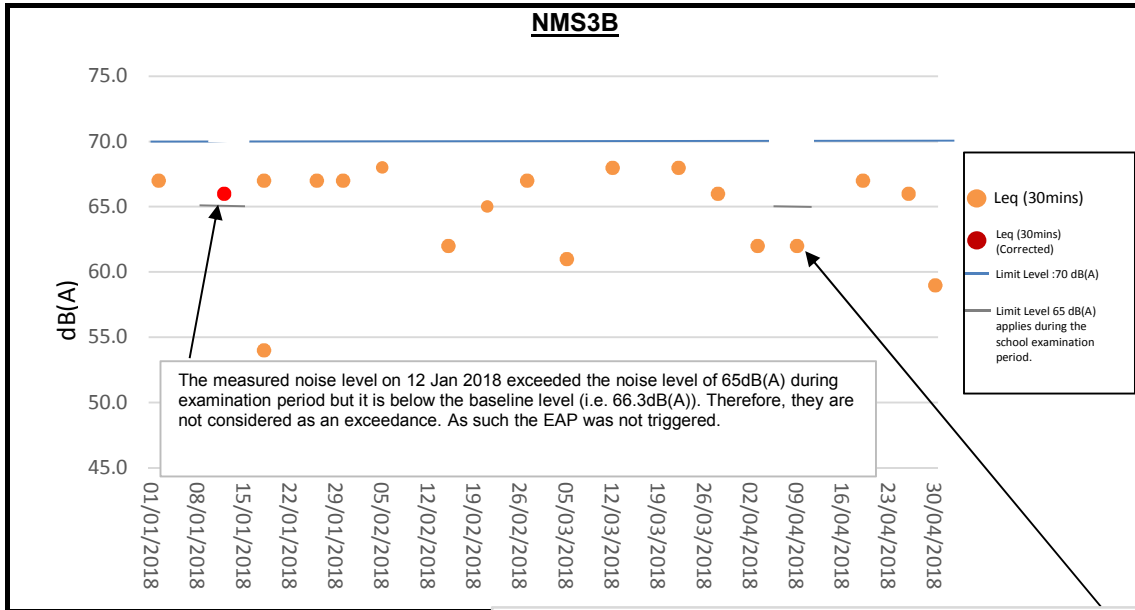
Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time	Noise Level for 30 min, dB(A)*			Wind Speed, m/s	Façade/Free Field	Remark
						Leq	L10	L90			
HKBCF	HY/2013/01	2018-04-03	NMS3B	Sunny	10:06	62	64	58	<5	Free-field*	
HKBCF	HY/2013/01	2018-04-04	NMS2	Sunny	14:48	64	66	61	<5	Façade	
HKBCF	HY/2013/01	2018-04-09	NMS3B	Sunny	14:00	62	64	58	<5	Free-field*	
HKBCF	HY/2013/01	2018-04-12	NMS2	Sunny	14:54	64	66	61	<5	Façade	
HKBCF	HY/2013/01	2018-04-17	NMS2	Cloudy	14:49	65	68	61	<5	Façade	
HKBCF	HY/2013/01	2018-04-19	NMS3B	Sunny	10:25	67	71	59	<5	Free-field*	
HKBCF	HY/2013/01	2018-04-26	NMS2	Cloudy	14:46	65	68	60	<5	Façade	
HKBCF	HY/2013/01	2018-04-26	NMS3B	Sunny	9:30	66	70	57	<5	Free-field*	Noise monitoring on 24 Apr 2018 at NMS3B was rescheduled to 26 Apr 2018 due to raining.
HKBCF	HY/2013/01	2018-04-30	NMS3B	Sunny	11:23	59	62	56	<5	Free-field*	

Remarks*A correction of +3dB(A) was made to the free-field measurement.

NMS2



NMS3B



One DSE subject was conducted on 9 April 2018 at Ho Yu College during the reporting month. The measured noise level was 62 dB(A) which was not exceeded the noise level of 65dB(A) during examination. As such the Event and Action Plan was not triggered.

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	1.0	Surface	1	1	22.60	7.90	28.10	96.1	7.10	4.2	6.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	1.0	Surface	1	2	22.60	8.00	28.40	96.0	7.10	4.1	5.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	5.7	Middle	2	1	22.30	7.90	28.30	94.9	7.00	4.4	5.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	5.7	Middle	2	2	22.30	8.00	28.60	94.9	7.00	4.2	5.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	10.3	Bottom	3	1	22.10	8.00	28.80	94.9	7.00	4.6	12.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10A(N)	14:32:00	10.3	Bottom	3	2	22.10	8.00	29.20	94.9	7.00	4.5	13.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	1.0	Surface	1	1	22.30	8.00	28.80	94.5	7.00	4.5	8.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	1.0	Surface	1	2	22.30	8.10	29.10	94.5	7.00	4.6	7.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	3.4	Middle	2	1	22.30	8.00	28.80	94.9	7.00	4.6	8.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	3.4	Middle	2	2	22.30	8.10	29.10	94.9	7.00	4.6	9.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	5.8	Bottom	3	1	22.30	8.00	28.80	95.4	7.00	4.7	9.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR10B(N2)	14:27:00	5.8	Bottom	3	2	22.30	8.10	29.10	95.4	7.00	4.8	9.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	1.0	Surface	1	1	21.80	8.10	30.80	83.2	6.10	7.7	8.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	1.0	Surface	1	2	21.80	8.00	30.80	83.9	6.20	7.7	9.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	16.3	Middle	2	1	21.70	8.10	31.30	82.0	6.00	9.4	8.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	16.3	Middle	2	2	21.60	8.00	31.40	82.7	6.10	9.5	9.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	31.6	Bottom	3	1	22.70	8.00	28.60	86.6	6.30	9.3	10.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CSA	14:05:00	31.6	Bottom	3	2	22.70	8.00	28.60	86.9	6.40	9.0	9.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	1.0	Surface	1	1	22.20	8.00	29.30	85.3	6.30	9.1	8.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	1.0	Surface	1	2	22.20	8.00	29.40	85.8	6.30	9.1	7.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	4.7	Middle	2	1	22.10	8.00	29.70	85.8	6.30	8.9	7.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	4.7	Middle	2	2	22.10	8.00	29.70	86.2	6.30	9.0	7.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	8.4	Bottom	3	1	22.60	8.00	27.90	85.9	6.30	15.4	8.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS6	13:56:00	8.4	Bottom	3	2	22.60	8.00	28.00	86.2	6.30	15.3	7.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	1.0	Surface	1	1	23.00	7.90	26.50	85.6	6.30	16.2	11.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	1.0	Surface	1	2	22.90	7.90	26.60	86.1	6.40	16.2	11.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	7.9	Middle	2	1	22.40	8.00	27.80	86.5	6.40	17.8	11.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	7.9	Middle	2	2	22.40	8.00	27.90	86.9	6.40	18.0	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	14.7	Bottom	3	1	22.40	8.00	28.30	86.3	6.40	17.7	13.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS4	13:02:00	14.7	Bottom	3	2	22.40	8.00	28.30	86.9	6.40	15.6	11.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00	1.0	Surface	1	1	22.40	8.10	29.50	91.8	6.70	19.0	16.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00	1.0	Surface	1	2	22.40	8.00	29.50	92.3	6.80	18.6	16.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00	3.5	Bottom	3	1	22.30	8.10	29.70	91.3	6.70	20.3	17.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR6	12:29:00	3.5	Bottom	3	2	22.30	8.00	29.80	92.1	6.70	20.1	17.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	1.0	Surface	1	1	22.80	8.00	27.00	87.6	6.50	14.4	11.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	1.0	Surface	1	2	22.80	8.00	27.10	87.9	6.50	14.2	11.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	3.7	Middle	2	1	22.40	8.00	28.50	89.0	6.50	16.4	10.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	3.7	Middle	2	2	22.40	8.00	28.50	89.2	6.60	16.5	10.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	6.4	Bottom	3	1	22.40	8.10	29.80	90.5	6.60	18.8	10.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)3(N)	12:44:00	6.4	Bottom	3	2	22.30	8.00	29.80	90.9	6.60	18.7	10.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	1.0	Surface	1	1	22.70	8.00	28.00	86.2	6.30	19.3	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	1.0	Surface	1	2	22.70	8.00	28.10	86.7	6.40	19.1	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	4.8	Middle	2	1	22.40	8.00	28.10	85.2	6.30	20.6	16.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	4.8	Middle	2	2	22.40	8.00	28.20	85.7	6.30	20.4	17.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	8.5	Bottom	3	1	22.40	8.00	28.20	85.9	6.30	22.5	19.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR5(N)	13:20:00	8.5	Bottom	3	2	22.40	8.00	28.20	86.4	6.40	22.1	18.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	1.0	Surface	1	1	22.60	8.10	28.00	87.1	6.40	19.3	11.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	1.0	Surface	1	2	22.60	8.00	28.00	87.5	6.40	19.1	12.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	5.8	Middle	2	1	22.60	8.10	28.30	87.0	6.40	20.1	15.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	5.8	Middle	2	2	22.50	8.00	28.30	87.5	6.40	20.3	15.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	10.6	Bottom	3	1	22.50	8.10	28.30	87.3	6.40	23.2	17.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS10(N)	13:26:00	10.6	Bottom	3	2	22.50	8.00	28.40	87.8	6.50	23.2	18.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	1.0	Surface	1	1	22.90	8.10	27.70	87.0	6.40	15.7	14.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	1.0	Surface	1	2	22.90	8.00	27.80	87.4	6.40	15.8	15.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	5.7	Middle	2	1	22.50	8.00	28.30	86.1	6.30	19.1	15.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	5.7	Middle	2	2	22.40	8.00	28.30	86.4	6.40	19.2	15.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	10.3	Bottom	3	1	22.50	8.00	28.30	86.3	6.40	21.3	15.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)11	13:30:00	10.3	Bottom	3	2	22.50	8.00	28.30	86.7	6.40	21.3	14.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	1.0	Surface	1	1	22.30	7.90	27.90	92.8	6.90	7.9	8.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	1.0	Surface	1	2	22.30	8.10	28.20	92.8	6.90	7.8	7.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	6.3	Middle	2	1	22.20	7.90	28.20	92.4	6.80	9.9	7.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	6.3	Middle	2	2	22.20	8.10	28.50	92.5	6.80	9.6	8.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	11.5	Bottom	3	1	22.00	7.90	28.80	92.0	6.80	12.2	8.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	CS(Mf)5	13:59:00	11.5	Bottom	3	2	22.00	8.10	29.10	92.3	6.80	12.2	8.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00	1.0	Surface	1	1	22.60	8.00	28.00	87.6	6.40	15.6	15.6	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00	1.0	Surface	1	2	22.60	8.00	28.00	87.9	6.50	15.7	15.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00	3.4	Bottom	3	1	22.90	8.10	27.70	87.1	6.40	15.7	17.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR7	13:39:00	3.4	Bottom	3	2	22.90	8.00	27.80	87.5	6.40	15.4	17.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	1.0	Surface	1	1	22.60	7.90	27.20	94.8	7.00	7.6	11.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	1.0	Surface	1	2	22.60	8.00	27.50	94.3	7.00	7.7	11.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	5.4	Middle	2	1	22.50	7.90	27.40	94.7	7.00	6.4	14.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	5.4	Middle	2	2	22.50	8.00	27.70	94.0	6.90	6.8	14.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	9.7	Bottom	3	1	22.10	7.90	28.10	92.5	6.90	8.8	13.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS17	13:43:00	9.7	Bottom	3	2	22.10	8.00	28.40	92.1	6.80	8.6	13.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00	1.0	Surface	1	1	23.00	7.90	27.60	98.1	7.20	6.4	5.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00	1.0	Surface	1	2	23.00	7.90	27.60	98.1	7.20	6.4	6.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00	4.8	Bottom	3	1	22.70	7.90	27.80	90.8	6.70	16.4	8.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)16	13:35:00	4.8	Bottom	3	2	22.70	8.00	28.10	90.5	6.60	16.3	7.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00	1.0	Surface	1	1	23.00	7.90	27.80	97.3	7.10	7.9	6.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00	1.0	Surface	1	2	23.00	8.10	28.10	97.0	7.10	7.8	7.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00	3.1	Bottom	3	1	22.80	7.90	27.90	91.4	6.70	10.4	10.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS8	13:12:00	3.1	Bottom	3	2	22.80	8.10	28.20	91.2	6.70	10.5	9.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00	1.0	Surface	1	1	23.00	7.90	27.60	94.6	6.90	7.3	9.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00	1.0	Surface	1	2	23.00	8.10	27.90	94.2	6.90	7.1	10.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00	2.7	Bottom	3	1	23.00	7.90	27.50	95.3	7.00	7.4	10.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR4(N)	13:19:00	2.7	Bottom	3	2	22.90	8.10	27.80	94.7	6.90	7.2	9.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00	1.0	Surface	1	1	23.30	7.90	27.80	98.4	7.20	6.0	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00	1.0	Surface	1	2	23.30	8.10	28.10	95.5	6.90	5.8	10.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00	2.4	Bottom	3	1	23.00	7.90	27.90	94.1	6.90	6.5	9.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)9	13:04:00	2.4	Bottom	3	2	23.00	8.00	28.20	93.8	6.80	6.3	9.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00	1.5	Middle	2	1	23.50	7.90	27.70	97.2	7.10	5.8	16.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00	1.5	Middle	2	2	23.50	8.10	28.00	96.7	7.00	5.7	16.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS7	12:57:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00	1.4	Middle	2	1	22.90	7.90	28.00	92.8	6.80	12.0	10.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00	1.4	Middle	2	2	23.00	8.00	28.30	92.6	6.80	11.7	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS(Mf)6	12:50:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	1.0	Surface	1	1	22.70	7.90	28.20	94.7	7.00	15.3	22.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	1.0	Surface	1	2	22.70	7.90	28.50	94.6	6.90	15.2	23.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	4.8	Middle	2	1	22.60	7.90	28.20	95.2	7.00	16.9	23.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	4.8	Middle	2	2	22.60	7.90	28.50	95.1	7.00	16.7	24.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	8.6	Bottom	3	1	22.60	7.90	28.20	95.5	7.00	17.1	26.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	IS5	12:43:00	8.6	Bottom	3	2	22.60	7.90	28.50	95.3	7.00	17.4	26.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00	1.0	Surface	1	1	22.70	7.90	28.10	92.2	6.80	12.6	13.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00	1.0	Surface	1	2	22.60	7.90	28.40	92.0	6.80	12.5	13.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00	3.6	Bottom	3	1	22.60	8.00	28.10	92.6	6.80	15.2	12.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Ebb	Sunny	SR3(N)	12:35:00	3.6	Bottom	3	2	22.60	8.00	28.40	92.6	6.80	15.1	13.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	1.0	Surface	1	1	22.10	7.90	27.90	93.5	6.90	5.2	8.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	1.0	Surface	1	2	22.10	7.90	28.20	93.7	6.90	5.1	9.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	5.6	Middle	2	1	22.00	7.90	28.30	92.8	6.90	5.8	10.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	5.6	Middle	2	2	22.00	7.90	28.50	93.0	6.90	5.7	8.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	10.2	Bottom	3	1	22.00	7.90	28.60	92.5	6.90	5.0	11.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10A(N)	6:55:00	10.2	Bottom	3	2	22.00	7.90	28.90	93.0	6.90	4.8	13.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00	1.0	Surface	1	1	21.70	8.00	29.60	91.4	6.80	6.4	10.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00	1.0	Surface	1	2	21.70	8.00	29.90	91.8	6.80	6.5	11.1	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00	4.9	Bottom	3	1	21.70	8.00	29.60	91.7	6.80	6.2	14.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR10B(N2)	7:08:00	4.9	Bottom	3	2	21.70	8.00	29.90	92.1	6.80	6.1	14.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	1.0	Surface	1	1	22.40	8.00	26.20	85.9	6.40	10.1	11.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	1.0	Surface	1	2	22.40	7.90	27.90	86.1	6.40	10.0	11.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	16.4	Middle	2	1	22.30	8.00	26.90	84.5	6.30	10.9	10.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	16.4	Middle	2	2	22.30	7.90	28.70	85.2	6.30	10.9	10.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	31.7	Bottom	3	1	22.20	8.00	29.40	83.6	6.20	10.8	13.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CSA	7:06:00	31.7	Bottom	3	2	22.10	7.90	29.20	84.4	6.20	10.8	13.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	1.0	Surface	1	1	22.40	8.00	27.90	85.7	6.30	12.4	9.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	1.0	Surface	1	2	22.40	7.90	27.90	85.9	6.40	12.3	9.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	4.8	Middle	2	1	22.30	8.00	28.40	84.9	6.30	13.8	10.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	4.8	Middle	2	2	22.30	7.90	28.40	85.1	6.30	13.7	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	8.6	Bottom	3	1	22.10	8.00	29.20	84.4	6.20	21.5	13.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS6	7:18:00	8.6	Bottom	3	2	22.10	8.00	29.20	84.6	6.20	21.3	11.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	1.0	Surface	1	1	22.50	8.00	26.90	85.4	6.30	10.5	10.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	1.0	Surface	1	2	22.50	7.90	27.00	85.8	6.40	10.7	10.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	7.8	Middle	2	1	22.40	8.00	27.90	84.9	6.30	12.5	13.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	7.8	Middle	2	2	22.40	8.00	28.00	85.3	6.30	12.6	13.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	14.5	Bottom	3	1	22.10	8.00	29.30	83.9	6.20	21.6	13.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS4	8:15:00	14.5	Bottom	3	2	22.00	8.00	29.30	84.6	6.20	22.0	13.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00	1.0	Surface	1	1	22.40	8.00	28.10	87.6	6.50	21.5	12.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00	1.0	Surface	1	2	22.40	8.00	28.10	87.8	6.50	21.1	12.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00	3.4	Bottom	3	1	22.30	8.00	28.10	88.2	6.50	22.3	12.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR6	9:11:00	3.4	Bottom	3	2	22.30	8.00	28.10	87.7	6.50	22.4	13.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	1.0	Surface	1	1	22.50	7.90	26.20	84.9	6.30	14.3	14.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	1.0	Surface	1	2	22.50	7.90	26.20	85.1	6.30	14.2	15.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	3.7	Middle	2	1	22.50	8.00	26.90	84.7	6.30	18.3	19.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	3.7	Middle	2	2	22.50	7.90	27.00	85.0	6.30	18.2	19.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	6.3	Bottom	3	1	22.40	8.00	27.10	84.8	6.30	21.5	20.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)3(N)	8:51:00	6.3	Bottom	3	2	22.40	7.90	27.20	85.2	6.30	21.6	22.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	1.0	Surface	1	1	22.40	8.00	27.70	84.9	6.30	17.6	15.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	1.0	Surface	1	2	22.40	7.90	27.70	85.2	6.30	17.4	14.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	4.7	Middle	2	1	22.30	8.00	28.10	84.8	6.30	18.5	14.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	4.7	Middle	2	2	22.30	8.00	28.20	85.4	6.30	18.3	15.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	8.4	Bottom	3	1	22.30	8.00	28.30	84.9	6.30	20.7	15.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR5(N)	7:57:00	8.4	Bottom	3	2	22.30	8.00	28.40	85.4	6.30	20.9	15.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	1.0	Surface	1	1	22.30	8.00	28.60	85.8	6.30	19.3	19.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	1.0	Surface	1	2	22.30	8.00	28.70	86.1	6.30	19.5	19.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	5.8	Middle	2	1	22.30	8.00	28.70	85.3	6.30	20.5	20.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	5.8	Middle	2	2	22.20	8.00	28.80	85.7	6.30	20.8	21.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	10.5	Bottom	3	1	22.20	8.00	28.80	85.7	6.30	22.3	24.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS10(N)	7:52:00	10.5	Bottom	3	2	22.20	8.00	28.80	86.2	6.40	22.3	24.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	1.0	Surface	1	1	22.40	8.00	28.20	84.5	6.20	14.9	16.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	1.0	Surface	1	2	22.40	8.00	28.20	84.9	6.30	14.8	17.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	5.8	Middle	2	1	22.40	8.00	28.40	84.5	6.20	16.3	17.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	5.8	Middle	2	2	22.40	8.00	28.40	84.9	6.30	16.3	18.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	10.6	Bottom	3	1	22.40	8.00	28.40	84.7	6.20	18.7	21.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	10.6	Bottom	3	2	22.40	8.00	28.40	85.1	6.30	18.9	20.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	1.0	Surface	1	1	22.20	8.00	27.60	93.0	6.90	6.7	8.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	1.0	Surface	1	2	22.20	8.00	27.90	93.2	6.90	6.8	8.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	6.2	Middle	2	1	22.00	8.00	28.60	91.9	6.80	7.2	11.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	6.2	Middle	2	2	22.00	8.00	28.90	92.2	6.80	7.1	11.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	11.4	Bottom	3	1	21.90	8.10	29.10	92.3	6.80	10.3	10.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	CS(Mf)5	7:34:00	11.4	Bottom	3	2	21.90	8.10	29.10	92.3	6.80	10.2	10.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00	1.0	Surface	1	1	22.40	8.00	27.60	85.2	6.30	17.8	18.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00	1.0	Surface	1	2	22.40	7.90	27.70	85.4	6.30	17.9	19.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00	3.5	Bottom	3	1	22.40	8.00	27.90	85.6	6.30	18.1	23.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR7	7:36:00	3.5	Bottom	3	2	22.30	7.90	28.00	85.9	6.40	18.3	23.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	1.0	Surface	1	1	22.30	8.00	27.00	94.7	7.00	7.1	8.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	1.0	Surface	1	2	22.30	8.00	27.20	94.8	7.00	7.1	9.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	5.6	Middle	2	1	22.30	8.00	27.00	94.3	7.00	12.4	8.9	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	5.6	Middle	2	2	22.30	8.00	27.30	94.4	7.00	12.4	8.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	10.1	Bottom	3	1	22.20	8.00	27.60	91.9	6.80	6.8	8.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS17	7:57:00	10.1	Bottom	3	2	22.20	8.00	27.90	92.1	6.80	6.8	9.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)16	8:05:00	1.0	Surface	1	1	22.30	8.00	27.10	93.7	7.00	6.0	5.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)16	8:05:00	1.0	Surface	1	2	22.30	8.00	27.40	94.0	7.00	5.9	5.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)16	8:05:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)16	8:05:00	4.8	Bottom	3	1	22.30	8.00	27.50	93.3	6.90	9.1	9.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)16	8:05:00	4.8	Bottom	3	2	22.30	8.00	27.80	93.7	6.90	9.6	8.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00	1.0	Surface	1	1	22.30	8.00	27.40	93.2	6.90	6.8	11.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00	1.0	Surface	1	2	22.30	8.00	27.70	93.4	6.90	6.8	12.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00	3.3	Bottom	3	1	22.30	8.00	27.50	93.4	6.90	7.5	11.3	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS8	8:26:00	3.3	Bottom	3	2	22.30	8.00	27.70	93.6	6.90	7.5	11.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00	1.0	Surface	1	1	22.30	8.00	27.60	90.3	6.70	9.8	17.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00	1.0	Surface	1	2	22.30	8.00	27.90	90.5	6.70	10.1	16.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00	2.1	Bottom	3	1	22.30	8.00	27.60	90.5	6.70	10.4	19.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR4(N)	8:21:00	2.1	Bottom	3	2	22.30	8.00	27.80	90.8	6.70	10.8	18.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00	1.0	Surface	1	1	22.40	8.00	27.70	92.4	6.80	9.3	8.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00	1.0	Surface	1	2	22.40	8.00	28.00	92.8	6.90	9.0	7.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00	2.4	Bottom	3	1	22.40	8.00	27.70	93.1	6.90	10.0	8.1	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)9	8:40:00	2.4	Bottom	3	2	22.40	8.00	28.00	93.5	6.90	9.8	9.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00	1.4	Middle	2	1	22.60	8.00	27.90	91.2	6.70	10.7	14.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00	1.4	Middle	2	2	22.60	8.00	28.20	91.7	6.70	10.8	15.7	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS7	8:47:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00	1.5	Middle	2	1	22.60	8.00	27.90	92.0	6.80	8.2	12.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00	1.5	Middle	2	2	22.60	8.00	28.20	92.2	6.80	7.8	13.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS(Mf)6	8:55:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	1.0	Surface	1	1	22.50	8.00	27.90	90.4	6.70	8.9	13.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	1.0	Surface	1	2	22.50	8.00	28.20	90.6	6.70	8.4	13.9	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	4.6	Middle	2	1	22.50	8.00	28.00	90.3	6.70	8.4	13.0	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	4.6	Middle	2	2	22.50	8.00	28.30	90.6	6.70	8.6	12.4	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	8.2	Bottom	3	1	22.50	8.00	28.00	90.6	6.70	9.1	12.6	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	IS5	9:02:00	8.2	Bottom	3	2	22.60	8.00	28.30	90.9	6.70	9.2	12.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00	1.0	Surface	1	1	22.50	8.00	28.00	90.8	6.70	15.0	11.2	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00	1.0	Surface	1	2	22.50	8.00	28.30	91.4	6.70	15.3	10.5	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00	2.5	Bottom	3	1	22.50	8.00	28.00	91.7	6.80	14.7	11.8	
HKBCF	HY/2013/01	2018-04-02	Mid-Flood	Cloudy	SR3(N)	9:10:00	2.5	Bottom	3	2	22.50	8.00	28.30	92.7	6.80	15.0	11.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	1.0	Surface	1	1	23.30	8.10	28.30	89.2	6.50	6.5	4.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	1.0	Surface	1	2	23.20	8.00	28.30	89.6	6.50	6.9	4.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	5.6	Middle	2	1	23.20	8.10	28.80	88.4	6.40	6.7	4.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	5.6	Middle	2	2	23.20	8.00	28.80	88.9	6.40	6.7	3.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	10.2	Bottom	3	1	23.10	8.10	28.90	88.5	6.40	6.7	4.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10A	17:12:00	10.2	Bottom	3	2	23.10	8.00	29.00	89.0	6.40	6.8	6.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	1.0	Surface	1	1	23.00	8.10	29.30	88.4	6.40	10.8	4.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	1.0	Surface	1	2	23.00	8.00	29.40	88.7	6.40	10.7	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	3.2	Middle	2	1	23.00	8.10	29.40	88.2	6.40	10.4	6.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	3.2	Middle	2	2	23.00	8.00	29.40	88.7	6.40	10.6	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	5.4	Bottom	3	1	23.00	8.10	29.60	88.3	6.40	9.6	5.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR10B(N)	17:07:00	5.4	Bottom	3	2	22.90	8.00	29.70	88.9	6.40	9.8	5.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	1.0	Surface	1	1	23.10	8.00	27.60	90.6	6.60	2.5	5.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	1.0	Surface	1	2	23.50	8.10	27.50	91.0	6.60	2.4	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	15.8	Middle	2	1	23.00	8.00	28.30	90.4	6.60	2.8	5.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	15.8	Middle	2	2	23.30	8.10	28.20	92.5	6.70	2.7	6.0	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	30.6	Bottom	3	1	23.00	8.00	28.40	91.1	6.60	2.8	7.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CSA	16:41:00	30.6	Bottom	3	2	23.30	8.10	28.30	94.0	6.80	2.7	8.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	1.0	Surface	1	1	23.30	8.00	27.00	91.8	6.70	2.5	5.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	1.0	Surface	1	2	23.70	8.00	26.80	92.3	6.70	2.5	5.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	4.8	Middle	2	1	23.20	8.00	27.50	91.6	6.70	2.5	7.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	4.8	Middle	2	2	23.50	8.00	27.40	92.3	6.70	2.4	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	8.5	Bottom	3	1	23.10	8.00	28.10	95.2	6.90	3.1	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS6	16:33:00	8.5	Bottom	3	2	23.40	8.00	28.00	95.3	6.90	3.1	9.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	1.0	Surface	1	1	24.10	8.00	25.20	92.9	6.80	4.9	5.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	1.0	Surface	1	2	24.50	7.90	25.00	93.3	6.80	4.1	5.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	8.2	Middle	2	1	23.50	8.00	26.10	89.1	6.50	6.3	5.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	8.2	Middle	2	2	23.90	8.00	26.00	89.8	6.50	5.4	6.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	15.3	Bottom	3	1	23.40	8.00	26.40	89.5	6.50	7.5	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS4	15:36:00	15.3	Bottom	3	2	23.80	8.00	26.30	90.2	6.60	6.4	7.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00	1.0	Surface	1	1	23.30	8.10	26.10	95.1	7.00	6.8	7.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00	1.0	Surface	1	2	23.70	8.00	26.00	95.8	7.00	5.9	8.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00	3.1	Bottom	3	1	23.30	8.00	26.50	95.1	7.00	7.1	7.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR6	15:03:00	3.1	Bottom	3	2	23.70	8.00	26.30	96.0	7.00	6.2	7.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	1.0	Surface	1	1	23.60	8.00	25.70	94.3	6.90	6.3	6.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	1.0	Surface	1	2	24.00	8.00	25.60	95.2	6.90	5.6	4.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	3.7	Middle	2	1	23.50	8.00	26.20	94.1	6.90	7.6	6.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	3.7	Middle	2	2	23.80	8.00	26.00	95.3	6.90	6.8	6.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	6.3	Bottom	3	1	23.50	8.00	26.20	95.2	7.00	7.9	7.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)3(N)	15:19:00	6.3	Bottom	3	2	23.80	8.00	26.20	96.8	7.00	7.1	7.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	1.0	Surface	1	1	23.60	8.10	25.30	91.7	6.70	6.9	8.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	1.0	Surface	1	2	24.00	8.10	25.10	92.2	6.70	6.0	7.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	4.6	Middle	2	1	23.40	8.10	26.40	89.4	6.50	8.9	8.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	4.6	Middle	2	2	23.70	8.10	26.30	90.4	6.60	7.7	7.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	8.2	Bottom	3	1	23.40	8.10	26.50	89.4	6.50	14.6	7.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR5(N)	15:57:00	8.2	Bottom	3	2	23.70	8.10	26.30	90.5	6.60	14.7	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	1.0	Surface	1	1	23.50	8.20	25.60	92.3	6.80	8.0	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	1.0	Surface	1	2	23.90	8.10	25.50	92.7	6.80	6.9	9.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	5.4	Middle	2	1	23.20	8.10	27.10	89.6	6.60	10.5	9.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	5.4	Middle	2	2	23.60	8.10	27.00	90.2	6.60	9.3	10.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	9.7	Bottom	3	1	23.20	8.10	27.30	90.1	6.60	10.2	11.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS10(N)	16:03:00	9.7	Bottom	3	2	23.50	8.10	27.20	90.6	6.60	8.7	12.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	1.0	Surface	1	1	23.50	8.10	25.40	92.3	6.80	6.3	8.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	1.0	Surface	1	2	23.80	8.10	25.30	92.9	6.80	5.7	8.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	5.1	Middle	2	1	23.50	8.10	26.00	91.3	6.70	8.7	9.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	5.1	Middle	2	2	23.80	8.10	25.80	92.4	6.70	7.8	9.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	9.1	Bottom	3	1	23.40	8.10	26.30	93.5	6.80	8.7	10.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)11	16:06:00	9.1	Bottom	3	2	23.80	8.10	26.20	92.5	6.70	7.5	9.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	1.0	Surface	1	1	23.40	8.00	27.60	86.5	6.30	8.6	5.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	1.0	Surface	1	2	23.30	8.00	27.70	86.9	6.30	8.7	4.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	6.3	Middle	2	1	23.30	8.00	28.00	85.0	6.20	9.3	6.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	6.3	Middle	2	2	23.30	8.00	28.00	85.6	6.20	9.1	7.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	11.5	Bottom	3	1	22.60	8.10	31.30	84.1	6.10	9.2	6.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	CS(MF)5	16:33:00	11.5	Bottom	3	2	22.50	8.00	31.40	84.7	6.10	9.0	7.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00	1.0	Surface	1	1	23.50	8.10	25.70	91.4	6.70	6.9	10.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00	1.0	Surface	1	2	23.80	8.10	25.60	91.8	6.70	6.8	9.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00	3.4	Bottom	3	1	23.50	8.10	25.70	91.6	6.70	6.9	11.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR7	16:14:00	3.4	Bottom	3	2	23.80	8.10	25.60	91.9	6.70	6.9	11.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	1.0	Surface	1	1	23.40	8.00	27.40	84.1	6.10	12.3	9.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	1.0	Surface	1	2	23.40	8.00	27.50	84.5	6.10	12.4	8.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	5.4	Middle	2	1	23.40	8.00	27.80	83.3	6.10	12.4	11.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	5.4	Middle	2	2	23.30	8.00	27.90	83.9	6.10	12.3	10.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	9.7	Bottom	3	1	22.70	8.00	30.40	83.2	6.00	12.3	13.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS17	16:14:00	9.7	Bottom	3	2	22.70	8.00	30.40	83.8	6.10	12.4	13.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00	1.0	Surface	1	1	23.70	8.00	27.90	86.4	6.20	13.0	10.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00	1.0	Surface	1	2	23.70	7.90	27.90	87.0	6.30	12.6	9.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00	4.6	Bottom	3	1	23.40	8.00	28.50	85.9	6.20	13.5	12.0	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)16	16:07:00	4.6	Bottom	3	2	23.40	7.90	28.50	86.5	6.30	13.2	13.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00	1.0	Surface	1	1	23.70	8.00	27.30	91.0	6.60	15.2	6.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00	1.0	Surface	1	2	23.60	8.00	27.40	91.6	6.60	15.0	7.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00	3.3	Bottom	3	1	23.60	8.00	27.40	92.4	6.70	15.3	7.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS8	15:42:00	3.3	Bottom	3	2	23.60	8.00	27.40	93.1	6.80	15.2	8.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR4(N)	15:50:00	1.0	Surface	1	1	24.00	8.00	27.40	82.9	6.00	12.9	8.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR4(N)	15:50:00	1.0	Surface	1	2	24.00	7.90	27.40	83.6	6.00	12.7	9.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR4(N)	15:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR4(N)	15:50:00	2.4	Bottom	3	1	24.00	7.90	27.50	83.8	6.00	13.6	11.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR4(N)	15:50:00	2.4	Bottom	3	2	24.00	7.90	27.60	84.5	6.10	13.6	12.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00	1.0	Surface	1	1	23.70	8.00	27.70	86.7	6.30	20.4	12.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00	1.0	Surface	1	2	23.70	7.90	27.70	87.1	6.30	20.3	12.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00	2.4	Bottom	3	1	23.70	8.00	27.70	87.2	6.30	20.3	15.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)9	15:33:00	2.4	Bottom	3	2	23.70	7.90	27.70	88.0	6.40	20.2	14.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00	1.0	Surface	1	1	23.70	8.00	27.70	85.0	6.10	16.7	11.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00	1.0	Surface	1	2	23.70	7.90	27.80	85.6	6.20	16.8	11.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00	2.5	Bottom	3	1	23.70	8.00	27.70	85.4	6.20	21.4	14.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS7	15:25:00	2.5	Bottom	3	2	23.70	7.90	27.80	85.8	6.20	21.3	13.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00	1.0	Surface	1	1	23.70	8.00	28.10	83.6	6.00	18.2	15.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00	1.0	Surface	1	2	23.70	7.90	28.20	84.1	6.10	18.1	15.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00	2.2	Bottom	3	1	23.70	8.00	28.10	84.7	6.10	19.2	16.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS(MF)6	15:17:00	2.2	Bottom	3	2	23.70	7.90	28.20	85.4	6.20	19.1	17.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	1.0	Surface	1	1	23.60	8.00	28.30	85.0	6.10	18.4	12.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	1.0	Surface	1	2	23.60	8.00	28.30	85.6	6.20	18.1	13.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	4.5	Middle	2	1	23.60	8.00	28.30	85.2	6.20	17.7	17.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	4.5	Middle	2	2	23.50	8.00	28.40	85.8	6.20	17.8	17.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	7.9	Bottom	3	1	23.60	8.00	28.40	85.5	6.20	18.4	17.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	IS5	15:09:00	7.9	Bottom	3	2	23.50	8.00	28.40	86.3	6.20	18.3	16.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00	1.0	Surface	1	1	23.70	8.00	28.20	85.0	6.10	18.2	11.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00	1.0	Surface	1	2	23.70	7.90	28.20	85.4	6.20	18.0	11.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00	2.7	Bottom	3	1	23.60	8.00	28.30	86.1	6.20	20.2	13.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Ebb	Cloudy	SR3	15:03:00	2.7	Bottom	3	2	23.60	8.00	28.40	86.7	6.30	20.1	13.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	1.0	Surface	1	1	23.30	8.00	28.30	86.3	6.30	6.3	4.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	1.0	Surface	1	2	23.30	7.90	28.30	86.8	6.30	6.3	3.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	5.6	Middle	2	1	23.10	8.00	28.70	84.3	6.10	5.9	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	5.6	Middle	2	2	23.10	8.00	28.80	85.0	6.20	5.9	5.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	10.1	Bottom	3	1	22.70	8.00	30.60	83.5	6.00	5.1	7.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10A	8:33:00	10.1	Bottom	3	2	22.70	8.00	30.70	84.5	6.10	5.2	8.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	1.0	Surface	1	1	22.70	8.00	30.40	85.1	6.20	6.9	4.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	1.0	Surface	1	2	22.70	8.00	30.50	85.6	6.20	6.5	4.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	3.2	Middle	2	1	22.60	8.00	31.00	85.7	6.20	8.3	5.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	3.2	Middle	2	2	22.60	8.00	31.10	86.2	6.20	8.6	5.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	5.3	Bottom	3	1	22.30	8.10	32.40	87.8	6.30	10.3	9.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR10B(N)	8:40:00	5.3	Bottom	3	2	22.30	8.00	32.50	88.8	6.40	10.0	10.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	1.0	Surface	1	1	24.00	7.90	25.50	91.3	6.60	3.4	5.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	1.0	Surface	1	2	23.60	8.00	25.70	91.1	6.70	3.6	5.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	15.7	Middle	2	1	23.50	7.90	27.50	88.1	6.40	2.4	4.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	15.7	Middle	2	2	23.10	8.00	27.60	87.9	6.40	2.5	5.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	30.4	Bottom	3	1	23.20	7.90	28.80	88.0	6.40	1.7	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CSA	8:56:00	30.4	Bottom	3	2	22.80	8.00	28.90	87.8	6.40	1.8	7.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	1.0	Surface	1	1	23.60	7.90	26.80	88.7	6.40	2.4	6.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	1.0	Surface	1	2	23.20	8.00	27.00	88.4	6.50	2.9	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	4.7	Middle	2	1	23.40	7.90	27.90	87.4	6.30	2.2	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	4.7	Middle	2	2	23.00	8.00	28.00	87.1	6.40	2.6	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	8.3	Bottom	3	1	23.30	8.00	28.20	87.3	6.30	2.0	6.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS6	9:10:00	8.3	Bottom	3	2	22.90	8.00	28.30	87.0	6.30	2.4	6.9	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	1.0	Surface	1	1	24.30	7.90	24.80	91.4	6.70	3.2	4.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	1.0	Surface	1	2	23.90	8.00	24.90	91.1	6.70	3.8	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	8.1	Middle	2	1	23.60	8.00	26.90	89.6	6.50	3.5	4.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	8.1	Middle	2	2	23.30	8.00	27.10	89.1	6.50	3.8	5.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	15.1	Bottom	3	1	23.60	8.00	27.10	91.9	6.70	2.8	6.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS4	10:12:00	15.1	Bottom	3	2	23.20	8.00	27.30	91.3	6.70	3.2	6.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00	1.0	Surface	1	1	24.00	8.00	25.20	93.5	6.80	5.0	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00	1.0	Surface	1	2	23.70	8.00	25.30	92.9	6.80	5.8	5.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00	3.2	Bottom	3	1	24.00	8.00	25.40	93.7	6.80	5.3	7.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR6	10:44:00	3.2	Bottom	3	2	23.60	8.00	25.50	93.0	6.80	6.0	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	1.0	Surface	1	1	24.30	7.90	24.30	91.2	6.70	5.1	5.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	1.0	Surface	1	2	23.90	8.00	24.40	90.8	6.70	6.1	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	3.5	Middle	2	1	24.00	8.00	25.00	90.0	6.60	9.1	5.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	3.5	Middle	2	2	23.60	8.10	25.10	89.4	6.60	10.2	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	6.0	Bottom	3	1	24.00	8.00	25.10	90.5	6.60	9.3	9.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)3(N)	10:25:00	6.0	Bottom	3	2	23.60	8.10	25.20	89.8	6.60	10.1	11.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	1.0	Surface	1	1	24.10	8.00	24.90	89.7	6.50	3.9	6.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	1.0	Surface	1	2	23.70	8.00	25.10	89.5	6.60	4.5	7.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	4.5	Middle	2	1	23.90	8.00	25.60	88.0	6.40	3.5	7.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	4.5	Middle	2	2	23.50	8.00	25.70	87.8	6.40	4.2	7.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	8.0	Bottom	3	1	23.60	8.00	27.00	86.2	6.30	11.8	8.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR5(N)	9:55:00	8.0	Bottom	3	2	23.20	8.00	27.10	85.8	6.30	10.0	7.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	1.0	Surface	1	1	24.00	8.00	25.10	90.5	6.60	3.5	8.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	1.0	Surface	1	2	23.60	8.00	25.30	90.0	6.60	4.1	8.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	5.3	Middle	2	1	23.60	8.00	26.70	88.1	6.40	7.9	7.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	5.3	Middle	2	2	23.20	8.00	26.90	87.2	6.40	9.7	8.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	9.6	Bottom	3	1	23.60	7.90	26.70	87.9	6.40	7.1	7.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS10(N)	9:50:00	9.6	Bottom	3	2	23.30	8.00	26.90	86.9	6.40	8.5	8.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	1.0	Surface	1	1	23.90	7.90	25.20	88.1	6.40	5.1	6.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	1.0	Surface	1	2	23.50	8.00	25.30	87.8	6.50	6.0	6.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	5.0	Middle	2	1	23.40	8.00	27.80	85.5	6.20	10.3	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	5.0	Middle	2	2	23.00	8.00	27.90	85.1	6.20	11.5	6.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	8.9	Bottom	3	1	23.30	8.00	28.00	86.9	6.30	11.6	7.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)11	9:44:00	8.9	Bottom	3	2	22.90	8.00	28.20	86.0	6.30	13.3	6.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	1.0	Surface	1	1	23.60	8.00	26.60	86.2	6.30	9.2	5.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	1.0	Surface	1	2	23.60	8.00	26.60	86.6	6.30	9.2	5.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	6.2	Middle	2	1	23.40	8.00	27.00	84.4	6.20	11.9	5.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	6.2	Middle	2	2	23.40	8.00	27.10	85.1	6.20	11.7	7.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	11.4	Bottom	3	1	22.60	8.10	31.30	84.2	6.10	13.1	8.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	CS(MF)5	9:11:00	11.4	Bottom	3	2	22.50	8.00	31.30	84.8	6.10	13.4	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00	1.0	Surface	1	1	23.70	7.90	26.20	86.8	6.30	4.4	6.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00	1.0	Surface	1	2	23.30	8.00	26.50	86.1	6.30	5.4	6.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00	3.2	Bottom	3	1	23.50	7.90	27.20	86.9	6.30	5.1	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR7	9:32:00	3.2	Bottom	3	2	23.10	8.00	27.40	86.3	6.30	6.0	5.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	1.0	Surface	1	1	23.70	8.00	26.20	84.7	6.20	9.8	5.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	1.0	Surface	1	2	23.70	8.00	26.30	85.1	6.20	9.4	6.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	5.5	Middle	2	1	23.20	8.00	28.50	81.3	5.90	10.5	9.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	5.5	Middle	2	2	23.20	8.00	28.50	81.9	5.90	10.8	8.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	10.0	Bottom	3	1	22.90	8.00	29.70	80.6	5.80	15.8	7.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS17	9:33:00	10.0	Bottom	3	2	22.80	8.00	29.70	81.1	5.90	16.1	7.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00	1.0	Surface	1	1	23.60	8.00	26.90	86.3	6.30	9.0	5.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00	1.0	Surface	1	2	23.60	8.00	26.90	86.7	6.30	9.4	6.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00	4.7	Bottom	3	1	23.40	8.00	27.80	83.1	6.00	14.3	7.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)16	9:44:00	4.7	Bottom	3	2	23.40	7.90	27.80	83.6	6.10	14.4	8.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00	1.0	Surface	1	1	23.50	8.00	27.20	83.4	6.10	15.0	9.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00	1.0	Surface	1	2	23.50	7.90	27.30	84.0	6.10	15.2	8.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00	3.2	Bottom	3	1	23.50	8.00	27.40	82.6	6.00	15.1	14.4	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS8	10:10:00	3.2	Bottom	3	2	23.50	7.90	27.50	83.1	6.00	15.1	13.2	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00	1.0	Surface	1	1	23.70	8.00	26.70	86.4	6.30	13.1	10.6	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00	1.0	Surface	1	2	23.70	8.00	26.70	86.7	6.30	13.5	10.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00	2.3	Bottom	3	1	23.70	8.00	26.70	86.3	6.30	13.3	9.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR4(N)	10:02:00	2.3	Bottom	3	2	23.70	8.00	26.70	86.8	6.30	13.6	9.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00	1.0	Surface	1	1	23.60	8.00	27.90	83.3	6.00	14.2	5.7	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00	1.0	Surface	1	2	23.50	7.90	27.90	83.7	6.10	14.6	4.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00	2.7	Bottom	3	1	23.50	8.00	27.90	83.6	6.10	13.1	7.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)9	10:18:00	2.7	Bottom	3	2	23.50	7.90	28.00	84.0	6.10	13.5	7.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00	1.0	Surface	1	1	23.70	8.00	27.60	85.1	6.20	10.1	5.6	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00	1.0	Surface	1	2	23.70	7.90	27.70	85.6	6.20	10.1	4.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00	2.5	Bottom	3	1	23.60	8.00	27.90	82.4	6.00	12.9	5.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS7	10:27:00	2.5	Bottom	3	2	23.60	7.90	28.00	82.9	6.00	12.8	6.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00	1.5	Middle	2	1	23.80	8.00	28.00	82.5	5.90	15.7	8.1	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00	1.5	Middle	2	2	23.70	7.90	28.00	82.9	6.00	15.9	8.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS(MF)6	10:36:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	1.0	Surface	1	1	24.00	8.00	27.90	85.1	6.10	11.1	6.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	1.0	Surface	1	2	24.00	7.90	27.90	85.4	6.10	11.0	7.5	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	4.6	Middle	2	1	23.90	8.00	28.00	84.7	6.10	11.7	7.0	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	4.6	Middle	2	2	23.90	7.90	28.00	85.2	6.10	11.9	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	8.1	Bottom	3	1	23.80	8.00	28.10	85.1	6.10	13.5	8.3	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	IS5	10:43:00	8.1	Bottom	3	2	23.80	7.90	28.20	85.6	6.20	13.4	8.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00	1.0	Surface	1	1	24.00	8.00	28.10	84.8	6.10	18.3	9.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00	1.0	Surface	1	2	24.00	7.90	28.10	85.5	6.10	18.2	8.8	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00	2.6	Bottom	3	1	23.80	8.00	28.10	85.2	6.10	13.1	10.9	
HKBCF	HY/2013/01	2018-04-06	Mid-Flood	Fine	SR3	10:52:00	2.6	Bottom	3	2	23.80	7.90	28.20	85.8	6.20	13.2	10.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	1.0	Surface	1	1	22.40	8.10	31.60	104.7	7.60	1.4	3.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	1.0	Surface	1	2	22.40	8.10	33.10	104.2	7.50	1.4	3.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	5.7	Middle	2	1	22.40	8.10	32.00	102.2	7.40	1.2	5.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	5.7	Middle	2	2	22.40	8.10	33.40	101.7	7.30	1.2	4.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	10.3	Bottom	3	1	22.30	8.10	32.10	102.0	7.40	1.4	11.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10A(N)	20:25:00	10.3	Bottom	3	2	22.30	8.10	33.60	101.3	7.30	1.4	10.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	1.0	Surface	1	1	22.40	8.10	31.90	103.4	7.50	1.6	5.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	1.0	Surface	1	2	22.40	8.10	33.30	103.0	7.40	1.6	5.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	3.3	Middle	2	1	22.40	8.10	32.00	103.0	7.40	1.6	4.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	3.3	Middle	2	2	22.40	8.10	33.40	102.6	7.30	1.6	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	5.6	Bottom	3	1	22.40	8.10	32.00	103.0	7.40	1.6	4.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR10B(N2)	20:19:00	5.6	Bottom	3	2	22.40	8.10	33.40	102.5	7.30	1.6	6.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	1.0	Surface	1	1	22.50	8.10	31.00	94.1	6.80	4.4	3.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	1.0	Surface	1	2	22.60	8.20	31.00	93.6	6.80	4.4	3.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	16.4	Middle	2	1	22.00	8.10	33.50	85.7	6.20	4.4	7.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	16.4	Middle	2	2	22.00	8.10	33.50	85.0	6.10	4.2	6.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	31.8	Bottom	3	1	22.00	8.00	33.60	85.0	6.10	7.1	8.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CSA	20:08:00	31.8	Bottom	3	2	22.00	8.10	33.70	84.1	6.00	7.4	8.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	1.0	Surface	1	1	22.60	8.10	30.50	97.0	7.00	7.7	5.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	1.0	Surface	1	2	22.60	8.20	30.50	96.8	7.00	7.9	4.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	4.8	Middle	2	1	22.50	8.10	31.70	94.9	6.90	8.6	5.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	4.8	Middle	2	2	22.50	8.10	31.60	94.4	6.80	8.7	5.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	8.5	Bottom	3	1	22.40	8.10	31.90	93.8	6.80	9.6	9.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS6	19:58:00	8.5	Bottom	3	2	22.40	8.10	31.90	93.5	6.70	9.4	11.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	1.0	Surface	1	1	22.90	8.10	29.90	98.8	7.20	5.1	8.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	1.0	Surface	1	2	22.90	8.10	29.90	98.7	7.10	5.4	7.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	9.0	Middle	2	1	22.00	8.00	31.70	86.4	6.30	5.2	10.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	9.0	Middle	2	2	22.00	8.10	31.70	86.1	6.30	5.4	10.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	16.9	Bottom	3	1	22.00	8.00	32.90	85.1	6.20	6.7	9.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS4	19:01:00	16.9	Bottom	3	2	22.00	8.10	32.90	84.6	6.10	6.6	9.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00	1.0	Surface	1	1	22.60	8.10	30.70	109.7	7.90	5.2	4.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00	1.0	Surface	1	2	22.80	8.20	30.10	109.1	7.90	5.4	6.5	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00	3.4	Bottom	3	1	22.10	8.10	32.50	109.0	7.90	5.4	7.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR6	18:25:00	3.4	Bottom	3	2	22.20	8.20	32.50	108.9	7.90	5.8	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	1.0	Surface	1	1	22.70	8.10	29.90	103.2	7.50	6.9	5.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	1.0	Surface	1	2	22.70	8.20	29.90	102.8	7.50	6.7	5.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	3.7	Middle	2	1	22.30	8.10	30.80	102.5	7.50	7.1	4.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	3.7	Middle	2	2	22.30	8.20	30.80	102.1	7.40	7.4	4.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	6.3	Bottom	3	1	22.10	8.10	32.30	96.8	7.00	11.8	6.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)3(N)	18:44:00	6.3	Bottom	3	2	22.10	8.20	32.30	96.4	7.00	11.3	7.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	1.0	Surface	1	1	22.50	8.10	30.10	96.0	7.00	8.6	6.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	1.0	Surface	1	2	22.50	8.20	30.10	95.4	6.90	8.3	7.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	4.8	Middle	2	1	22.40	8.10	30.60	92.7	6.70	9.1	6.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	4.8	Middle	2	2	22.40	8.20	30.60	92.2	6.70	9.5	6.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	8.5	Bottom	3	1	22.10	8.00	31.70	84.8	6.20	11.5	7.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR5(N)	19:20:00	8.5	Bottom	3	2	22.10	8.10	31.70	84.1	6.10	11.1	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	1.0	Surface	1	1	22.60	8.10	29.80	99.5	7.20	8.5	9.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	1.0	Surface	1	2	22.60	8.20	29.80	99.3	7.20	8.5	9.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	5.6	Middle	2	1	22.10	8.00	31.60	85.6	6.20	9.7	10.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	5.6	Middle	2	2	22.10	8.10	31.60	85.2	6.20	9.5	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	10.1	Bottom	3	1	22.00	8.00	32.20	86.5	6.30	9.7	11.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS10(N)	19:26:00	10.1	Bottom	3	2	22.10	8.10	32.10	86.0	6.20	9.5	10.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	1.0	Surface	1	1	22.60	8.10	30.10	95.7	7.00	8.5	8.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	1.0	Surface	1	2	22.60	8.20	30.10	95.5	6.90	8.9	9.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	5.7	Middle	2	1	22.10	8.00	31.70	85.2	6.20	7.8	8.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	5.7	Middle	2	2	22.10	8.10	31.70	84.8	6.20	7.7	8.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	10.4	Bottom	3	1	22.00	8.00	32.20	84.7	6.10	8.9	8.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)11	19:32:00	10.4	Bottom	3	2	22.10	8.10	32.20	84.3	6.10	9.1	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	1.0	Surface	1	1	22.30	8.10	31.10	106.9	7.80	1.8	4.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	1.0	Surface	1	2	22.40	8.10	32.40	106.7	7.70	1.8	5.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	6.0	Middle	2	1	22.00	8.10	31.80	100.9	7.30	1.3	8.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	6.0	Middle	2	2	22.00	8.10	33.20	100.5	7.30	1.3	7.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	10.9	Bottom	3	1	22.00	8.00	32.40	96.6	7.00	3.6	8.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	CS(Mf)5	19:49:00	10.9	Bottom	3	2	22.00	8.00	33.80	95.7	6.90	3.6	7.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00	1.0	Surface	1	1	22.50	8.10	30.30	95.0	6.90	6.9	6.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00	1.0	Surface	1	2	22.50	8.20	30.20	94.7	6.90	6.3	6.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00	3.5	Bottom	3	1	22.20	8.00	31.20	88.9	6.50	7.6	8.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR7	19:40:00	3.5	Bottom	3	2	22.20	8.10	31.20	89.0	6.50	7.3	7.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	1.0	Surface	1	1	22.40	8.00	30.30	102.6	7.50	3.7	5.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	1.0	Surface	1	2	22.20	8.00	32.00	102.6	7.50	3.7	5.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	5.5	Middle	2	1	22.20	8.00	30.60	99.3	7.20	4.4	6.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	5.5	Middle	2	2	22.00	8.00	33.30	99.3	7.20	4.4	6.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	9.9	Bottom	3	1	22.00	8.00	31.90	94.4	6.90	4.7	8.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS17	19:30:00	9.9	Bottom	3	2	22.00	8.00	33.30	94.4	6.90	4.7	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00	1.0	Surface	1	1	22.40	8.00	30.50	99.2	7.20	4.5	8.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00	1.0	Surface	1	2	22.40	8.00	31.80	98.5	7.10	4.5	9.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00	4.6	Bottom	3	1	22.10	8.00	31.80	97.3	7.10	4.8	9.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)16	19:22:00	4.6	Bottom	3	2	22.10	8.00	33.20	96.5	7.00	4.8	8.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00	1.0	Surface	1	1	22.30	8.00	30.10	101.6	7.40	3.9	6.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00	1.0	Surface	1	2	22.40	8.00	31.40	101.0	7.30	3.9	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00	3.0	Bottom	3	1	22.40	8.00	30.20	100.7	7.30	4.1	9.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS8	19:01:00	3.0	Bottom	3	2	22.40	8.00	31.50	100.0	7.20	4.1	8.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00	1.0	Surface	1	1	23.30	8.00	28.50	104.4	7.60	5.6	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00	1.0	Surface	1	2	23.40	8.00	29.60	105.2	7.60	5.6	5.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00	2.1	Bottom	3	1	22.70	8.00	29.80	95.4	6.90	6.8	10.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR4(N)	19:07:00	2.1	Bottom	3	2	22.70	8.00	31.10	94.5	6.80	6.8	8.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00	1.5	Middle	2	1	22.40	8.00	30.00	104.4	7.60	7.6	13.1	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00	1.5	Middle	2	2	22.40	8.00	31.40	103.7	7.50	7.6	13.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)9	18:52:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00	1.5	Middle	2	1	22.40	8.00	29.70	103.1	7.50	4.8	8.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00	1.5	Middle	2	2	22.40	8.00	31.00	102.0	7.40	4.8	7.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS7	18:45:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00	1.2	Middle	2	1	22.40	8.00	29.60	101.7	7.40	4.8	6.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00	1.2	Middle	2	2	22.40	8.00	30.90	101.3	7.40	4.8	5.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS(Mf)6	18:39:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	1.0	Surface	1	1	22.40	8.00	30.50	106.6	7.80	5.1	7.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	1.0	Surface	1	2	22.40	8.00	31.70	105.8	7.60	5.1	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	4.8	Middle	2	1	22.00	8.00	31.60	105.3	7.70	5.7	8.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	4.8	Middle	2	2	22.10	8.00	33.00	104.8	7.60	5.7	9.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	8.6	Bottom	3	1	22.00	8.00	31.90	104.1	7.60	6.5	12.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	IS5	18:33:00	8.6	Bottom	3	2	22.00	8.00	33.30	103.1	7.40	6.5	11.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00	1.0	Surface	1	1	22.30	8.00	30.30	101.3	7.40	4.4	6.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00	1.0	Surface	1	2	22.40	8.00	31.70	100.7	7.30	4.4	4.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00	2.6	Bottom	3	1	22.20	8.00	30.60	101.5	7.40	4.6	9.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Ebb	Cloudy	SR3(N)	18:24:00	2.6	Bottom	3	2	22.20	8.00	32.00	101.1	7.30	4.6	10.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	1.0	Surface	1	1	22.00	8.10	33.40	97.3	7.00	3.3	4.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	1.0	Surface	1	2	22.00	8.10	32.00	98.1	7.10	3.3	3.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	5.7	Middle	2	1	22.00	8.10	34.00	97.3	7.00	3.8	2.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	5.7	Middle	2	2	22.00	8.10	32.60	98.3	7.10	3.8	3.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	10.4	Bottom	3	1	22.00	8.10	34.10	98.3	7.10	4.6	4.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10A(N)	6:07:00	10.4	Bottom	3	2	22.00	8.10	32.60	99.2	7.20	4.6	4.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	1.0	Surface	1	1	21.90	8.10	34.10	96.5	6.90	1.7	2.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	1.0	Surface	1	2	21.90	8.10	32.60	97.4	7.10	1.7	4.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	3.3	Middle	2	1	21.90	8.10	34.20	96.5	6.90	2.0	3.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	3.3	Middle	2	2	21.90	8.10	32.70	97.4	7.00	2.0	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	5.6	Bottom	3	1	21.90	8.10	34.40	97.1	7.00	2.3	4.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR10B(N2)	6:16:00	5.6	Bottom	3	2	22.00	8.10	32.90	97.8	7.10	2.3	5.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	1.0	Surface	1	1	21.80	8.00	32.40	90.5	6.60	3.9	2.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	1.0	Surface	1	2	21.90	8.20	32.40	90.2	6.60	4.0	3.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	16.6	Middle	2	1	22.00	8.00	33.30	88.3	6.40	5.3	3.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	16.6	Middle	2	2	22.10	8.20	33.30	87.8	6.30	5.5	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	32.2	Bottom	3	1	22.00	8.00	33.30	86.5	6.20	5.7	5.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CSA	6:25:00	32.2	Bottom	3	2	22.10	8.10	33.30	86.0	6.20	6.1	6.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	1.0	Surface	1	1	21.70	8.00	31.60	91.1	6.70	4.2	4.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	1.0	Surface	1	2	21.70	8.10	31.50	90.7	6.60	4.5	3.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	4.7	Middle	2	1	22.00	8.00	33.00	88.9	6.40	4.9	3.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	4.7	Middle	2	2	22.10	8.10	33.00	88.6	6.40	4.4	3.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	8.4	Bottom	3	1	22.10	8.00	33.00	89.4	6.50	4.9	4.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS6	6:42:00	8.4	Bottom	3	2	22.10	8.10	33.00	88.6	6.40	5.0	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	1.0	Surface	1	1	21.80	8.00	28.10	91.4	6.80	6.7	6.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	1.0	Surface	1	2	21.80	8.10	28.00	90.4	6.80	6.5	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	8.8	Middle	2	1	21.90	8.00	31.80	88.6	6.50	5.6	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	8.8	Middle	2	2	22.00	8.10	31.70	88.0	6.40	5.9	6.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	16.6	Bottom	3	1	22.00	8.00	32.40	88.2	6.40	6.4	9.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS4	7:46:00	16.6	Bottom	3	2	22.00	8.10	32.40	87.3	6.30	6.7	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00	1.0	Surface	1	1	22.00	8.00	29.00	95.6	7.10	6.8	7.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00	1.0	Surface	1	2	22.00	8.10	29.00	94.9	7.00	6.2	7.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00	3.3	Bottom	3	1	21.80	8.10	31.90	95.7	7.00	7.0	8.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR6	8:18:00	3.3	Bottom	3	2	21.80	8.20	31.80	95.3	7.00	7.0	7.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	1.0	Surface	1	1	22.30	8.00	28.40	92.8	6.90	8.9	5.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	1.0	Surface	1	2	22.30	8.10	28.30	92.3	6.80	9.1	6.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	3.6	Middle	2	1	22.00	8.10	30.70	92.8	6.80	12.3	7.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	3.6	Middle	2	2	22.00	8.20	30.70	92.0	6.70	12.0	8.5	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	6.2	Bottom	3	1	22.00	8.10	30.90	93.7	6.80	9.4	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)3(N)	7:58:00	6.2	Bottom	3	2	22.00	8.20	30.90	93.0	6.80	9.8	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	1.0	Surface	1	1	21.90	8.10	31.60	88.4	6.50	5.9	7.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	1.0	Surface	1	2	21.90	8.10	31.50	87.9	6.40	6.1	7.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	4.7	Middle	2	1	22.00	8.00	32.10	86.7	6.30	6.7	6.9	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	4.7	Middle	2	2	22.00	8.10	32.10	86.1	6.30	7.1	7.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	8.4	Bottom	3	1	22.00	8.00	32.30	86.8	6.30	6.9	10.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR5(N)	7:28:00	8.4	Bottom	3	2	22.00	8.10	32.30	86.4	6.30	6.8	9.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	1.0	Surface	1	1	21.70	8.00	30.60	87.6	6.50	6.5	2.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	1.0	Surface	1	2	21.70	8.10	30.60	86.9	6.40	6.9	3.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	5.6	Middle	2	1	22.00	8.00	32.20	86.4	6.30	7.3	4.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	5.6	Middle	2	2	22.10	8.10	32.20	85.7	6.20	7.6	5.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	10.2	Bottom	3	1	22.00	8.00	32.30	88.4	6.40	7.9	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS10(N)	7:24:00	10.2	Bottom	3	2	22.10	8.10	32.30	87.7	6.40	7.9	8.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	1.0	Surface	1	1	21.80	8.00	30.90	88.3	6.50	6.6	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	1.0	Surface	1	2	21.80	8.10	30.80	88.0	6.50	6.6	7.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	5.8	Middle	2	1	22.00	8.00	31.50	86.7	6.30	6.7	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	5.8	Middle	2	2	22.00	8.10	31.50	86.1	6.30	7.0	7.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	10.6	Bottom	3	1	22.00	8.00	32.20	86.6	6.30	7.4	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)11	7:12:00	10.6	Bottom	3	2	22.10	8.10	32.20	86.2	6.20	7.2	7.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	1.0	Surface	1	1	21.90	8.10	32.60	98.1	7.10	1.1	7.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	1.0	Surface	1	2	21.90	8.10	31.20	98.9	7.20	1.1	7.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	6.1	Middle	2	1	22.00	8.10	33.80	96.4	6.90	1.2	8.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	6.1	Middle	2	2	22.00	8.10	32.30	97.1	7.00	1.2	7.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	11.1	Bottom	3	1	22.00	8.10	33.80	96.8	7.00	1.2	8.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	CS(Mf)5	6:47:00	11.1	Bottom	3	2	22.00	8.10	32.30	97.3	7.10	1.2	9.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00	1.0	Surface	1	1	21.60	8.00	31.10	89.4	6.60	5.8	5.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00	1.0	Surface	1	2	21.70	8.10	31.00	89.0	6.50	6.0	6.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00	3.4	Bottom	3	1	21.90	8.00	31.80	90.4	6.60	7.1	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR7	7:02:00	3.4	Bottom	3	2	21.90	8.10	31.50	89.9	6.60	7.5	11.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	1.0	Surface	1	1	21.70	8.10	31.80	99.3	7.30	2.2	9.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	1.0	Surface	1	2	21.60	8.10	30.60	99.6	7.30	2.2	8.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	5.6	Middle	2	1	21.60	8.10	32.00	99.1	7.20	1.9	8.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	5.6	Middle	2	2	22.00	8.10	31.40	96.3	7.00	1.9	9.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	10.1	Bottom	3	1	22.00	8.00	32.80	95.5	6.90	6.1	12.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS17	7:10:00	10.1	Bottom	3	2	22.00	8.00	31.40	96.3	7.00	6.1	12.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00	1.0	Surface	1	1	21.80	8.10	31.50	98.4	7.20	2.8	6.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00	1.0	Surface	1	2	21.80	8.10	30.20	99.0	7.30	2.8	7.8	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00	4.5	Bottom	3	1	22.00	8.10	32.20	97.1	7.00	4.8	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)16	7:21:00	4.5	Bottom	3	2	22.00	8.10	30.80	97.7	7.10	4.8	11.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00	1.0	Surface	1	1	21.70	8.10	31.40	98.1	7.20	3.0	4.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00	1.0	Surface	1	2	21.70	8.10	30.10	98.6	7.30	3.0	5.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00	3.1	Bottom	3	1	21.70	8.10	31.40	96.9	7.10	3.0	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS8	7:43:00	3.1	Bottom	3	2	21.70	8.10	30.10	97.7	7.20	3.0	7.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00	1.0	Surface	1	1	21.80	8.00	31.50	87.3	6.40	5.6	6.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00	1.0	Surface	1	2	21.80	8.00	30.10	88.0	6.50	5.6	5.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00	2.1	Bottom	3	1	21.90	8.00	31.60	87.4	6.40	5.8	8.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR4(N)	7:36:00	2.1	Bottom	3	2	22.00	8.00	30.30	87.3	6.40	5.8	7.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00	1.0	Surface	1	1	21.60	8.00	31.10	94.6	7.00	5.5	8.4	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00	1.0	Surface	1	2	21.60	8.00	29.80	95.3	7.10	5.5	7.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00	2.1	Bottom	3	1	21.60	8.00	31.20	94.8	7.00	5.5	9.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)9	7:51:00	2.1	Bottom	3	2	21.60	8.00	29.80	95.5	7.10	5.5	8.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00	1.4	Middle	2	1	21.20	8.00	30.60	95.5	7.10	6.0	10.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00	1.4	Middle	2	2	21.20	8.00	29.20	96.2	7.20	6.0	10.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00		Bottom	3	1								

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS7	7:59:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00	1.5	Middle	2	1	21.70	8.00	31.10	90.3	6.60	6.0	9.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00	1.5	Middle	2	2	21.70	8.00	29.70	91.0	6.70	6.0	8.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS(Mf)6	8:07:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	1.0	Surface	1	1	21.60	8.00	30.80	92.6	6.80	5.5	7.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	1.0	Surface	1	2	21.60	8.00	29.50	92.8	6.90	5.5	9.2	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	4.7	Middle	2	1	22.00	8.00	32.60	88.9	6.40	7.2	10.3	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	4.7	Middle	2	2	22.00	8.00	31.10	89.6	6.50	7.2	9.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	8.4	Bottom	3	1	22.00	8.00	33.10	88.4	6.40	11.8	10.5	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	IS5	8:14:00	8.4	Bottom	3	2	22.00	8.00	31.70	89.1	6.50	11.8	10.6	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00	1.0	Surface	1	1	21.80	8.00	31.50	90.1	6.60	4.7	10.1	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00	1.0	Surface	1	2	21.70	8.00	30.00	90.9	6.70	4.7	9.7	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00	2.4	Bottom	3	1	21.90	8.00	31.70	90.8	6.60	4.9	11.0	
HKBCF	HY/2013/01	2018-04-09	Mid-Flood	Cloudy	SR3(N)	8:23:00	2.4	Bottom	3	2	21.90	8.00	30.30	91.4	6.70	4.9	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	1.0	Surface	1	1	22.40	8.10	32.00	97.9	7.10	3.1	5.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	1.0	Surface	1	2	22.50	8.00	33.40	97.4	7.00	3.0	3.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	5.7	Middle	2	1	22.40	8.10	32.10	97.4	7.00	1.2	6.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	5.7	Middle	2	2	22.40	8.00	33.60	96.9	6.90	1.2	6.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	10.4	Bottom	3	1	22.40	8.00	32.10	97.4	7.00	1.3	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10A(N)	10:01:00	10.4	Bottom	3	2	22.40	8.00	33.60	97.0	6.90	1.1	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	1.0	Surface	1	1	22.40	8.00	32.10	98.1	7.10	2.0	4.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	1.0	Surface	1	2	22.40	8.00	33.50	97.5	7.00	2.1	3.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	3.3	Middle	2	1	22.40	8.10	32.10	97.9	7.10	2.2	6.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	3.3	Middle	2	2	22.40	8.00	33.60	97.3	7.00	2.3	5.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	5.6	Bottom	3	1	22.40	8.10	32.20	98.1	7.10	2.5	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR10B(N2)	10:08:00	5.6	Bottom	3	2	22.40	8.00	33.60	97.4	7.00	2.2	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	1.0	Surface	1	1	22.90	8.00	31.40	94.4	6.80	10.1	4.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	1.0	Surface	1	2	23.00	8.10	31.30	94.1	6.80	10.5	6.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	16.2	Middle	2	1	22.40	8.00	33.20	87.6	6.30	6.6	6.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	16.2	Middle	2	2	22.40	8.10	33.10	87.0	6.20	7.0	6.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	31.4	Bottom	3	1	22.40	8.00	33.30	86.3	6.20	6.4	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CSA	10:15:00	31.4	Bottom	3	2	22.40	8.10	33.20	86.0	6.20	6.8	8.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	1.0	Surface	1	1	23.10	8.00	27.00	95.5	7.00	8.0	6.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	1.0	Surface	1	2	23.10	8.10	26.90	95.2	7.00	8.5	4.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	4.6	Middle	2	1	23.00	8.10	30.70	96.2	6.90	6.0	5.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	4.6	Middle	2	2	23.00	8.10	30.70	96.2	6.90	6.4	6.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	8.2	Bottom	3	1	22.80	8.00	29.50	95.7	7.00	9.5	7.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS6	10:29:00	8.2	Bottom	3	2	22.90	8.10	29.30	95.6	6.90	9.9	6.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	1.0	Surface	1	1	24.40	8.00	27.30	92.3	6.60	5.5	4.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	1.0	Surface	1	2	24.40	8.10	27.20	92.0	6.60	5.9	5.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	8.4	Middle	2	1	22.50	8.00	31.80	87.4	6.30	5.6	4.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	8.4	Middle	2	2	22.50	8.10	31.80	87.1	6.30	6.0	5.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	15.7	Bottom	3	1	22.30	8.00	32.40	89.0	6.40	6.8	5.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS4	11:38:00	15.7	Bottom	3	2	22.30	8.10	32.30	88.9	6.40	7.2	5.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00	1.0	Surface	1	1	23.40	8.10	25.70	110.8	8.10	3.4	8.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00	1.0	Surface	1	2	23.40	8.20	25.70	110.3	8.10	3.8	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00	3.7	Bottom	3	1	22.80	8.10	29.00	108.9	7.90	2.1	9.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR6	12:08:00	3.7	Bottom	3	2	22.90	8.10	29.00	108.3	7.90	2.6	10.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	1.0	Surface	1	1	23.00	8.00	26.90	95.2	7.00	4.7	8.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	1.0	Surface	1	2	23.00	8.10	26.90	95.0	7.00	5.1	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	3.6	Middle	2	1	22.80	8.00	29.40	94.3	6.90	5.4	9.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	3.6	Middle	2	2	22.80	8.10	29.30	94.3	6.90	5.8	9.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	6.1	Bottom	3	1	22.80	8.00	29.40	95.5	6.90	5.5	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:51:00	6.1	Bottom	3	2	22.90	8.10	29.30	95.3	6.90	5.9	9.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	1.0	Surface	1	1	23.10	8.10	27.20	97.1	7.10	7.6	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	1.0	Surface	1	2	23.10	8.20	27.20	96.8	7.10	8.0	8.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	4.5	Middle	2	1	23.00	8.10	28.60	96.8	7.00	7.6	13.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	4.5	Middle	2	2	23.00	8.10	28.50	96.6	7.00	8.0	13.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	7.9	Bottom	3	1	22.90	8.00	29.90	100.0	7.20	6.7	12.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR5(N)	11:16:00	7.9	Bottom	3	2	22.90	8.10	30.30	100.0	7.20	7.2	12.4	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	1.0	Surface	1	1	23.30	8.10	27.10	93.2	6.80	7.6	10.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	1.0	Surface	1	2	23.30	8.20	27.10	92.7	6.80	8.0	9.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	6.1	Middle	2	1	22.60	8.00	31.40	89.1	6.40	7.7	12.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	6.1	Middle	2	2	22.60	8.10	31.40	88.7	6.40	8.1	12.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	11.2	Bottom	3	1	22.50	8.00	31.70	90.6	6.50	7.9	13.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS10(N)	11:09:00	11.2	Bottom	3	2	22.50	8.10	31.70	90.2	6.50	8.4	13.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	1.0	Surface	1	1	23.40	8.10	27.50	96.1	7.00	8.1	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	1.0	Surface	1	2	23.40	8.20	27.50	95.7	7.00	8.5	10.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	5.9	Middle	2	1	22.50	8.00	31.40	89.6	6.50	7.8	14.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	5.9	Middle	2	2	22.60	8.10	31.40	89.2	6.40	8.2	13.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	10.8	Bottom	3	1	22.50	8.00	31.70	92.4	6.70	4.1	15.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)11	11:01:00	10.8	Bottom	3	2	22.50	8.10	31.70	91.9	6.60	4.5	16.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	1.0	Surface	1	1	22.80	8.10	30.20	108.2	7.80	1.4	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	1.0	Surface	1	2	22.90	8.00	31.50	107.8	7.70	1.6	8.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	6.1	Middle	2	1	22.40	8.10	31.90	97.4	7.00	1.5	11.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	6.1	Middle	2	2	22.40	8.00	33.30	97.1	7.00	1.4	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	11.1	Bottom	3	1	22.40	8.10	32.00	97.5	7.00	2.0	11.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	CS(Mf)5	10:42:00	11.1	Bottom	3	2	22.40	8.00	33.40	97.0	6.90	1.8	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00	1.0	Surface	1	1	23.20	8.10	27.90	96.6	7.00	6.0	7.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00	1.0	Surface	1	2	23.20	8.20	27.90	96.4	7.00	6.4	6.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00	3.6	Bottom	3	1	22.80	8.00	30.40	95.4	6.90	8.5	10.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR7	10:50:00	3.6	Bottom	3	2	22.90	8.10	30.20	95.1	6.90	8.9	11.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	1.0	Surface	1	1	22.80	8.00	29.50	102.9	7.50	3.0	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	1.0	Surface	1	2	22.80	8.00	30.80	103.0	7.40	2.9	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	5.6	Middle	2	1	22.40	8.00	30.90	95.6	6.90	5.0	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	5.6	Middle	2	2	22.50	8.00	32.20	95.4	6.90	5.2	10.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	10.1	Bottom	3	1	22.40	8.10	31.00	98.2	7.10	5.8	11.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS17	11:06:00	10.1	Bottom	3	2	22.40	8.00	32.40	97.8	7.00	5.9	11.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00	1.0	Surface	1	1	22.60	8.00	30.40	105.3	7.60	6.2	10.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00	1.0	Surface	1	2	22.60	8.00	31.80	105.0	7.50	6.5	9.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00	4.5	Bottom	3	1	22.50	8.10	30.60	99.1	7.20	14.3	10.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)16	11:12:00	4.5	Bottom	3	2	22.50	8.00	32.00	98.4	7.10	14.5	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00	1.0	Surface	1	1	23.00	8.00	29.60	110.0	8.00	4.8	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00	1.0	Surface	1	2	23.00	8.00	30.90	109.5	7.90	4.6	10.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00	2.5	Bottom	3	1	22.70	8.00	30.00	102.1	7.40	5.1	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS8	11:33:00	2.5	Bottom	3	2	22.70	8.00	31.30	101.6	7.30	5.2	10.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00	1.0	Surface	1	1	22.90	8.00	29.90	95.0	6.90	4.2	5.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00	1.0	Surface	1	2	22.90	8.00	31.20	94.2	6.80	4.3	6.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00	2.1	Bottom	3	1	22.80	8.00	29.90	94.8	6.90	4.6	7.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR4(N)	11:26:00	2.1	Bottom	3	2	22.80	8.00	31.20	94.0	6.80	4.6	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00	1.0	Surface	1	1	23.00	8.10	29.30	110.2	8.00	4.1	6.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00	1.0	Surface	1	2	23.00	8.10	30.60	109.4	7.90	4.0	5.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00	2.1	Bottom	3	1	22.90	8.10	29.30	109.6	8.00	4.2	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)9	11:41:00	2.1	Bottom	3	2	22.90	8.10	30.60	109.2	7.90	3.9	11.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00	1.4	Middle	2	1	22.90	8.00	29.30	107.5	7.80	3.6	7.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00	1.4	Middle	2	2	23.00	8.00	30.60	107.4	7.70	3.4	6.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS7	11:49:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00	1.2	Middle	2	1	22.90	8.00	28.90	108.0	7.90	4.8	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00	1.2	Middle	2	2	22.90	8.00	30.20	107.4	7.80	4.8	8.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS(Mf)6	11:57:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	1.0	Surface	1	1	23.00	8.00	27.60	110.6	8.10	4.3	9.3	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	1.0	Surface	1	2	23.00	8.00	28.80	110.3	8.00	4.3	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	4.6	Middle	2	1	22.60	8.00	29.80	99.9	7.30	4.8	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	4.6	Middle	2	2	22.60	8.00	31.20	99.2	7.20	4.8	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	8.2	Bottom	3	1	22.60	8.00	30.20	99.4	7.20	6.0	11.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	IS5	12:03:00	8.2	Bottom	3	2	22.60	8.00	31.50	98.6	7.10	6.0	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00	1.0	Surface	1	1	22.90	8.00	28.90	104.2	7.60	5.2	12.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00	1.0	Surface	1	2	22.90	8.00	30.20	103.4	7.50	5.2	12.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00	2.4	Bottom	3	1	22.90	8.00	29.20	103.2	7.50	5.5	12.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Ebb	Cloudy	SR3(N)	12:11:00	2.4	Bottom	3	2	22.90	8.00	30.50	102.6	7.40	5.5	13.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	1.0	Surface	1	1	22.90	8.10	31.20	111.2	8.00	2.1	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	1.0	Surface	1	2	22.90	8.10	32.60	110.8	7.90	2.0	9.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	5.7	Middle	2	1	22.60	8.00	31.70	102.7	7.40	2.4	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	5.7	Middle	2	2	22.60	8.00	33.10	102.0	7.30	2.2	9.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	10.3	Bottom	3	1	22.60	8.00	31.80	104.8	7.50	2.3	9.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10A(N)	15:57:00	10.3	Bottom	3	2	22.60	8.10	33.20	101.6	7.30	2.2	9.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	1.0	Surface	1	1	22.60	8.00	32.50	102.0	7.30	1.5	6.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	1.0	Surface	1	2	22.60	8.10	33.90	101.4	7.20	1.5	8.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	3.4	Middle	2	1	22.60	8.00	32.50	101.7	7.30	1.6	8.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	3.4	Middle	2	2	22.60	8.10	33.90	101.1	7.20	1.6	8.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	5.7	Bottom	3	1	22.50	8.10	32.50	101.5	7.30	1.8	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR10B(N2)	15:53:00	5.7	Bottom	3	2	22.60	8.10	33.90	100.8	7.20	1.8	8.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	1.0	Surface	1	1	23.10	8.10	30.40	97.6	7.00	6.8	8.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	1.0	Surface	1	2	23.20	8.20	30.20	97.3	7.00	7.1	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	16.1	Middle	2	1	22.50	8.10	32.70	88.4	6.30	6.0	8.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	16.1	Middle	2	2	22.50	8.10	32.60	87.7	6.30	6.2	9.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	31.1	Bottom	3	1	22.40	8.00	33.00	88.1	6.30	5.9	10.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CSA	16:10:00	31.1	Bottom	3	2	22.40	8.10	33.00	87.4	6.30	5.7	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	1.0	Surface	1	1	23.30	8.10	29.60	99.2	7.10	6.9	9.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	1.0	Surface	1	2	23.30	8.20	29.60	99.0	7.10	8.2	7.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	4.9	Middle	2	1	22.90	8.00	30.90	95.8	6.90	6.6	9.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	4.9	Middle	2	2	22.90	8.10	30.80	95.7	6.90	6.4	10.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	8.8	Bottom	3	1	22.60	8.00	32.30	93.9	6.70	5.9	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS6	16:00:00	8.8	Bottom	3	2	22.60	8.10	32.10	94.4	6.80	6.3	10.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	1.0	Surface	1	1	23.50	8.00	27.50	96.6	7.00	7.7	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	1.0	Surface	1	2	23.50	8.10	27.50	96.2	7.00	7.8	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	7.7	Middle	2	1	22.60	8.00	31.10	88.7	6.40	7.2	9.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	7.7	Middle	2	2	22.60	8.10	31.00	88.3	6.40	7.8	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	14.3	Bottom	3	1	22.40	8.00	32.10	87.3	6.30	7.5	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS4	14:24:00	14.3	Bottom	3	2	22.40	8.10	32.10	87.1	6.30	8.8	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	1.0	Surface	1	1	24.10	8.30	25.10	120.7	8.80	10.6	10.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	1.0	Surface	1	2	24.00	8.40	25.20	119.8	8.70	10.8	10.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	3.6	Bottom	3	1	22.90	8.00	29.00	99.2	7.20	11.4	11.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	3.6	Bottom	3	2	22.90	8.10	29.00	96.9	7.10	12.0	11.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	3.6	Bottom	3	1	22.80	8.00	30.50	95.2	6.90	8.6	8.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR6	13:57:00	3.6	Bottom	3	2	22.80	8.10	30.40	95.2	6.90	8.3	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	1.0	Surface	1	1	23.30	8.10	27.00	102.4	7.50	9.1	7.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	1.0	Surface	1	2	23.30	8.20	26.90	103.0	7.50	10.0	8.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	3.6	Middle	2	1	23.10	8.10	27.70	97.6	7.10	9.2	8.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	3.6	Middle	2	2	23.10	8.10	27.70	97.5	7.10	9.5	8.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	6.1	Bottom	3	1	22.80	8.00	29.60	96.8	7.00	9.3	9.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)3(N)	14:10:00	6.1	Bottom	3	2	22.80	8.10	29.50	96.8	7.00	9.6	8.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	1.0	Surface	1	1	23.60	8.10	27.40	97.9	7.10	8.5	9.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	1.0	Surface	1	2	23.60	8.10	27.40	97.5	7.10	8.6	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	4.8	Middle	2	1	23.00	8.00	28.90	94.5	6.90	8.9	9.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	4.8	Middle	2	2	23.00	8.10	28.90	94.0	6.80	7.6	9.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	8.6	Bottom	3	1	22.80	8.00	30.50	95.2	6.90	8.6	8.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR5(N)	14:41:00	8.6	Bottom	3	2	22.80	8.10	30.40	95.2	6.90	8.3	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	1.0	Surface	1	1	24.10	8.20	26.70	107.2	7.70	10.1	11.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	1.0	Surface	1	2	24.20	8.30	26.60	106.8	7.70	9.6	12.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	6.4	Middle	2	1	22.90	8.10	29.10	94.5	6.90	9.1	12.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	6.4	Middle	2	2	22.90	8.20	29.10	94.4	6.90	8.7	13.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	11.8	Bottom	3	1	22.80	8.10	30.70	95.6	6.90	9.1	11.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS10(N)	14:51:00	11.8	Bottom	3	2	22.80	8.10	30.70	96.2	6.90	9.3	11.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	1.0	Surface	1	1	24.20	8.20	26.70	100.7	7.30	10.4	11.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	1.0	Surface	1	2	24.20	8.30	26.60	99.8	7.20	10.0	11.0	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	6.5	Middle	2	1	22.60	8.00	31.30	89.8	6.50	10.8	10.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	6.5	Middle	2	2	22.60	8.10	31.20	89.0	6.40	10.6	11.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	12.0	Bottom	3	1	22.50	8.00	31.70	90.5	6.50	11.7	14.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)11	15:14:00	12.0	Bottom	3	2	22.50	8.10	31.60	89.8	6.50	11.8	15.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	1.0	Surface	1	1	23.40	8.10	28.00	118.4	8.60	2.9	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	1.0	Surface	1	2	23.40	8.10	29.20	118.4	8.50	2.8	10.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	5.9	Middle	2	1	22.70	8.10	30.60	103.3	7.50	1.8	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	5.9	Middle	2	2	22.70	8.00	31.90	102.7	7.40	1.7	11.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	10.7	Bottom	3	1	22.40	8.10	31.60	99.7	7.20	2.0	9.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	CS(Mf)5	15:19:00	10.7	Bottom	3	2	22.40	8.00	33.00	98.8	7.10	1.8	9.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00	1.0	Surface	1	1	23.50	8.20	27.20	104.4	7.60	9.7	7.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00	1.0	Surface	1	2	23.50	8.30	27.10	105.2	7.70	9.3	8.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00	3.7	Bottom	3	1	22.60	8.00	31.30	93.4	6.70	12.8	12.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR7	15:29:00	3.7	Bottom	3	2	22.70	8.10	31.20	92.8	6.70	10.8	12.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	1.0	Surface	1	1	23.10	8.10	27.90	112.4	8.20	3.8	14.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	1.0	Surface	1	2	23.20	8.10	29.20	112.3	8.10	3.7	14.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	5.5	Middle	2	1	22.90	8.00	30.00	104.4	7.60	4.6	14.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	5.5	Middle	2	2	22.90	8.00	31.30	103.5	7.40	4.5	15.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	9.9	Bottom	3	1	22.50	8.00	30.90	100.5	7.30	3.8	17.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS17	15:00:00	9.9	Bottom	3	2	22.50	8.00	32.20	99.7	7.20	3.7	16.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00	1.0	Surface	1	1	23.60	8.10	29.60	116.4	8.30	3.5	8.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00	1.0	Surface	1	2	23.60	8.10	30.90	115.9	8.20	3.3	8.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00	4.7	Bottom	3	1	22.70	8.00	30.20	102.7	7.40	5.6	11.8	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)16	14:53:00	4.7	Bottom	3	2	22.70	8.10	31.60	101.9	7.30	5.4	10.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00	1.0	Surface	1	1	23.10	8.00	29.90	113.3	8.20	4.1	8.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00	1.0	Surface	1	2	23.20	8.10	31.10	112.8	8.10	4.3	10.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00	2.7	Bottom	3	1	22.90	8.00	30.00	107.8	7.80	4.5	11.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS8	14:32:00	2.7	Bottom	3	2	22.90	8.00	31.30	107.3	7.70	4.4	12.9	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00	1.0	Surface	1	1	23.60	8.00	28.50	115.4	8.30	5.3	13.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00	1.0	Surface	1	2	23.60	8.10	29.70	114.8	8.20	5.3	13.0	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00	2.1	Bottom	3	1	23.60	8.00	28.40	115.3	8.30	5.0	14.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR4(N)	14:39:00	2.1	Bottom	3	2	23.60	8.10	29.70	114.7	8.20	5.1	15.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00	1.5	Middle	2	1	23.30	8.10	29.30	116.2	8.40	5.3	7.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00	1.5	Middle	2	2	23.30	8.10	30.60	116.0	8.30	5.4	6.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)9	14:24:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00	1.4	Middle	2	1	23.30	8.00	29.10	114.0	8.20	8.1	8.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00	1.4	Middle	2	2	23.30	8.10	30.40	113.0	8.10	7.8	9.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS7	14:17:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00	1.3	Middle	2	1	22.90	8.00	29.20	109.0	7.90	5.7	12.1	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00	1.3	Middle	2	2	22.90	8.00	30.50	108.0	7.80	5.5	10.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS(Mf)6	14:09:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	1.0	Surface	1	1	23.10	8.00	27.80	114.3	8.30	5.7	7.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	1.0	Surface	1	2	23.10	8.00	29.00	114.1	8.30	5.6	6.3	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	4.6	Middle	2	1	22.50	8.00	30.20	99.3	7.20	6.6	9.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	4.6	Middle	2	2	22.50	8.00	31.60	98.7	7.10	6.7	8.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	8.2	Bottom	3	1	22.50	8.00	30.30	99.3	7.20	7.1	10.6	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	IS5	14:03:00	8.2	Bottom	3	2	22.50	8.00	31.60	98.4	7.10	6.9	11.2	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00	1.0	Surface	1	1	22.80	8.00	27.80	106.2	7.80	5.7	10.7	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00	1.0	Surface	1	2	22.80	8.00	29.10	105.9	7.70	5.5	10.5	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00		Middle	2	1								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00	2.2	Bottom	3	1	22.70	8.00	29.90	98.3	7.10	5.7	10.4	
HKBCF	HY/2013/01	2018-04-11	Mid-Flood	Cloudy	SR3(N)	13:56:00	2.2	Bottom	3	2	22.80	8.00	31.20	97.5	7.00	5.5	9.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	1.0	Surface	1	1	23.20	8.10	31.00	93.8	6.70	3.4	7.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	1.0	Surface	1	2	22.80	8.10	31.20	93.6	6.70	3.5	7.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	5.6	Middle	2	1	23.20	8.10	31.20	93.4	6.70	3.3	6.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	5.6	Middle	2	2	22.70	8.10	31.40	93.1	6.70	3.4	6.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	10.2	Bottom	3	1	23.20	8.10	31.30	93.3	6.70	3.4	13.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10A(N)	10:20:00	10.2	Bottom	3	2	22.70	8.10	31.50	93.0	6.70	3.5	12.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	1.0	Surface	1	1	23.30	8.10	31.00	94.2	6.70	2.4	8.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	1.0	Surface	1	2	22.80	8.20	31.20	93.7	6.70	2.4	8.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	3.2	Middle	2	1	23.20	8.10	31.10	93.9	6.70	2.4	8.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	3.2	Middle	2	2	22.80	8.20	31.30	93.2	6.70	2.4	9.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	5.3	Bottom	3	1	23.20	8.10	31.10	94.7	6.80	2.8	9.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR10B(N2)	10:25:00	5.3	Bottom	3	2	22.80	8.20	31.30	93.3	6.70	2.8	9.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	1.0	Surface	1	1	24.00	8.10	29.20	97.9	7.00	7.7	7.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	1.0	Surface	1	2	23.90	8.10	29.20	97.9	7.00	7.4	6.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	16.6	Middle	2	1	22.80	8.10	32.40	87.0	6.20	7.5	8.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	16.6	Middle	2	2	22.80	8.00	32.40	87.3	6.20	7.8	7.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	32.2	Bottom	3	1	22.80	8.10	32.50	86.6	6.20	7.8	10.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CSA	10:45:00	32.2	Bottom	3	2	22.80	8.00	32.50	86.8	6.20	7.7	8.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	1.0	Surface	1	1	24.10	8.20	28.60	101.5	7.30	7.5	7.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	1.0	Surface	1	2	24.10	8.10	28.60	101.7	7.30	7.4	6.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	4.8	Middle	2	1	23.20	8.10	30.20	91.2	6.50	7.3	8.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	4.8	Middle	2	2	23.20	8.10	30.30	91.7	6.60	7.6	7.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	8.5	Bottom	3	1	22.90	8.10	32.00	90.5	6.50	6.8	8.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS6	11:00:00	8.5	Bottom	3	2	22.90	8.00	32.10	90.7	6.50	6.7	8.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	1.0	Surface	1	1	24.00	8.10	26.30	95.0	6.90	10.9	9.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	1.0	Surface	1	2	24.00	8.00	26.40	95.2	6.90	10.6	8.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	8.9	Middle	2	1	23.10	8.10	30.60	85.1	6.10	9.2	12.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	8.9	Middle	2	2	23.00	8.00	30.70	85.5	6.10	9.5	11.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	16.7	Bottom	3	1	22.90	8.10	31.30	84.3	6.00	12.1	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS4	12:08:00	16.7	Bottom	3	2	22.90	8.00	31.30	84.9	6.10	12.3	12.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00	1.0	Surface	1	1	23.90	8.20	26.80	106.0	7.70	9.4	7.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00	1.0	Surface	1	2	23.90	8.10	26.90	106.4	7.70	11.4	7.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00	3.3	Bottom	3	1	23.20	8.20	27.70	100.4	7.30	11.1	12.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR6	12:40:00	3.3	Bottom	3	2	23.20	8.10	27.60	100.6	7.30	10.3	12.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	1.0	Surface	1	1	24.10	8.20	26.40	101.4	7.30	10.3	6.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	1.0	Surface	1	2	24.10	8.10	26.50	101.8	7.40	10.8	7.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	3.6	Middle	2	1	23.60	8.20	27.00	96.7	7.00	10.6	10.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	3.6	Middle	2	2	23.50	8.10	27.10	97.1	7.10	12.9	9.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	6.2	Bottom	3	1	23.40	8.20	27.70	95.4	6.90	13.0	13.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:21:00	6.2	Bottom	3	2	23.40	8.10	27.80	95.8	7.00	11.5	12.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	1.0	Surface	1	1	24.10	8.30	27.20	101.6	7.30	11.3	10.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	1.0	Surface	1	2	24.10	8.20	27.20	102.0	7.30	11.4	11.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	4.8	Middle	2	1	23.40	8.20	28.80	92.2	6.70	9.6	10.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	4.8	Middle	2	2	23.40	8.10	28.90	92.7	6.70	9.5	11.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	8.6	Bottom	3	1	23.30	8.10	29.50	91.1	6.60	15.4	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR5(N)	11:46:00	8.6	Bottom	3	2	23.30	8.00	29.50	91.7	6.60	15.8	12.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	1.0	Surface	1	1	24.40	8.30	26.90	112.3	8.10	10.3	11.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	1.0	Surface	1	2	24.40	8.20	27.00	113.0	8.10	10.3	11.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	5.7	Middle	2	1	23.60	8.30	27.90	100.3	7.30	11.4	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	5.7	Middle	2	2	23.60	8.20	27.90	100.9	7.30	11.4	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	10.4	Bottom	3	1	23.40	8.10	29.10	96.2	6.90	8.9	12.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS10(N)	11:40:00	10.4	Bottom	3	2	23.40	8.10	29.20	96.8	7.00	8.5	12.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	1.0	Surface	1	1	24.10	8.30	27.10	107.4	7.70	10.2	11.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	1.0	Surface	1	2	24.10	8.20	27.10	107.7	7.80	10.1	12.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	5.8	Middle	2	1	23.40	8.20	29.00	94.1	6.80	8.9	16.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	5.8	Middle	2	2	23.40	8.10	29.10	94.5	6.80	8.7	15.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	10.5	Bottom	3	1	23.20	8.10	30.00	92.1	6.60	9.4	17.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)11	11:32:00	10.5	Bottom	3	2	23.20	8.00	30.10	92.5	6.70	9.3	16.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	1.0	Surface	1	1	23.60	8.10	29.10	103.4	7.40	1.7	6.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	1.0	Surface	1	2	23.20	8.20	29.30	102.7	7.40	1.7	7.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	6.0	Middle	2	1	23.30	8.10	30.30	93.7	6.70	2.5	7.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	6.0	Middle	2	2	22.90	8.20	30.50	93.0	6.70	2.5	6.4	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	10.9	Bottom	3	1	23.20	8.10	30.50	94.5	6.80	2.7	6.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	CS(Mf)5	10:58:00	10.9	Bottom	3	2	22.80	8.20	30.80	93.7	6.80	2.7	6.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00	1.0	Surface	1	1	24.30	8.30	26.90	108.7	7.80	8.3	9.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00	1.0	Surface	1	2	24.30	8.20	26.90	109.1	7.80	8.4	8.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00	3.4	Bottom	3	1	23.60	8.20	28.60	100.7	7.30	7.0	13.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR7	11:24:00	3.4	Bottom	3	2	23.60	8.10	28.60	101.0	7.30	7.4	12.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	1.0	Surface	1	1	24.10	8.20	28.00	105.3	7.50	3.2	8.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	1.0	Surface	1	2	23.70	8.20	28.20	105.2	7.60	3.2	7.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	5.0	Middle	2	1	23.60	8.10	28.80	100.2	7.20	4.6	8.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	5.0	Middle	2	2	23.20	8.20	28.90	100.1	7.20	4.6	7.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	9.0	Bottom	3	1	23.50	8.10	29.20	95.6	6.90	4.4	9.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS17	11:23:00	9.0	Bottom	3	2	23.00	8.20	29.40	94.8	6.90	4.4	9.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00	1.0	Surface	1	1	23.90	8.20	28.20	104.2	7.50	2.3	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00	1.0	Surface	1	2	23.40	8.20	28.30	103.6	7.50	2.3	12.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00	4.5	Bottom	3	1	23.70	8.20	28.50	103.5	7.40	1.6	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)16	11:30:00	4.5	Bottom	3	2	23.30	8.20	28.70	102.7	7.40	1.6	12.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00	1.0	Surface	1	1	24.30	8.20	27.50	120.6	8.60	4.7	9.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00	1.0	Surface	1	2	23.90	8.30	27.60	120.3	8.70	5.6	8.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00	3.2	Bottom	3	1	24.20	8.20	27.70	113.4	8.10	5.6	13.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS8	11:52:00	3.2	Bottom	3	2	23.70	8.30	27.80	113.7	8.20	6.4	12.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00	1.0	Surface	1	1	24.60	8.20	27.40	111.7	8.00	4.1	8.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00	1.0	Surface	1	2	24.20	8.20	27.60	111.3	8.00	4.9	9.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00	2.3	Bottom	3	1	24.60	8.20	27.50	107.0	7.60	4.2	12.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR4(N)	11:46:00	2.3	Bottom	3	2	24.10	8.30	27.60	105.6	7.60	5.2	11.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00	1.0	Surface	1	1	24.60	8.30	27.20	125.8	9.00	4.0	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00	1.0	Surface	1	2	24.20	8.30	27.40	123.6	8.90	4.7	13.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00	2.1	Bottom	3	1	24.40	8.30	27.40	120.4	8.60	7.8	16.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)9	11:58:00	2.1	Bottom	3	2	24.00	8.30	27.50	120.0	8.60	8.5	15.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00	1.4	Middle	2	1	24.60	8.30	27.30	128.0	9.10	3.2	12.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00	1.4	Middle	2	2	24.20	8.40	27.50	128.1	9.20	3.2	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS7	12:07:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00	1.3	Middle	2	1	24.50	8.20	27.80	113.7	8.10	6.1	11.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00	1.3	Middle	2	2	24.00	8.30	28.00	113.0	8.10	7.2	10.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS(Mf)6	12:15:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	1.0	Surface	1	1	24.20	8.30	27.50	113.7	8.10	5.2	10.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	1.0	Surface	1	2	23.80	8.30	27.60	112.9	8.10	6.1	10.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	4.7	Middle	2	1	24.20	8.20	27.60	111.4	8.00	5.9	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	4.7	Middle	2	2	23.80	8.30	27.80	110.8	8.00	7.0	11.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	8.4	Bottom	3	1	24.20	8.20	27.70	112.0	8.00	6.4	14.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	IS5	12:21:00	8.4	Bottom	3	2	23.80	8.30	27.80	111.2	8.00	7.6	16.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00	1.0	Surface	1	1	24.50	8.30	27.70	113.3	8.10	5.0	10.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00	1.0	Surface	1	2	24.10	8.30	27.90	113.0	8.10	6.0	11.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00	2.4	Bottom	3	1	24.50	8.30	27.70	112.0	8.00	5.0	13.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Ebb	Cloudy	SR3(N)	12:30:00	2.4	Bottom	3	2	24.10	8.20	27.90	111.9	8.00	5.9	12.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	1.0	Surface	1	1	23.80	8.20	29.90	102.9	7.30	2.2	7.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	1.0	Surface	1	2	23.30	8.20	30.00	102.8	7.40	2.2	6.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	5.6	Middle	2	1	23.60	8.20	30.40	96.3	6.90	2.8	7.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	5.6	Middle	2	2	23.10	8.20	30.60	95.8	6.90	2.9	7.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	10.1	Bottom	3	1	23.40	8.20	30.60	95.4	6.80	3.8	9.0	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10A(N)	17:43:00	10.1	Bottom	3	2	23.00	8.20	30.80	95.9	6.90	3.7	10.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	1.0	Surface	1	1	23.50	8.20	31.00	95.7	6.80	2.6	12.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	1.0	Surface	1	2	23.00	8.20	31.20	95.2	6.80	2.6	12.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	3.1	Middle	2	1	23.40	8.20	31.00	95.7	6.80	2.6	11.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	3.1	Middle	2	2	23.00	8.20	31.20	95.2	6.80	2.6	12.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	5.1	Bottom	3	1	23.40	8.20	31.00	95.9	6.80	2.8	14.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR10B(N2)	17:39:00	5.1	Bottom	3	2	23.00	8.20	31.20	95.4	6.80	2.8	13.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	1.0	Surface	1	1	23.80	8.20	28.60	97.0	7.00	7.5	8.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	1.0	Surface	1	2	23.80	8.10	28.60	97.5	7.00	7.3	7.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	16.8	Middle	2	1	23.00	8.10	31.30	88.1	6.30	6.8	7.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	16.8	Middle	2	2	23.00	8.10	31.40	88.9	6.40	6.7	8.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	32.5	Bottom	3	1	22.90	8.10	32.10	85.3	6.10	7.8	9.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CSA	17:32:00	32.5	Bottom	3	2	22.90	8.00	32.10	86.3	6.20	7.6	9.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	1.0	Surface	1	1	24.10	8.20	28.00	100.5	7.20	7.9	7.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	1.0	Surface	1	2	24.10	8.10	28.00	100.9	7.20	7.7	7.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	4.8	Middle	2	1	24.00	8.20	28.40	97.0	7.00	7.7	8.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	4.8	Middle	2	2	24.00	8.10	28.40	97.5	7.00	7.8	7.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	8.6	Bottom	3	1	23.20	8.10	30.50	91.0	6.50	9.6	7.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS6	17:21:00	8.6	Bottom	3	2	23.20	8.00	30.50	91.9	6.60	9.7	6.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	1.0	Surface	1	1	24.40	8.10	26.40	97.2	7.00	9.7	9.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	1.0	Surface	1	2	24.40	8.00	26.40	97.8	7.00	9.8	9.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	8.8	Middle	2	1	23.10	8.10	30.20	85.2	6.10	12.7	9.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	8.8	Middle	2	2	23.10	8.00	30.30	85.8	6.20	12.8	8.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	16.5	Bottom	3	1	23.00	8.10	31.00	84.9	6.10	15.3	9.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS4	16:14:00	16.5	Bottom	3	2	23.00	8.00	31.10	85.4	6.10	15.2	8.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00	1.0	Surface	1	1	24.20	8.20	26.70	109.0	7.90	10.5	7.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00	1.0	Surface	1	2	24.20	8.10	26.80	109.4	7.90	10.6	8.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00	3.4	Bottom	3	1	23.70	8.20	27.40	98.8	7.20	12.5	10.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR6	15:40:00	3.4	Bottom	3	2	23.70	8.10	27.40	99.4	7.20	12.6	11.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	1.0	Surface	1	1	24.50	8.10	26.00	105.8	7.60	10.9	9.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	1.0	Surface	1	2	24.50	8.10	26.00	106.4	7.70	10.7	9.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	3.6	Middle	2	1	24.40	8.10	26.00	102.1	7.40	11.1	10.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	3.6	Middle	2	2	24.40	8.10	26.10	102.2	7.40	10.7	9.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	6.2	Bottom	3	1	23.70	8.10	27.60	94.2	6.80	11.0	9.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)3(N)	15:58:00	6.2	Bottom	3	2	23.70	8.00	27.70	94.8	6.90	11.3	10.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	1.0	Surface	1	1	24.20	8.20	27.00	101.7	7.30	9.2	7.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	1.0	Surface	1	2	24.20	8.10	27.10	102.3	7.40	9.4	7.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	4.7	Middle	2	1	23.70	8.20	27.40	99.1	7.20	9.6	7.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	4.7	Middle	2	2	23.70	8.10	27.40	99.9	7.20	9.8	7.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	8.4	Bottom	3	1	23.60	8.20	27.90	100.7	7.30	10.5	7.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR5(N)	16:35:00	8.4	Bottom	3	2	23.60	8.20	28.00	101.4	7.30	10.4	7.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	1.0	Surface	1	1	24.30	8.30	27.20	112.6	8.10	9.4	5.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	1.0	Surface	1	2	24.30	8.20	27.20	113.1	8.10	9.6	6.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	5.7	Middle	2	1	23.90	8.30	27.90	106.4	7.70	13.3	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	5.7	Middle	2	2	23.90	8.20	28.00	107.0	7.70	13.5	10.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	10.3	Bottom	3	1	23.90	8.30	28.70	103.3	7.40	15.9	11.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS10(N)	16:42:00	10.3	Bottom	3	2	23.90	8.20	28.70	103.8	7.40	15.8	12.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	1.0	Surface	1	1	24.30	8.30	28.50	113.8	8.10	10.8	9.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	1.0	Surface	1	2	24.30	8.20	28.50	114.3	8.10	10.8	9.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	5.8	Middle	2	1	23.70	8.20	29.30	98.2	7.00	12.6	10.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	5.8	Middle	2	2	23.70	8.10	29.30	98.7	7.10	12.5	9.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	10.5	Bottom	3	1	23.60	8.20	29.40	96.3	6.90	13.3	11.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)11	16:48:00	10.5	Bottom	3	2	23.50	8.10	29.50	97.0	7.00	13.2	10.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	1.0	Surface	1	1	24.50	8.30	26.90	115.3	8.30	2.5	5.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	1.0	Surface	1	2	24.00	8.30	27.10	115.3	8.30	2.4	5.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	5.9	Middle	2	1	23.90	8.30	29.00	105.3	7.50	4.0	6.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	5.9	Middle	2	2	23.40	8.20	29.10	105.1	7.60	3.9	7.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	10.8	Bottom	3	1	23.50	8.30	30.00	98.1	7.00	6.3	9.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	CS(Mf)5	17:05:00	10.8	Bottom	3	2	23.00	8.20	30.20	97.2	7.00	6.3	8.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00	1.0	Surface	1	1	24.10	8.20	28.10	96.1	6.90	9.9	5.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00	1.0	Surface	1	2	24.10	8.10	28.10	96.8	6.90	10.1	5.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00	3.3	Bottom	3	1	23.10	8.10	30.50	88.9	6.40	12.4	11.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR7	16:58:00	3.3	Bottom	3	2	23.10	8.00	30.50	89.3	6.40	12.5	12.6	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	1.0	Surface	1	1	24.60	8.20	27.70	120.5	8.60	3.3	7.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	1.0	Surface	1	2	24.10	8.20	27.90	121.4	8.70	3.3	7.8	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	5.0	Middle	2	1	23.90	8.20	28.50	107.5	7.70	4.9	7.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	5.0	Middle	2	2	23.40	8.20	28.70	108.1	7.80	4.8	6.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	9.0	Bottom	3	1	23.70	8.20	28.80	97.8	7.00	6.1	9.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS17	16:44:00	9.0	Bottom	3	2	23.30	8.20	29.00	99.7	7.20	6.1	10.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00	1.0	Surface	1	1	24.70	8.30	27.70	126.4	9.00	6.1	11.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00	1.0	Surface	1	2	24.20	8.30	27.90	126.9	9.10	6.1	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00	4.6	Bottom	3	1	24.30	8.30	27.90	116.6	8.30	7.4	11.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)16	16:38:00	4.6	Bottom	3	2	23.80	8.30	28.10	117.1	8.40	7.5	12.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00	1.0	Surface	1	1	24.10	8.20	28.00	112.1	8.00	8.9	12.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00	1.0	Surface	1	2	23.60	8.20	28.20	112.0	8.10	9.0	11.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00	3.1	Bottom	3	1	24.10	8.20	28.00	106.1	7.60	9.7	11.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS8	16:18:00	3.1	Bottom	3	2	23.60	8.20	28.30	105.2	7.60	9.6	11.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00	1.0	Surface	1	1	24.20	8.20	28.10	105.5	7.50	12.0	14.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00	1.0	Surface	1	2	23.70	8.20	28.30	105.2	7.60	12.0	14.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00	2.1	Bottom	3	1	24.20	8.20	28.10	106.0	7.60	13.3	15.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR4(N)	16:23:00	2.1	Bottom	3	2	23.70	8.20	28.30	105.8	7.60	13.4	16.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00	1.5	Middle	2	1	25.10	8.30	27.70	129.1	9.10	8.1	12.3	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00	1.5	Middle	2	2	24.60	8.30	27.90	131.2	9.30	8.1	12.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)9	16:10:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00	1.3	Middle	2	1	25.40	8.40	27.30	139.1	9.80	3.9	9.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00	1.3	Middle	2	2	24.90	8.40	27.50	138.7	9.80	4.0	8.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS7	16:01:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00	1.2	Middle	2	1	25.40	8.30	27.40	138.3	9.70	12.1	10.4	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00	1.2	Middle	2	2	24.90	8.40	27.60	140.7	10.00	12.2	9.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS(Mf)6	15:53:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	1.0	Surface	1	1	24.60	8.20	27.50	123.4	8.80	5.9	10.0	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	1.0	Surface	1	2	24.10	8.30	27.70	123.5	8.90	5.9	11.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	4.8	Middle	2	1	24.40	8.20	27.60	111.6	8.00	10.4	12.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	4.8	Middle	2	2	23.90	8.20	27.80	111.0	8.00	10.5	11.5	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	8.6	Bottom	3	1	24.40	8.20	27.60	111.9	8.00	11.2	14.1	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	IS5	15:45:00	8.6	Bottom	3	2	23.90	8.30	27.80	111.1	8.00	11.3	14.9	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00	1.0	Surface	1	1	24.50	8.20	27.30	117.5	8.40	6.7	12.6	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00	1.0	Surface	1	2	24.00	8.30	27.50	116.6	8.40	6.7	13.7	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00	2.6	Bottom	3	1	24.40	8.20	27.40	117.1	8.40	6.4	12.2	
HKBCF	HY/2013/01	2018-04-13	Mid-Flood	Cloudy	SR3(N)	15:39:00	2.6	Bottom	3	2	23.90	8.30	27.60	116.2	8.40	6.5	12.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	1.0	Surface	1	1	22.90	8.20	29.70	90.2	6.50	2.5	5.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	1.0	Surface	1	2	23.20	8.20	29.50	90.8	6.50	2.3	5.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	5.7	Middle	2	1	22.90	8.20	30.60	90.3	6.50	2.7	6.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	5.7	Middle	2	2	23.20	8.20	30.40	91.1	6.50	2.5	7.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	10.3	Bottom	3	1	22.90	8.20	30.60	92.9	6.70	3.1	11.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10A(N)	14:29:00	10.3	Bottom	3	2	23.20	8.20	30.50	93.7	6.70	2.6	12.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	1.0	Surface	1	1	22.90	8.20	30.70	89.8	6.50	2.2	6.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	1.0	Surface	1	2	23.20	8.20	30.50	90.4	6.50	2.5	7.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	3.3	Middle	2	1	22.80	8.20	30.70	89.9	6.50	3.1	12.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	3.3	Middle	2	2	23.20	8.20	30.60	90.6	6.50	2.8	11.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	5.6	Bottom	3	1	22.80	8.20	30.70	90.4	6.50	3.2	13.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR10B(N2)	13:24:00	5.6	Bottom	3	2	23.20	8.20	30.60	91.1	6.50	3.0	12.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	1.0	Surface	1	1	23.00	8.20	29.70	94.2	6.80	8.7	8.9	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	1.0	Surface	1	2	23.00	8.10	29.80	94.9	6.90	8.4	8.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	16.6	Middle	2	1	23.00	8.20	32.70	91.0	6.50	7.0	8.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	16.6	Middle	2	2	22.90	8.00	32.70	91.7	6.50	7.1	9.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	32.2	Bottom	3	1	22.90	8.20	32.90	90.5	6.40	7.8	8.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CSA	13:05:00	32.2	Bottom	3	2	22.90	8.00	32.90	91.4	6.50	7.7	8.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	1.0	Surface	1	1	23.20	8.10	30.20	94.2	6.80	8.1	7.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	1.0	Surface	1	2	23.10	8.00	30.30	95.0	6.80	8.1	6.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	4.7	Middle	2	1	23.00	8.10	31.70	93.8	6.70	7.2	7.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	4.7	Middle	2	2	23.00	8.00	31.60	94.7	6.80	7.2	9.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	8.3	Bottom	3	1	23.00	8.10	32.40	94.8	6.80	7.8	8.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS6	12:58:00	8.3	Bottom	3	2	23.00	8.00	32.50	95.6	6.80	7.9	8.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	1.0	Surface	1	1	23.10	8.20	29.50	93.7	6.80	10.3	8.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	1.0	Surface	1	2	23.10	8.00	29.60	94.2	6.80	10.1	9.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	8.8	Middle	2	1	23.20	8.10	31.20	91.0	6.50	10.6	8.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	8.8	Middle	2	2	23.10	8.00	31.20	91.7	6.60	10.5	8.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	16.5	Bottom	3	1	23.10	8.10	31.90	91.4	6.50	10.3	14.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS4	12:02:00	16.5	Bottom	3	2	23.10	8.00	32.00	92.0	6.60	10.6	14.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00	1.0	Surface	1	1	22.50	8.20	31.80	100.3	7.20	13.2	12.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00	1.0	Surface	1	2	22.50	8.10	31.80	101.1	7.30	13.3	12.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00	3.4	Bottom	3	1	22.50	8.20	32.10	101.0	7.30	14.4	18.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR6	11:35:00	3.4	Bottom	3	2	22.50	8.10	32.20	101.8	7.30	14.8	17.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	1.0	Surface	1	1	22.90	8.20	28.70	97.2	7.10	9.2	11.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	1.0	Surface	1	2	22.80	8.10	28.70	97.9	7.10	9.7	13.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	3.6	Middle	2	1	22.80	8.20	29.40	97.5	7.10	9.9	12.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	3.6	Middle	2	2	22.80	8.10	29.40	98.2	7.10	10.2	13.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	6.1	Bottom	3	1	22.70	8.20	29.90	99.4	7.20	11.0	13.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:47:00	6.1	Bottom	3	2	22.70	8.10	30.00	100.3	7.30	11.2	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	1.0	Surface	1	1	23.10	8.20	28.40	93.6	6.80	10.6	8.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	1.0	Surface	1	2	23.00	8.00	28.50	94.5	6.90	10.4	9.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	4.7	Middle	2	1	23.20	8.20	28.80	92.5	6.70	11.9	12.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	4.7	Middle	2	2	23.20	8.00	28.90	93.3	6.80	11.9	13.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	8.4	Bottom	3	1	23.20	8.10	30.80	92.4	6.60	14.9	14.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR5(N)	12:18:00	8.4	Bottom	3	2	23.20	8.00	30.80	93.1	6.70	14.7	14.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	1.0	Surface	1	1	23.10	8.20	28.60	93.8	6.80	11.1	9.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	1.0	Surface	1	2	23.10	8.00	28.60	94.6	6.90	11.1	10.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	5.6	Middle	2	1	23.20	8.20	29.10	92.1	6.70	13.0	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	5.6	Middle	2	2	23.20	8.00	29.20	92.8	6.70	13.4	12.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	10.1	Bottom	3	1	23.20	8.10	31.60	92.9	6.60	13.2	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS10(N)	12:24:00	10.1	Bottom	3	2	23.10	8.00	31.70	93.5	6.70	13.6	13.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	1.0	Surface	1	1	23.00	8.20	28.20	93.3	6.80	9.4	8.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	1.0	Surface	1	2	23.00	8.00	28.20	93.9	6.90	9.4	7.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	5.8	Middle	2	1	23.20	8.10	29.60	92.1	6.60	10.5	9.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	5.8	Middle	2	2	23.20	8.00	29.60	92.9	6.70	10.3	9.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	10.5	Bottom	3	1	23.20	8.10	31.20	92.5	6.60	10.4	12.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)11	12:29:00	10.5	Bottom	3	2	23.10	8.00	31.20	93.3	6.70	10.4	13.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	1.0	Surface	1	1	23.10	8.20	29.40	88.2	6.40	3.2	7.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	1.0	Surface	1	2	23.40	8.10	29.30	88.4	6.40	2.7	7.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	6.0	Middle	2	1	23.10	8.20	30.30	87.6	6.30	3.4	7.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	6.0	Middle	2	2	23.50	8.10	30.10	87.9	6.30	2.9	6.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	10.9	Bottom	3	1	23.10	8.20	30.80	87.5	6.30	5.2	8.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	CS(Mf)5	12:55:00	10.9	Bottom	3	2	23.40	8.10	30.60	87.7	6.30	4.3	8.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00	1.0	Surface	1	1	23.10	8.20	29.20	97.0	7.00	10.6	6.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00	1.0	Surface	1	2	23.10	8.00	29.20	97.7	7.10	10.5	6.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00	3.5	Bottom	3	1	23.10	8.20	29.50	100.8	7.30	11.0	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR7	12:39:00	3.5	Bottom	3	2	23.10	8.00	29.60	101.3	7.30	11.4	10.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	1.0	Surface	1	1	23.00	8.20	28.60	88.9	6.50	6.6	12.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	1.0	Surface	1	2	23.40	8.10	29.40	89.3	6.40	8.0	13.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	5.3	Middle	2	1	23.10	8.20	29.50	88.4	6.40	8.6	13.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	5.3	Middle	2	2	23.40	8.10	29.80	92.3	6.60	7.8	14.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	9.6	Bottom	3	1	23.10	8.20	29.90	91.5	6.60	9.3	15.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS17	12:38:00	9.6	Bottom	3	2	23.40	8.10	29.70	92.7	6.70	7.6	14.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00	1.0	Surface	1	1	23.10	8.20	27.70	89.6	6.60	5.3	10.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00	1.0	Surface	1	2	23.40	8.10	27.60	90.3	6.60	4.7	10.8	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00	4.8	Bottom	3	1	23.00	8.20	29.60	92.5	6.70	4.1	10.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)16	12:31:00	4.8	Bottom	3	2	23.40	8.10	29.70	93.2	6.70	3.6	9.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00	1.0	Surface	1	1	23.00	8.20	27.40	90.3	6.60	4.8	8.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00	1.0	Surface	1	2	23.40	8.10	27.30	91.0	6.60	4.0	9.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00	3.3	Bottom	3	1	23.00	8.20	27.50	91.3	6.70	6.5	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS8	12:11:00	3.3	Bottom	3	2	23.30	8.10	27.40	92.2	6.70	5.7	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00	1.0	Surface	1	1	22.90	8.20	27.40	88.0	6.50	5.5	10.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00	1.0	Surface	1	2	23.30	8.10	27.30	87.9	6.40	4.9	10.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00	2.6	Bottom	3	1	22.90	8.20	27.40	89.7	6.60	5.5	12.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR4(N)	12:17:00	2.6	Bottom	3	2	23.20	8.10	27.30	92.6	6.80	5.0	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00	1.0	Surface	1	1	22.90	8.20	27.40	89.8	6.60	5.6	7.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00	1.0	Surface	1	2	23.30	8.10	27.30	90.4	6.60	4.7	8.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00	2.9	Bottom	3	1	22.90	8.20	27.40	90.1	6.60	5.6	11.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)9	12:04:00	2.9	Bottom	3	2	23.30	8.10	27.30	90.8	6.60	4.8	12.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00	1.0	Surface	1	1	23.00	8.20	27.30	90.4	6.60	4.7	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00	1.0	Surface	1	2	23.40	8.10	27.20	91.1	6.60	4.2	11.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00	2.6	Bottom	3	1	23.00	8.20	27.30	91.1	6.70	4.6	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS7	11:57:00	2.6	Bottom	3	2	23.30	8.10	27.20	91.7	6.70	4.8	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00	1.4	Middle	2	1	23.10	8.20	27.60	88.2	6.40	9.3	14.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00	1.4	Middle	2	2	23.50	8.10	27.40	88.8	6.50	8.8	15.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS(Mf)6	11:50:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	1.0	Surface	1	1	23.10	8.20	27.70	86.8	6.30	7.3	12.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	1.0	Surface	1	2	23.50	8.10	27.50	87.2	6.30	6.7	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	4.8	Middle	2	1	23.10	8.20	27.70	86.7	6.30	8.6	18.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	4.8	Middle	2	2	23.50	8.10	27.60	87.3	6.30	7.2	17.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	8.6	Bottom	3	1	23.10	8.20	27.70	87.0	6.40	10.1	17.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	IS5	11:43:00	8.6	Bottom	3	2	23.40	8.10	27.60	87.7	6.40	8.6	17.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00	1.0	Surface	1	1	23.10	8.20	27.60	86.4	6.30	6.9	10.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00	1.0	Surface	1	2	23.50	8.10	27.50	86.8	6.30	6.0	11.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00	2.6	Bottom	3	1	23.10	8.20	27.60	86.5	6.30	7.4	11.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Ebb	Cloudy	SR3(N)	11:35:00	2.6	Bottom	3	2	23.50	8.10	27.50	87.0	6.30	6.6	11.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	1.0	Surface	1	1	23.50	8.00	28.00	92.0	6.70	2.0	9.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	1.0	Surface	1	2	23.50	8.00	28.10	91.9	6.70	2.0	8.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	5.7	Middle	2	1	23.50	8.00	28.90	90.9	6.50	2.1	8.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	5.7	Middle	2	2	23.50	8.00	29.00	90.9	6.50	2.1	9.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	10.4	Bottom	3	1	23.50	8.00	29.40	91.0	6.50	2.4	13.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10A(N)	5:48:00	10.4	Bottom	3	2	23.50	8.00	29.40	91.1	6.50	2.3	12.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	1.0	Surface	1	1	23.40	8.10	31.00	89.8	6.40	3.7	8.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	1.0	Surface	1	2	23.40	8.10	31.00	89.8	6.40	3.8	7.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	3.3	Middle	2	1	23.40	8.10	31.00	90.2	6.40	3.9	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	3.3	Middle	2	2	23.40	8.10	31.00	90.4	6.40	4.2	11.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	5.6	Bottom	3	1	23.40	8.10	31.00	91.3	6.50	4.4	14.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR10B(N2)	5:58:00	5.6	Bottom	3	2	23.40	8.10	31.00	91.6	6.50	4.4	14.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	1.0	Surface	1	1	23.30	8.10	29.00	86.7	6.30	8.8	9.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	1.0	Surface	1	2	23.30	8.00	29.00	87.0	6.30	9.0	10.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	16.8	Middle	2	1	23.20	8.10	31.40	83.0	5.90	10.4	10.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	16.8	Middle	2	2	23.20	8.00	31.50	83.5	6.00	10.4	9.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	32.5	Bottom	3	1	23.20	8.10	32.20	82.4	5.90	14.9	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CSA	5:57:00	32.5	Bottom	3	2	23.20	8.00	32.30	83.0	5.90	14.9	13.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	1.0	Surface	1	1	23.20	8.10	28.40	88.3	6.40	9.2	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	1.0	Surface	1	2	23.20	8.00	28.40	88.8	6.40	9.5	9.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	4.8	Middle	2	1	23.40	8.10	29.70	88.0	6.30	9.0	11.3	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	4.8	Middle	2	2	23.40	8.00	29.80	88.0	6.30	9.2	12.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	8.5	Bottom	3	1	23.40	8.10	30.00	89.5	6.40	9.2	13.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS6	6:10:00	8.5	Bottom	3	2	23.40	8.00	30.10	89.6	6.40	9.3	12.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	1.0	Surface	1	1	23.20	8.10	28.10	94.3	6.90	9.0	10.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	1.0	Surface	1	2	23.20	8.00	28.20	94.9	6.90	9.1	8.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	8.9	Middle	2	1	23.40	8.10	30.00	92.1	6.60	10.2	9.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	8.9	Middle	2	2	23.40	8.00	30.10	92.9	6.70	10.1	8.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	16.8	Bottom	3	1	23.20	8.10	31.80	91.6	6.50	17.0	17.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS4	7:08:00	16.8	Bottom	3	2	23.20	8.00	31.80	92.4	6.60	17.0	18.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00	1.0	Surface	1	1	23.20	8.10	27.80	96.9	7.10	19.1	18.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00	1.0	Surface	1	2	23.20	8.00	27.90	97.6	7.10	19.2	17.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00	3.5	Bottom	3	1	23.00	8.10	29.30	99.2	7.20	16.9	26.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR6	7:41:00	3.5	Bottom	3	2	23.00	8.00	29.40	99.6	7.20	16.1	25.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	1.0	Surface	1	1	23.10	8.20	27.90	95.9	7.00	18.2	26.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	1.0	Surface	1	2	23.10	8.10	28.00	96.6	7.00	18.4	26.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	3.6	Middle	2	1	23.10	8.20	27.90	95.7	7.00	17.9	26.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	3.6	Middle	2	2	23.10	8.10	28.00	96.4	7.00	17.6	25.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	6.2	Bottom	3	1	23.10	8.20	27.90	95.9	7.00	20.5	25.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)3(N)	7:23:00	6.2	Bottom	3	2	23.10	8.00	28.00	96.8	7.10	20.6	26.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	1.0	Surface	1	1	23.20	8.10	28.50	94.1	6.80	16.1	18.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	1.0	Surface	1	2	23.20	8.00	28.60	94.8	6.90	16.3	18.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	4.8	Middle	2	1	23.20	8.10	28.80	93.9	6.80	16.6	21.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	4.8	Middle	2	2	23.20	8.00	28.80	94.7	6.90	16.9	23.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	8.6	Bottom	3	1	23.20	8.10	29.30	95.1	6.90	17.2	21.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR5(N)	6:51:00	8.6	Bottom	3	2	23.20	8.00	29.40	96.0	6.90	17.4	21.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	1.0	Surface	1	1	23.30	8.10	28.40	85.9	6.20	14.2	9.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	1.0	Surface	1	2	23.30	8.00	28.50	88.3	6.40	14.5	10.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	5.6	Middle	2	1	23.30	8.10	29.40	85.3	6.20	20.4	11.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	5.6	Middle	2	2	23.30	8.00	29.50	88.3	6.40	20.5	10.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	10.2	Bottom	3	1	23.30	8.10	29.40	87.5	6.30	21.3	10.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS10(N)	6:44:00	10.2	Bottom	3	2	23.30	8.00	29.40	90.0	6.50	21.7	11.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	1.0	Surface	1	1	23.30	8.10	28.60	86.2	6.20	15.4	13.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	1.0	Surface	1	2	23.30	8.00	28.60	86.6	6.30	15.7	14.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	5.7	Middle	2	1	23.40	8.10	29.00	85.5	6.20	18.9	14.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	5.7	Middle	2	2	23.40	8.00	29.00	85.9	6.20	18.8	13.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	10.4	Bottom	3	1	23.30	8.10	29.10	86.0	6.20	20.8	16.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)11	6:36:00	10.4	Bottom	3	2	23.30	8.00	29.20	86.3	6.20	20.8	17.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	1.0	Surface	1	1	23.40	8.10	27.50	90.9	6.60	2.7	8.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	1.0	Surface	1	2	23.00	8.20	27.60	90.8	6.60	3.2	7.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	5.9	Middle	2	1	23.60	8.10	29.40	89.6	6.40	2.7	9.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	5.9	Middle	2	2	23.20	8.20	29.50	89.4	6.40	2.7	8.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	10.8	Bottom	3	1	23.50	8.10	30.50	89.1	6.40	10.0	12.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	CS(Mf)5	6:26:00	10.8	Bottom	3	2	23.10	8.20	30.60	88.5	6.40	10.8	11.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR7	6:29:00	1.0	Surface	1	1	23.20	8.10	28.60	89.8	6.50	14.9	11.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR7	6:29:00	1.0	Surface	1	2	23.20	8.00	28.60	90.0	6.50	14.7	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR7	6:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR7	6:29:00	3.6	Bottom	3	2	23.20	8.10	28.70	93.5	6.80	18.3	15.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR7	6:29:00	3.6	Bottom	3	1	23.20	8.00	28.70	94.0	6.80	18.4	15.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	1.0	Surface	1	1	23.40	8.10	27.20	92.6	6.70	3.3	5.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	1.0	Surface	1	2	23.20	8.20	27.70	91.0	6.60	3.6	4.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	5.3	Middle	2	1	23.50	8.10	27.50	91.7	6.70	3.8	9.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	5.3	Middle	2	2	23.20	8.20	28.20	91.1	6.60	4.0	8.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	9.6	Bottom	3	1	23.50	8.10	28.00	92.7	6.70	3.6	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS17	6:48:00	9.6	Bottom	3	2	23.20	8.20	28.20	91.6	6.70	4.0	11.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00	1.0	Surface	1	1	23.40	8.10	27.40	92.7	6.70	4.3	11.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00	1.0	Surface	1	2	23.10	8.20	27.50	92.0	6.70	4.7	11.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00	4.7	Bottom	3	1	23.40	8.10	27.40	93.7	6.80	4.8	14.3	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)16	6:58:00	4.7	Bottom	3	2	23.10	8.20	27.60	92.9	6.80	5.3	15.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00	1.0	Surface	1	1	23.40	8.10	27.40	91.1	6.60	4.2	10.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00	1.0	Surface	1	2	23.10	8.20	27.50	90.5	6.60	4.6	10.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00		Middle	2	2								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00	3.3	Bottom	3	1	23.40	8.10	27.40	91.7	6.70	5.2	11.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS8	7:20:00	3.3	Bottom	3	2	23.10	8.20	27.50	90.9	6.70	5.3	11.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00	1.0	Surface	1	1	23.40	8.10	27.30	89.2	6.50	4.8	10.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00	1.0	Surface	1	2	23.10	8.20	27.40	88.9	6.50	5.5	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00	2.1	Bottom	3	1	23.40	8.10	27.20	88.7	6.50	4.6	14.8	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR4(N)	7:14:00	2.1	Bottom	3	2	23.00	8.20	27.40	88.4	6.50	5.2	15.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00	1.0	Surface	1	1	23.40	8.10	27.40	91.7	6.70	4.0	10.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00	1.0	Surface	1	2	23.10	8.20	27.50	91.0	6.70	4.8	11.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00	2.3	Bottom	3	1	23.40	8.10	27.40	92.4	6.70	4.4	13.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)9	7:27:00	2.3	Bottom	3	2	23.10	8.20	27.50	91.5	6.70	5.1	14.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00	1.0	Surface	1	1	23.50	8.10	27.30	90.6	6.60	4.6	13.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00	1.0	Surface	1	2	23.10	8.20	27.40	90.0	6.60	4.3	12.7	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00	2.1	Bottom	3	1	23.50	8.10	27.30	91.0	6.60	5.3	14.6	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS7	7:34:00	2.1	Bottom	3	2	23.10	8.20	27.40	90.3	6.60	5.4	13.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00	1.4	Middle	2	1	23.50	8.10	27.30	91.1	6.60	5.5	11.5	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00	1.4	Middle	2	2	23.20	8.20	27.40	90.1	6.60	5.0	11.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS(Mf)6	7:42:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	1.0	Surface	1	1	23.60	8.10	27.30	89.7	6.50	4.6	9.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	1.0	Surface	1	2	23.20	8.20	27.40	89.2	6.50	5.3	9.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	4.8	Middle	2	1	23.60	8.10	27.30	89.9	6.50	5.1	11.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	4.8	Middle	2	2	23.30	8.20	27.40	89.2	6.50	5.8	10.9	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	8.6	Bottom	3	1	23.70	8.10	27.30	90.7	6.60	5.7	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	IS5	7:49:00	8.6	Bottom	3	2	23.30	8.20	27.50	89.7	6.50	6.6	12.4	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00	1.0	Surface	1	1	23.60	8.10	27.30	91.8	6.70	8.3	10.2	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00	1.0	Surface	1	2	23.20	8.20	27.40	90.8	6.60	8.9	9.1	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00	2.5	Bottom	3	1	23.60	8.10	27.30	93.3	6.80	9.0	21.0	
HKBCF	HY/2013/01	2018-04-16	Mid-Flood	Cloudy	SR3(N)	7:56:00	2.5	Bottom	3	2	23.20	8.20	27.40	92.0	6.70	9.1	19.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	1.0	Surface	1	1	22.90	8.00	32.00	91.8	6.60	2.5	4.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	1.0	Surface	1	2	22.80	8.10	30.40	88.1	6.40	2.5	4.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	5.7	Middle	2	1	22.80	8.00	32.10	91.1	6.50	2.4	8.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	5.7	Middle	2	2	22.80	8.10	30.60	87.4	6.30	2.4	9.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	10.3	Bottom	3	1	22.80	8.00	32.50	90.7	6.50	2.6	12.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10A(N)	14:43:00	10.3	Bottom	3	2	22.80	8.10	30.90	87.2	6.30	2.6	13.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	1.0	Surface	1	1	22.80	8.00	32.40	91.0	6.50	2.6	14.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	1.0	Surface	1	2	22.80	8.00	32.40	91.0	6.50	2.5	14.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	3.2	Middle	2	1	22.80	8.00	32.40	91.2	6.50	2.8	15.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	3.2	Middle	2	2	22.80	8.10	30.90	87.7	6.30	3.1	14.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	5.3	Bottom	3	1	22.80	8.00	32.60	92.3	6.60	2.8	16.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR10B(N2)	14:37:00	5.3	Bottom	3	2	22.80	8.20	31.00	89.2	6.40	3.2	15.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	1.0	Surface	1	1	22.90	8.00	30.80	91.5	6.60	9.2	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	1.0	Surface	1	2	22.90	8.10	30.80	90.8	6.50	8.2	11.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	16.5	Middle	2	1	22.70	8.00	32.50	89.0	6.40	9.1	10.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	16.5	Middle	2	2	22.70	8.10	32.50	88.2	6.30	8.6	10.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	32.0	Bottom	3	1	22.70	8.00	32.60	90.7	6.50	9.2	14.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CSA	14:16:00	32.0	Bottom	3	2	22.70	8.10	32.60	89.8	6.40	8.6	15.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	1.0	Surface	1	1	22.90	8.00	31.10	91.5	6.60	9.5	10.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	1.0	Surface	1	2	23.00	8.10	31.00	90.9	6.50	9.3	10.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	4.7	Middle	2	1	22.80	8.00	31.80	90.7	6.50	10.4	14.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	4.7	Middle	2	2	22.80	8.10	31.80	90.1	6.50	9.6	14.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	8.4	Bottom	3	1	22.80	8.00	32.00	91.9	6.60	11.4	14.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS6	14:08:00	8.4	Bottom	3	2	22.80	8.10	31.90	91.2	6.50	10.8	14.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	1.0	Surface	1	1	22.80	8.10	30.50	92.4	6.70	11.8	14.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	1.0	Surface	1	2	22.80	8.10	30.50	91.8	6.60	10.9	13.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	8.9	Middle	2	1	22.70	8.00	31.20	90.2	6.50	12.9	13.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	8.9	Middle	2	2	22.70	8.10	31.10	89.6	6.50	12.7	13.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	16.8	Bottom	3	1	22.70	8.00	31.50	90.7	6.50	13.1	16.6	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS4	13:17:00	16.8	Bottom	3	2	22.80	8.10	31.50	89.8	6.40	12.6	17.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00	1.0	Surface	1	1	22.80	8.10	32.30	101.8	7.30	15.3	19.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00	1.0	Surface	1	2	22.80	8.20	32.20	101.1	7.20	13.3	19.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00	3.3	Bottom	3	1	22.80	8.10	32.30	103.0	7.40	15.9	19.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR6	12:46:00	3.3	Bottom	3	2	22.80	8.20	32.30	102.6	7.30	13.9	20.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	1.0	Surface	1	1	23.00	8.00	29.80	96.7	7.00	13.4	12.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	1.0	Surface	1	2	23.00	8.10	29.70	96.1	6.90	13.3	13.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	3.7	Middle	2	1	22.60	8.10	31.30	98.4	7.10	18.9	13.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	3.7	Middle	2	2	22.60	8.20	31.30	97.7	7.00	18.2	14.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	6.3	Bottom	3	1	22.60	8.10	32.10	98.5	7.10	19.4	14.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:02:00	6.3	Bottom	3	2	22.60	8.20	32.10	97.8	7.00	17.7	15.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	1.0	Surface	1	1	22.80	8.10	30.30	94.1	6.80	15.4	11.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	1.0	Surface	1	2	22.80	8.20	30.30	93.4	6.80	14.4	12.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	4.7	Middle	2	1	22.60	8.10	30.60	94.7	6.80	25.6	13.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	4.7	Middle	2	2	22.70	8.20	30.60	93.7	6.80	21.6	12.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	8.3	Bottom	3	1	22.60	8.10	30.70	96.5	7.00	23.2	19.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR5(N)	13:33:00	8.3	Bottom	3	2	22.60	8.20	30.60	96.0	6.90	23.5	17.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	1.0	Surface	1	1	22.70	8.10	30.40	95.8	6.90	18.3	17.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	1.0	Surface	1	2	22.80	8.20	30.40	95.0	6.90	16.6	18.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	5.7	Middle	2	1	22.70	8.10	30.90	96.8	7.00	22.4	18.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	5.7	Middle	2	2	22.70	8.20	30.90	95.9	6.90	20.2	17.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	10.4	Bottom	3	1	22.70	8.10	31.30	97.5	7.00	23.9	18.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS10(N)	13:39:00	10.4	Bottom	3	2	22.70	8.20	31.20	96.9	7.00	22.2	19.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	1.0	Surface	1	1	22.80	8.10	30.30	94.3	6.80	16.9	10.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	1.0	Surface	1	2	22.80	8.10	30.30	93.6	6.80	15.8	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	5.8	Middle	2	1	22.60	8.10	30.80	94.9	6.90	20.7	11.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	5.8	Middle	2	2	22.60	8.20	30.70	94.1	6.80	20.0	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	10.5	Bottom	3	1	22.60	8.10	30.80	96.0	6.90	24.1	13.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)11	13:42:00	10.5	Bottom	3	2	22.60	8.20	30.80	95.0	6.90	23.6	12.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	1.0	Surface	1	1	22.70	8.00	31.40	90.5	6.50	7.7	10.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	1.0	Surface	1	2	22.70	8.20	29.80	87.0	6.30	7.7	11.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	5.8	Middle	2	1	22.70	8.00	31.50	90.1	6.50	10.0	14.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	5.8	Middle	2	2	22.60	8.20	30.00	86.6	6.30	10.0	14.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	10.6	Bottom	3	1	22.70	8.00	32.20	90.7	6.50	8.1	24.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	CS(Mf)5	14:07:00	10.6	Bottom	3	2	22.60	8.20	30.60	87.8	6.40	8.1	24.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00	1.0	Surface	1	1	22.80	8.10	30.50	98.8	7.10	19.0	8.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00	1.0	Surface	1	2	22.80	8.10	30.40	97.9	7.10	16.5	8.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00	3.4	Bottom	3	1	22.70	8.10	30.60	103.4	7.50	19.2	11.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR7	13:50:00	3.4	Bottom	3	2	22.70	8.10	30.50	102.7	7.40	17.1	10.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	1.0	Surface	1	1	22.80	8.00	31.20	92.9	6.70	4.0	6.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	1.0	Surface	1	2	22.80	8.20	29.70	89.2	6.50	4.0	7.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	5.2	Middle	2	1	22.70	8.00	31.30	92.1	6.60	4.3	6.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	5.2	Middle	2	2	22.70	8.20	29.80	88.7	6.50	4.3	6.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	9.4	Bottom	3	1	22.70	8.00	31.40	94.3	6.80	4.1	6.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS17	13:50:00	9.4	Bottom	3	2	22.70	8.20	29.90	91.3	6.60	4.1	7.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00	1.0	Surface	1	1	22.80	8.00	30.70	91.1	6.60	5.6	6.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00	1.0	Surface	1	2	22.80	8.10	29.20	87.7	6.40	5.6	8.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00	4.6	Bottom	3	1	22.70	8.00	31.00	92.7	6.70	13.2	11.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)16	13:44:00	4.6	Bottom	3	2	22.60	8.20	29.40	89.9	6.60	13.2	11.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00	1.0	Surface	1	1	22.90	8.00	30.60	90.3	6.50	6.4	11.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00	1.0	Surface	1	2	22.90	8.10	29.10	86.7	6.30	6.4	11.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00	3.3	Bottom	3	1	22.60	8.00	31.00	90.0	6.50	8.5	12.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS8	13:23:00	3.3	Bottom	3	2	22.60	8.10	29.50	86.7	6.30	8.5	13.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00	1.0	Surface	1	1	22.90	8.00	30.40	91.5	6.60	5.5	10.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00	1.0	Surface	1	2	22.90	8.10	29.00	88.6	6.40	5.5	10.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00	2.3	Bottom	3	1	22.90	8.00	30.60	94.1	6.80	5.5	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR4(N)	13:29:00	2.3	Bottom	3	2	22.90	8.10	29.10	91.6	6.70	5.5	10.2	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00	1.0	Surface	1	1	22.90	8.00	30.50	91.3	6.60	4.2	10.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00	1.0	Surface	1	2	22.80	8.10	29.00	87.7	6.40	4.2	10.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00	2.4	Bottom	3	1	22.90	8.00	30.50	91.7	6.60	5.1	12.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)9	13:15:00	2.4	Bottom	3	2	22.80	8.10	29.00	88.3	6.40	5.1	12.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00	1.5	Middle	2	1	23.00	8.00	30.50	92.3	6.70	5.3	11.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00	1.5	Middle	2	2	22.90	8.10	29.00	88.6	6.40	5.3	11.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS7	13:09:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00	1.4	Middle	2	1	22.70	8.00	30.70	88.2	6.40	7.6	15.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00	1.4	Middle	2	2	22.60	8.10	29.20	85.2	6.20	7.6	15.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS(Mf)6	13:01:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	1.0	Surface	1	1	22.60	8.00	31.30	90.2	6.50	7.9	14.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	1.0	Surface	1	2	22.60	8.10	29.80	86.8	6.30	7.9	13.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	4.8	Middle	2	1	22.60	8.00	31.70	91.6	6.60	10.5	19.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	4.8	Middle	2	2	22.60	8.10	30.10	87.9	6.40	10.5	20.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	8.5	Bottom	3	1	22.60	8.00	32.00	93.1	6.70	13.4	23.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	IS5	12:54:00	8.5	Bottom	3	2	22.60	8.10	30.50	89.4	6.50	13.4	24.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00	1.0	Surface	1	1	22.60	8.00	31.40	90.8	6.50	12.6	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00	1.0	Surface	1	2	22.60	8.10	29.90	87.1	6.30	12.6	11.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00	3.6	Bottom	3	1	22.60	8.00	32.00	91.8	6.60	15.5	19.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Ebb	Cloudy	SR3(N)	12:45:00	3.6	Bottom	3	2	22.50	8.10	30.40	87.8	6.40	15.5	18.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	1.0	Surface	1	1	22.60	8.00	31.50	90.7	6.50	3.3	10.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	1.0	Surface	1	2	22.60	8.10	30.00	87.0	6.30	3.2	11.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	5.6	Middle	2	1	22.70	7.90	32.00	89.7	6.40	3.5	10.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	5.6	Middle	2	2	22.60	8.10	30.50	86.1	6.20	3.4	11.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	10.1	Bottom	3	1	22.70	7.90	32.30	89.6	6.40	4.1	18.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10A(N)	6:45:00	10.1	Bottom	3	2	22.60	8.10	30.80	86.3	6.20	3.9	18.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	1.0	Surface	1	1	22.70	8.00	32.70	88.8	6.30	5.2	18.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	1.0	Surface	1	2	22.60	8.10	31.20	85.3	6.20	5.0	18.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	3.2	Middle	2	1	22.70	8.00	32.70	88.9	6.40	5.2	17.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	3.2	Middle	2	2	22.60	8.10	31.20	85.4	6.20	5.0	17.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	5.4	Bottom	3	1	22.70	8.00	32.80	89.1	6.40	5.0	21.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR10B(N2)	6:54:00	5.4	Bottom	3	2	22.60	8.10	31.20	85.6	6.20	4.9	20.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	1.0	Surface	1	1	22.70	8.00	30.30	93.6	6.80	10.6	14.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	1.0	Surface	1	2	22.70	8.10	30.20	92.9	6.70	9.8	13.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	16.4	Middle	2	1	22.70	8.00	30.60	91.8	6.60	10.2	16.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	16.4	Middle	2	2	22.70	8.10	30.50	90.9	6.60	9.6	15.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	31.8	Bottom	3	1	22.70	8.00	31.20	90.8	6.50	9.4	18.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CSA	7:05:00	31.8	Bottom	3	2	22.70	8.10	31.20	89.8	6.50	7.8	19.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	1.0	Surface	1	1	22.70	8.00	30.30	92.6	6.70	10.6	15.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	1.0	Surface	1	2	22.70	8.10	30.20	92.0	6.70	9.8	16.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	4.7	Middle	2	1	22.70	8.00	30.70	92.1	6.60	11.4	19.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	4.7	Middle	2	2	22.70	8.10	30.60	91.4	6.60	10.3	19.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	8.4	Bottom	3	1	22.80	8.00	31.30	92.9	6.70	12.9	20.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS6	7:17:00	8.4	Bottom	3	2	22.80	8.10	31.30	92.4	6.60	13.2	19.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	1.0	Surface	1	1	22.70	8.00	30.20	93.1	6.70	12.3	10.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	1.0	Surface	1	2	22.70	8.10	30.20	92.5	6.70	12.3	11.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	8.8	Middle	2	1	22.70	8.00	30.90	92.0	6.60	14.6	11.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	8.8	Middle	2	2	22.70	8.10	30.80	91.3	6.60	14.8	10.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	16.6	Bottom	3	1	22.70	8.00	31.00	92.7	6.70	20.9	13.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS4	8:15:00	16.6	Bottom	3	2	22.70	8.10	30.90	91.8	6.60	20.8	13.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00	1.0	Surface	1	1	22.60	8.00	30.50	95.6	6.90	24.4	29.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00	1.0	Surface	1	2	22.60	8.10	30.50	94.9	6.90	20.5	29.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00	3.2	Bottom	3	1	22.60	8.00	30.50	96.2	7.00	24.4	31.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR6	8:47:00	3.2	Bottom	3	2	22.60	8.10	30.50	95.6	6.90	21.8	33.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	1.0	Surface	1	1	22.80	8.10	29.60	93.4	6.80	21.5	20.6	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	1.0	Surface	1	2	22.80	8.20	29.60	92.8	6.70	19.3	20.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	3.6	Middle	2	1	22.80	8.10	29.70	93.9	6.80	23.2	25.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	3.6	Middle	2	2	22.80	8.20	29.60	93.2	6.80	20.7	25.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	6.1	Bottom	3	1	22.70	8.10	29.70	95.0	6.90	23.2	25.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)3(N)	8:28:00	6.1	Bottom	3	2	22.80	8.20	29.70	94.1	6.80	23.1	25.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	1.0	Surface	1	1	22.60	8.00	30.30	92.4	6.70	24.4	17.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	1.0	Surface	1	2	22.70	8.10	30.20	91.8	6.70	22.3	17.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	4.6	Middle	2	1	22.60	8.00	30.60	92.1	6.70	24.6	17.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	4.6	Middle	2	2	22.60	8.10	30.50	91.5	6.60	22.8	18.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	8.2	Bottom	3	1	22.60	8.00	30.60	92.1	6.70	25.8	24.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR5(N)	7:58:00	8.2	Bottom	3	2	22.60	8.10	30.60	91.6	6.60	22.2	24.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	1.0	Surface	1	1	22.60	8.00	30.30	92.0	6.70	11.4	10.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	1.0	Surface	1	2	22.60	8.10	30.30	91.6	6.60	11.4	10.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	5.6	Middle	2	1	22.60	8.10	30.70	92.6	6.70	18.5	10.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	5.6	Middle	2	2	22.60	8.10	30.60	92.1	6.70	16.8	10.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	10.2	Bottom	3	1	22.60	8.10	30.90	93.3	6.70	22.1	11.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS10(N)	7:51:00	10.2	Bottom	3	2	22.60	8.10	30.80	92.7	6.70	20.4	10.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	1.0	Surface	1	1	22.60	8.00	30.30	91.3	6.60	13.4	8.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	1.0	Surface	1	2	22.60	8.10	30.20	90.8	6.60	12.3	8.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	5.7	Middle	2	1	22.60	8.00	30.50	91.5	6.60	17.1	13.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	5.7	Middle	2	2	22.70	8.10	30.50	90.9	6.60	15.0	12.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	10.4	Bottom	3	1	22.60	8.00	30.70	92.4	6.70	17.9	14.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)11	7:45:00	10.4	Bottom	3	2	22.70	8.10	30.70	91.6	6.60	15.8	15.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	1.0	Surface	1	1	22.60	8.00	31.10	91.2	6.60	4.3	5.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	1.0	Surface	1	2	22.60	8.20	29.60	87.4	6.40	4.2	5.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	5.8	Middle	2	1	22.60	8.00	31.50	89.8	6.50	4.6	6.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	5.8	Middle	2	2	22.60	8.20	30.10	86.0	6.30	4.4	7.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	10.6	Bottom	3	1	22.70	8.00	32.00	89.2	6.40	24.6	9.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	CS(Mf)5	7:21:00	10.6	Bottom	3	2	22.60	8.20	30.50	85.6	6.20	20.3	9.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00	1.0	Surface	1	1	22.60	8.00	30.70	92.3	6.70	24.6	22.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00	1.0	Surface	1	2	22.60	8.10	30.60	91.7	6.60	22.0	22.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00	3.3	Bottom	3	1	22.60	8.00	30.70	92.2	6.70	24.9	25.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR7	7:39:00	3.3	Bottom	3	2	22.60	8.10	30.60	91.7	6.60	22.8	24.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	1.0	Surface	1	1	22.50	8.10	30.80	93.4	6.80	3.8	8.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	1.0	Surface	1	2	22.50	8.20	29.30	89.5	6.50	4.1	8.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	5.1	Middle	2	1	22.60	8.10	31.10	93.0	6.70	4.7	10.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	5.1	Middle	2	2	22.60	8.20	29.60	89.2	6.50	5.2	11.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	9.1	Bottom	3	1	22.60	8.10	31.20	93.8	6.80	6.1	12.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS17	7:44:00	9.1	Bottom	3	2	22.60	8.20	29.70	90.1	6.60	6.6	12.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00	1.0	Surface	1	1	22.60	8.00	30.90	91.3	6.60	4.4	8.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00	1.0	Surface	1	2	22.50	8.20	29.40	87.5	6.40	4.6	8.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00	4.5	Bottom	3	1	22.60	8.00	31.00	91.1	6.60	5.9	14.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)16	7:54:00	4.5	Bottom	3	2	22.60	8.20	29.50	87.5	6.40	5.8	15.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00	1.0	Surface	1	1	22.60	8.00	31.20	90.3	6.50	8.0	10.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00	1.0	Surface	1	2	22.60	8.20	29.60	86.8	6.30	7.3	9.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00	2.8	Bottom	3	1	22.60	8.00	31.20	91.5	6.60	8.0	11.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS8	8:15:00	2.8	Bottom	3	2	22.60	8.20	29.60	88.0	6.40	7.2	10.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00	1.0	Surface	1	1	22.60	8.00	31.10	86.8	6.30	7.0	11.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00	1.0	Surface	1	2	22.60	8.10	29.60	83.3	6.10	7.1	11.5	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00	2.2	Bottom	3	1	22.60	8.00	31.10	86.8	6.30	7.4	14.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR4(N)	8:09:00	2.2	Bottom	3	2	22.60	8.10	29.60	83.3	6.10	7.4	15.8	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00	1.0	Surface	1	1	22.60	8.00	30.70	89.4	6.50	3.9	5.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00	1.0	Surface	1	2	22.60	8.10	29.20	85.9	6.30	3.7	5.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00	2.2	Bottom	3	1	22.60	8.00	30.90	91.8	6.70	5.8	5.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)9	8:23:00	2.2	Bottom	3	2	22.60	8.20	29.30	87.8	6.40	5.2	5.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00	1.0	Surface	1	1	22.50	8.00	30.60	87.6	6.40	11.4	14.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00	1.0	Surface	1	2	22.40	8.10	29.10	84.2	6.20	11.2	13.9	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00	2.1	Bottom	3	1	22.50	8.00	30.60	88.1	6.40	11.6	17.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS7	8:29:00	2.1	Bottom	3	2	22.40	8.10	29.10	84.8	6.20	11.2	17.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00	1.0	Surface	1	1	22.40	8.00	30.50	87.7	6.40	6.3	7.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00	1.0	Surface	1	2	22.40	8.10	29.00	84.2	6.20	6.0	6.9	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00	2.1	Bottom	3	1	22.40	8.00	30.50	88.2	6.40	6.1	8.6	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS(Mf)6	8:36:00	2.1	Bottom	3	2	22.40	8.10	29.00	84.9	6.20	5.7	7.1	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	1.0	Surface	1	1	22.40	8.00	30.50	87.6	6.40	5.2	5.3	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	1.0	Surface	1	2	22.40	8.10	29.00	84.1	6.20	5.6	6.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	4.8	Middle	2	1	22.50	8.00	30.60	87.3	6.30	7.0	9.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	4.8	Middle	2	2	22.40	8.10	29.10	83.9	6.20	7.8	10.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	8.6	Bottom	3	1	22.50	8.00	30.70	88.1	6.40	8.7	14.4	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	IS5	8:43:00	8.6	Bottom	3	2	22.50	8.10	29.20	85.0	6.20	9.7	15.7	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00	1.0	Surface	1	1	22.50	8.00	30.60	87.0	6.30	6.5	11.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00	1.0	Surface	1	2	22.40	8.10	29.10	83.7	6.10	6.7	10.2	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00	2.5	Bottom	3	1	22.50	8.00	30.70	88.0	6.40	7.4	13.0	
HKBCF	HY/2013/01	2018-04-18	Mid-Flood	Cloudy	SR3(N)	8:51:00	2.5	Bottom	3	2	22.40	8.10	29.20	85.1	6.20	7.3	12.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	1.0	Surface	1	1	23.20	8.10	30.30	103.5	7.40	4.0	9.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	1.0	Surface	1	2	23.20	8.00	30.50	103.8	7.40	3.7	10.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	5.7	Middle	2	1	23.00	8.10	30.90	100.7	7.20	4.3	11.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	5.7	Middle	2	2	23.00	8.00	31.20	101.0	7.20	4.3	10.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	10.4	Bottom	3	1	23.00	8.10	30.90	101.5	7.30	3.6	11.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10A(N)	16:09:00	10.4	Bottom	3	2	23.00	8.00	31.10	101.9	7.30	3.8	11.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	1.0	Surface	1	1	23.10	8.10	30.70	102.1	7.30	4.8	10.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	1.0	Surface	1	2	23.10	8.00	30.90	102.5	7.40	4.5	10.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	3.3	Middle	2	1	23.10	8.10	30.70	102.9	7.40	4.8	10.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	3.3	Middle	2	2	23.10	8.00	30.90	103.2	7.40	4.7	10.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	5.5	Bottom	3	1	23.10	8.10	30.70	104.6	7.50	4.6	13.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR10B(N2)	16:04:00	5.5	Bottom	3	2	23.10	8.00	30.90	104.7	7.50	4.7	13.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	1.0	Surface	1	1	23.40	8.00	30.30	91.0	6.50	9.7	9.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	1.0	Surface	1	2	23.40	8.10	30.30	90.4	6.50	9.8	8.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	16.5	Middle	2	1	22.90	8.00	32.40	87.4	6.20	8.1	11.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	16.5	Middle	2	2	22.90	8.10	32.40	86.6	6.20	8.5	10.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	31.9	Bottom	3	1	22.90	8.00	32.70	86.4	6.20	9.1	10.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CSA	16:00:00	31.9	Bottom	3	2	22.90	8.10	32.60	85.7	6.10	8.8	11.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	1.0	Surface	1	1	23.50	8.00	30.30	94.9	6.80	9.9	6.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	1.0	Surface	1	2	23.50	8.10	30.30	94.3	6.70	9.7	7.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	4.6	Middle	2	1	23.20	8.00	31.20	92.6	6.60	10.4	8.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	4.6	Middle	2	2	23.20	8.10	31.10	91.8	6.60	10.6	7.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	8.2	Bottom	3	1	23.10	8.00	31.60	95.2	6.80	11.4	9.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS6	15:50:00	8.2	Bottom	3	2	23.10	8.10	31.60	94.4	6.70	11.8	8.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	1.0	Surface	1	1	23.50	8.00	29.00	93.7	6.70	12.6	9.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	1.0	Surface	1	2	23.50	8.10	29.00	93.2	6.70	12.9	9.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	9.0	Middle	2	1	23.30	8.00	30.20	91.9	6.60	15.9	15.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	9.0	Middle	2	2	23.30	8.10	30.10	91.3	6.60	16.0	16.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	16.9	Bottom	3	1	23.00	8.00	31.00	92.3	6.60	14.2	16.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS4	14:49:00	16.9	Bottom	3	2	23.10	8.10	30.90	91.5	6.60	14.2	15.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00	1.0	Surface	1	1	23.30	8.00	31.70	100.5	7.20	12.4	15.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00	1.0	Surface	1	2	23.30	8.20	31.70	99.8	7.10	12.0	14.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00	3.6	Bottom	3	1	23.30	8.00	31.70	100.4	7.10	12.1	14.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR6	14:13:00	3.6	Bottom	3	2	23.30	8.20	31.70	99.8	7.10	12.3	14.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	1.0	Surface	1	1	23.60	8.00	29.20	97.4	7.00	11.8	15.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	1.0	Surface	1	2	23.60	8.10	29.20	97.0	7.00	11.5	16.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	3.7	Middle	2	1	23.30	8.00	29.90	97.4	7.00	15.5	16.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	3.7	Middle	2	2	23.30	8.10	29.90	96.8	7.00	15.7	15.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	6.4	Bottom	3	1	23.20	8.00	31.00	97.2	6.90	17.9	17.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)3(N)	14:30:00	6.4	Bottom	3	2	23.20	8.10	30.90	97.0	6.90	17.4	18.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	1.0	Surface	1	1	23.40	8.10	30.20	97.0	6.90	15.6	14.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	1.0	Surface	1	2	23.40	8.20	30.10	96.6	6.90	16.2	14.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	4.7	Middle	2	1	23.30	8.10	30.30	96.3	6.90	16.5	20.6	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	4.7	Middle	2	2	23.30	8.20	30.20	95.6	6.90	16.4	20.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	8.4	Bottom	3	1	23.30	8.10	30.30	96.4	6.90	22.6	23.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR5(N)	15:07:00	8.4	Bottom	3	2	23.30	8.20	30.30	95.7	6.90	22.4	21.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	1.0	Surface	1	1	23.40	8.10	30.00	96.1	6.90	14.9	16.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	1.0	Surface	1	2	23.40	8.20	29.90	95.6	6.90	14.8	16.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	5.5	Middle	2	1	23.30	8.10	30.30	96.4	6.90	16.8	20.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	5.5	Middle	2	2	23.30	8.20	30.20	95.8	6.90	16.6	20.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	10.0	Bottom	3	1	23.30	8.10	30.50	96.3	6.90	17.6	26.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS10(N)	15:13:00	10.0	Bottom	3	2	23.30	8.20	30.50	95.9	6.90	17.3	26.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	1.0	Surface	1	1	23.50	8.10	29.80	97.5	7.00	12.4	16.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	1.0	Surface	1	2	23.50	8.20	29.70	96.9	7.00	12.1	16.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	5.6	Middle	2	1	23.30	8.10	30.20	95.9	6.90	17.3	16.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	5.6	Middle	2	2	23.30	8.20	30.10	95.2	6.80	17.5	15.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	10.2	Bottom	3	1	23.30	8.10	30.40	96.9	6.90	20.5	30.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)11	15:18:00	10.2	Bottom	3	2	23.30	8.20	30.40	96.2	6.90	20.6	31.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	1.0	Surface	1	1	23.40	8.10	29.50	105.2	7.60	5.3	8.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	1.0	Surface	1	2	23.40	8.00	29.70	105.5	7.60	5.2	8.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	6.2	Middle	2	1	23.10	8.10	29.90	101.4	7.30	9.7	9.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	6.2	Middle	2	2	23.10	8.00	30.10	101.8	7.30	9.4	8.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	11.3	Bottom	3	1	23.00	8.20	30.20	103.2	7.40	13.3	11.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	CS(Mf)5	15:36:00	11.3	Bottom	3	2	23.00	8.00	30.40	103.3	7.40	13.4	12.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00	1.0	Surface	1	1	23.40	8.10	30.10	93.6	6.70	15.1	11.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00	1.0	Surface	1	2	23.40	8.10	30.00	93.2	6.70	15.1	13.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00	3.3	Bottom	3	1	23.30	8.00	30.30	94.1	6.80	17.7	20.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR7	15:27:00	3.3	Bottom	3	2	23.30	8.10	30.20	93.2	6.70	17.4	20.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	1.0	Surface	1	1	23.30	8.20	29.30	105.4	7.60	5.8	11.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	1.0	Surface	1	2	23.30	8.00	29.40	105.7	7.60	5.8	11.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	5.4	Middle	2	1	23.30	8.20	29.30	105.0	7.60	5.9	10.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	5.4	Middle	2	2	23.20	8.00	29.60	105.2	7.60	5.7	11.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	9.8	Bottom	3	1	23.20	8.20	29.40	106.7	7.70	6.0	13.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS17	15:18:00	9.8	Bottom	3	2	23.30	8.00	29.60	106.6	7.70	6.0	14.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00	1.0	Surface	1	1	23.10	8.10	29.50	107.5	7.80	4.6	8.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00	1.0	Surface	1	2	23.20	8.00	29.70	107.7	7.80	4.5	9.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00	4.7	Bottom	3	1	23.10	8.20	29.60	108.1	7.80	5.6	8.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)16	15:11:00	4.7	Bottom	3	2	23.10	8.00	29.80	108.4	7.80	5.4	9.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00	1.0	Surface	1	1	23.00	8.10	29.60	106.3	7.70	6.1	10.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00	1.0	Surface	1	2	23.10	8.00	29.80	107.0	7.70	5.9	11.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00	3.5	Bottom	3	1	23.00	8.10	29.80	104.1	7.50	8.1	11.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS8	14:49:00	3.5	Bottom	3	2	23.00	8.00	30.00	104.1	7.50	8.0	10.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00	1.0	Surface	1	1	23.10	8.10	29.40	103.9	7.50	5.5	9.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00	1.0	Surface	1	2	23.20	8.00	29.60	104.1	7.50	5.5	9.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00	2.3	Bottom	3	1	23.10	8.20	29.40	105.5	7.60	5.7	8.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR4(N)	14:55:00	2.3	Bottom	3	2	23.20	8.00	29.60	105.3	7.60	5.6	8.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00	1.0	Surface	1	1	23.30	8.10	29.50	108.7	7.80	4.6	9.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00	1.0	Surface	1	2	23.30	8.00	29.70	108.6	7.80	4.5	9.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00	2.5	Bottom	3	1	23.30	8.10	29.50	108.4	7.80	4.5	9.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)9	14:40:00	2.5	Bottom	3	2	23.30	8.00	29.70	108.4	7.80	4.5	9.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00	1.0	Surface	1	1	23.50	8.10	29.60	109.6	7.90	4.8	11.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00	1.0	Surface	1	2	23.60	8.00	29.70	109.6	7.90	4.5	10.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00	2.5	Bottom	3	1	23.50	8.10	29.70	109.3	7.80	6.0	14.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS7	14:33:00	2.5	Bottom	3	2	23.50	8.00	29.80	109.2	7.80	5.9	15.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00	1.0	Surface	1	1	23.20	8.10	29.80	103.3	7.40	7.2	14.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00	1.0	Surface	1	2	23.20	8.00	30.00	103.6	7.50	7.4	15.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00		Middle	2	2								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00	2.3	Bottom	3	1	23.20	8.10	29.80	105.4	7.60	8.9	16.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS(Mf)6	14:25:00	2.3	Bottom	3	2	23.20	8.00	30.00	105.4	7.60	8.9	16.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	1.0	Surface	1	1	23.10	8.10	29.80	104.6	7.50	11.5	20.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	1.0	Surface	1	2	23.20	8.00	30.00	104.8	7.50	11.5	20.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	4.8	Middle	2	1	23.20	8.10	29.80	105.3	7.60	11.2	22.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	4.8	Middle	2	2	23.20	8.00	30.00	105.4	7.60	11.3	22.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	8.5	Bottom	3	1	23.20	8.10	29.80	107.1	7.70	11.8	21.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	IS5	14:19:00	8.5	Bottom	3	2	23.20	8.00	30.00	107.0	7.70	11.6	21.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00	1.0	Surface	1	1	23.20	8.10	29.80	103.1	7.40	7.4	12.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00	1.0	Surface	1	2	23.20	8.00	30.00	103.5	7.50	7.2	10.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00	2.3	Bottom	3	1	23.20	8.10	29.80	103.2	7.40	7.3	12.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Ebb	Cloudy	SR3(N)	14:14:00	2.3	Bottom	3	2	23.20	8.00	30.00	103.7	7.50	7.1	13.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	1.0	Surface	1	1	22.80	8.10	29.80	103.1	7.50	2.6	7.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	1.0	Surface	1	2	22.90	8.00	30.00	103.1	7.50	3.0	6.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	5.7	Middle	2	1	22.80	8.10	30.20	100.0	7.20	3.6	11.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	5.7	Middle	2	2	22.90	7.90	30.40	100.2	7.20	3.7	10.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	10.3	Bottom	3	1	22.80	8.10	30.40	99.8	7.20	3.5	22.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10A(N)	7:48:00	10.3	Bottom	3	2	22.90	7.90	30.60	100.0	7.20	3.5	21.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00	1.0	Surface	1	1	22.80	8.10	31.20	98.4	7.10	4.6	14.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00	1.0	Surface	1	2	22.80	7.90	31.40	98.8	7.10	4.9	15.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00	4.6	Bottom	3	1	22.80	8.10	31.20	99.7	7.20	5.0	15.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR10B(N2)	7:57:00	4.6	Bottom	3	2	22.80	7.90	31.40	100.2	7.20	5.1	16.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	1.0	Surface	1	1	23.10	8.00	29.80	93.1	6.70	8.9	8.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	1.0	Surface	1	2	23.20	8.00	29.80	92.4	6.70	8.6	7.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	16.6	Middle	2	1	23.00	8.00	30.70	89.6	6.40	8.9	12.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	16.6	Middle	2	2	23.00	8.00	30.70	88.7	6.40	9.0	13.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	32.1	Bottom	3	1	23.00	8.00	31.40	90.3	6.50	9.1	12.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CSA	8:15:00	32.1	Bottom	3	2	23.00	8.00	31.30	89.5	6.40	9.4	13.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	1.0	Surface	1	1	23.20	8.00	30.10	91.6	6.60	9.1	7.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	1.0	Surface	1	2	23.20	8.10	30.10	91.2	6.60	9.2	8.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	4.8	Middle	2	1	23.00	8.00	30.70	90.6	6.50	9.4	10.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	4.8	Middle	2	2	23.00	8.10	30.60	90.1	6.50	9.1	9.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	8.6	Bottom	3	1	23.00	8.00	30.80	90.4	6.50	10.5	12.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS6	8:24:00	8.6	Bottom	3	2	23.00	8.10	30.80	89.8	6.50	10.2	13.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	1.0	Surface	1	1	23.20	8.00	29.30	92.0	6.70	8.2	11.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	1.0	Surface	1	2	23.20	8.10	29.30	91.7	6.60	8.7	12.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	9.0	Middle	2	1	23.10	8.00	30.70	89.5	6.40	11.2	13.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	9.0	Middle	2	2	23.10	8.10	30.60	88.9	6.40	11.5	11.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	17.0	Bottom	3	1	23.00	8.00	31.50	89.4	6.40	17.8	14.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS4	9:19:00	17.0	Bottom	3	2	23.00	8.10	31.50	88.8	6.40	17.5	13.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00	1.0	Surface	1	1	23.20	8.00	29.30	95.5	6.90	16.6	17.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00	1.0	Surface	1	2	23.20	8.10	29.30	95.1	6.90	17.0	16.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00	3.4	Bottom	3	1	23.20	8.00	29.50	96.3	7.00	20.4	18.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR6	9:55:00	3.4	Bottom	3	2	23.20	8.10	29.50	95.9	6.90	20.9	18.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	1.0	Surface	1	1	23.20	8.00	28.80	94.3	6.80	17.5	19.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	1.0	Surface	1	2	23.20	8.10	28.80	93.6	6.80	17.3	18.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	3.8	Middle	2	1	23.20	8.00	28.90	94.6	6.90	19.3	22.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	3.8	Middle	2	2	23.20	8.10	28.80	93.8	6.80	18.8	23.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	6.5	Bottom	3	1	23.20	8.00	28.90	95.5	6.90	16.4	28.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)3(N)	9:34:00	6.5	Bottom	3	2	23.20	8.10	28.90	94.7	6.90	16.4	28.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	1.0	Surface	1	1	23.10	8.00	29.50	92.8	6.70	15.6	17.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	1.0	Surface	1	2	23.20	8.10	29.50	92.2	6.70	15.1	17.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	4.8	Middle	2	1	23.10	8.00	29.90	92.1	6.60	19.2	18.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	4.8	Middle	2	2	23.10	8.10	29.90	91.4	6.60	19.4	18.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	8.5	Bottom	3	1	23.10	8.00	30.30	93.4	6.70	21.5	19.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR5(N)	9:04:00	8.5	Bottom	3	2	23.10	8.10	30.20	92.9	6.70	21.1	21.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	1.0	Surface	1	1	23.10	8.00	30.40	92.8	6.70	19.1	17.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	1.0	Surface	1	2	23.10	8.10	30.30	92.2	6.60	18.8	17.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	5.6	Middle	2	1	23.00	8.00	30.40	92.3	6.60	21.2	24.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	5.6	Middle	2	2	23.10	8.10	30.40	91.8	6.60	21.1	25.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	10.1	Bottom	3	1	23.00	8.00	30.40	92.6	6.70	22.7	34.0	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS10(N)	8:59:00	10.1	Bottom	3	2	23.10	8.10	30.40	91.8	6.60	22.7	34.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	1.0	Surface	1	1	23.10	8.00	29.80	94.2	6.80	11.2	8.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	1.0	Surface	1	2	23.10	8.10	29.80	93.4	6.70	11.0	9.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	5.6	Middle	2	1	23.10	8.00	29.90	94.2	6.80	10.1	14.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	5.6	Middle	2	2	23.10	8.10	29.90	93.6	6.80	10.8	13.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	10.2	Bottom	3	1	23.10	8.00	29.90	95.9	6.90	11.7	18.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)11	8:52:00	10.2	Bottom	3	2	23.10	8.10	29.90	95.2	6.90	11.6	18.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	1.0	Surface	1	1	23.00	8.10	29.10	103.3	7.50	3.7	14.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	1.0	Surface	1	2	23.00	7.90	29.40	103.5	7.50	4.5	13.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	6.1	Middle	2	1	23.00	8.10	29.80	102.0	7.40	4.6	12.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	6.1	Middle	2	2	23.00	7.90	29.90	102.3	7.40	4.6	13.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	11.2	Bottom	3	1	22.80	8.10	30.50	100.0	7.20	12.4	15.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	CS(Mf)5	8:24:00	11.2	Bottom	3	2	22.90	7.90	30.70	100.4	7.20	12.5	14.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00	1.0	Surface	1	1	23.10	8.00	30.20	92.5	6.70	19.5	16.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00	1.0	Surface	1	2	23.10	8.10	30.30	92.2	6.60	19.2	16.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00	3.4	Bottom	3	1	23.10	8.00	30.30	93.4	6.70	21.5	29.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR7	8:44:00	3.4	Bottom	3	2	23.10	8.10	30.30	93.0	6.70	21.9	30.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	1.0	Surface	1	1	23.10	8.20	29.00	103.7	7.50	4.7	10.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	1.0	Surface	1	2	23.10	8.00	29.20	104.1	7.50	5.3	11.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	5.7	Middle	2	1	23.00	8.20	29.40	102.3	7.40	6.7	11.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	5.7	Middle	2	2	23.10	8.00	29.60	102.8	7.40	6.9	11.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	10.3	Bottom	3	1	23.00	8.20	29.50	102.7	7.40	13.4	12.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS17	8:43:00	10.3	Bottom	3	2	23.10	8.00	29.70	103.2	7.50	13.3	12.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00	1.0	Surface	1	1	23.00	8.20	29.40	104.4	7.60	7.3	9.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00	1.0	Surface	1	2	23.00	8.00	29.50	105.0	7.60	7.3	10.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00	4.6	Bottom	3	1	22.90	8.20	29.50	106.5	7.70	9.6	16.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)16	8:50:00	4.6	Bottom	3	2	23.00	8.00	29.70	106.9	7.70	9.9	15.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00	1.0	Surface	1	1	23.00	8.20	29.30	103.7	7.50	7.1	11.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00	1.0	Surface	1	2	23.00	8.00	29.50	104.4	7.60	7.2	11.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00	3.3	Bottom	3	1	23.00	8.20	29.50	103.9	7.50	9.0	15.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS8	9:12:00	3.3	Bottom	3	2	23.00	8.00	29.60	104.6	7.60	9.1	15.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00	1.0	Surface	1	1	22.90	8.10	29.50	100.4	7.30	10.4	18.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00	1.0	Surface	1	2	22.90	8.00	29.70	100.9	7.30	10.9	17.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00	2.2	Bottom	3	1	22.90	8.10	29.50	100.6	7.30	9.7	22.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR4(N)	9:06:00	2.2	Bottom	3	2	22.90	8.00	29.70	101.2	7.30	10.1	21.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00	1.0	Surface	1	1	22.80	8.10	29.60	104.2	7.60	5.8	11.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00	1.0	Surface	1	2	22.90	8.00	29.80	104.9	7.60	5.7	11.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00	2.5	Bottom	3	1	22.80	8.10	29.60	106.6	7.70	6.3	12.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)9	9:20:00	2.5	Bottom	3	2	22.90	8.00	29.80	107.1	7.80	6.3	13.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00	1.0	Surface	1	1	22.90	8.10	29.70	102.7	7.40	12.7	21.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00	1.0	Surface	1	2	22.90	7.90	29.90	103.2	7.50	13.0	21.4	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00	2.4	Bottom	3	1	22.90	8.10	29.70	103.3	7.50	11.3	25.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS7	9:28:00	2.4	Bottom	3	2	22.90	7.90	29.90	104.1	7.50	11.4	25.6	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00	1.0	Surface	1	1	22.90	8.10	29.80	103.4	7.50	9.8	14.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00	1.0	Surface	1	2	23.00	7.90	30.00	104.0	7.50	9.6	14.8	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00	2.2	Bottom	3	1	22.90	8.10	29.80	105.8	7.70	10.2	17.0	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS(Mf)6	9:36:00	2.2	Bottom	3	2	23.00	7.90	30.00	106.2	7.70	9.7	18.5	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	1.0	Surface	1	1	23.00	8.10	29.70	102.2	7.40	7.1	15.9	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	1.0	Surface	1	2	23.00	7.90	29.90	102.7	7.40	7.3	15.3	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	4.8	Middle	2	1	23.00	8.10	29.80	102.4	7.40	8.2	14.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	4.8	Middle	2	2	23.00	7.90	30.00	102.9	7.40	8.0	14.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	8.6	Bottom	3	1	23.00	8.10	29.80	103.3	7.50	8.6	15.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	IS5	9:42:00	8.6	Bottom	3	2	23.00	7.90	30.00	103.8	7.50	8.2	16.1	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00	1.0	Surface	1	1	23.00	8.10	29.80	103.0	7.50	8.8	13.1	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00	1.0	Surface	1	2	23.00	7.90	30.00	103.6	7.50	8.9	14.2	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00	2.5	Bottom	3	1	23.00	8.10	29.80	105.2	7.60	8.9	16.7	
HKBCF	HY/2013/01	2018-04-20	Mid-Flood	Rainy	SR3(N)	9:48:00	2.5	Bottom	3	2	23.00	7.90	30.00	105.5	7.60	9.1	15.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	1.0	Surface	1	1	24.10	8.20	29.60	110.1	7.80	1.4	6.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	1.0	Surface	1	2	24.10	8.10	29.30	109.4	7.80	1.3	5.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	6.2	Middle	2	1	24.00	8.20	29.90	108.4	7.70	1.2	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	6.2	Middle	2	2	24.00	8.10	29.70	107.6	7.60	1.2	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	11.4	Bottom	3	1	23.90	8.20	30.10	108.4	7.70	1.3	9.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10A(N)	19:14:00	11.4	Bottom	3	2	23.90	8.10	29.90	107.7	7.70	1.3	8.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	1.0	Surface	1	1	24.20	8.20	29.80	112.4	8.00	1.9	6.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	1.0	Surface	1	2	24.20	8.10	29.60	112.0	7.90	1.9	7.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	3.4	Middle	2	1	24.20	8.20	29.80	112.3	7.90	1.9	6.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	3.4	Middle	2	2	24.20	8.10	29.60	111.9	7.90	1.9	7.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	5.8	Bottom	3	1	24.20	8.20	29.90	112.2	7.90	1.9	10.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR10B(N2)	19:08:00	5.8	Bottom	3	2	24.20	8.10	29.70	111.8	7.90	1.9	10.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	1.0	Surface	1	1	25.10	8.10	27.50	98.2	6.90	8.4	8.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	1.0	Surface	1	2	25.00	8.00	27.40	98.3	6.90	8.2	7.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	15.6	Middle	2	1	23.50	8.10	32.20	85.2	6.00	6.6	8.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	15.6	Middle	2	2	23.40	8.00	32.10	85.8	6.10	6.9	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	30.2	Bottom	3	1	23.30	8.10	32.70	83.6	5.90	8.7	7.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CSA	19:00:00	30.2	Bottom	3	2	23.30	8.00	32.70	84.5	6.00	9.0	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	1.0	Surface	1	1	24.50	8.10	28.90	96.8	6.90	8.6	8.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	1.0	Surface	1	2	24.50	8.00	28.90	97.5	6.90	8.2	8.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	4.9	Middle	2	1	24.20	8.10	29.90	93.8	6.60	9.3	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	4.9	Middle	2	2	24.20	8.00	29.90	94.5	6.70	9.0	9.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	8.8	Bottom	3	1	24.00	8.10	30.40	94.6	6.70	9.4	11.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS6	18:51:00	8.8	Bottom	3	2	24.00	8.00	30.30	94.8	6.70	11.6	13.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	1.0	Surface	1	1	25.50	8.10	25.50	103.1	7.30	9.0	6.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	1.0	Surface	1	2	25.50	8.00	25.40	105.1	7.50	9.5	6.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	8.8	Middle	2	1	23.90	8.10	30.10	91.9	6.50	7.4	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	8.8	Middle	2	2	23.90	8.00	30.10	92.6	6.60	7.7	7.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	16.6	Bottom	3	1	23.50	8.10	31.70	90.7	6.40	9.8	11.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS4	17:55:00	16.6	Bottom	3	2	23.50	8.00	31.50	92.0	6.50	8.6	11.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00	1.0	Surface	1	1	25.80	8.10	24.20	114.7	8.20	11.3	8.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00	1.0	Surface	1	2	25.70	8.00	24.20	115.1	8.20	11.4	8.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00	3.6	Bottom	3	1	24.20	8.10	29.10	109.5	7.80	12.0	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR6	17:25:00	3.6	Bottom	3	2	24.20	8.00	29.00	110.0	7.80	11.7	9.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	1.0	Surface	1	1	25.20	8.10	26.40	106.5	7.60	11.4	10.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	1.0	Surface	1	2	25.20	8.00	26.30	107.9	7.70	10.1	9.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	3.6	Middle	2	1	24.40	8.10	28.40	102.2	7.30	11.8	8.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	3.6	Middle	2	2	24.30	8.00	28.50	102.9	7.30	11.2	8.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	6.2	Bottom	3	1	24.20	8.10	29.10	101.7	7.20	12.4	15.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)3(N)	17:41:00	6.2	Bottom	3	2	24.20	8.00	29.00	102.4	7.30	13.7	16.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	1.0	Surface	1	1	25.00	8.20	27.40	108.8	7.70	9.6	6.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	1.0	Surface	1	2	25.00	8.10	27.40	109.4	7.70	9.7	5.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	4.9	Middle	2	1	24.50	8.10	28.10	97.4	6.90	12.1	10.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	4.9	Middle	2	2	24.50	8.00	28.10	99.5	7.10	11.5	9.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	8.7	Bottom	3	1	24.20	8.10	29.10	94.3	6.70	12.8	13.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR5(N)	18:12:00	8.7	Bottom	3	2	24.10	8.00	29.10	95.0	6.80	13.8	13.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	1.0	Surface	1	1	24.70	8.20	28.00	105.5	7.50	10.3	11.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	1.0	Surface	1	2	24.70	8.10	27.90	105.7	7.50	10.3	11.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	6.1	Middle	2	1	24.50	8.20	28.60	97.4	6.90	10.5	13.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	6.1	Middle	2	2	24.50	8.10	28.40	101.1	7.20	10.1	11.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	11.1	Bottom	3	1	23.90	8.10	30.30	97.7	6.90	10.9	15.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS10(N)	18:18:00	11.1	Bottom	3	2	23.90	8.00	30.30	97.8	6.90	11.1	15.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	1.0	Surface	1	1	25.00	8.20	27.80	106.2	7.50	8.7	8.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	1.0	Surface	1	2	25.00	8.10	27.80	106.8	7.60	9.1	7.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	5.5	Middle	2	1	24.70	8.10	28.20	100.9	7.10	9.2	9.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	5.5	Middle	2	2	24.70	8.00	28.20	102.6	7.30	9.0	9.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	10.0	Bottom	3	1	24.10	8.10	29.90	100.8	7.10	9.6	12.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)11	18:23:00	10.0	Bottom	3	2	24.10	8.00	29.70	101.4	7.20	9.4	12.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	1.0	Surface	1	1	24.60	8.00	28.10	116.8	8.30	2.6	8.6	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	1.0	Surface	1	2	24.60	8.10	27.90	116.1	8.30	2.5	10.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	6.0	Middle	2	1	23.70	8.00	29.90	104.5	7.50	4.4	15.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	6.0	Middle	2	2	23.70	8.10	29.70	103.5	7.40	4.3	14.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	11.0	Bottom	3	1	23.60	8.00	30.30	100.0	7.10	5.6	15.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	CS(Mf)5	18:38:00	11.0	Bottom	3	2	23.60	8.10	30.10	100.0	7.10	5.6	14.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00	1.0	Surface	1	1	24.70	8.10	27.90	102.0	7.20	9.9	9.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00	1.0	Surface	1	2	24.60	8.00	27.80	102.6	7.30	10.3	8.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00	3.1	Bottom	3	1	24.60	8.10	28.00	101.2	7.20	9.3	9.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR7	18:32:00	3.1	Bottom	3	2	24.60	8.00	28.00	101.9	7.20	10.3	10.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	1.0	Surface	1	1	24.40	8.10	28.20	117.8	8.40	4.3	12.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	1.0	Surface	1	2	24.40	8.10	27.90	117.2	8.40	4.2	13.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	5.4	Middle	2	1	23.70	8.10	29.70	100.9	7.20	4.2	12.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	5.4	Middle	2	2	23.70	8.10	29.50	100.6	7.20	4.1	13.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	9.8	Bottom	3	1	23.70	8.10	29.90	100.9	7.20	4.2	15.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS17	18:24:00	9.8	Bottom	3	2	23.70	8.10	29.70	100.7	7.20	4.1	15.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00	1.0	Surface	1	1	24.50	8.10	29.20	117.8	8.30	12.3	13.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00	1.0	Surface	1	2	24.40	8.10	29.00	116.4	8.20	12.3	12.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00	4.9	Bottom	3	1	23.90	8.00	29.60	102.4	7.30	5.5	14.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)16	18:17:00	4.9	Bottom	3	2	23.90	8.10	29.50	101.3	7.20	5.4	13.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00	1.0	Surface	1	1	24.20	8.20	27.50	111.4	8.00	4.7	7.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00	1.0	Surface	1	2	24.60	8.20	27.30	111.6	8.00	4.1	7.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00	3.3	Bottom	3	1	24.10	8.20	27.60	106.9	7.70	5.1	8.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS8	17:57:00	3.3	Bottom	3	2	24.60	8.20	27.50	106.9	7.60	4.8	7.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00	1.0	Surface	1	1	25.00	8.00	29.00	114.9	8.10	3.8	8.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00	1.0	Surface	1	2	25.00	8.10	28.80	114.2	8.00	3.7	7.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00	3.2	Bottom	3	1	24.90	8.00	29.00	113.7	8.00	4.2	11.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR4(N)	18:02:00	3.2	Bottom	3	2	24.90	8.10	28.80	113.2	8.00	4.2	11.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00	1.0	Surface	1	1	25.30	8.10	29.00	132.6	9.30	2.2	6.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00	1.0	Surface	1	2	25.20	8.20	28.80	132.0	9.20	2.1	6.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00	2.6	Bottom	3	1	25.30	8.10	29.00	130.6	9.10	2.7	7.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)9	17:51:00	2.6	Bottom	3	2	25.30	8.20	28.80	129.7	9.10	2.6	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00	1.0	Surface	1	1	25.30	8.10	29.00	130.2	9.10	1.9	9.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00	1.0	Surface	1	2	25.20	8.20	28.80	129.7	9.10	2.0	8.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00	2.3	Bottom	3	1	25.30	8.10	29.10	128.6	9.00	2.0	8.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS7	17:44:00	2.3	Bottom	3	2	25.30	8.20	28.90	127.8	8.90	1.9	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00	1.5	Middle	2	1	24.90	8.10	29.20	117.5	8.20	6.3	12.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00	1.5	Middle	2	2	24.90	8.10	28.90	116.9	8.20	6.2	11.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS(Mf)6	17:38:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	1.0	Surface	1	1	24.90	8.10	28.60	125.4	8.80	3.5	9.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	1.0	Surface	1	2	24.90	8.20	28.40	124.9	8.80	3.5	8.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	5.0	Middle	2	1	24.70	8.10	29.10	115.1	8.10	5.3	14.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	5.0	Middle	2	2	24.70	8.10	28.90	114.9	8.10	5.4	14.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	9.0	Bottom	3	1	24.70	8.10	29.20	114.8	8.10	5.8	13.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	IS5	17:31:00	9.0	Bottom	3	2	24.70	8.20	29.00	116.4	8.20	5.8	13.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00	1.0	Surface	1	1	24.90	8.10	28.90	124.3	8.70	3.7	13.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00	1.0	Surface	1	2	24.80	8.20	28.70	123.5	8.70	3.7	13.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00	2.9	Bottom	3	1	25.00	8.10	29.10	125.4	8.80	4.4	12.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Ebb	Cloudy	SR3(N)	17:26:00	2.9	Bottom	3	2	25.00	8.20	28.90	124.4	8.70	4.3	13.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	1.0	Surface	1	1	23.80	8.20	30.00	106.1	7.60	1.8	8.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	1.0	Surface	1	2	23.80	8.10	29.90	105.4	7.50	1.7	9.5	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	6.0	Middle	2	1	23.60	8.20	30.40	99.6	7.10	2.4	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	6.0	Middle	2	2	23.60	8.10	30.20	99.3	7.10	2.4	10.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	11.0	Bottom	3	1	23.40	8.20	31.10	98.4	7.00	2.3	10.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10A(N)	10:29:00	11.0	Bottom	3	2	23.40	8.10	30.90	98.1	7.00	2.2	11.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	1.0	Surface	1	1	23.50	8.10	31.00	98.2	7.00	2.0	6.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	1.0	Surface	1	2	23.50	8.10	30.80	98.1	7.00	2.0	5.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	3.1	Middle	2	1	23.50	8.00	31.10	97.7	7.00	2.3	6.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	3.1	Middle	2	2	23.40	8.10	30.90	97.7	7.00	2.3	7.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	5.2	Bottom	3	1	23.50	8.00	31.10	97.6	6.90	2.9	12.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR10B(N2)	10:35:00	5.2	Bottom	3	2	23.40	8.10	30.90	97.8	7.00	2.9	12.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	1.0	Surface	1	1	24.50	8.10	29.00	97.8	6.90	8.1	9.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	1.0	Surface	1	2	24.50	8.00	29.10	97.7	6.90	7.4	7.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	16.4	Middle	2	1	23.60	8.10	31.50	88.5	6.30	8.7	9.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	16.4	Middle	2	2	23.60	8.00	31.40	89.0	6.30	8.0	9.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	31.7	Bottom	3	1	23.50	8.00	31.80	88.7	6.30	9.5	12.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CSA	10:48:00	31.7	Bottom	3	2	23.50	7.90	31.80	88.2	6.30	10.3	11.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	1.0	Surface	1	1	24.50	8.10	29.20	95.7	6.80	7.8	4.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	1.0	Surface	1	2	24.40	8.00	29.20	96.3	6.80	7.7	3.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	4.8	Middle	2	1	23.80	8.10	30.10	91.5	6.50	7.6	6.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	4.8	Middle	2	2	23.80	8.00	30.00	92.1	6.60	8.0	7.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	8.6	Bottom	3	1	23.60	8.10	31.30	91.2	6.50	9.0	12.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS6	11:02:00	8.6	Bottom	3	2	23.60	8.00	31.30	91.8	6.50	9.4	13.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	1.0	Surface	1	1	24.50	8.00	27.30	94.7	6.80	9.3	9.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	1.0	Surface	1	2	24.50	7.90	27.20	95.6	6.80	10.1	8.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	8.9	Middle	2	1	23.80	8.10	30.00	89.8	6.40	9.6	9.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	8.9	Middle	2	2	23.80	8.00	29.90	91.5	6.50	9.7	8.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	16.8	Bottom	3	1	23.50	8.10	31.30	88.3	6.30	13.3	22.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS4	12:06:00	16.8	Bottom	3	2	23.50	8.00	31.20	89.8	6.40	15.6	23.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00	1.0	Surface	1	1	25.30	8.10	26.10	107.3	7.60	9.7	7.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00	1.0	Surface	1	2	25.30	8.00	26.10	108.0	7.70	10.6	6.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00	3.5	Bottom	3	1	24.20	8.10	28.60	101.4	7.20	10.3	12.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR6	12:40:00	3.5	Bottom	3	2	24.20	8.00	28.60	101.9	7.30	11.6	12.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	1.0	Surface	1	1	25.30	8.00	26.40	100.5	7.10	10.2	13.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	1.0	Surface	1	2	25.30	7.90	26.40	101.1	7.20	11.0	11.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	3.7	Middle	2	1	24.30	8.00	27.40	96.6	6.90	11.4	15.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	3.7	Middle	2	2	24.30	7.90	27.40	97.3	7.00	14.2	14.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	6.3	Bottom	3	1	24.10	8.10	28.30	96.3	6.90	14.4	16.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)3(N)	12:20:00	6.3	Bottom	3	2	24.10	8.00	28.30	96.8	6.90	17.4	17.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	1.0	Surface	1	1	25.00	8.00	27.50	99.4	7.00	9.3	12.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	1.0	Surface	1	2	25.00	7.90	27.50	100.0	7.10	9.1	11.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	5.0	Middle	2	1	24.20	8.10	28.30	96.3	6.90	10.5	13.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	5.0	Middle	2	2	24.20	8.00	28.20	97.1	6.90	10.2	12.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	9.0	Bottom	3	1	24.00	8.10	29.50	95.6	6.80	10.1	13.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR5(N)	11:47:00	9.0	Bottom	3	2	24.00	8.00	29.50	95.8	6.80	11.5	13.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	1.0	Surface	1	1	24.90	8.10	27.40	98.0	7.00	8.6	11.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	1.0	Surface	1	2	24.90	8.00	27.20	98.9	7.00	9.2	10.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	6.3	Middle	2	1	24.10	8.10	28.80	94.3	6.70	8.2	12.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	6.3	Middle	2	2	24.10	8.00	28.70	95.3	6.80	9.3	12.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	11.6	Bottom	3	1	23.80	8.10	30.20	93.7	6.70	9.8	13.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS10(N)	11:39:00	11.6	Bottom	3	2	23.80	8.00	30.10	93.5	6.70	10.2	13.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	1.0	Surface	1	1	25.10	8.10	27.10	99.9	7.10	8.5	8.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	1.0	Surface	1	2	25.10	8.00	27.00	100.7	7.10	9.1	7.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	5.7	Middle	2	1	24.20	8.10	29.00	95.7	6.80	9.7	10.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	5.7	Middle	2	2	24.20	8.00	29.00	96.3	6.90	9.9	10.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	10.4	Bottom	3	1	23.80	8.10	30.40	93.0	6.60	13.7	21.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)11	11:31:00	10.4	Bottom	3	2	23.80	8.00	30.40	93.8	6.70	16.7	21.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	1.0	Surface	1	1	24.10	8.10	29.10	108.3	7.70	2.1	7.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	1.0	Surface	1	2	24.00	8.10	28.90	107.8	7.70	2.1	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	5.7	Middle	2	1	23.60	8.10	29.90	99.9	7.10	1.8	7.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	5.7	Middle	2	2	23.60	8.10	29.70	99.5	7.10	1.8	9.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	10.3	Bottom	3	1	23.60	8.10	30.00	99.3	7.10	2.3	9.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	CS(Mf)5	11:05:00	10.3	Bottom	3	2	23.60	8.10	29.80	99.1	7.10	2.3	9.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00	1.0	Surface	1	1	24.30	8.10	27.90	95.7	6.80	7.5	28.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00	1.0	Surface	1	2	24.30	8.00	27.80	96.1	6.90	9.0	28.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00		Middle	2	1								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00	3.3	Bottom	3	1	24.00	8.10	29.60	95.5	6.80	8.1	38.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR7	11:24:00	3.3	Bottom	3	2	24.00	8.00	29.60	95.7	6.80	9.2	39.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	1.0	Surface	1	1	24.10	8.00	28.90	110.9	7.90	2.5	9.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	1.0	Surface	1	2	24.00	8.10	28.80	110.1	7.90	2.6	8.3	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	5.1	Middle	2	1	23.90	8.00	29.50	105.3	7.50	3.3	9.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	5.1	Middle	2	2	23.80	8.10	29.30	104.8	7.50	3.4	9.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	9.2	Bottom	3	1	23.60	8.00	29.80	99.5	7.10	5.3	11.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS17	11:23:00	9.2	Bottom	3	2	23.60	8.10	29.60	99.3	7.10	5.3	10.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00	1.0	Surface	1	1	24.40	8.00	28.40	114.6	8.10	2.4	9.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00	1.0	Surface	1	2	24.40	8.10	28.20	114.1	8.10	2.4	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00	4.7	Bottom	3	1	24.20	8.00	29.30	109.5	7.80	3.9	11.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)16	11:31:00	4.7	Bottom	3	2	24.10	8.10	29.10	109.5	7.80	3.9	10.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00	1.0	Surface	1	1	24.20	8.00	29.50	108.6	7.70	5.4	6.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00	1.0	Surface	1	2	24.20	8.10	29.30	107.6	7.60	5.5	5.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00	3.3	Bottom	3	1	24.10	8.00	29.70	103.4	7.30	6.8	9.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS8	11:50:00	3.3	Bottom	3	2	24.10	8.10	29.50	103.2	7.30	6.9	9.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00	1.0	Surface	1	1	24.10	8.00	29.50	102.6	7.30	6.9	14.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00	1.0	Surface	1	2	24.10	8.10	29.30	102.3	7.30	6.9	13.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00	3.0	Bottom	3	1	24.10	8.00	29.50	102.4	7.30	7.1	16.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR4(N)	11:45:00	3.0	Bottom	3	2	24.10	8.10	29.30	102.1	7.30	7.1	16.0	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00	1.0	Surface	1	1	24.70	8.00	29.10	115.9	8.20	3.8	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00	1.0	Surface	1	2	24.70	8.10	28.90	115.3	8.10	3.8	8.1	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00	2.2	Bottom	3	1	24.60	8.00	29.20	115.1	8.10	4.1	13.7	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)9	11:58:00	2.2	Bottom	3	2	24.50	8.10	29.00	114.4	8.10	4.2	12.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00	1.4	Middle	2	1	24.40	8.10	29.10	115.4	8.20	3.4	8.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00	1.4	Middle	2	2	24.40	8.10	28.90	115.0	8.10	3.4	7.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS7	12:06:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00	1.3	Middle	2	1	24.50	8.00	29.20	112.8	8.00	9.8	11.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00	1.3	Middle	2	2	24.50	8.10	29.00	112.4	7.90	9.7	12.9	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS(Mf)6	12:13:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	1.0	Surface	1	1	24.50	8.00	29.50	109.3	7.70	6.4	15.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	1.0	Surface	1	2	24.50	8.10	29.30	108.5	7.70	6.4	16.6	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	4.8	Middle	2	1	24.30	8.00	29.60	106.7	7.50	7.6	16.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	4.8	Middle	2	2	24.30	8.10	29.40	106.1	7.50	7.5	15.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	8.6	Bottom	3	1	24.30	8.00	29.60	106.3	7.50	8.6	15.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	IS5	12:17:00	8.6	Bottom	3	2	24.30	8.10	29.40	106.0	7.50	8.5	15.2	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00	1.0	Surface	1	1	24.30	8.00	29.30	109.1	7.70	5.3	8.8	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00	1.0	Surface	1	2	24.30	8.10	29.10	108.9	7.70	5.2	8.4	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00	2.6	Bottom	3	1	24.30	8.00	29.30	109.5	7.80	5.5	9.5	
HKBCF	HY/2013/01	2018-04-23	Mid-Flood	Sunny	SR3(N)	12:25:00	2.6	Bottom	3	2	24.30	8.10	29.10	109.4	7.80	5.5	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	1.0	Surface	1	1	23.90	8.00	29.20	87.4	6.20	1.7	7.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	1.0	Surface	1	2	23.90	8.00	29.40	87.6	6.20	1.6	6.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	7.2	Middle	2	1	23.60	7.90	30.70	84.6	6.00	2.1	7.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	7.2	Middle	2	2	23.70	7.90	30.90	84.8	6.00	2.1	8.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	13.4	Bottom	3	1	23.50	8.00	31.40	83.8	5.90	7.4	12.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10A(N)	8:49:00	13.4	Bottom	3	2	23.60	8.00	31.60	83.6	5.90	7.2	13.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	1.0	Surface	1	1	23.80	8.00	30.10	87.4	6.20	2.0	5.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	1.0	Surface	1	2	23.80	8.00	30.30	87.3	6.20	2.0	7.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	4.2	Middle	2	1	23.60	8.00	30.80	87.6	6.20	1.8	7.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	4.2	Middle	2	2	23.60	8.00	31.00	87.4	6.20	1.9	8.3	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	7.3	Bottom	3	1	23.60	7.90	31.10	87.8	6.20	2.0	7.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR10B(N2)	8:57:00	7.3	Bottom	3	2	23.60	7.90	31.30	87.7	6.20	1.9	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	1.0	Surface	1	1	24.00	8.00	30.40	92.5	6.60	6.8	10.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	1.0	Surface	1	2	24.00	8.00	30.30	93.1	6.60	6.7	11.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	16.1	Middle	2	1	23.60	8.10	32.80	90.9	6.40	5.8	10.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	16.1	Middle	2	2	23.60	8.00	32.90	91.7	6.40	5.9	10.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	31.1	Bottom	3	1	23.60	8.10	32.90	90.5	6.40	7.2	13.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CSA	9:05:00	31.1	Bottom	3	2	23.60	8.00	32.90	91.1	6.40	7.2	13.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	1.0	Surface	1	1	24.10	8.10	29.80	92.1	6.50	5.8	7.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	1.0	Surface	1	2	24.10	8.00	29.70	92.8	6.60	5.9	6.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	4.6	Middle	2	1	23.70	8.10	32.10	92.0	6.50	6.4	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	4.6	Middle	2	2	23.70	8.00	32.10	92.9	6.60	6.6	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	8.2	Bottom	3	1	23.60	8.10	32.70	93.0	6.50	7.2	6.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS6	9:21:00	8.2	Bottom	3	2	23.60	8.00	32.70	93.8	6.60	7.3	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	1.0	Surface	1	1	24.90	8.10	26.70	96.6	6.90	9.3	8.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	1.0	Surface	1	2	24.90	8.00	26.60	97.0	6.90	9.4	8.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	8.1	Middle	2	1	24.20	8.10	28.70	90.9	6.50	8.4	8.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	8.1	Middle	2	2	24.20	8.00	28.70	91.4	6.50	8.5	7.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	15.1	Bottom	3	1	23.90	8.10	31.30	89.7	6.30	7.7	24.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS4	10:39:00	15.1	Bottom	3	2	23.80	8.00	31.30	90.4	6.40	7.6	23.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00	1.0	Surface	1	1	24.10	8.20	27.70	102.5	7.40	8.1	7.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00	1.0	Surface	1	2	24.10	8.00	27.70	102.5	7.40	8.2	8.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00	3.7	Bottom	3	1	24.00	8.10	30.70	100.7	7.10	10.6	8.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR6	11:14:00	3.7	Bottom	3	2	24.00	8.00	30.60	101.4	7.20	10.8	8.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	1.0	Surface	1	1	24.50	8.00	24.00	98.8	7.20	7.9	5.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	1.0	Surface	1	2	24.50	7.90	24.00	99.3	7.20	7.8	5.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	3.9	Middle	2	1	24.20	8.10	27.70	98.5	7.00	9.5	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	3.9	Middle	2	2	24.20	8.00	27.70	99.2	7.10	9.6	6.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	6.7	Bottom	3	1	24.10	8.10	29.50	97.5	6.90	10.9	8.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)3(N)	10:54:00	6.7	Bottom	3	2	24.10	8.00	29.50	98.2	7.00	10.8	7.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	1.0	Surface	1	1	24.40	8.10	26.80	91.8	6.60	8.4	8.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	1.0	Surface	1	2	24.40	8.00	26.80	92.9	6.70	8.2	7.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	4.7	Middle	2	1	24.30	8.10	28.40	90.3	6.40	8.2	11.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	4.7	Middle	2	2	24.30	8.00	28.30	90.9	6.50	8.1	11.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	8.4	Bottom	3	1	24.10	8.10	30.20	89.9	6.40	7.0	23.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR5(N)	10:16:00	8.4	Bottom	3	2	24.00	8.00	30.10	90.5	6.40	7.2	22.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	1.0	Surface	1	1	24.50	8.10	27.20	92.2	6.60	8.8	7.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	1.0	Surface	1	2	24.40	8.00	27.00	92.8	6.70	8.9	6.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	6.4	Middle	2	1	24.10	8.10	30.10	88.5	6.30	7.5	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	6.4	Middle	2	2	24.00	8.00	30.20	89.5	6.30	7.6	8.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	11.7	Bottom	3	1	23.70	8.10	31.80	90.0	6.40	10.8	17.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS10(N)	10:09:00	11.7	Bottom	3	2	23.70	8.00	31.80	90.8	6.40	10.9	17.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	1.0	Surface	1	1	24.50	8.10	26.70	93.8	6.70	8.9	6.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	1.0	Surface	1	2	24.40	8.00	26.80	90.9	6.50	8.7	5.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	5.6	Middle	2	1	24.10	8.10	30.00	87.6	6.20	9.2	6.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	5.6	Middle	2	2	24.10	8.00	30.00	88.4	6.30	9.3	7.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	10.2	Bottom	3	1	24.00	8.00	30.90	90.7	6.40	11.1	15.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)11	9:59:00	10.2	Bottom	3	2	23.90	8.00	31.00	91.4	6.50	11.2	16.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	1.0	Surface	1	1	24.10	8.00	26.50	91.8	6.60	1.6	5.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	1.0	Surface	1	2	24.10	8.00	26.60	91.5	6.60	1.5	6.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	6.7	Middle	2	1	23.50	8.00	31.30	84.3	6.00	2.8	5.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	6.7	Middle	2	2	23.60	8.00	31.50	84.1	6.00	2.9	5.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	12.3	Bottom	3	1	23.50	8.00	31.60	85.2	6.00	8.1	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	CS(Mf)5	9:41:00	12.3	Bottom	3	2	23.50	8.00	31.80	85.0	6.00	8.1	8.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00	1.0	Surface	1	1	24.30	8.10	27.20	92.3	6.60	8.9	5.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00	1.0	Surface	1	2	24.30	8.00	27.30	92.7	6.60	8.9	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00	3.7	Bottom	3	1	24.30	8.10	29.00	92.4	6.60	9.6	8.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR7	9:52:00	3.7	Bottom	3	2	24.20	8.00	29.00	92.9	6.60	9.6	8.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	1.0	Surface	1	1	24.00	7.90	27.30	82.3	5.90	5.0	7.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	1.0	Surface	1	2	24.00	7.90	27.50	82.0	5.90	4.9	7.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	5.7	Middle	2	1	23.90	7.90	29.70	81.3	5.80	5.0	12.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	5.7	Middle	2	2	23.90	7.90	29.90	81.2	5.80	5.4	13.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	10.4	Bottom	3	1	23.70	7.90	30.40	82.1	5.80	5.2	13.9	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS17	10:09:00	10.4	Bottom	3	2	23.70	7.90	30.60	82.1	5.80	5.0	14.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00	1.0	Surface	1	1	24.40	7.90	27.20	88.7	6.40	3.4	9.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00	1.0	Surface	1	2	24.40	7.90	27.40	88.5	6.30	3.3	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00	4.9	Bottom	3	1	23.90	7.90	29.70	83.4	5.90	6.5	8.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)16	10:21:00	4.9	Bottom	3	2	23.90	7.90	29.90	83.4	5.90	6.5	8.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS8	10:50:00	1.0	Surface	1	1	24.50	7.90	26.00	93.1	6.70	1.8	3.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS8	10:50:00	1.0	Surface	1	2	24.50	7.90	26.20	93.0	6.70	1.9	4.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS8	10:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS8	10:50:00	3.3	Bottom	3	1	24.70	7.90	26.80	88.4	6.30	6.8	3.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS8	10:50:00	3.3	Bottom	3	2	24.70	7.90	27.00	88.4	6.30	6.7	3.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00	1.0	Surface	1	1	24.50	7.90	26.10	86.6	6.20	4.4	3.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00	1.0	Surface	1	2	24.60	7.90	26.30	86.4	6.20	4.3	5.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00	2.8	Bottom	3	1	24.60	7.90	26.30	87.0	6.20	5.1	7.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR4(N)	10:40:00	2.8	Bottom	3	2	24.60	7.90	26.50	87.0	6.20	4.8	9.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00	1.0	Surface	1	1	24.50	7.90	26.20	90.8	6.50	5.3	5.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00	1.0	Surface	1	2	24.50	7.90	26.40	90.5	6.50	5.1	5.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00	2.5	Bottom	3	1	24.50	7.90	26.20	89.7	6.40	6.5	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)9	11:03:00	2.5	Bottom	3	2	24.50	7.90	26.40	89.6	6.40	6.1	7.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00	1.0	Surface	1	1	24.40	8.00	26.00	92.8	6.70	2.2	7.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00	1.0	Surface	1	2	24.50	8.00	26.20	92.9	6.70	2.1	6.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00	2.4	Bottom	3	1	24.40	7.90	26.60	90.1	6.50	2.2	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS7	11:14:00	2.4	Bottom	3	2	24.50	7.90	26.70	90.6	6.50	2.1	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00	1.0	Surface	1	1	24.50	7.90	26.80	91.4	6.50	10.5	3.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00	1.0	Surface	1	2	24.60	7.90	27.00	91.4	6.50	10.9	4.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00	2.1	Bottom	3	1	24.50	7.90	26.90	91.2	6.50	27.4	10.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS(Mf)6	11:21:00	2.1	Bottom	3	2	24.60	7.90	27.00	91.2	6.50	25.7	10.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	1.0	Surface	1	1	24.30	8.00	27.30	92.7	6.60	4.9	5.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	1.0	Surface	1	2	24.30	8.00	27.50	92.6	6.60	4.9	4.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	4.7	Middle	2	1	24.30	8.00	27.60	92.6	6.60	6.2	8.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	4.7	Middle	2	2	24.30	8.00	27.80	92.5	6.60	6.5	8.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	8.4	Bottom	3	1	24.20	8.00	27.70	92.5	6.60	6.8	9.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	IS5	11:34:00	8.4	Bottom	3	2	24.20	8.00	27.90	92.5	6.60	7.4	9.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00	1.0	Surface	1	1	24.40	7.90	27.20	90.7	6.50	6.4	7.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00	1.0	Surface	1	2	24.40	7.90	27.40	90.6	6.50	6.8	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00	3.4	Bottom	3	1	24.40	7.90	27.50	92.2	6.60	9.1	6.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Ebb	Cloudy	SR3(N)	11:40:00	3.4	Bottom	3	2	24.40	7.90	27.70	91.9	6.60	9.0	6.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	1.0	Surface	1	1	23.70	8.00	30.30	86.8	6.20	1.6	6.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	1.0	Surface	1	2	23.70	8.00	30.60	86.7	6.20	1.6	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	7.0	Middle	2	1	23.60	8.00	31.20	86.2	6.10	2.9	5.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	7.0	Middle	2	2	23.60	8.00	31.50	86.2	6.10	3.0	5.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	13.0	Bottom	3	1	23.50	8.00	31.70	87.1	6.20	5.3	8.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10A(N)	15:53:00	13.0	Bottom	3	2	23.50	8.00	31.90	87.0	6.20	5.1	8.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	1.0	Surface	1	1	23.50	8.00	31.60	89.9	6.40	2.3	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	1.0	Surface	1	2	23.50	8.10	31.80	89.8	6.40	2.3	6.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	4.1	Middle	2	1	23.50	8.00	31.80	90.0	6.40	3.4	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	4.1	Middle	2	2	23.50	8.10	32.00	89.9	6.40	3.7	7.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	7.1	Bottom	3	1	23.50	8.00	32.10	90.6	6.40	7.7	7.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR10B(N2)	15:49:00	7.1	Bottom	3	2	23.50	8.00	32.30	90.6	6.40	7.8	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	1.0	Surface	1	1	24.10	8.10	29.50	92.8	6.60	5.9	6.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	1.0	Surface	1	2	24.10	8.00	29.70	94.1	6.70	5.9	5.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	16.4	Middle	2	1	23.70	8.10	32.30	90.1	6.30	5.8	9.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	16.4	Middle	2	2	23.60	8.00	32.30	91.1	6.40	5.9	10.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	31.8	Bottom	3	1	23.60	8.10	32.80	89.4	6.30	6.2	9.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CSA	16:07:00	31.8	Bottom	3	2	23.60	8.00	32.80	90.3	6.40	6.3	10.7	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	1.0	Surface	1	1	24.10	8.10	29.60	93.9	6.70	6.2	5.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	1.0	Surface	1	2	24.10	8.00	29.80	94.2	6.70	6.3	5.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	4.8	Middle	2	1	23.90	8.10	30.90	91.8	6.50	5.6	7.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	4.8	Middle	2	2	23.90	8.00	31.00	92.5	6.50	5.7	6.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	8.6	Bottom	3	1	23.70	8.10	31.90	91.7	6.50	7.5	9.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS6	15:57:00	8.6	Bottom	3	2	23.70	8.00	31.90	92.1	6.50	7.4	8.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	1.0	Surface	1	1	24.60	8.10	27.10	95.2	6.80	8.7	7.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	1.0	Surface	1	2	24.40	8.00	27.30	94.2	6.70	8.8	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	8.4	Middle	2	1	24.00	8.10	29.90	91.8	6.50	9.0	7.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	8.4	Middle	2	2	24.00	8.00	29.90	92.6	6.60	9.1	8.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	15.7	Bottom	3	1	23.70	8.10	32.10	93.1	6.60	9.1	11.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS4	14:44:00	15.7	Bottom	3	2	23.70	8.00	32.10	94.0	6.60	9.0	12.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00	1.0	Surface	1	1	24.20	8.10	26.20	100.3	7.20	7.8	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00	1.0	Surface	1	2	24.20	8.00	26.20	100.8	7.30	7.9	5.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00	3.7	Bottom	3	1	23.90	8.10	30.90	100.4	7.10	9.2	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR6	14:12:00	3.7	Bottom	3	2	23.90	8.00	30.80	101.1	7.20	9.3	9.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	1.0	Surface	1	1	24.30	8.10	25.90	98.3	7.10	8.3	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	1.0	Surface	1	2	24.30	8.00	25.90	99.2	7.20	8.4	5.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	3.6	Middle	2	1	24.30	8.10	27.20	97.8	7.00	8.6	10.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	3.6	Middle	2	2	24.30	8.00	27.20	98.4	7.10	8.4	11.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	6.2	Bottom	3	1	24.20	8.10	28.00	98.0	7.00	9.7	10.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)3(N)	14:29:00	6.2	Bottom	3	2	24.20	8.00	27.90	98.8	7.10	9.6	10.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	1.0	Surface	1	1	24.40	8.10	27.20	92.5	6.60	8.4	4.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	1.0	Surface	1	2	24.40	8.00	27.30	92.5	6.60	8.4	3.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	4.7	Middle	2	1	24.20	8.10	29.00	88.8	6.30	12.0	6.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	4.7	Middle	2	2	24.20	8.00	29.00	90.2	6.40	11.8	5.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	8.4	Bottom	3	1	24.00	8.10	30.60	89.5	6.30	18.4	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR5(N)	15:07:00	8.4	Bottom	3	2	24.00	8.00	30.50	90.5	6.40	18.6	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	1.0	Surface	1	1	24.40	8.10	27.10	91.7	6.60	8.0	7.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	1.0	Surface	1	2	24.40	8.00	27.20	91.7	6.60	7.8	6.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	6.3	Middle	2	1	23.90	8.10	30.70	86.5	6.10	11.0	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	6.3	Middle	2	2	23.90	8.00	30.70	87.2	6.20	11.2	5.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	11.6	Bottom	3	1	23.80	8.10	31.20	86.4	6.10	15.6	12.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS10(N)	15:13:00	11.6	Bottom	3	2	23.80	8.00	31.20	87.5	6.20	15.5	11.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	1.0	Surface	1	1	24.30	8.10	26.80	94.2	6.80	7.6	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	1.0	Surface	1	2	24.30	8.00	26.80	94.9	6.80	7.7	6.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	5.6	Middle	2	1	24.00	8.10	30.50	87.8	6.20	11.0	5.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	5.6	Middle	2	2	24.00	8.00	30.50	88.8	6.30	11.2	6.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	10.2	Bottom	3	1	23.90	8.10	31.10	92.5	6.50	13.0	7.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)11	15:19:00	10.2	Bottom	3	2	23.90	8.00	31.00	94.6	6.70	13.1	7.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	1.0	Surface	1	1	24.00	8.00	28.20	86.5	6.20	1.9	7.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	1.0	Surface	1	2	24.00	8.00	28.40	86.3	6.20	2.0	8.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	6.5	Middle	2	1	23.60	8.00	31.10	85.2	6.00	3.9	9.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	6.5	Middle	2	2	23.60	8.00	31.40	85.0	6.00	4.0	8.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	12.0	Bottom	3	1	23.50	8.00	31.70	85.2	6.00	5.6	10.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	CS(Mf)5	15:12:00	12.0	Bottom	3	2	23.50	8.10	31.90	85.1	6.00	5.6	10.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00	1.0	Surface	1	1	24.30	8.10	27.80	95.2	6.80	7.0	8.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00	1.0	Surface	1	2	24.30	8.00	27.90	95.9	6.80	7.1	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00	3.3	Bottom	3	1	24.20	8.10	28.50	98.7	7.00	8.3	11.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR7	15:30:00	3.3	Bottom	3	2	24.20	8.00	28.70	98.8	7.00	8.4	10.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	1.0	Surface	1	1	24.50	8.00	26.60	91.1	6.50	2.5	5.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	1.0	Surface	1	2	24.50	8.10	26.80	91.0	6.50	2.4	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	5.6	Middle	2	1	23.90	7.90	29.20	82.4	5.90	3.7	5.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	5.6	Middle	2	2	23.90	8.10	28.50	82.2	5.90	3.7	6.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	10.2	Bottom	3	1	23.80	7.90	30.20	81.3	5.80	4.8	5.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS17	14:52:00	10.2	Bottom	3	2	23.80	8.00	30.40	81.2	5.80	4.7	6.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00	1.0	Surface	1	1	24.50	7.90	26.80	91.3	6.50	3.1	6.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00	1.0	Surface	1	2	24.50	8.00	27.00	91.5	6.50	3.1	5.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00	4.6	Bottom	3	1	24.50	7.90	27.00	92.6	6.60	3.6	7.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)16	14:43:00	4.6	Bottom	3	2	24.10	8.00	27.40	92.8	6.70	3.5	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00	1.0	Surface	1	1	24.30	7.90	27.80	87.4	6.30	4.9	5.5	

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00	1.0	Surface	1	2	24.30	8.00	28.00	87.6	6.30	5.1	4.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00	3.3	Bottom	3	1	24.10	7.90	28.50	82.2	5.90	7.0	12.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS8	14:22:00	3.3	Bottom	3	2	24.20	8.00	28.70	82.3	5.90	6.8	13.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00	1.0	Surface	1	1	24.40	7.90	27.40	86.7	6.20	6.3	6.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00	1.0	Surface	1	2	24.40	8.00	27.60	86.7	6.20	6.4	6.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00	2.6	Bottom	3	1	24.40	7.90	27.20	87.6	6.30	6.1	6.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR4(N)	14:28:00	2.6	Bottom	3	2	24.40	8.00	27.30	87.8	6.30	6.0	5.5	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00	1.0	Surface	1	1	24.50	8.00	26.30	94.2	6.80	3.5	2.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00	1.0	Surface	1	2	24.60	8.00	26.50	93.7	6.70	3.4	3.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00	2.3	Bottom	3	1	24.50	8.00	26.30	95.3	6.80	3.4	4.1	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)9	14:12:00	2.3	Bottom	3	2	24.50	8.00	26.40	95.3	6.80	3.3	3.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00	1.5	Middle	2	1	24.40	8.00	26.10	96.7	7.00	2.2	3.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00	1.5	Middle	2	2	24.40	8.00	26.20	97.2	7.00	2.3	4.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS7	14:05:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00	1.4	Middle	2	1	24.50	7.90	26.40	96.9	7.00	3.8	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00	1.4	Middle	2	2	24.50	8.00	26.60	97.4	7.00	3.3	7.2	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS(Mf)6	13:58:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	1.0	Surface	1	1	24.40	8.00	26.80	92.5	6.60	3.4	6.9	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	1.0	Surface	1	2	24.40	8.00	27.00	92.4	6.60	3.5	6.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	4.7	Middle	2	1	24.20	8.00	27.80	91.5	6.50	5.5	6.8	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	4.7	Middle	2	2	24.20	8.00	28.00	91.4	6.50	5.4	7.3	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	8.3	Bottom	3	1	24.10	8.00	28.40	92.3	6.60	6.6	8.6	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	IS5	13:49:00	8.3	Bottom	3	2	24.10	8.00	28.50	91.8	6.60	6.4	7.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00	1.0	Surface	1	1	24.30	8.00	27.30	92.1	6.60	5.1	8.4	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00	1.0	Surface	1	2	24.40	7.90	27.50	92.0	6.60	5.2	9.0	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00	3.3	Bottom	3	1	24.30	8.00	27.40	91.7	6.60	5.2	10.7	
HKBCF	HY/2013/01	2018-04-25	Mid-Flood	Rainy	SR3(N)	13:39:00	3.3	Bottom	3	2	24.40	7.90	27.50	91.7	6.60	5.2	12.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	1.0	Surface	1	1	23.60	7.90	31.10	86.0	6.10	2.4	6.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	1.0	Surface	1	2	23.60	7.90	31.00	86.1	6.10	2.5	6.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	7.6	Middle	2	1	23.60	7.90	31.40	86.0	6.10	2.8	6.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	7.6	Middle	2	2	23.60	7.90	31.20	86.1	6.10	2.9	7.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	14.1	Bottom	3	1	23.60	7.90	31.40	87.3	6.20	2.7	8.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10A(N)	9:57:00	14.1	Bottom	3	2	23.60	7.90	31.20	87.9	6.20	2.7	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	1.0	Surface	1	1	23.60	8.00	31.40	85.8	6.10	3.0	5.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	1.0	Surface	1	2	23.60	7.90	31.20	85.9	6.10	3.0	5.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	3.2	Middle	2	1	23.60	8.00	31.40	85.7	6.10	2.8	4.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	3.2	Middle	2	2	23.60	7.90	31.30	85.8	6.10	2.9	4.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	5.4	Bottom	3	1	23.60	8.00	31.50	85.9	6.10	2.7	6.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR10B(N2)	10:04:00	5.4	Bottom	3	2	23.50	7.90	31.30	85.9	6.10	2.8	6.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	1.0	Surface	1	1	24.10	8.00	29.40	87.3	6.20	3.1	6.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	1.0	Surface	1	2	23.70	8.00	29.40	87.1	6.20	3.1	5.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	16.8	Middle	2	1	23.90	8.00	29.90	85.9	6.10	3.3	6.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	16.8	Middle	2	2	23.60	8.00	29.90	85.7	6.10	3.4	5.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	32.5	Bottom	3	1	23.90	8.00	30.00	85.8	6.10	3.2	6.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CSA	10:03:00	32.5	Bottom	3	2	23.60	8.00	30.00	85.5	6.10	3.2	5.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	1.0	Surface	1	1	24.30	8.10	28.30	88.8	6.30	2.2	5.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	1.0	Surface	1	2	23.90	8.00	28.40	88.3	6.30	2.0	6.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	4.7	Middle	2	1	24.20	8.10	28.80	88.1	6.30	2.3	6.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	4.7	Middle	2	2	23.80	8.00	28.80	87.6	6.30	2.3	5.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	8.3	Bottom	3	1	24.20	8.10	28.90	88.1	6.30	2.3	5.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS6	10:17:00	8.3	Bottom	3	2	23.80	8.00	28.90	87.5	6.30	2.4	5.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	1.0	Surface	1	1	24.40	8.20	26.60	88.3	6.30	4.4	3.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	1.0	Surface	1	2	24.00	8.00	26.60	87.5	6.30	4.5	4.1	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	8.2	Middle	2	1	24.20	8.10	27.70	93.0	6.70	8.1	8.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	8.2	Middle	2	2	23.80	8.10	27.70	92.5	6.70	8.0	9.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	15.3	Bottom	3	1	24.20	8.20	27.80	92.6	6.60	8.8	13.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS4	11:29:00	15.3	Bottom	3	2	23.80	8.10	27.80	92.0	6.60	8.8	12.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00	1.0	Surface	1	1	24.10	8.20	28.20	98.2	7.00	5.8	7.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00	1.0	Surface	1	2	23.80	8.10	28.20	97.7	7.00	5.9	8.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00	3.4	Bottom	3	1	24.10	8.20	28.20	97.6	7.00	5.2	10.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR6	12:02:00	3.4	Bottom	3	2	23.70	8.10	28.20	97.1	7.00	5.9	10.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	1.0	Surface	1	1	24.40	8.10	26.90	95.8	6.90	5.3	4.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	1.0	Surface	1	2	24.00	8.10	26.90	95.2	6.90	5.4	3.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	3.6	Middle	2	1	24.10	8.20	28.20	96.0	6.90	6.1	6.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	3.6	Middle	2	2	23.80	8.10	28.10	95.3	6.90	6.1	6.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	6.2	Bottom	3	1	24.10	8.20	28.60	96.8	6.90	6.7	9.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:41:00	6.2	Bottom	3	2	23.70	8.10	28.60	96.3	6.90	6.8	9.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	1.0	Surface	1	1	24.40	8.20	27.20	89.8	6.40	4.7	8.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	1.0	Surface	1	2	24.10	8.10	27.20	89.6	6.40	4.3	7.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	4.7	Middle	2	1	24.20	8.20	27.70	87.1	6.20	7.0	9.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	4.7	Middle	2	2	23.90	8.00	27.70	86.7	6.20	6.6	8.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	8.4	Bottom	3	1	24.20	8.20	28.30	85.9	6.10	9.1	16.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR5(N)	11:08:00	8.4	Bottom	3	2	23.80	8.00	28.30	85.3	6.10	9.5	15.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	1.0	Surface	1	1	24.20	8.20	27.70	88.6	6.30	5.2	6.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	1.0	Surface	1	2	23.90	8.10	27.70	88.2	6.40	5.3	7.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	6.3	Middle	2	1	24.20	8.20	27.90	86.9	6.20	7.5	10.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	6.3	Middle	2	2	23.80	8.00	27.90	86.4	6.20	7.7	11.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	11.6	Bottom	3	1	24.20	8.20	28.40	86.0	6.10	6.8	14.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS10(N)	11:01:00	11.6	Bottom	3	2	23.80	8.00	28.40	85.2	6.10	6.9	14.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	1.0	Surface	1	1	24.40	8.10	27.10	90.2	6.50	4.1	7.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	1.0	Surface	1	2	24.00	8.00	27.10	89.9	6.50	3.9	6.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	5.7	Middle	2	1	24.20	8.10	27.90	87.2	6.20	5.3	7.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	5.7	Middle	2	2	23.80	8.00	27.90	86.6	6.20	5.5	7.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	10.3	Bottom	3	1	24.10	8.20	28.70	85.9	6.10	6.5	12.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)11	10:52:00	10.3	Bottom	3	2	23.80	8.00	28.70	84.9	6.10	6.5	11.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	1.0	Surface	1	1	24.00	8.10	29.60	89.2	6.40	1.9	1.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	1.0	Surface	1	2	23.90	8.00	29.50	89.4	6.40	2.0	1.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	6.8	Middle	2	1	23.70	8.10	30.60	84.4	6.00	3.7	4.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	6.8	Middle	2	2	23.70	8.00	30.40	84.4	6.00	4.0	3.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	12.6	Bottom	3	1	23.60	8.10	31.00	84.0	6.00	9.4	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	CS(Mf)5	10:45:00	12.6	Bottom	3	2	23.60	8.00	30.80	84.1	6.00	9.2	8.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00	1.0	Surface	1	1	24.30	8.10	27.90	88.5	6.30	6.4	4.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00	1.0	Surface	1	2	23.90	8.00	27.90	87.8	6.30	6.2	5.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00	3.3	Bottom	3	1	24.30	8.10	28.00	89.3	6.40	5.1	8.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR7	10:45:00	3.3	Bottom	3	2	23.90	8.00	28.00	88.2	6.30	5.4	10.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	1.0	Surface	1	1	23.90	8.00	29.60	85.5	6.10	5.7	7.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	1.0	Surface	1	2	23.90	8.00	29.40	85.6	6.10	5.7	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	5.8	Middle	2	1	23.80	8.00	29.90	84.8	6.00	6.9	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	5.8	Middle	2	2	23.80	8.00	29.80	84.9	6.10	6.9	10.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	10.6	Bottom	3	1	23.80	8.00	30.10	85.0	6.10	6.8	12.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS17	11:12:00	10.6	Bottom	3	2	23.80	8.00	29.90	85.2	6.10	6.6	11.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00	1.0	Surface	1	1	24.00	8.00	29.10	85.3	6.10	2.6	5.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00	1.0	Surface	1	2	24.00	8.00	28.90	85.4	6.10	2.8	4.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00	4.9	Bottom	3	1	23.90	8.00	29.40	85.8	6.10	4.7	10.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)16	11:23:00	4.9	Bottom	3	2	23.90	8.00	29.20	86.3	6.20	4.8	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00	1.0	Surface	1	1	24.20	8.00	28.90	88.1	6.30	3.1	4.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00	1.0	Surface	1	2	24.10	7.90	28.70	85.2	6.10	3.2	5.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00	3.1	Bottom	3	1	24.00	8.00	29.20	84.6	6.00	5.0	6.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS8	11:50:00	3.1	Bottom	3	2	24.00	7.90	29.00	85.1	6.10	5.1	5.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00	1.0	Surface	1	1	24.10	8.00	28.70	82.7	5.90	4.1	5.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00	1.0	Surface	1	2	24.10	7.90	28.50	83.0	5.90	4.3	5.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00		Middle	2	1								

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00	2.4	Bottom	3	1	24.00	8.00	28.90	84.3	6.00	4.0	7.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR4(N)	11:41:00	2.4	Bottom	3	2	24.00	7.90	28.70	84.8	6.10	4.2	8.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	1.0	Surface	1	1	24.10	8.00	28.90	85.2	6.10	4.7	4.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	1.0	Surface	1	2	24.00	7.90	28.70	85.1	6.10	5.0	4.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	2.6	Bottom	3	1	24.00	8.00	29.00	84.6	6.00	5.5	7.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	2.6	Bottom	3	2	24.00	7.90	28.80	84.7	6.10	5.4	7.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00	1.0	Surface	1	1	24.00	8.00	28.80	86.5	6.20	2.5	5.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00	1.0	Surface	1	2	24.00	7.90	28.60	86.6	6.20	2.5	5.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00	2.3	Bottom	3	1	24.00	8.00	28.80	86.4	6.20	2.7	5.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS7	12:13:00	2.3	Bottom	3	2	24.00	7.90	28.60	86.4	6.20	2.7	5.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00	1.5	Middle	2	1	23.90	8.00	29.50	88.6	6.30	5.5	6.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00	1.5	Middle	2	2	23.90	8.00	29.30	88.7	6.30	5.4	5.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS(Mf)6	12:20:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	1.0	Surface	1	1	23.90	8.10	29.90	94.0	6.70	4.6	6.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	1.0	Surface	1	2	23.90	8.00	29.70	94.2	6.70	4.9	6.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	4.9	Middle	2	1	23.80	8.10	30.20	94.0	6.70	5.7	11.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	4.9	Middle	2	2	23.80	8.00	30.00	94.1	6.70	5.8	10.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	8.7	Bottom	3	1	23.80	8.10	30.20	93.9	6.70	6.0	10.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	IS5	12:36:00	8.7	Bottom	3	2	23.80	8.00	30.00	94.1	6.70	6.1	10.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00	1.0	Surface	1	1	24.20	8.00	29.20	86.8	6.20	6.9	7.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00	1.0	Surface	1	2	24.10	7.90	29.10	86.9	6.20	7.2	7.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00	2.4	Bottom	3	1	24.00	8.00	29.40	86.6	6.20	8.2	19.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Ebb	Cloudy	SR3(N)	12:43:00	2.4	Bottom	3	2	24.00	7.90	29.20	86.6	6.20	7.9	19.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	1.0	Surface	1	1	23.70	8.10	31.20	85.8	6.10	2.9	5.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	1.0	Surface	1	2	23.70	8.00	31.10	85.9	6.10	3.3	4.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	7.0	Middle	2	1	23.70	8.00	31.50	85.7	6.10	4.2	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	7.0	Middle	2	2	23.60	8.00	31.30	85.8	6.10	4.5	8.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	12.9	Bottom	3	1	23.70	8.00	31.40	86.9	6.20	4.6	8.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10A(N)	18:16:00	12.9	Bottom	3	2	23.60	8.00	31.20	87.2	6.20	4.4	10.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	1.0	Surface	1	1	23.70	8.00	31.50	86.9	6.10	2.3	8.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	1.0	Surface	1	2	23.70	8.00	31.30	87.1	6.20	2.7	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	3.1	Middle	2	1	23.70	8.00	31.50	87.6	6.20	2.8	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	3.1	Middle	2	2	23.70	8.00	31.30	87.7	6.20	2.7	10.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	5.1	Bottom	3	1	23.70	8.00	31.50	89.0	6.30	2.5	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR10B(N2)	18:12:00	5.1	Bottom	3	2	23.70	8.00	31.30	89.3	6.30	2.6	10.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	1.0	Surface	1	1	24.40	8.00	28.50	89.8	6.40	3.0	8.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	1.0	Surface	1	2	24.00	8.10	28.60	89.6	6.40	3.2	8.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	16.8	Middle	2	1	24.20	8.00	29.60	86.0	6.10	4.3	9.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	16.8	Middle	2	2	23.70	8.00	29.70	85.6	6.10	4.3	7.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	32.6	Bottom	3	1	24.10	8.00	29.60	85.6	6.10	5.7	18.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CSA	18:19:00	32.6	Bottom	3	2	23.70	8.00	29.70	85.1	6.10	6.1	16.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	1.0	Surface	1	1	24.60	8.10	27.80	93.2	6.60	3.9	9.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	1.0	Surface	1	2	24.20	8.10	27.90	92.9	6.70	3.4	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	4.6	Middle	2	1	24.50	8.10	28.00	91.1	6.50	2.6	8.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	4.6	Middle	2	2	24.10	8.20	28.10	91.1	6.50	2.8	8.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	8.2	Bottom	3	1	24.30	8.00	28.60	88.7	6.30	4.3	8.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS6	18:09:00	8.2	Bottom	3	2	23.90	8.00	28.60	87.9	6.30	4.8	9.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	1.0	Surface	1	1	24.90	8.00	25.60	88.6	6.30	4.0	9.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	1.0	Surface	1	2	24.40	8.00	25.60	88.1	6.40	4.2	9.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	8.0	Middle	2	1	24.30	8.00	27.70	88.0	6.30	4.6	9.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	8.0	Middle	2	2	23.90	8.00	27.80	87.7	6.30	4.9	8.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	15.0	Bottom	3	1	24.30	8.00	28.70	84.9	6.00	9.4	12.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS4	16:55:00	15.0	Bottom	3	2	23.80	8.00	28.80	84.4	6.00	9.5	11.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00	1.0	Surface	1	1	24.70	8.00	25.60	89.3	6.40	7.6	12.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00	1.0	Surface	1	2	24.30	8.00	25.70	88.8	6.40	7.4	13.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00		Middle	2	2								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00	3.2	Bottom	3	1	24.50	8.00	26.50	89.6	6.40	10.1	21.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR6	16:21:00	3.2	Bottom	3	2	24.10	8.00	26.50	89.0	6.40	10.6	23.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	1.0	Surface	1	1	25.10	7.90	24.70	88.2	6.30	3.2	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	1.0	Surface	1	2	24.60	7.90	24.80	87.8	6.30	3.5	8.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	3.6	Middle	2	1	24.90	8.00	25.70	87.8	6.30	4.5	9.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	3.6	Middle	2	2	24.40	8.00	25.80	87.4	6.30	4.3	8.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	6.1	Bottom	3	1	24.70	8.00	26.20	87.6	6.30	7.9	10.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)3(N)	16:38:00	6.1	Bottom	3	2	24.30	8.00	26.30	87.1	6.30	7.8	12.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	1.0	Surface	1	1	24.70	8.00	27.00	91.3	6.50	5.0	7.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	1.0	Surface	1	2	24.30	8.00	27.00	90.9	6.50	4.6	7.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	4.6	Middle	2	1	24.60	8.00	27.10	91.1	6.50	5.3	6.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	4.6	Middle	2	2	24.20	8.10	27.20	90.6	6.50	5.2	6.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	8.1	Bottom	3	1	24.60	8.10	27.50	91.4	6.50	8.4	7.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR5(N)	17:16:00	8.1	Bottom	3	2	24.10	8.10	27.50	90.8	6.50	8.4	8.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	1.0	Surface	1	1	24.80	8.00	27.30	89.8	6.40	7.5	11.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	1.0	Surface	1	2	24.30	8.00	27.40	89.4	6.40	7.6	11.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	6.2	Middle	2	1	24.50	8.00	27.90	88.5	6.30	8.0	11.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	6.2	Middle	2	2	24.10	8.00	27.90	88.0	6.30	8.5	10.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	11.4	Bottom	3	1	24.50	8.00	28.10	88.1	6.30	11.8	14.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS10(N)	17:22:00	11.4	Bottom	3	2	24.00	8.00	28.20	87.4	6.30	12.0	14.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	1.0	Surface	1	1	24.90	8.00	27.00	90.6	6.40	5.9	8.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	1.0	Surface	1	2	24.50	8.00	27.10	90.2	6.50	6.2	7.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	5.6	Middle	2	1	24.80	8.00	27.20	89.2	6.30	7.5	8.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	5.6	Middle	2	2	24.40	8.00	27.30	88.7	6.40	7.6	9.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	10.1	Bottom	3	1	24.60	8.00	27.70	88.7	6.30	10.8	11.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)11	17:27:00	10.1	Bottom	3	2	24.20	8.00	27.80	87.7	6.30	10.2	10.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	1.0	Surface	1	1	24.10	8.10	29.60	88.0	6.20	2.2	5.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	1.0	Surface	1	2	24.10	8.00	29.40	87.8	6.20	2.4	3.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	6.5	Middle	2	1	23.70	8.10	31.00	85.0	6.00	8.2	6.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	6.5	Middle	2	2	23.70	8.00	30.80	85.0	6.00	8.4	5.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	12.0	Bottom	3	1	23.60	8.10	31.20	85.6	6.10	14.4	19.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	CS(Mf)5	17:31:00	12.0	Bottom	3	2	23.60	8.00	31.00	86.3	6.10	14.6	18.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00	1.0	Surface	1	1	24.60	8.10	27.50	91.2	6.50	7.4	14.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00	1.0	Surface	1	2	24.20	8.10	27.50	90.6	6.50	7.2	15.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00	3.1	Bottom	3	1	24.60	8.10	27.60	91.5	6.50	10.8	15.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR7	17:38:00	3.1	Bottom	3	2	24.20	8.10	27.60	90.8	6.50	10.3	16.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	1.0	Surface	1	1	24.20	8.10	29.10	92.6	6.60	2.8	6.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	1.0	Surface	1	2	24.10	8.00	28.90	92.6	6.60	3.0	6.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	5.5	Middle	2	1	24.10	8.10	29.30	90.4	6.40	3.6	5.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	5.5	Middle	2	2	24.10	8.00	29.10	90.1	6.40	3.8	7.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	10.0	Bottom	3	1	24.10	8.10	29.70	90.2	6.40	4.6	7.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS17	17:07:00	10.0	Bottom	3	2	24.00	8.00	29.40	90.7	6.50	4.7	8.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00	1.0	Surface	1	1	24.80	8.10	29.00	92.4	6.50	2.0	7.1	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00	1.0	Surface	1	2	24.70	8.00	28.80	92.3	6.50	2.2	7.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00	4.9	Bottom	3	1	24.10	8.10	29.40	88.8	6.30	6.3	12.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)16	16:53:00	4.9	Bottom	3	2	24.10	8.00	29.30	89.1	6.30	6.5	11.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00	1.0	Surface	1	1	24.50	8.10	29.00	87.5	6.20	10.7	16.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00	1.0	Surface	1	2	24.50	7.90	28.80	87.4	6.20	11.2	15.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00	2.9	Bottom	3	1	24.40	8.10	29.00	88.6	6.30	12.5	21.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS8	16:27:00	2.9	Bottom	3	2	24.40	7.90	28.80	88.8	6.30	12.2	22.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00	1.0	Surface	1	1	24.50	8.10	28.90	86.4	6.10	9.7	10.4	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00	1.0	Surface	1	2	24.50	7.90	28.70	86.5	6.10	9.8	11.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00	2.4	Bottom	3	1	24.50	8.10	28.90	88.2	6.20	9.6	21.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR4(N)	16:33:00	2.4	Bottom	3	2	24.50	7.90	28.70	88.3	6.30	9.8	22.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00	1.4	Middle	2	1	24.20	8.10	29.10	87.4	6.20	5.9	12.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00	1.4	Middle	2	2	24.20	7.90	28.90	88.0	6.30	6.5	13.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00		Bottom	3	1								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)9	16:15:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00	1.5	Middle	2	1	24.40	8.10	28.80	88.9	6.30	8.2	5.9	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00	1.5	Middle	2	2	24.40	7.90	28.70	89.7	6.40	8.2	5.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS7	16:08:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00	1.4	Middle	2	1	24.60	8.10	28.90	89.3	6.30	5.1	8.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00	1.4	Middle	2	2	24.50	7.90	28.70	89.9	6.40	5.1	7.2	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS(Mf)6	16:00:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	1.0	Surface	1	1	24.50	8.10	29.10	89.7	6.30	2.7	6.6	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	1.0	Surface	1	2	24.50	7.90	28.90	90.1	6.40	2.9	7.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	4.7	Middle	2	1	24.20	8.10	29.40	90.7	6.40	3.0	7.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	4.7	Middle	2	2	24.20	7.90	29.20	91.1	6.50	2.9	7.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	8.3	Bottom	3	1	24.20	8.10	29.60	91.3	6.50	4.3	7.0	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	IS5	15:49:00	8.3	Bottom	3	2	24.10	7.90	29.40	91.6	6.50	4.4	6.8	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00	1.0	Surface	1	1	24.30	8.20	29.50	92.8	6.60	3.2	2.7	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00	1.0	Surface	1	2	24.30	8.00	29.30	92.9	6.60	3.0	3.3	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00	3.2	Bottom	3	1	24.30	8.20	29.70	93.9	6.60	3.8	6.5	
HKBCF	HY/2013/01	2018-04-27	Mid-Flood	Misty	SR3(N)	15:42:00	3.2	Bottom	3	2	24.30	8.00	29.50	94.0	6.70	3.9	5.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	1.0	Surface	1	1	24.80	8.00	29.30	91.7	6.40	2.7	6.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	1.0	Surface	1	2	24.80	8.10	29.50	92.0	6.40	2.6	6.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	6.1	Middle	2	1	24.70	8.00	29.40	91.1	6.40	3.0	6.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	6.1	Middle	2	2	24.70	8.10	29.60	91.4	6.40	2.8	7.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	11.2	Bottom	3	1	24.60	8.00	29.60	91.4	6.40	2.9	8.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10A(N)	13:31:00	11.2	Bottom	3	2	24.70	8.10	29.80	91.5	6.40	2.7	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	1.0	Surface	1	1	24.70	8.00	29.60	91.4	6.40	3.8	5.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	1.0	Surface	1	2	24.80	8.10	29.80	91.9	6.40	3.9	5.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	3.5	Middle	2	1	24.70	8.00	29.60	91.8	6.40	4.5	4.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	3.5	Middle	2	2	24.80	8.10	29.80	92.3	6.50	4.6	4.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	6.0	Bottom	3	1	24.70	8.00	29.60	93.1	6.50	5.3	6.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR10B(N2)	13:26:00	6.0	Bottom	3	2	24.80	8.10	29.80	93.3	6.50	5.3	6.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	1.0	Surface	1	1	25.20	8.00	26.60	93.1	6.60	3.7	6.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	1.0	Surface	1	2	25.70	8.00	26.50	93.0	6.50	3.6	5.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	16.9	Middle	2	1	24.30	8.00	28.90	86.7	6.20	5.6	6.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	16.9	Middle	2	2	24.80	8.00	28.80	87.0	6.10	6.1	5.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	32.8	Bottom	3	1	24.20	8.00	29.10	86.8	6.20	5.3	6.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CSA	13:53:00	32.8	Bottom	3	2	24.70	8.00	29.00	87.3	6.10	5.4	5.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	1.0	Surface	1	1	25.10	8.00	27.00	92.0	6.50	5.6	5.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	1.0	Surface	1	2	25.50	8.00	26.90	91.9	6.50	5.6	6.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	4.8	Middle	2	1	24.50	8.00	28.20	87.7	6.20	6.7	6.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	4.8	Middle	2	2	24.90	8.00	28.10	87.9	6.20	6.7	5.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	8.5	Bottom	3	1	24.40	8.00	28.50	87.8	6.20	7.9	5.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS6	13:44:00	8.5	Bottom	3	2	24.90	8.00	28.40	88.4	6.20	7.9	5.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	1.0	Surface	1	1	25.20	7.90	25.10	89.0	6.40	5.2	3.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	1.0	Surface	1	2	25.60	8.00	25.10	89.5	6.30	5.5	4.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	8.2	Middle	2	1	24.80	8.00	26.90	92.4	6.60	7.7	8.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	8.2	Middle	2	2	25.30	8.00	26.80	92.6	6.50	7.8	9.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	15.3	Bottom	3	1	24.80	8.00	26.90	92.4	6.60	11.9	13.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS4	12:47:00	15.3	Bottom	3	2	25.30	8.00	26.90	92.4	6.50	11.5	12.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00	1.0	Surface	1	1	25.30	8.10	28.40	105.6	7.40	6.0	7.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00	1.0	Surface	1	2	25.70	8.10	28.30	105.9	7.40	6.3	8.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00	3.1	Bottom	3	1	24.80	8.10	28.50	104.5	7.40	6.8	10.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR6	12:10:00	3.1	Bottom	3	2	25.30	8.10	28.40	104.7	7.30	6.2	10.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	1.0	Surface	1	1	24.90	8.00	26.70	95.3	6.80	5.6	4.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	1.0	Surface	1	2	25.40	8.00	26.60	95.7	6.80	5.5	3.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	3.6	Middle	2	1	24.70	8.00	27.40	96.2	6.80	8.9	6.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	3.6	Middle	2	2	25.20	8.10	27.30	96.7	6.80	8.9	6.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	6.1	Bottom	3	1	24.60	8.10	28.50	99.5	7.00	8.9	9.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)3(N)	12:28:00	6.1	Bottom	3	2	25.10	8.10	28.40	99.3	7.00	9.1	9.3	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	1.0	Surface	1	1	25.00	8.00	26.40	96.2	6.80	6.5	8.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	1.0	Surface	1	2	25.50	8.10	26.30	96.4	6.80	6.8	7.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	4.7	Middle	2	1	24.80	8.10	27.00	94.8	6.70	10.3	9.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	4.7	Middle	2	2	25.30	8.10	27.00	95.3	6.70	10.1	8.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	8.4	Bottom	3	1	24.80	8.10	27.20	93.9	6.70	20.8	16.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR5(N)	13:04:00	8.4	Bottom	3	2	25.30	8.10	27.10	94.9	6.70	20.7	15.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	1.0	Surface	1	1	25.10	8.10	26.50	98.9	7.00	5.0	6.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	1.0	Surface	1	2	25.60	8.10	26.40	99.1	7.00	4.9	7.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	5.7	Middle	2	1	24.90	8.10	27.50	99.1	7.00	7.0	10.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	5.7	Middle	2	2	25.30	8.10	27.40	99.1	7.00	7.5	11.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	10.3	Bottom	3	1	24.90	8.10	27.50	98.8	7.00	13.0	14.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS10(N)	13:11:00	10.3	Bottom	3	2	25.40	8.10	27.40	98.8	6.90	12.9	14.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	1.0	Surface	1	1	25.00	8.00	26.80	95.0	6.70	4.9	7.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	1.0	Surface	1	2	25.50	8.10	26.70	95.4	6.70	5.1	6.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	5.6	Middle	2	1	24.90	8.10	27.10	96.8	6.90	5.6	7.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	5.6	Middle	2	2	25.30	8.10	27.10	97.0	6.80	6.1	7.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	10.1	Bottom	3	1	24.90	8.10	27.30	97.9	6.90	7.8	12.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)11	13:17:00	10.1	Bottom	3	2	25.40	8.10	27.20	97.7	6.90	7.7	11.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	1.0	Surface	1	1	24.70	8.00	28.80	88.9	6.30	5.3	1.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	1.0	Surface	1	2	24.70	8.10	29.00	89.6	6.30	5.2	1.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	6.2	Middle	2	1	24.50	8.00	29.40	88.1	6.20	12.2	4.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	6.2	Middle	2	2	24.50	8.10	29.50	88.5	6.20	11.5	3.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	11.3	Bottom	3	1	24.50	8.00	29.30	89.3	6.30	12.1	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	CS(Mf)5	12:54:00	11.3	Bottom	3	2	24.50	8.10	29.50	89.5	6.30	11.1	8.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00	1.0	Surface	1	1	25.00	8.00	26.80	95.0	6.80	9.0	4.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00	1.0	Surface	1	2	25.40	8.10	26.70	95.1	6.70	9.0	5.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00	3.2	Bottom	3	1	25.00	8.00	26.80	94.5	6.70	11.6	8.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR7	13:24:00	3.2	Bottom	3	2	25.50	8.10	26.70	94.6	6.70	11.8	10.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	1.0	Surface	1	1	24.90	8.00	28.30	90.6	6.40	4.9	7.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	1.0	Surface	1	2	24.90	8.10	28.50	91.3	6.40	4.5	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	6.0	Middle	2	1	24.70	8.00	28.70	88.5	6.30	9.3	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	6.0	Middle	2	2	24.70	8.10	28.90	89.0	6.30	8.8	10.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	11.0	Bottom	3	1	24.70	8.00	28.70	88.8	6.30	10.0	12.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS17	12:39:00	11.0	Bottom	3	2	24.70	8.10	28.90	89.0	6.30	8.7	11.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00	1.0	Surface	1	1	25.20	8.00	28.50	97.3	6.80	2.5	5.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00	1.0	Surface	1	2	25.20	8.10	28.60	98.1	6.90	2.2	4.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00	4.9	Bottom	3	1	24.90	8.00	28.70	93.1	6.60	5.1	10.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)16	12:31:00	4.9	Bottom	3	2	24.90	8.10	28.90	93.3	6.60	4.7	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00	1.0	Surface	1	1	25.20	8.00	28.50	97.5	6.80	2.6	4.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00	1.0	Surface	1	2	25.20	8.10	28.70	97.9	6.90	2.4	5.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00	3.3	Bottom	3	1	25.20	8.00	28.50	98.9	6.90	2.8	6.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS8	12:08:00	3.3	Bottom	3	2	25.20	8.10	28.70	99.2	6.90	2.5	5.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00	1.0	Surface	1	1	25.10	8.00	28.40	94.2	6.60	3.5	5.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00	1.0	Surface	1	2	25.20	8.10	28.60	94.8	6.60	3.2	5.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00	3.3	Bottom	3	1	25.20	8.00	28.40	95.8	6.70	3.7	7.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR4(N)	12:14:00	3.3	Bottom	3	2	25.20	8.10	28.60	95.8	6.70	3.2	8.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00	1.0	Surface	1	1	25.20	8.00	28.60	97.8	6.90	2.2	4.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00	1.0	Surface	1	2	25.20	8.10	28.80	98.6	6.90	2.1	4.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00	2.1	Bottom	3	1	25.20	8.00	28.60	97.9	6.90	2.3	7.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)9	11:57:00	2.1	Bottom	3	2	25.20	8.10	28.80	98.6	6.90	2.1	7.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00		Surface	1	1							5.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00		Surface	1	2							5.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00	1.5	Middle	2	1	25.20	8.00	28.60	98.8	6.90	2.0		
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00	1.5	Middle	2	2	25.20	8.10	28.80	99.3	7.00	1.8		
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00		Bottom	3	1							5.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS7	11:49:00		Bottom	3	2							5.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00		Surface	1	1								

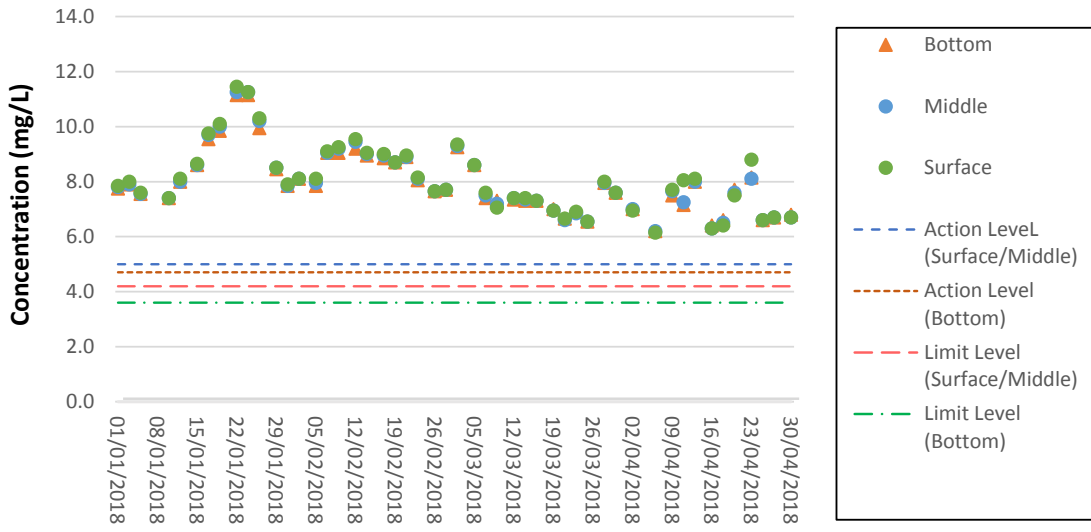
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00	1.4	Middle	2	1	25.10	8.00	29.10	96.0	6.70	5.9	6.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00	1.4	Middle	2	2	25.10	8.10	29.30	96.2	6.70	5.4	5.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS(Mf)6	11:46:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	1.0	Surface	1	1	24.90	8.00	29.20	95.3	6.70	5.9	6.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	1.0	Surface	1	2	24.90	8.20	29.40	96.0	6.70	5.9	6.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	5.0	Middle	2	1	24.90	8.00	29.30	95.5	6.70	6.9	11.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	5.0	Middle	2	2	24.90	8.20	29.40	96.1	6.70	6.9	10.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	8.9	Bottom	3	1	24.90	8.00	29.30	96.3	6.80	7.5	10.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	IS5	11:37:00	8.9	Bottom	3	2	24.90	8.20	29.40	96.7	6.80	7.0	10.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00	1.0	Surface	1	1	25.30	8.00	29.00	94.7	6.60	3.6	7.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00	1.0	Surface	1	2	25.30	8.20	29.20	95.3	6.60	3.5	7.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00	3.0	Bottom	3	1	25.20	8.00	29.00	95.4	6.70	3.8	19.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Ebb	Sunny	SR3(N)	11:33:00	3.0	Bottom	3	2	25.30	8.20	29.20	95.5	6.70	3.6	19.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	1.0	Surface	1	1	24.60	7.90	28.70	89.0	6.30	3.2	5.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	1.0	Surface	1	2	24.60	7.90	28.50	88.5	6.30	2.6	4.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	5.6	Middle	2	1	24.50	7.90	29.30	88.2	6.20	2.6	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	5.6	Middle	2	2	24.50	7.90	29.10	87.8	6.20	2.6	8.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	10.1	Bottom	3	1	24.50	7.90	29.50	88.2	6.20	2.4	8.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10A(N)	5:22:00	10.1	Bottom	3	2	24.40	7.90	29.30	87.7	6.20	2.6	10.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00	1.0	Surface	1	1	24.10	8.10	30.90	86.2	6.10	5.1	8.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00	1.0	Surface	1	2	24.10	7.90	30.70	85.6	6.00	5.3	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00		Middle	2	1							9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00		Middle	2	2							10.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00	4.8	Bottom	3	1	24.10	8.10	30.90	86.7	6.10	5.5	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR10B(N2)	5:31:00	4.8	Bottom	3	2	24.10	7.90	30.70	86.1	6.10	5.6	10.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	1.0	Surface	1	1	24.70	8.00	27.20	88.5	6.30	2.9	8.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	1.0	Surface	1	2	25.10	8.00	27.10	88.6	6.30	3.1	8.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	16.8	Middle	2	1	24.50	8.00	27.70	87.7	6.20	4.3	9.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	16.8	Middle	2	2	25.00	8.00	27.70	87.8	6.20	3.9	7.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	32.5	Bottom	3	1	24.50	8.00	27.70	87.6	6.20	4.3	18.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CSA	5:42:00	32.5	Bottom	3	2	25.00	8.00	27.70	87.8	6.20	3.8	16.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	1.0	Surface	1	1	24.70	8.00	26.50	88.0	6.30	3.0	9.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	1.0	Surface	1	2	25.10	8.00	26.50	88.0	6.20	2.6	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	4.9	Middle	2	1	24.60	8.00	27.50	87.1	6.20	4.5	8.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	4.9	Middle	2	2	25.00	8.00	27.40	87.2	6.20	4.2	8.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	8.7	Bottom	3	1	24.60	8.00	27.60	86.7	6.20	7.3	8.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS6	5:58:00	8.7	Bottom	3	2	25.00	8.00	27.60	86.8	6.10	7.6	9.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	1.0	Surface	1	1	24.80	8.00	25.90	86.9	6.20	5.9	9.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	1.0	Surface	1	2	25.20	8.00	25.80	87.0	6.20	5.7	9.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	8.1	Middle	2	1	24.60	8.00	26.90	86.5	6.20	5.7	9.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	8.1	Middle	2	2	25.00	8.00	26.80	86.4	6.10	5.8	8.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	15.2	Bottom	3	1	24.30	8.00	28.30	84.0	6.00	15.3	12.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS4	6:58:00	15.2	Bottom	3	2	24.70	8.00	28.20	84.1	6.00	15.7	11.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00	1.0	Surface	1	1	24.80	8.00	26.00	89.3	6.40	8.1	12.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00	1.0	Surface	1	2	25.20	8.00	26.00	89.3	6.30	8.1	13.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00	3.3	Bottom	3	1	24.70	8.00	26.70	89.9	6.40	18.2	21.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR6	7:30:00	3.3	Bottom	3	2	25.10	8.10	26.60	89.1	6.30	18.5	23.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	1.0	Surface	1	1	24.80	7.90	25.20	85.6	6.20	9.1	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	1.0	Surface	1	2	25.20	8.00	25.20	85.6	6.10	9.0	8.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	3.6	Middle	2	1	24.80	8.00	25.30	85.1	6.10	12.7	9.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	3.6	Middle	2	2	25.20	8.00	25.20	85.1	6.10	12.5	8.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	6.2	Bottom	3	1	24.80	8.00	25.40	84.9	6.10	10.3	10.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)3(N)	7:12:00	6.2	Bottom	3	2	25.20	8.00	25.30	85.0	6.10	10.5	12.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	1.0	Surface	1	1	24.80	8.00	26.00	88.2	6.30	4.9	7.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	1.0	Surface	1	2	25.20	8.00	25.90	88.0	6.30	4.4	7.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	4.8	Middle	2	1	24.70	8.00	26.80	88.8	6.30	7.2	6.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	4.8	Middle	2	2	25.10	8.00	26.80	88.4	6.30	7.4	6.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	8.6	Bottom	3	1	24.70	8.00	27.00	88.9	6.30	18.2	7.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR5(N)	6:41:00	8.6	Bottom	3	2	25.10	8.00	27.00	88.1	6.20	17.9	8.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	1.0	Surface	1	1	24.70	8.00	26.40	88.6	6.30	5.7	11.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	1.0	Surface	1	2	25.10	8.00	26.40	88.7	6.30	5.3	11.1	

Water Quality Monitoring Data

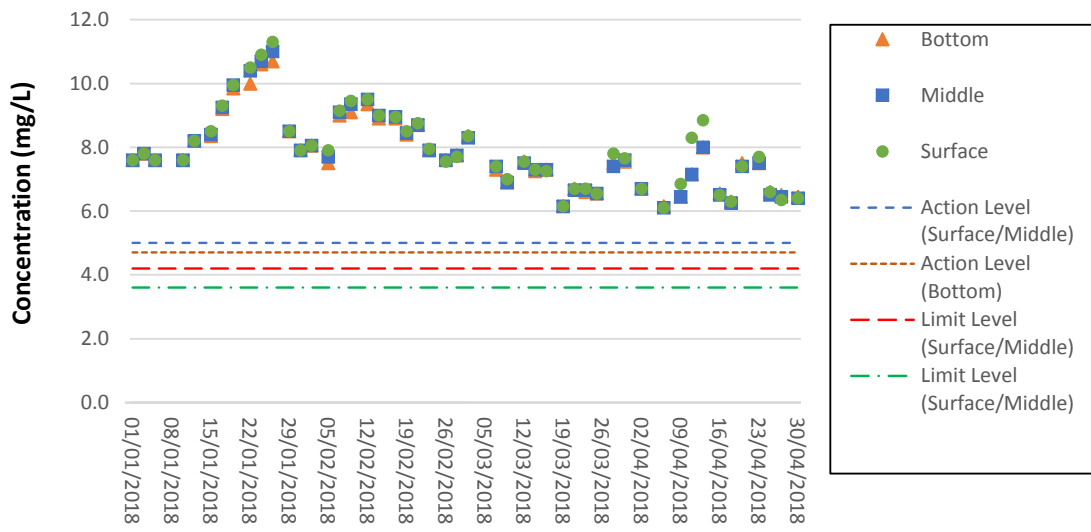
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	5.7	Middle	2	1	24.70	8.00	27.20	88.6	6.30	13.4	11.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	5.7	Middle	2	2	25.10	8.00	27.10	88.6	6.30	13.9	10.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	10.4	Bottom	3	1	24.70	8.00	27.20	88.5	6.30	15.1	14.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS10(N)	6:35:00	10.4	Bottom	3	2	25.10	8.00	27.20	88.3	6.20	15.4	14.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	1.0	Surface	1	1	24.70	8.00	26.60	90.4	6.50	4.0	8.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	1.0	Surface	1	2	25.10	8.00	26.50	90.4	6.40	3.7	7.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	5.6	Middle	2	1	24.70	8.00	26.70	90.4	6.50	5.0	8.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	5.6	Middle	2	2	25.10	8.00	26.70	90.3	6.40	4.6	9.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	10.2	Bottom	3	1	24.70	8.00	27.00	89.9	6.40	9.5	11.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)11	6:29:00	10.2	Bottom	3	2	25.10	8.00	27.00	89.4	6.30	9.8	10.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	1.0	Surface	1	1	24.60	7.90	28.30	88.7	6.30	3.1	5.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	1.0	Surface	1	2	24.70	8.10	28.40	89.2	6.30	2.9	3.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	5.9	Middle	2	1	24.50	7.90	28.80	87.9	6.20	3.2	6.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	5.9	Middle	2	2	24.60	8.10	29.00	88.3	6.20	3.1	5.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	10.8	Bottom	3	1	24.50	7.90	29.10	87.4	6.20	4.5	19.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	CS(Mf)5	6:00:00	10.8	Bottom	3	2	24.50	8.10	29.30	87.8	6.20	4.8	18.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00	1.0	Surface	1	1	24.70	8.00	26.50	88.4	6.30	4.8	14.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00	1.0	Surface	1	2	25.10	8.00	26.50	88.2	6.30	4.4	15.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00	3.3	Bottom	3	1	24.70	8.00	26.80	87.2	6.20	8.9	15.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR7	6:22:00	3.3	Bottom	3	2	25.10	8.00	26.70	86.6	6.10	9.1	16.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	1.0	Surface	1	1	24.70	8.00	27.90	90.1	6.40	3.3	6.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	1.0	Surface	1	2	24.70	8.10	28.10	90.5	6.40	3.1	6.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	5.8	Middle	2	1	24.70	8.00	28.50	89.0	6.30	4.0	5.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	5.8	Middle	2	2	24.70	8.10	28.70	89.5	6.30	3.5	7.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	10.5	Bottom	3	1	24.60	8.00	28.50	89.0	6.30	4.1	7.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS17	6:17:00	10.5	Bottom	3	2	24.70	8.10	28.70	89.6	6.30	3.8	8.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00	1.0	Surface	1	1	24.70	8.00	28.20	89.7	6.40	3.8	7.1	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00	1.0	Surface	1	2	24.70	8.10	28.40	90.2	6.40	3.9	7.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00	4.7	Bottom	3	1	24.70	7.90	28.80	89.4	6.30	4.8	12.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)16	6:29:00	4.7	Bottom	3	2	24.70	8.10	29.00	89.8	6.30	4.9	11.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00	1.0	Surface	1	1	24.60	8.00	28.60	89.9	6.40	4.5	16.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00	1.0	Surface	1	2	24.60	8.10	28.80	90.4	6.40	4.2	15.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00	3.0	Bottom	3	1	24.60	8.00	28.60	90.2	6.40	4.1	21.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS8	6:52:00	3.0	Bottom	3	2	24.60	8.10	28.80	90.7	6.40	3.8	22.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00	1.0	Surface	1	1	24.60	8.00	28.70	87.3	6.20	4.5	10.4	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00	1.0	Surface	1	2	24.60	8.10	28.90	87.8	6.20	4.2	11.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00	2.4	Bottom	3	1	24.60	8.00	28.70	87.4	6.20	4.4	21.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR4(N)	6:45:00	2.4	Bottom	3	2	24.60	8.10	28.90	87.8	6.20	4.3	22.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00	1.0	Surface	1	1	24.70	8.00	28.70	89.4	6.30	3.6		
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00	1.0	Surface	1	2	24.70	8.00	28.90	89.7	6.30	3.7		
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00		Middle	2	1							12.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00		Middle	2	2							13.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00	2.3	Bottom	3	1	24.70	8.00	28.70	89.4	6.30	3.4		
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)9	7:01:00	2.3	Bottom	3	2	24.70	8.00	28.90	89.7	6.30	3.4		
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00	1.5	Middle	2	1	24.90	8.00	29.00	92.4	6.50	6.8	5.9	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00	1.5	Middle	2	2	24.90	8.00	29.20	92.9	6.50	6.1	5.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS7	7:08:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00		Surface	1	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00		Surface	1	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00	1.3	Middle	2	1	24.90	8.00	28.90	91.7	6.40	5.1	8.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00	1.3	Middle	2	2	24.90	8.00	29.10	92.2	6.50	5.4	7.2	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS(Mf)6	7:15:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	1.0	Surface	1	1	24.90	8.00	29.00	90.9	6.40	3.6	6.6	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	1.0	Surface	1	2	24.90	8.00	29.20	91.4	6.40	3.5	7.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	4.8	Middle	2	1	24.90	8.00	29.00	91.0	6.40	3.9	7.0	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	Site Observation
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	4.8	Middle	2	2	24.90	8.00	29.20	91.5	6.40	3.7	7.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	8.5	Bottom	3	1	24.90	8.00	29.00	91.8	6.40	3.9	7.0	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	IS5	7:22:00	8.5	Bottom	3	2	24.90	8.00	29.20	92.2	6.50	3.7	6.8	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00	1.0	Surface	1	1	24.90	8.00	29.00	92.8	6.50	3.7	2.7	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00	1.0	Surface	1	2	24.90	8.00	29.20	93.3	6.50	3.6	3.3	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00	2.4	Bottom	3	1	24.80	8.00	29.00	94.8	6.70	3.5	6.5	
HKBCF	HY/2013/01	2018-04-30	Mid-Flood	Fine	SR3(N)	7:28:00	2.4	Bottom	3	2	24.80	8.00	29.20	95.2	6.70	3.5	5.9	

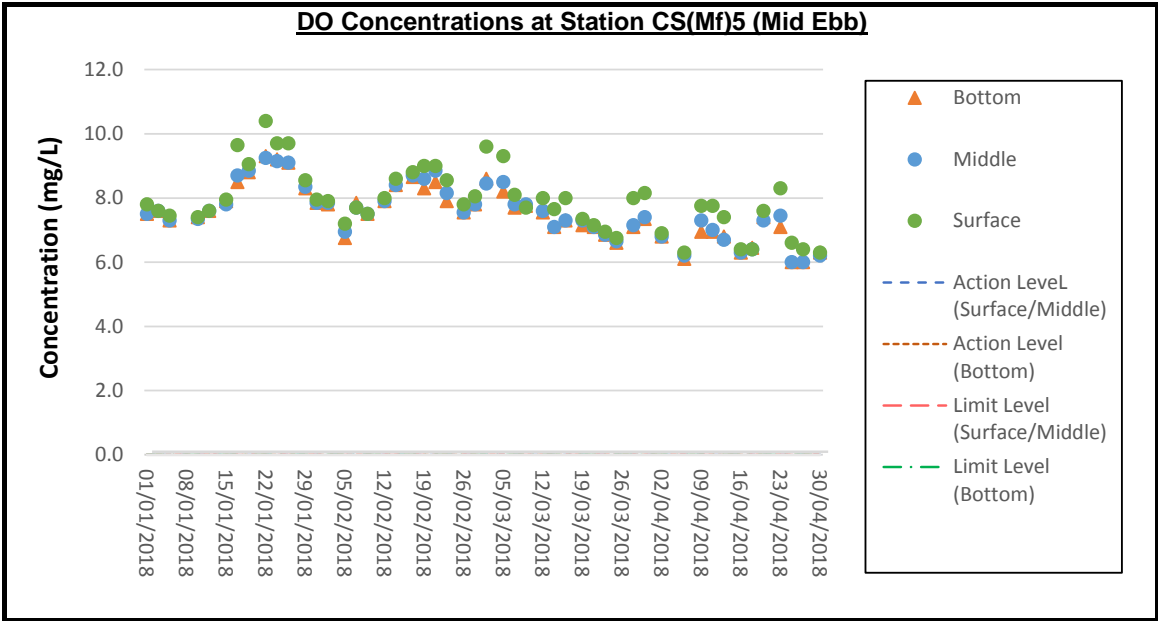
DO Concentrations at Station IS5 (Mid Ebb)



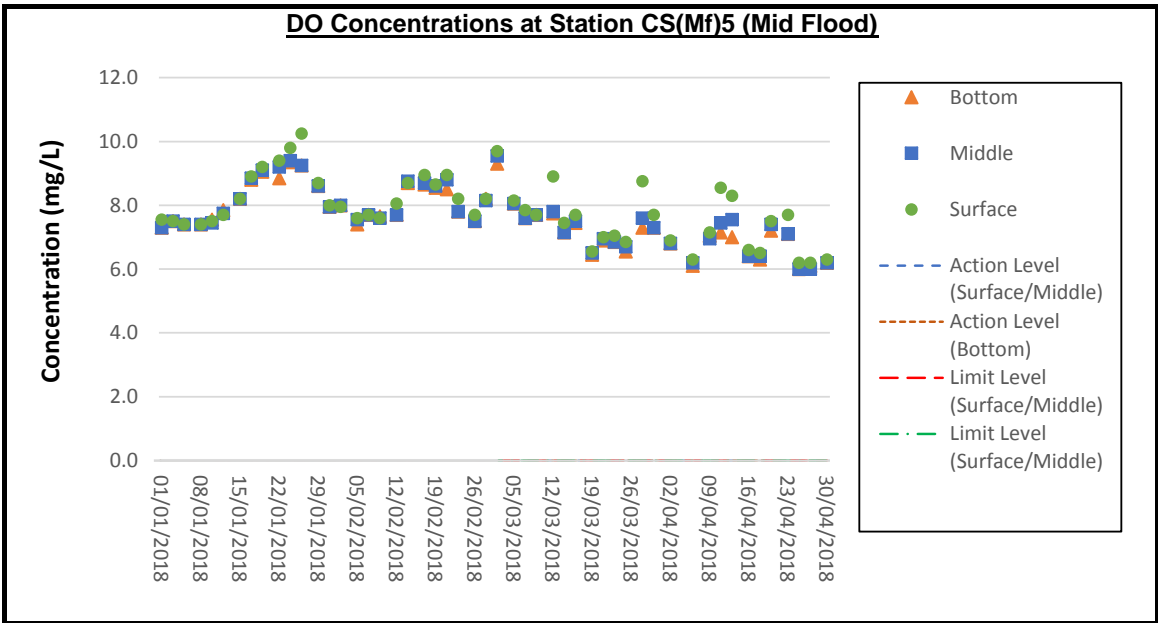
DO Concentrations at Station IS5 (Mid Flood)



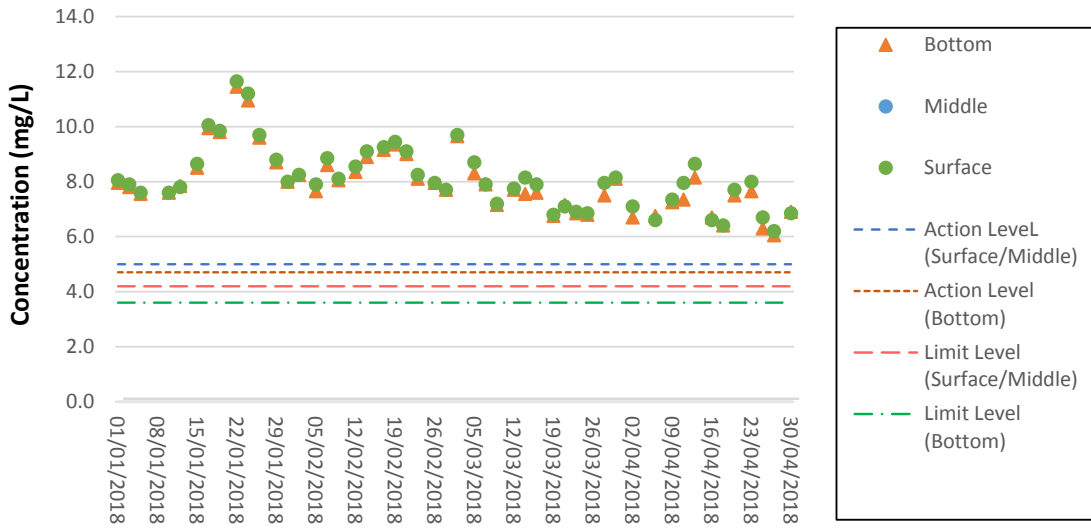
DO Concentrations at Station CS(Mf)5 (Mid Ebb)



DO Concentrations at Station CS(Mf)5 (Mid Flood)



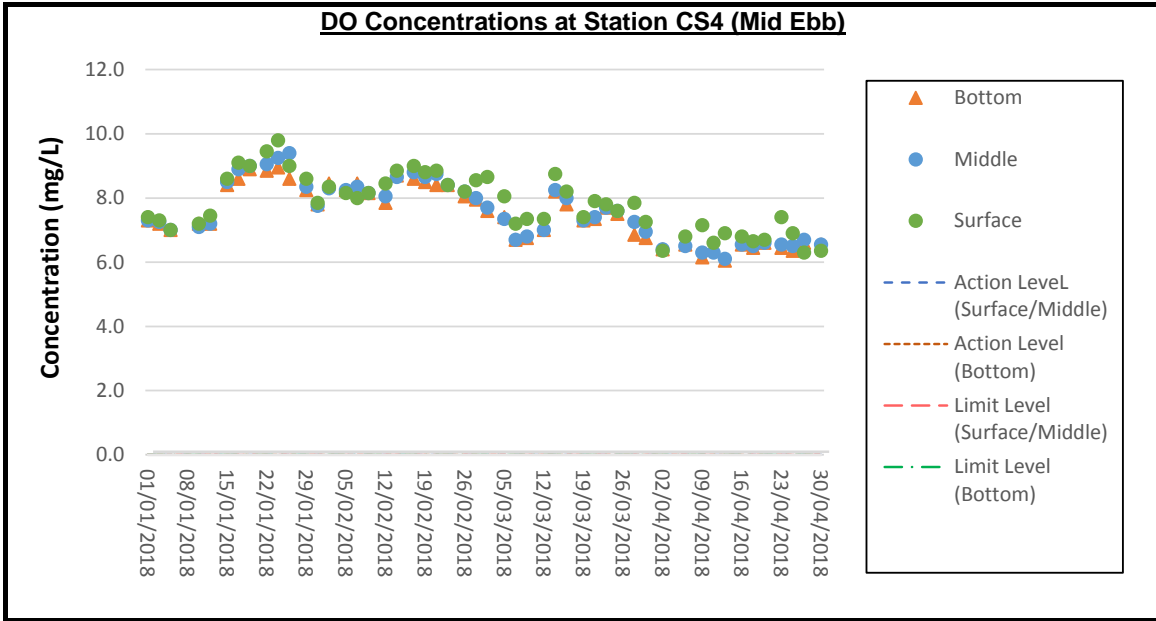
DO Concentrations at Station IS8 (Mid Ebb)



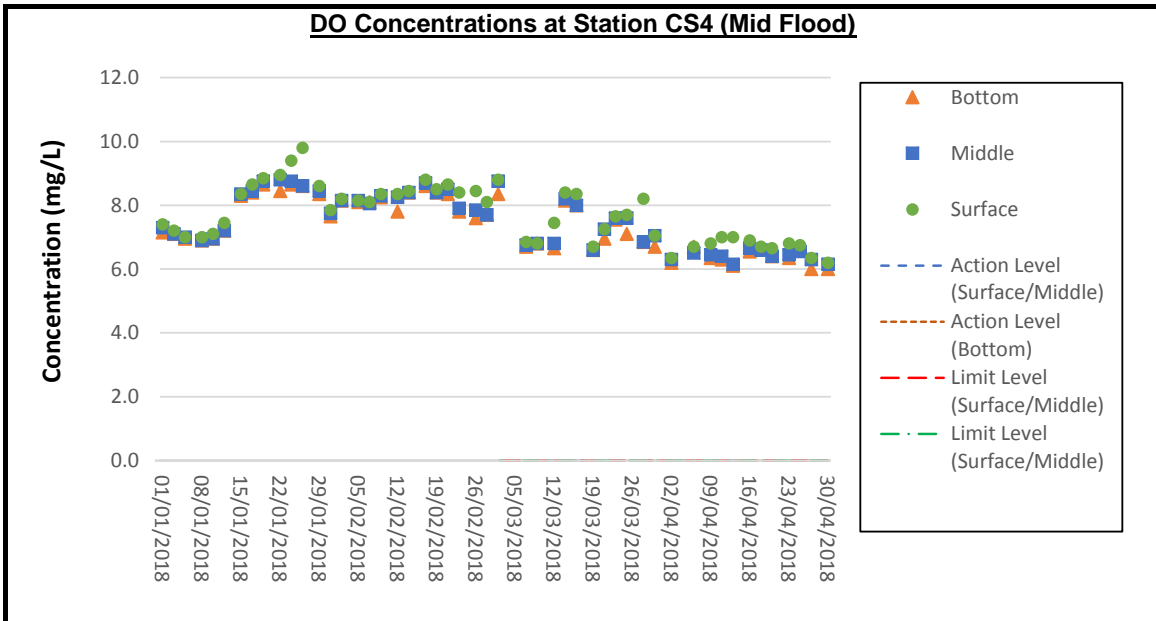
DO Concentrations at Station IS8 (Mid Flood)



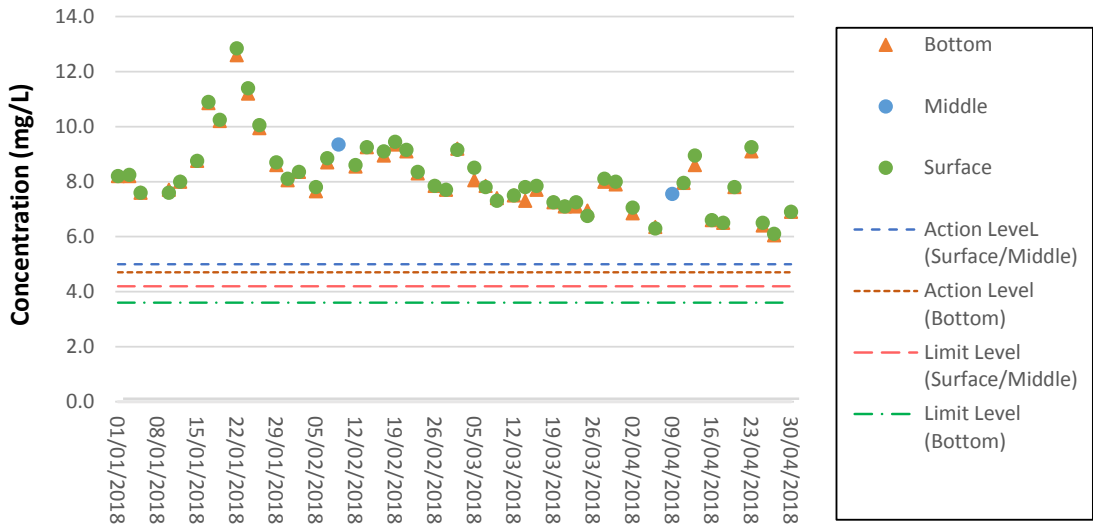
DO Concentrations at Station CS4 (Mid Ebb)



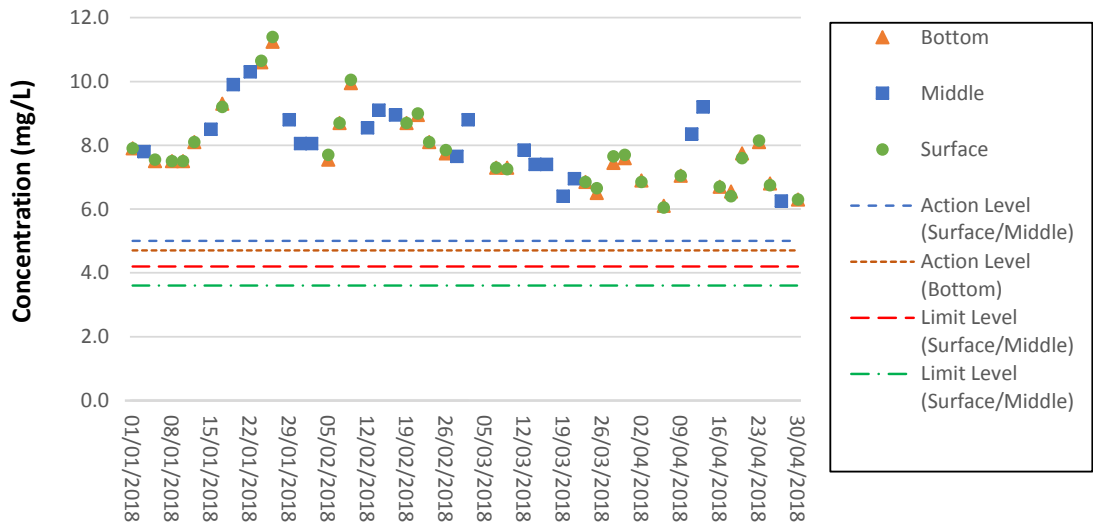
DO Concentrations at Station CS4 (Mid Flood)



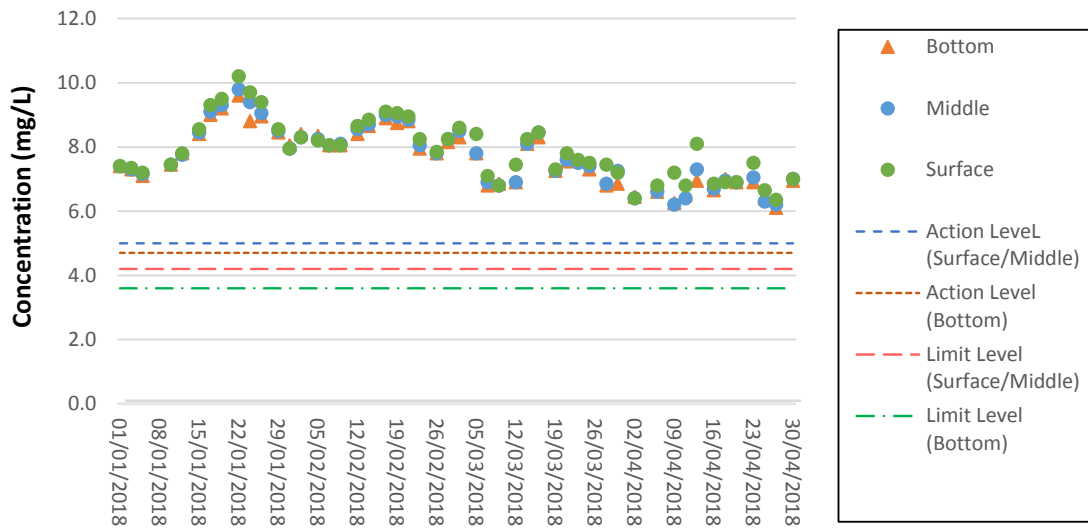
DO Concentrations at Station IS(Mf)9 (Mid Ebb)



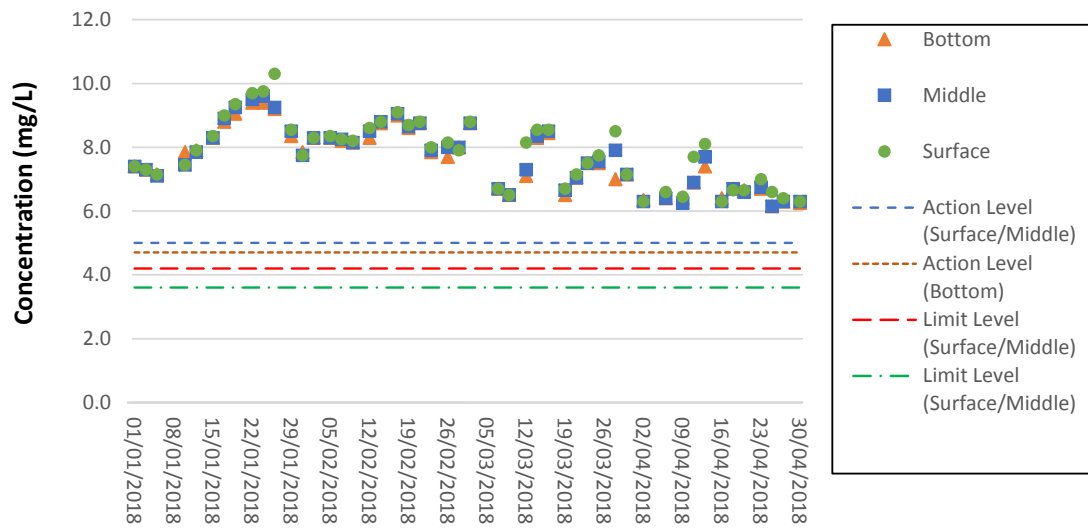
DO Concentrations at Station IS(Mf)9 (Mid Flood)



DO Concentrations at Station IS10(N) (Mid Ebb)



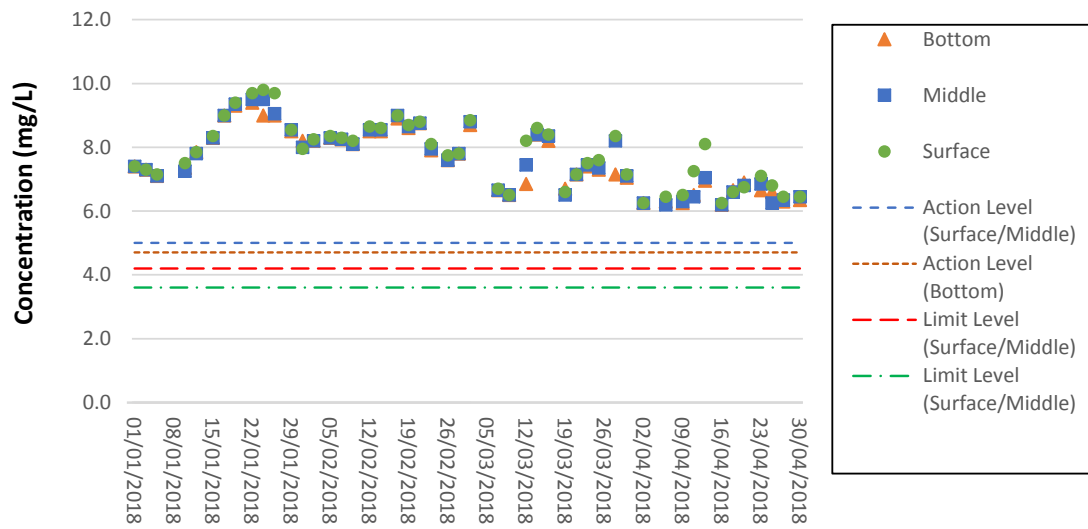
DO Concentrations at Station IS10(N) (Mid Flood)



DO Concentrations at Station IS(Mf)11 (Mid Ebb)



DO Concentrations at Station IS(Mf)11 (Mid Flood)



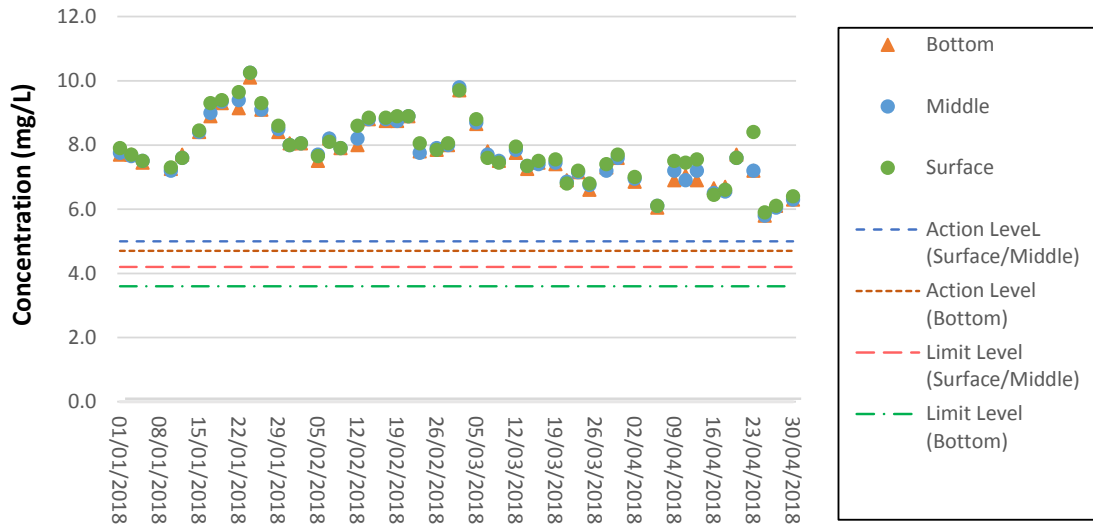
DO Concentrations at Station IS(Mf)16 (Mid Ebb)



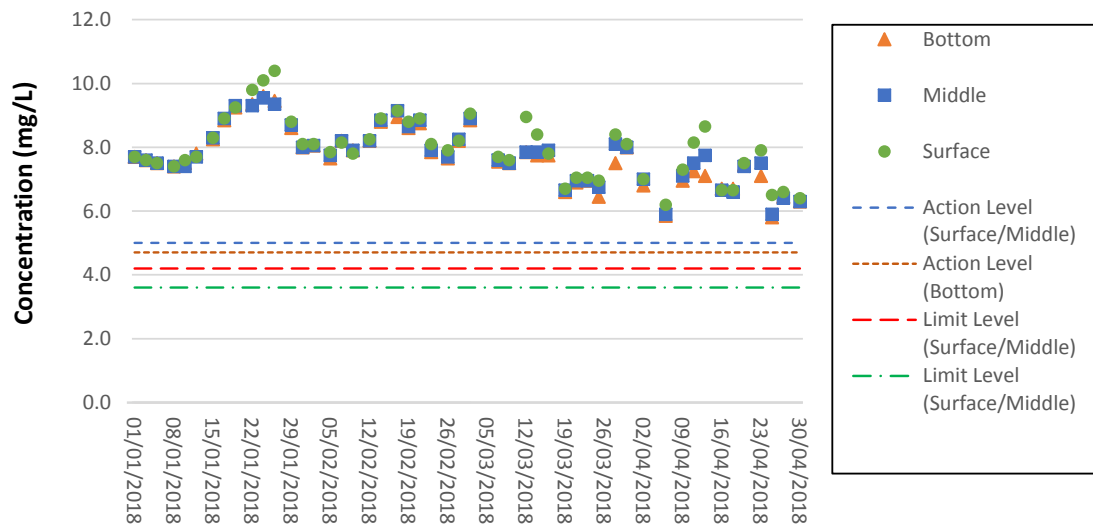
DO Concentrations at Station IS(Mf)16 (Mid Flood)



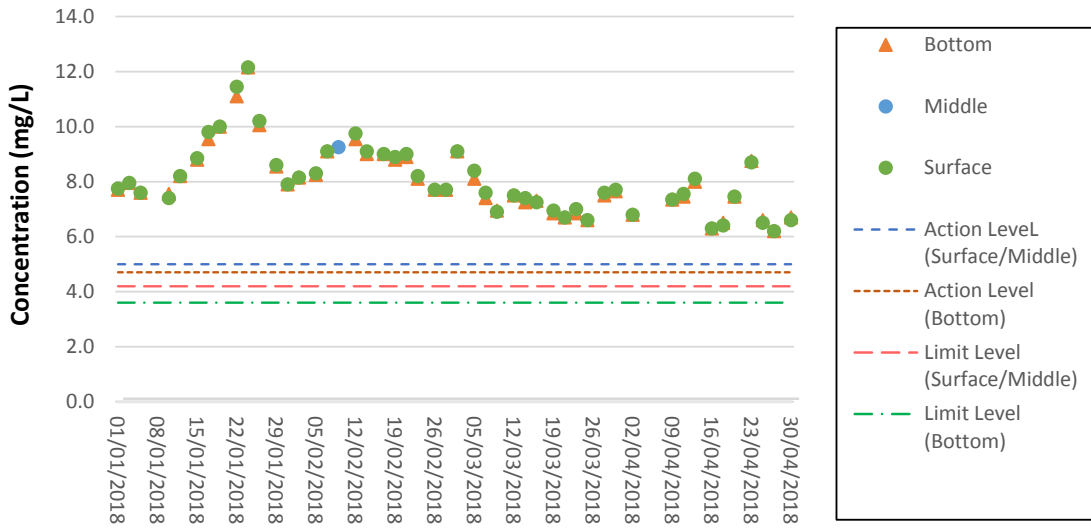
DO Concentrations at Station IS17 (Mid Ebb)



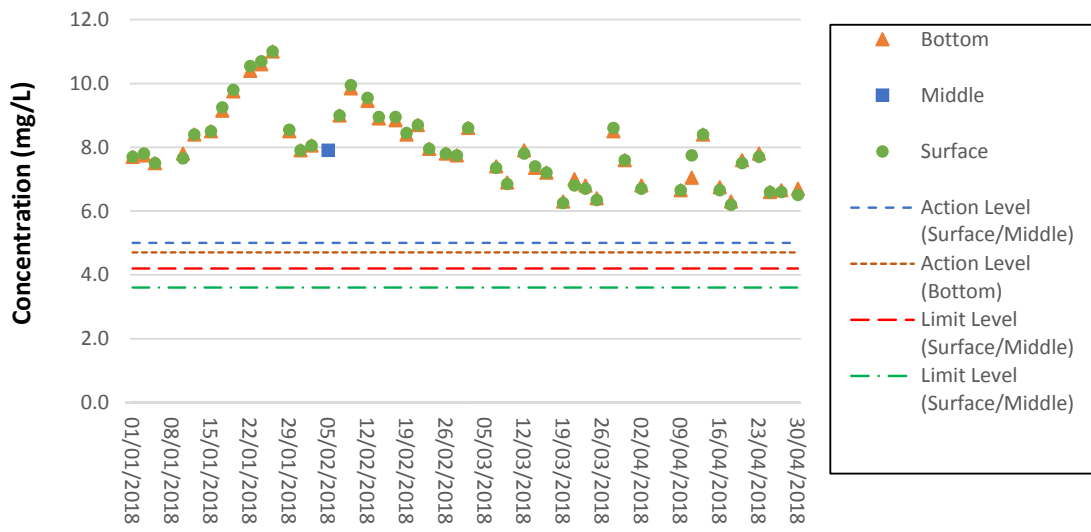
DO Concentrations at Station IS17 (Mid Flood)



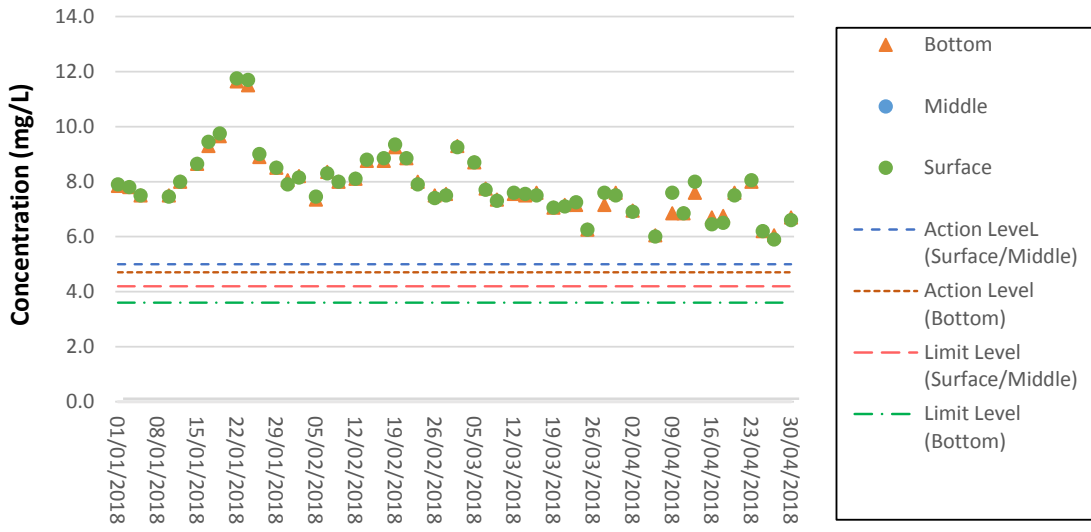
DO Concentrations at Station SR3(N) (Mid Ebb)



DO Concentrations at Station SR3(N) (Mid Flood)



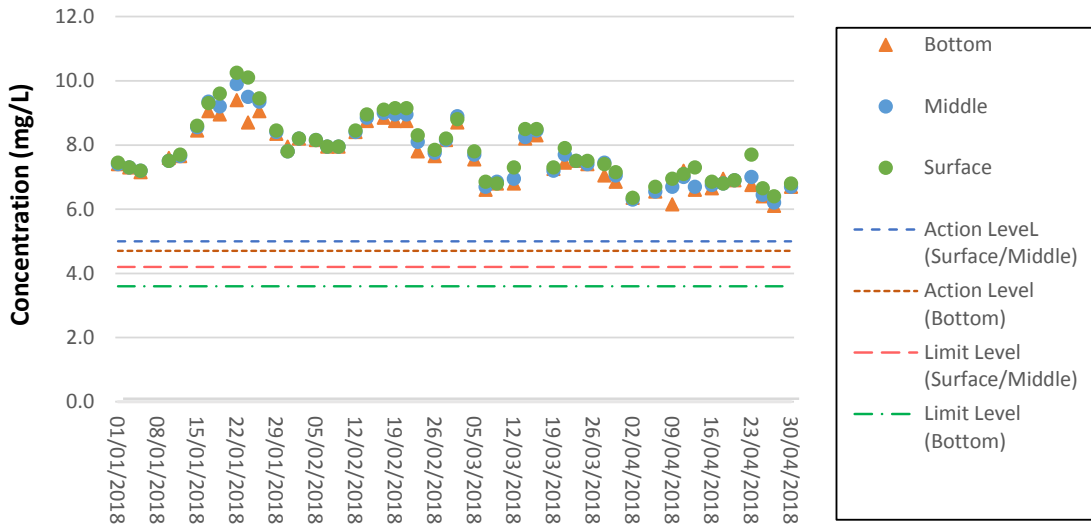
DO Concentrations at Station SR4(N) (Mid Ebb)



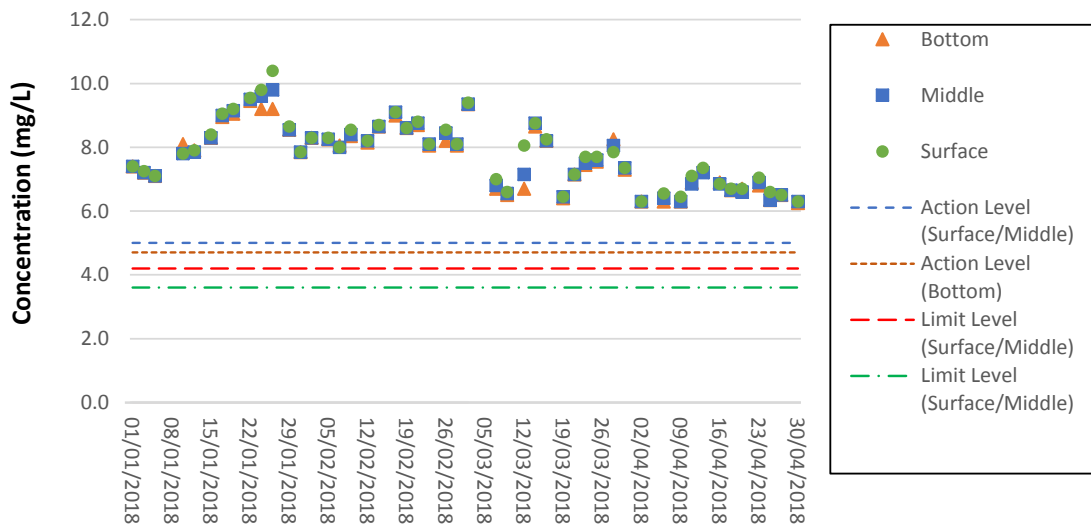
DO Concentrations at Station SR4(N) (Mid Flood)



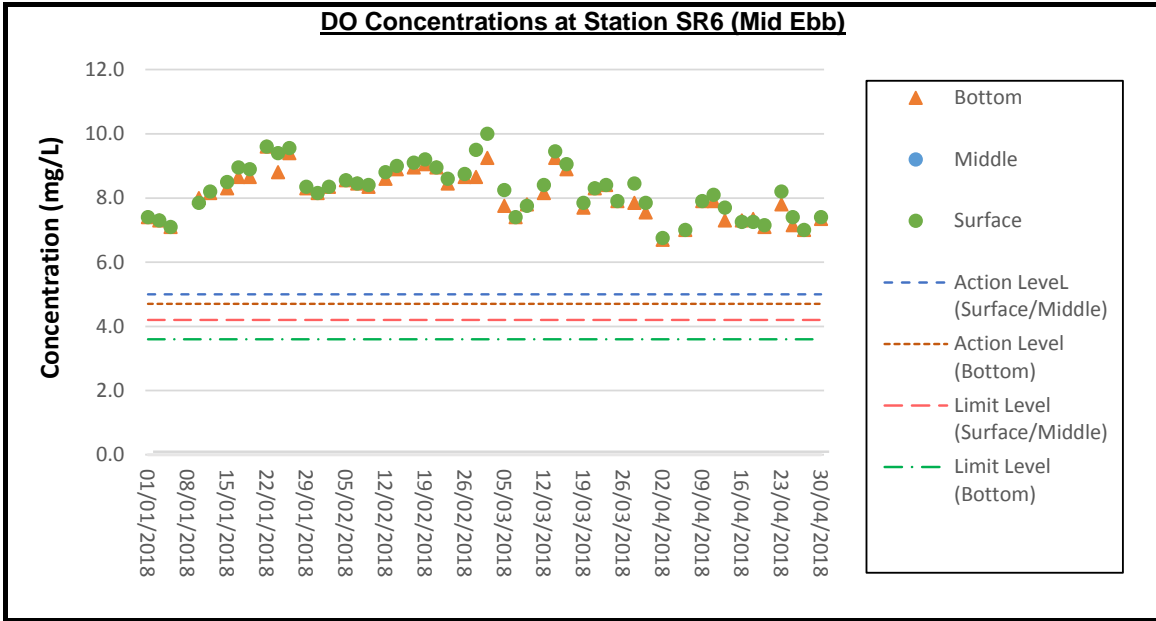
DO Concentrations at Station SR5(N) (Mid Ebb)



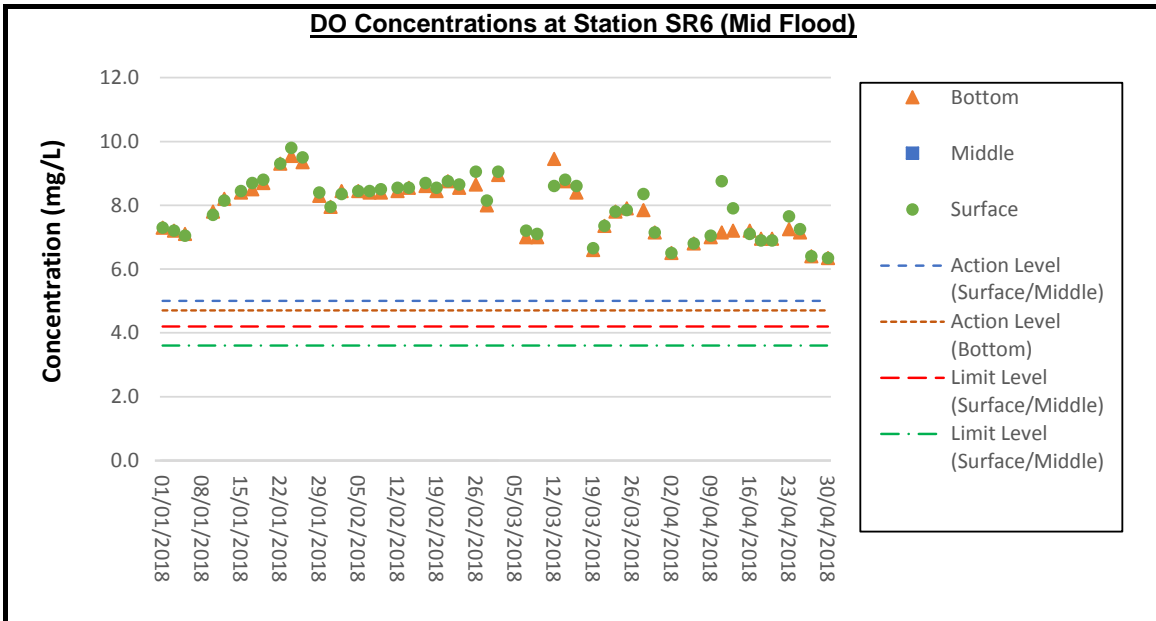
DO Concentrations at Station SR5(N) (Mid Flood)



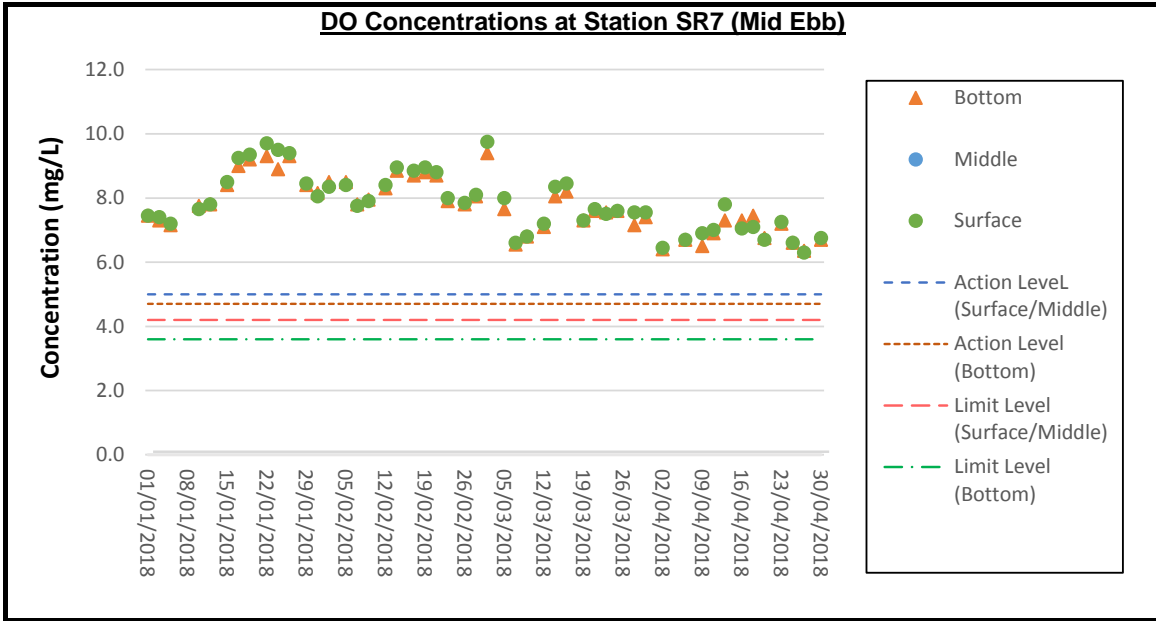
DO Concentrations at Station SR6 (Mid Ebb)



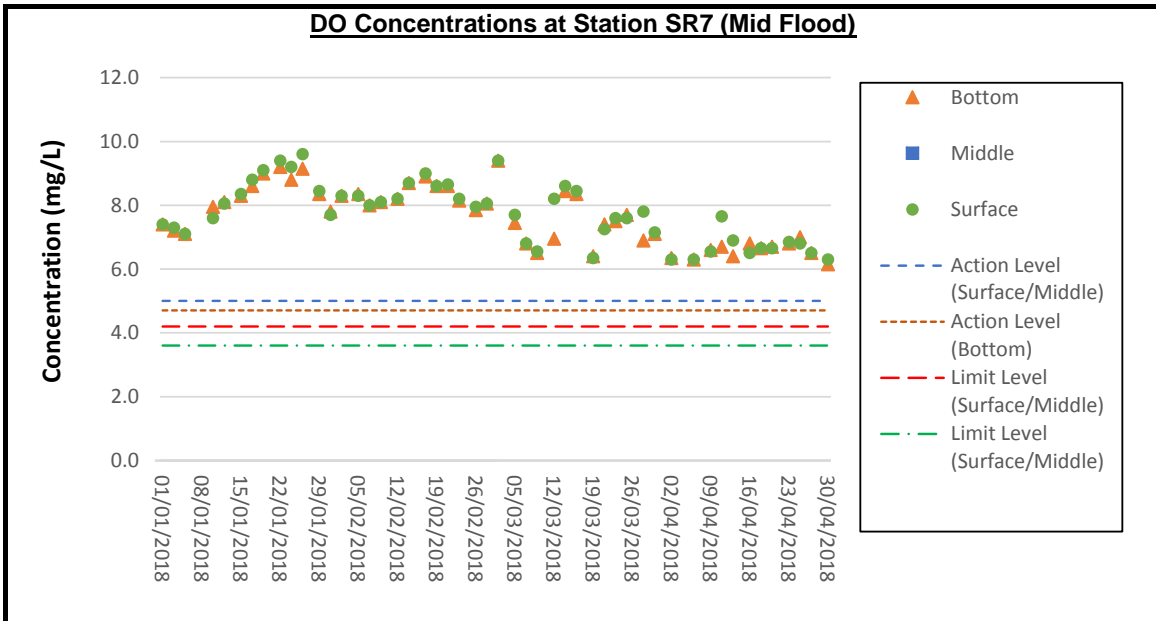
DO Concentrations at Station SR6 (Mid Flood)



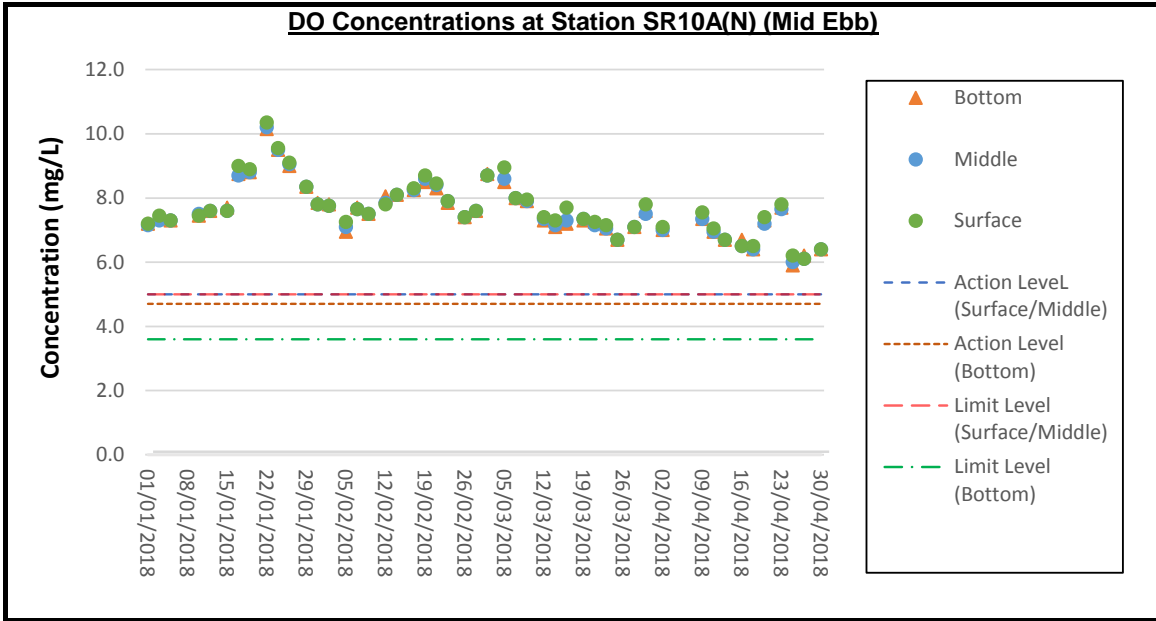
DO Concentrations at Station SR7 (Mid Ebb)



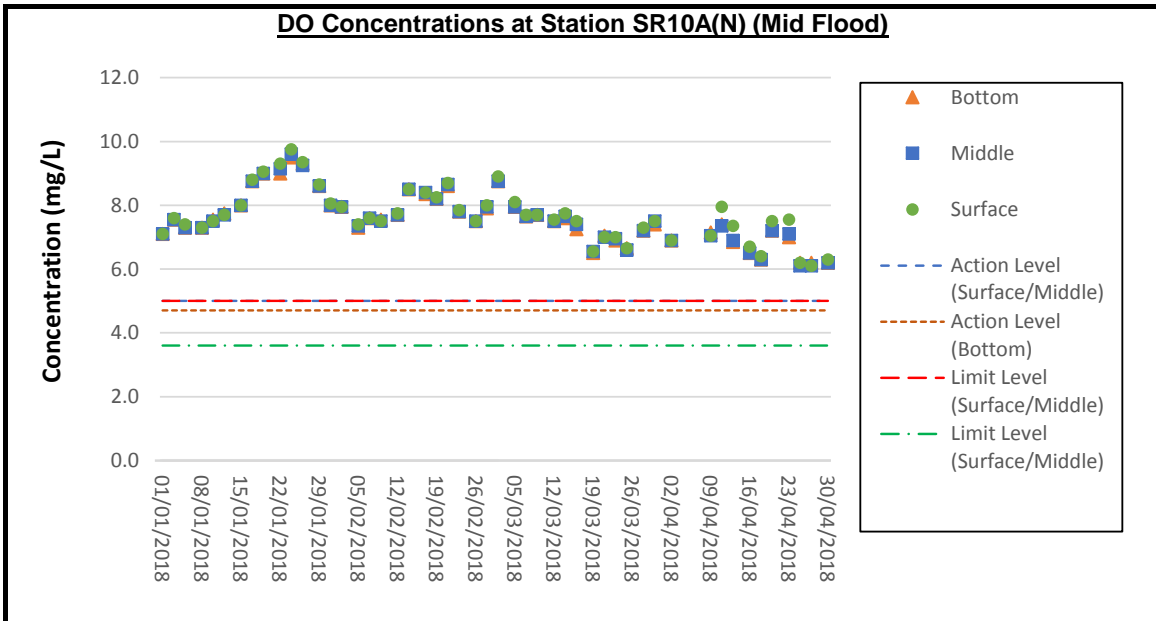
DO Concentrations at Station SR7 (Mid Flood)



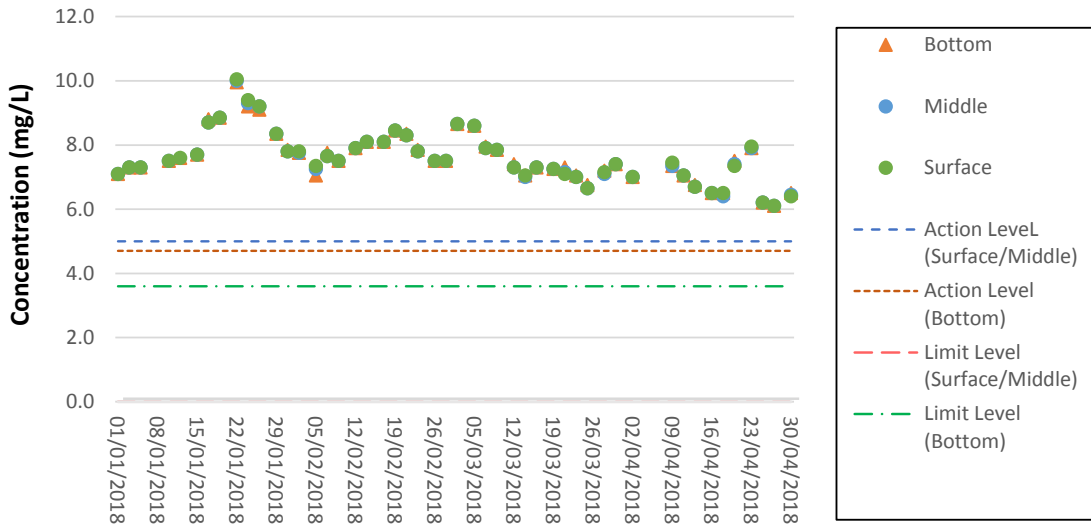
DO Concentrations at Station SR10A(N) (Mid Ebb)



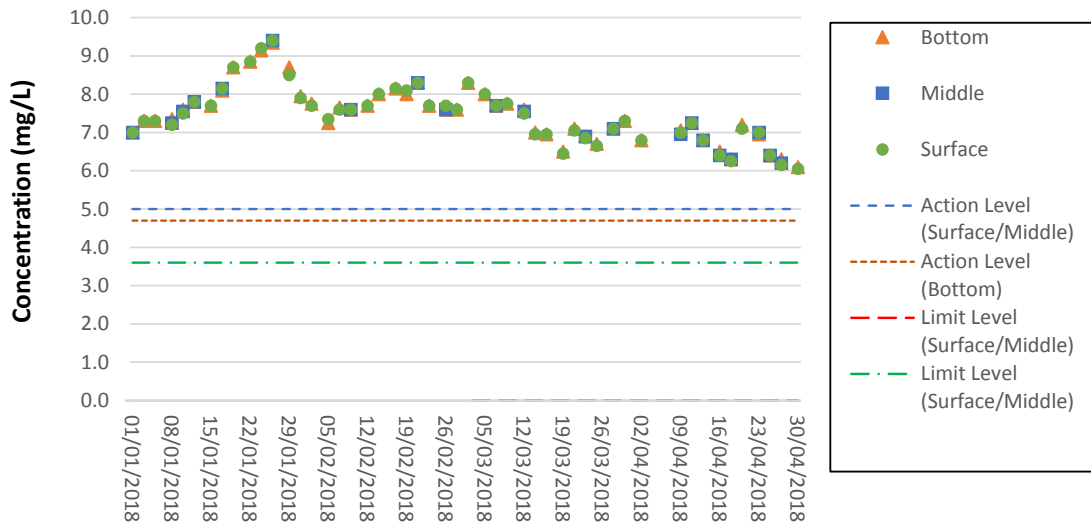
DO Concentrations at Station SR10A(N) (Mid Flood)



DO Concentrations at Station SR10B(N2) (Mid Ebb)



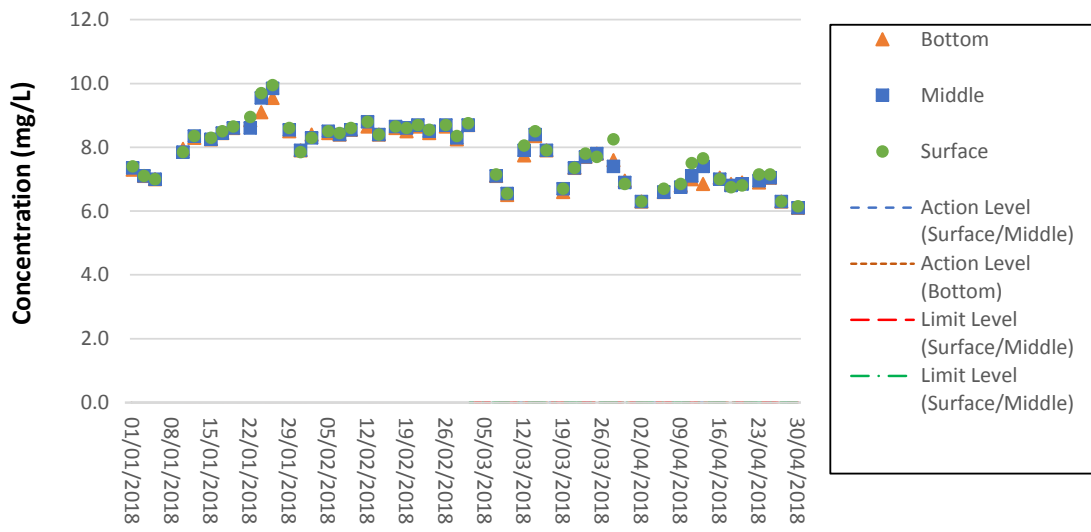
DO Concentrations at Station SR10B(N2) (Mid Flood)

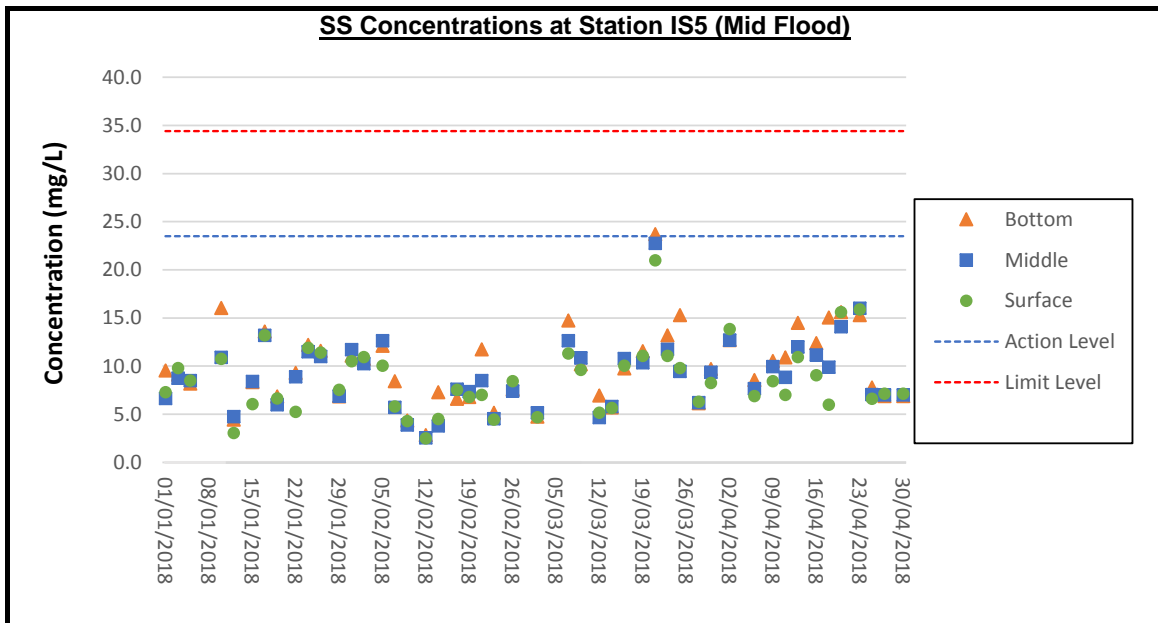
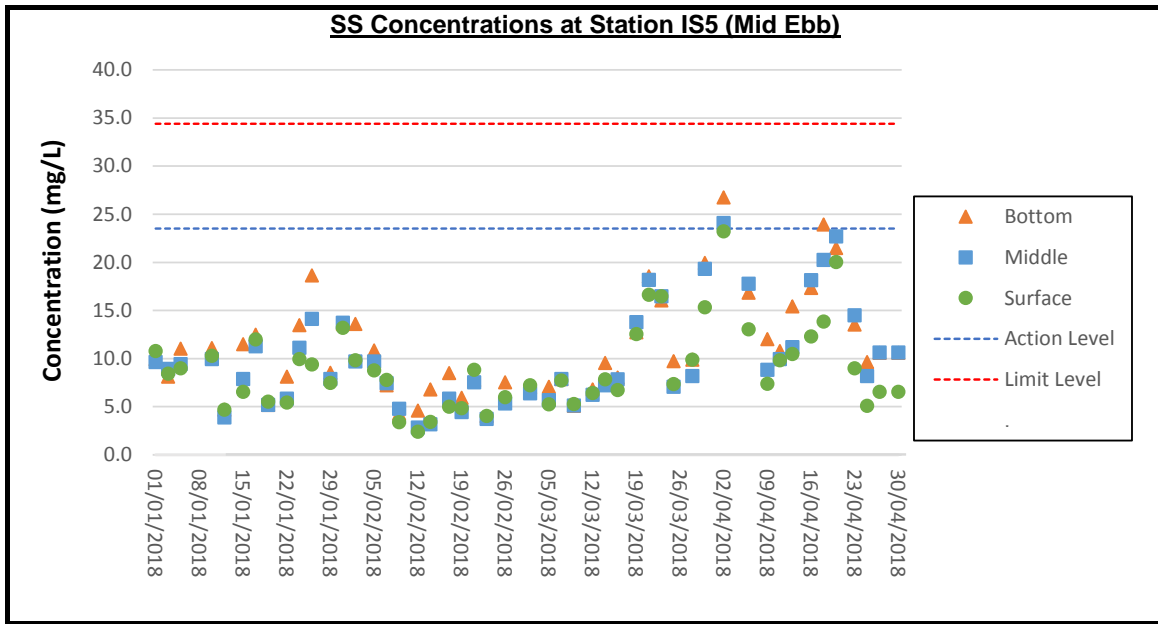


DO Concentrations at Station CS(Mf)3(N) (Mid Ebb)

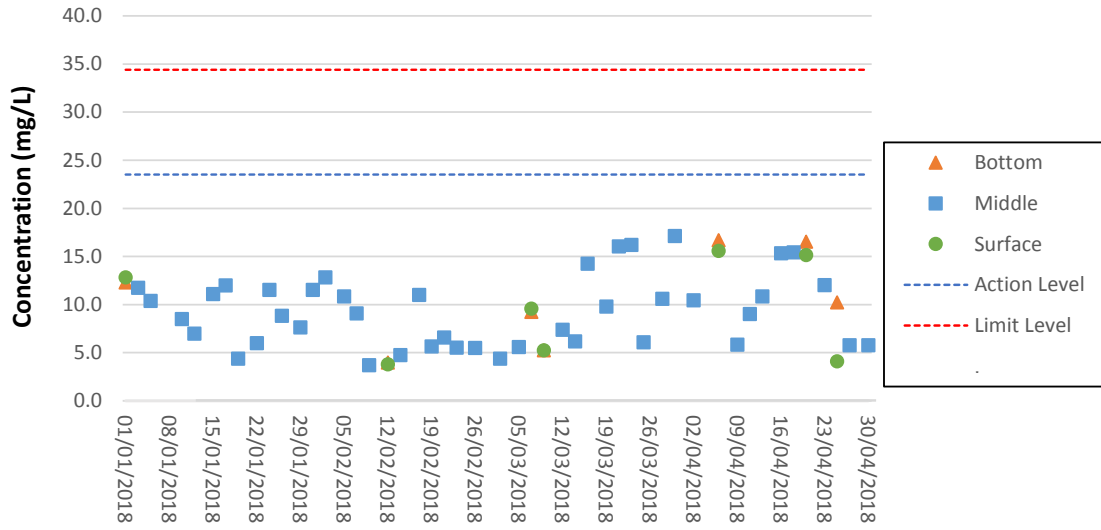


DO Concentrations at Station CS(Mf)3(N) (Mid Flood)

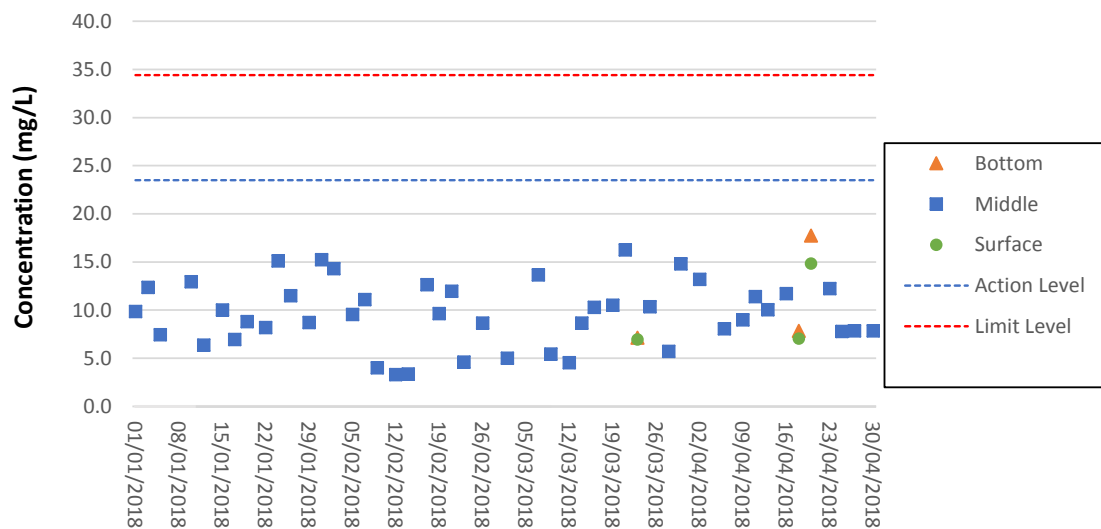




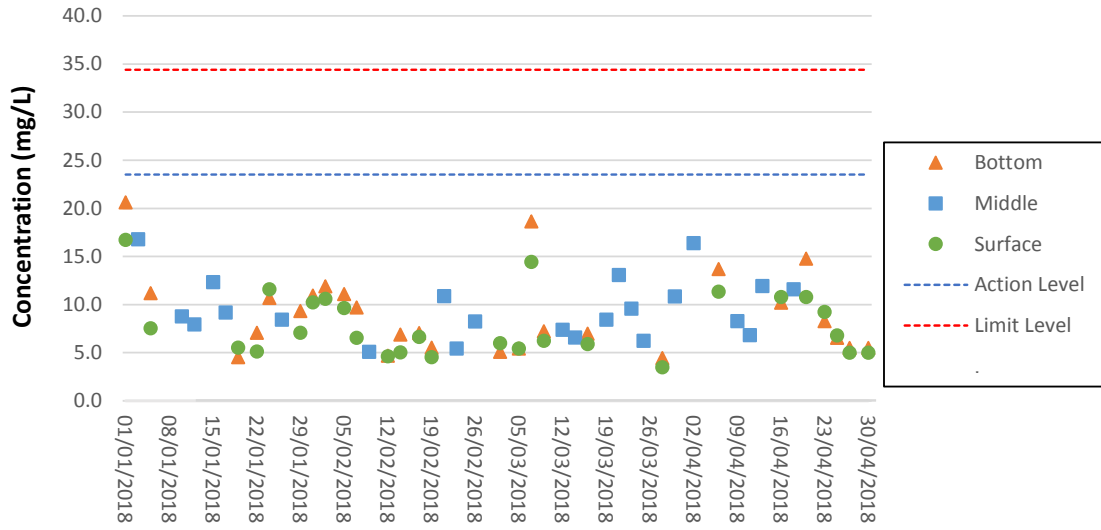
SS Concentrations at Station IS(Mf)6 (Mid Ebb)



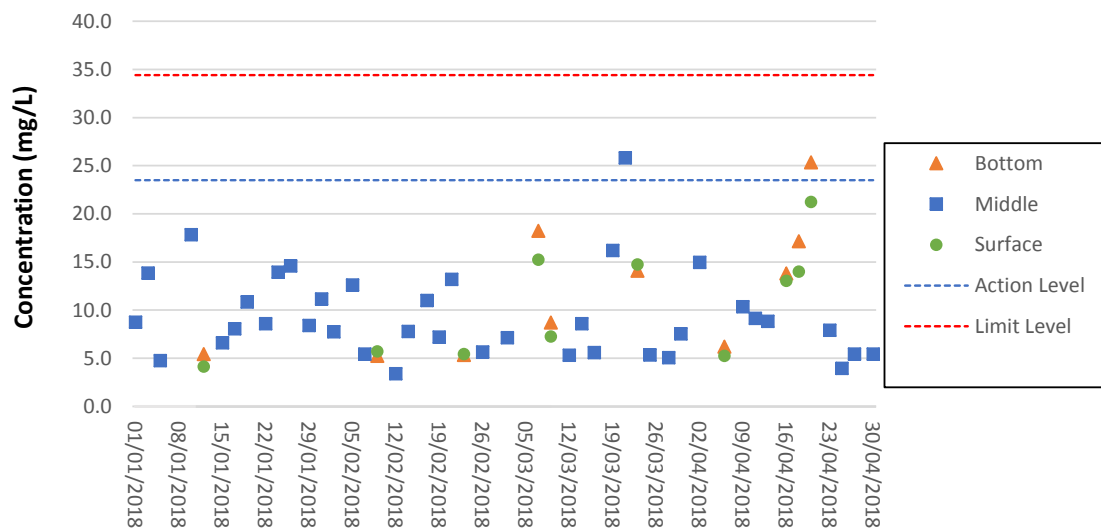
SS Concentrations at Station IS(Mf)6 (Mid Flood)



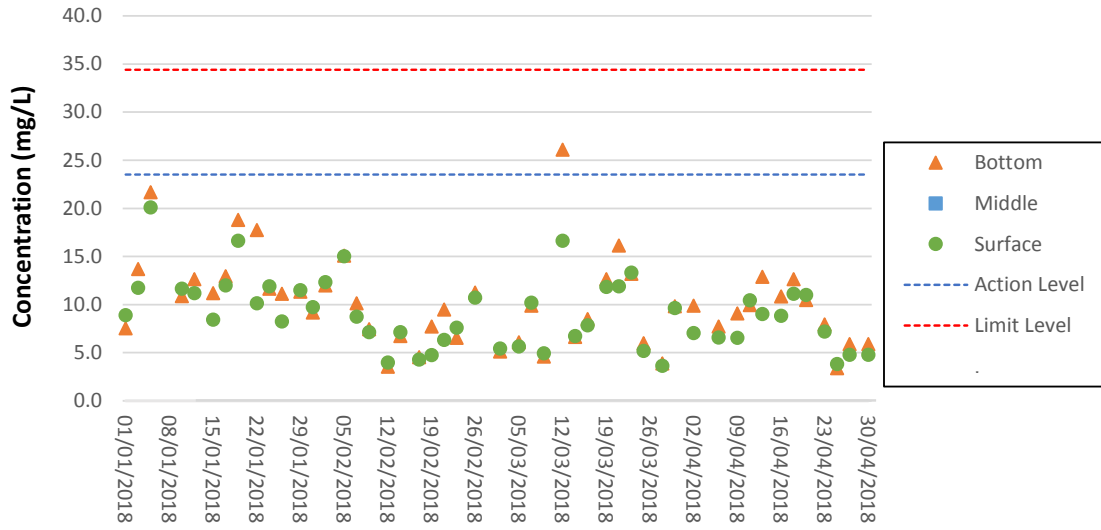
SS Concentrations at Station IS7 (Mid Ebb)



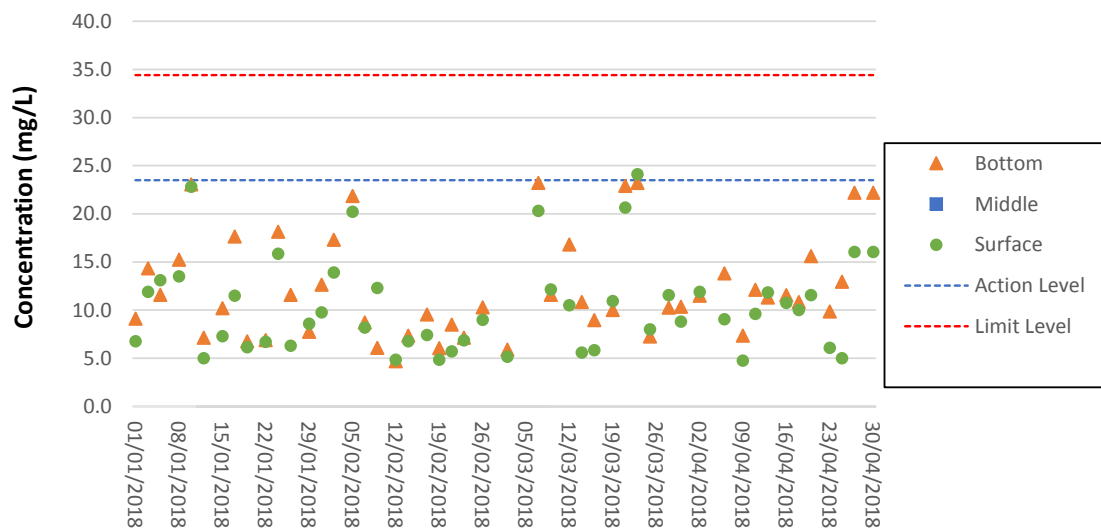
SS Concentrations at Station IS7 (Mid Flood)



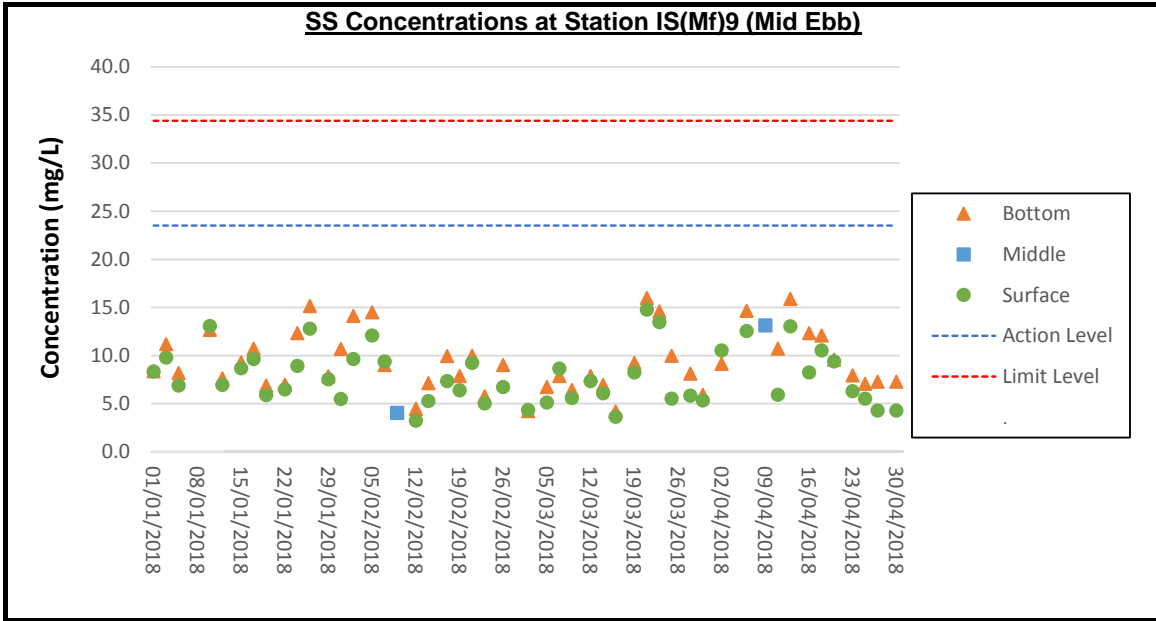
SS Concentrations at Station IS8 (Mid Ebb)



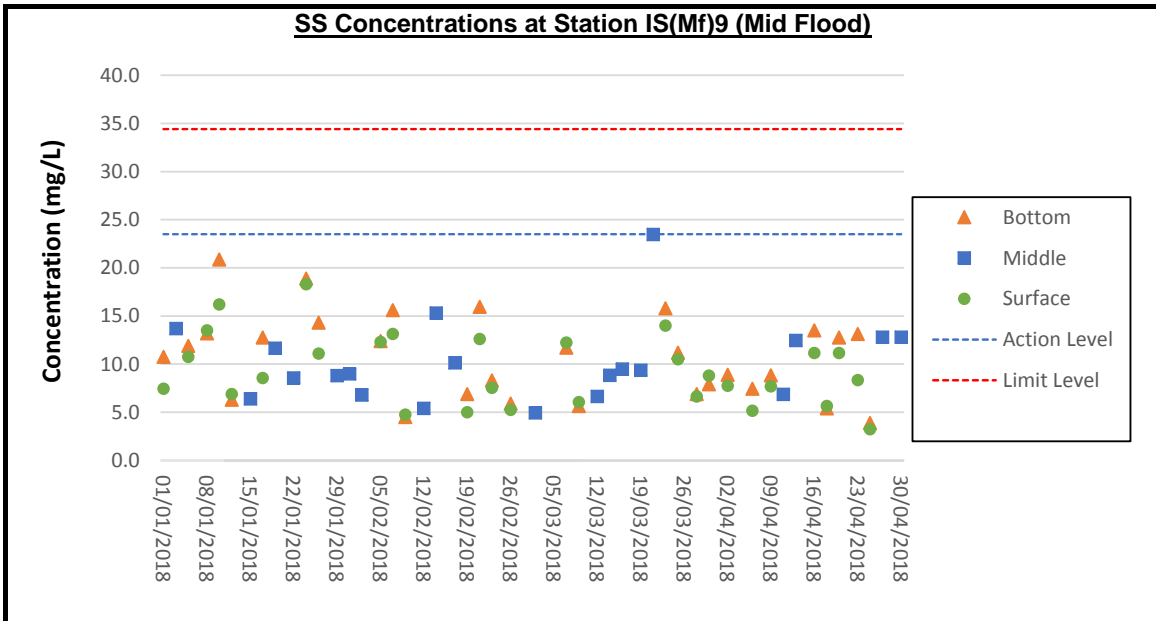
SS Concentrations at Station IS8 (Mid Flood)



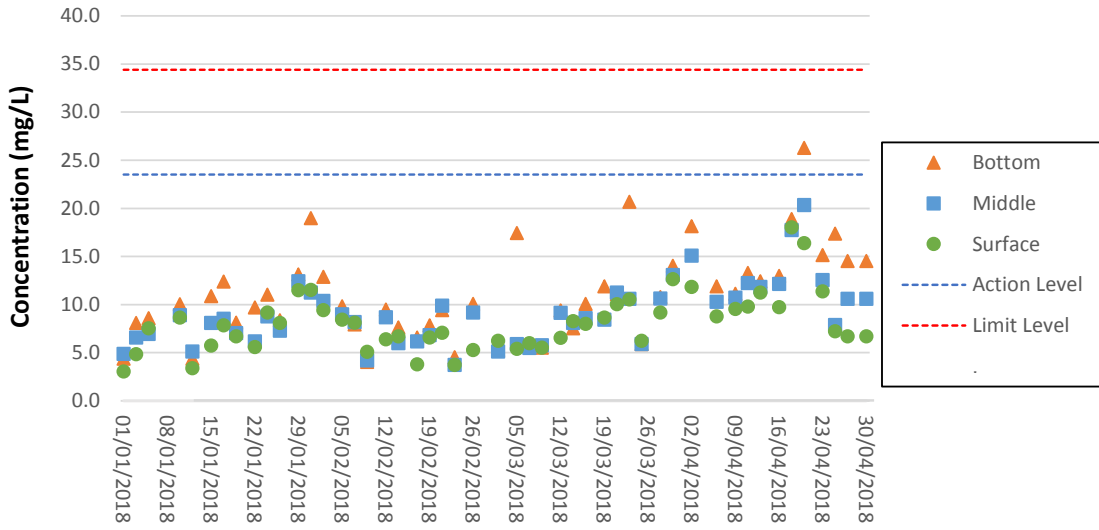
SS Concentrations at Station IS(Mf)9 (Mid Ebb)



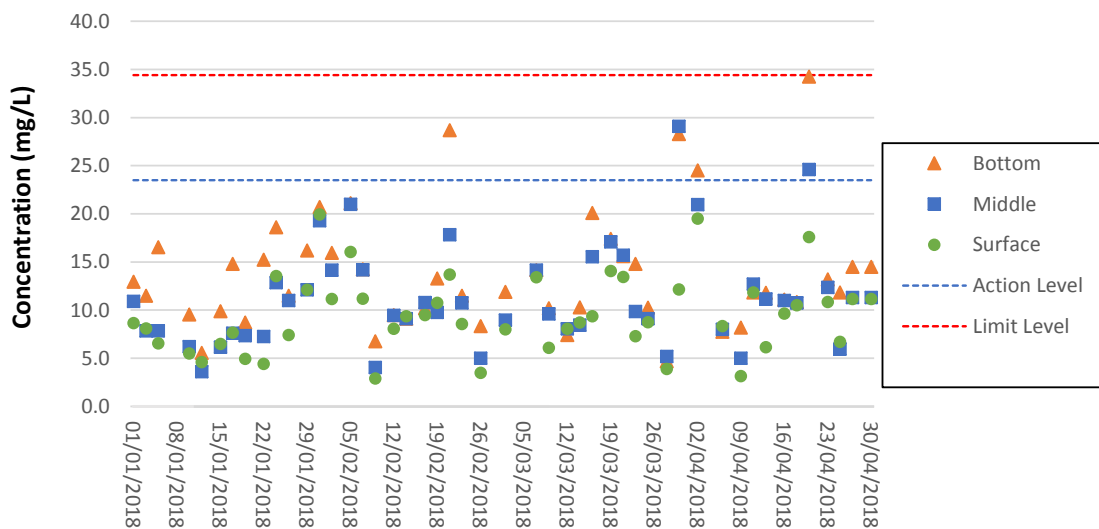
SS Concentrations at Station IS(Mf)9 (Mid Flood)



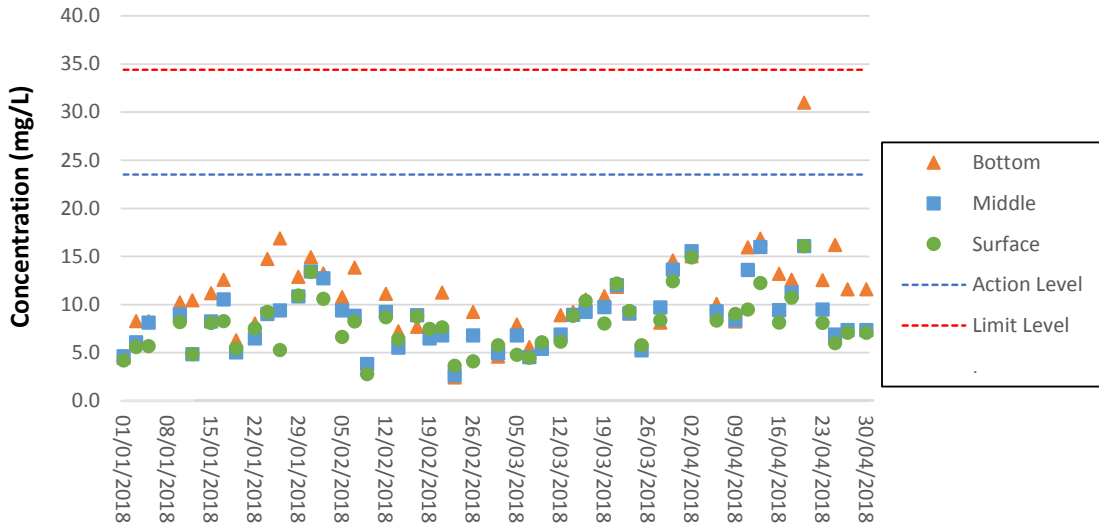
SS Concentrations at Station IS10(N) (Mid Ebb)



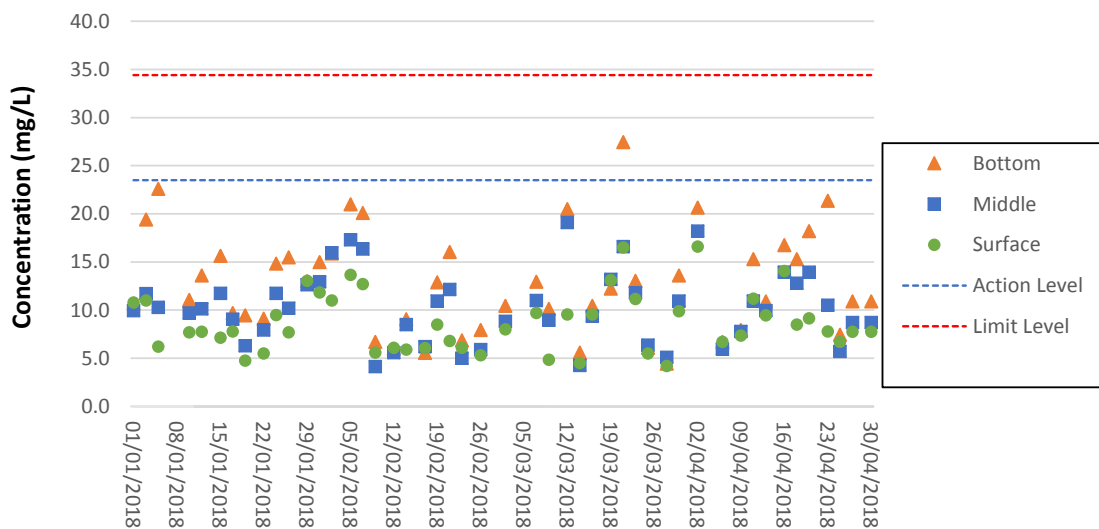
SS Concentrations at Station IS10(N) (Mid Flood)



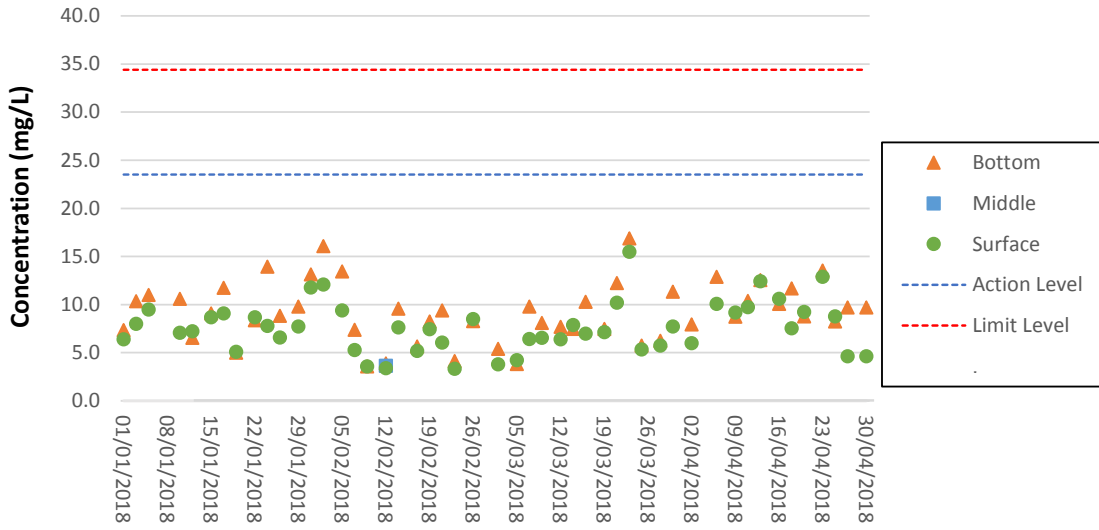
SS Concentrations at Station IS(Mf)11 (Mid Ebb)



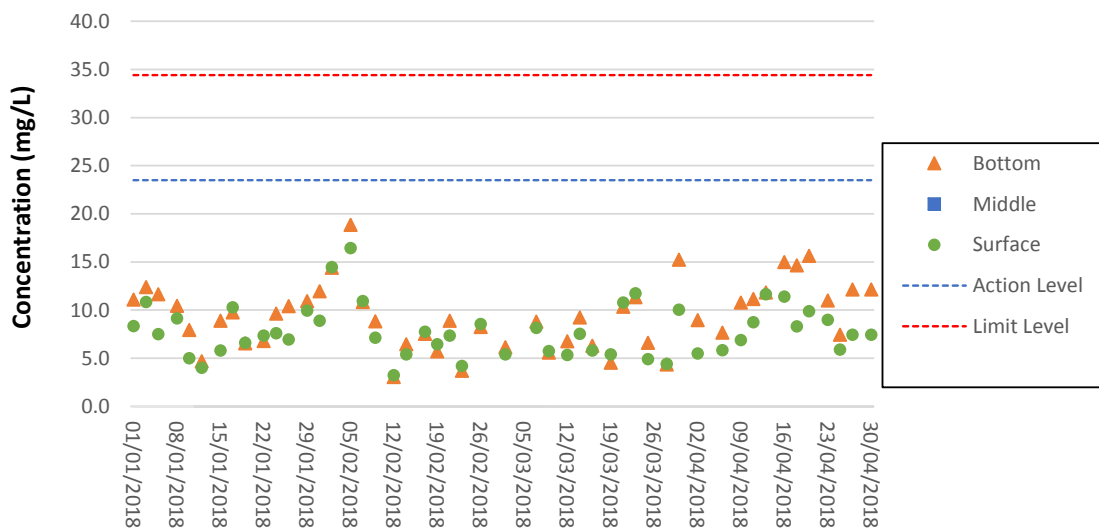
SS Concentrations at Station IS(Mf)11 (Mid Flood)



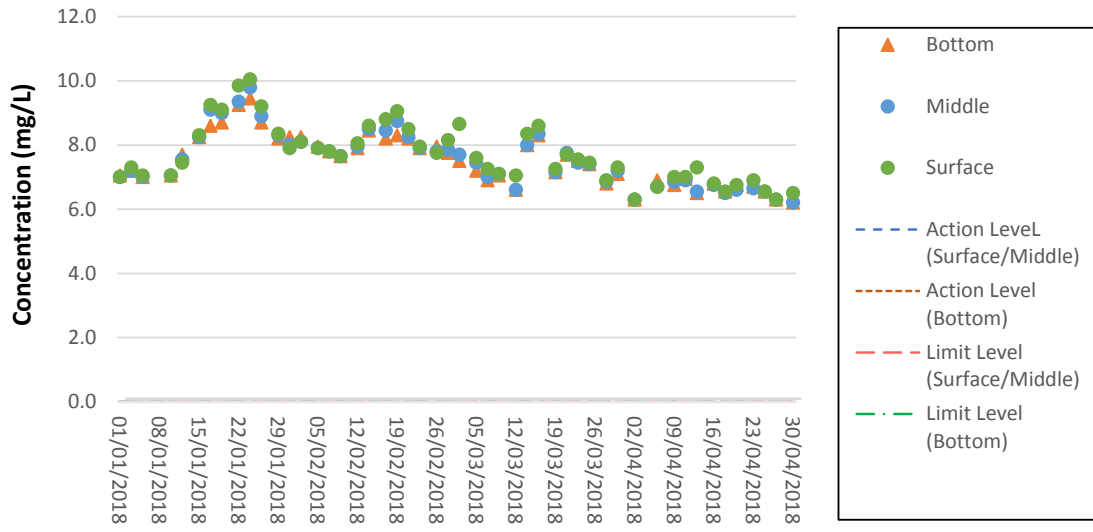
SS Concentrations at Station IS(Mf)16 (Mid Ebb)



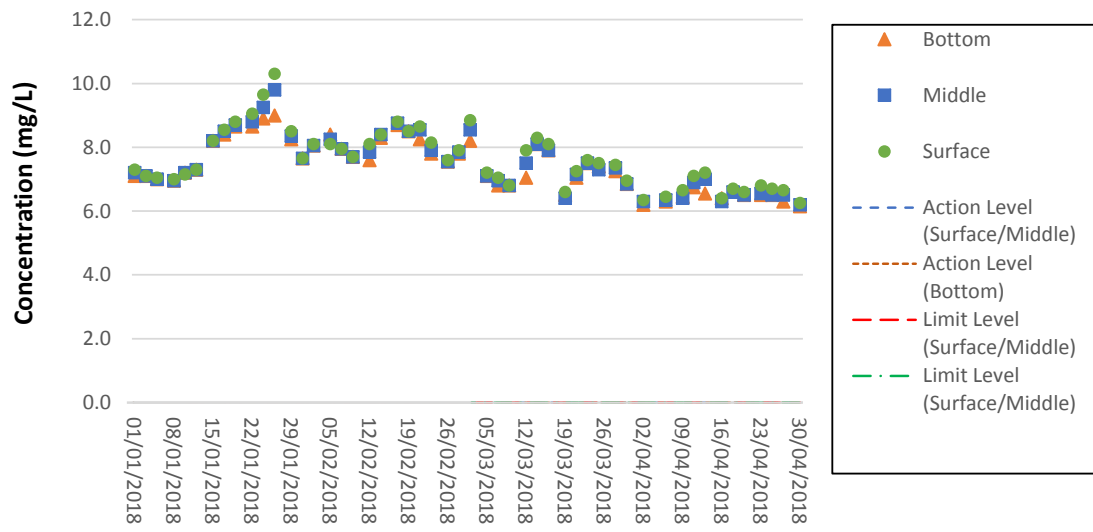
SS Concentrations at Station IS(Mf)16 (Mid Flood)



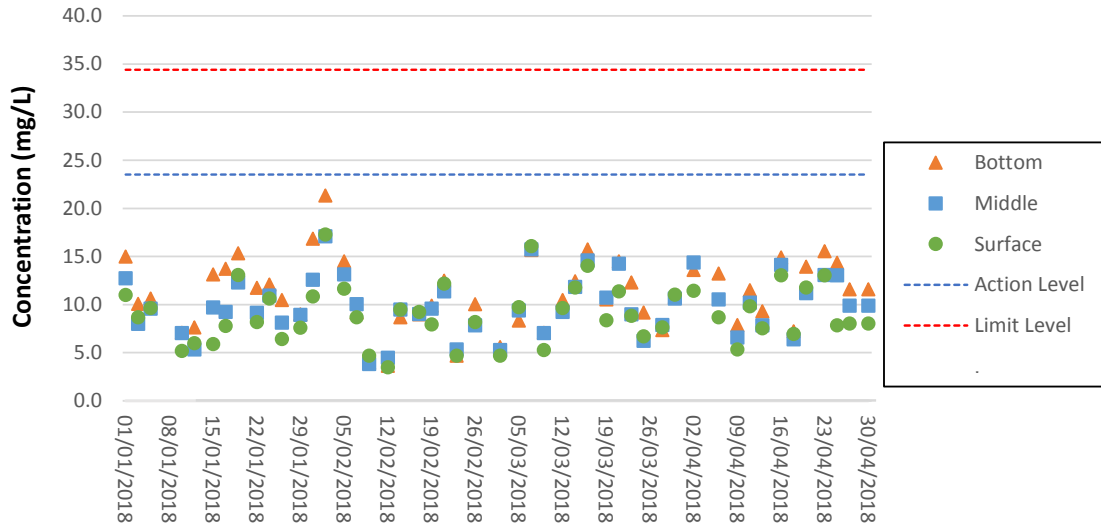
DO Concentrations at Station CS6 (Mid Ebb)



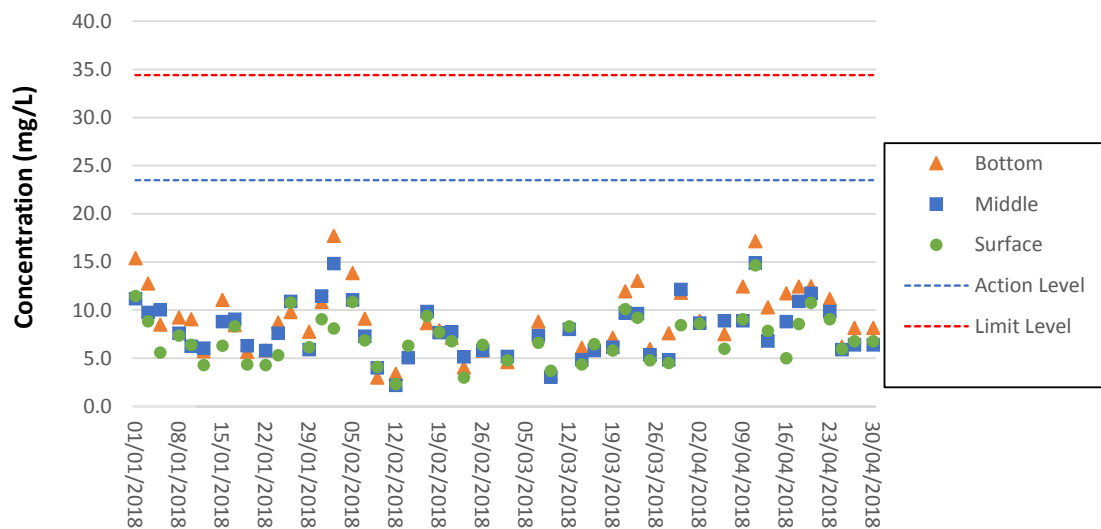
DO Concentrations at Station CS6 (Mid Flood)



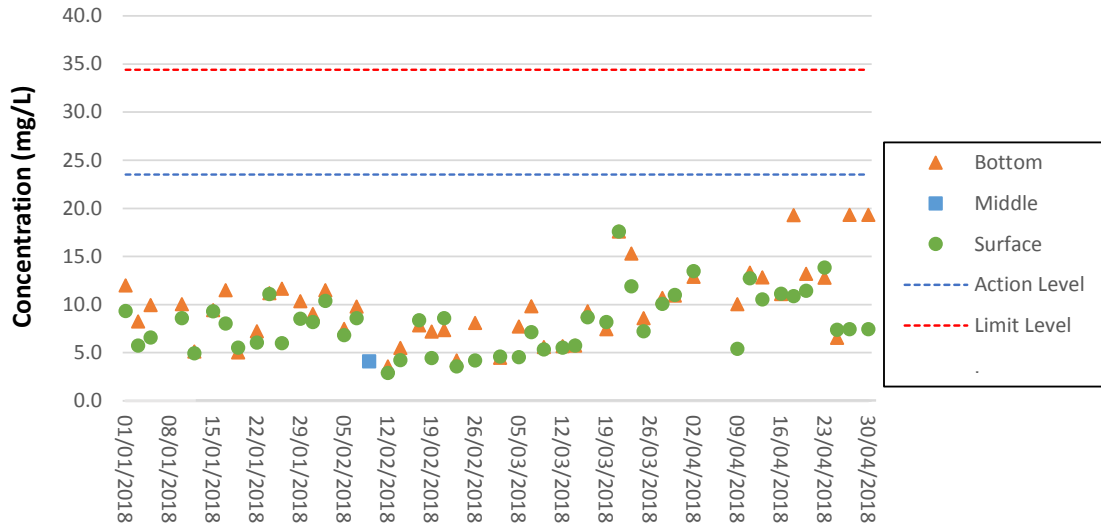
SS Concentrations at Station IS17 (Mid Ebb)



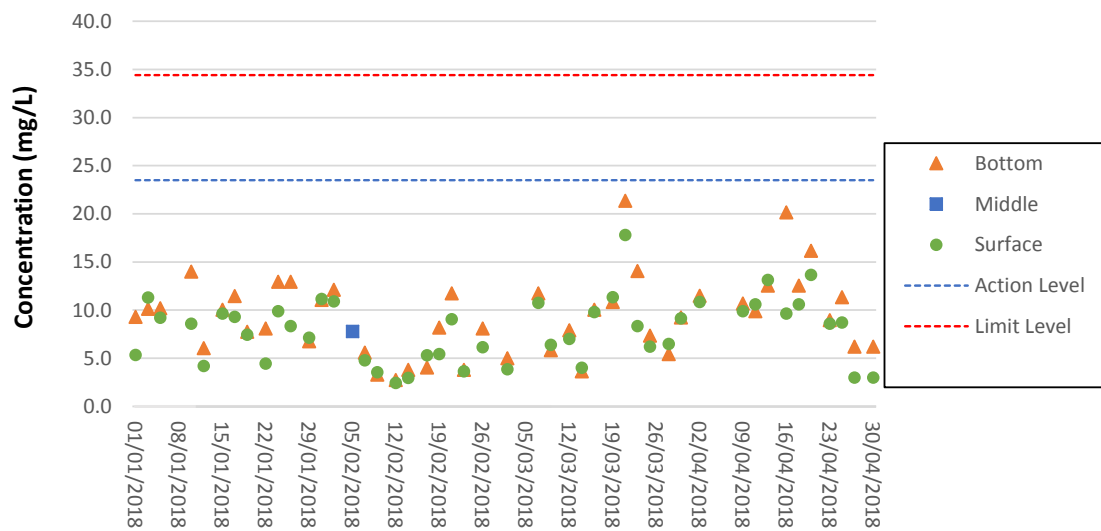
SS Concentrations at Station IS17 (Mid Flood)



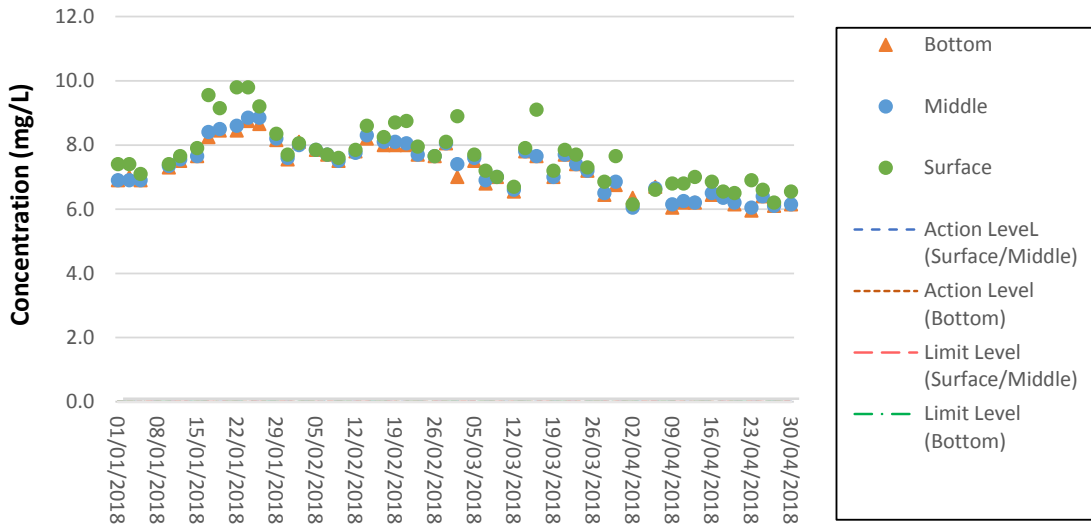
SS Concentrations at Station SR3(N) (Mid Ebb)



SS Concentrations at Station SR3(N) (Mid Flood)



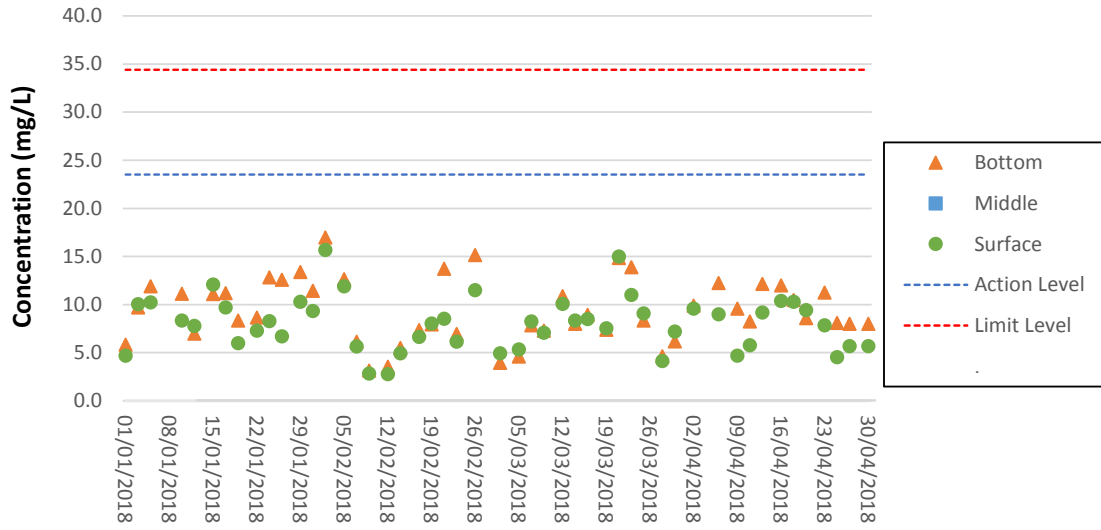
DO Concentrations at Station CSA (Mid Ebb)



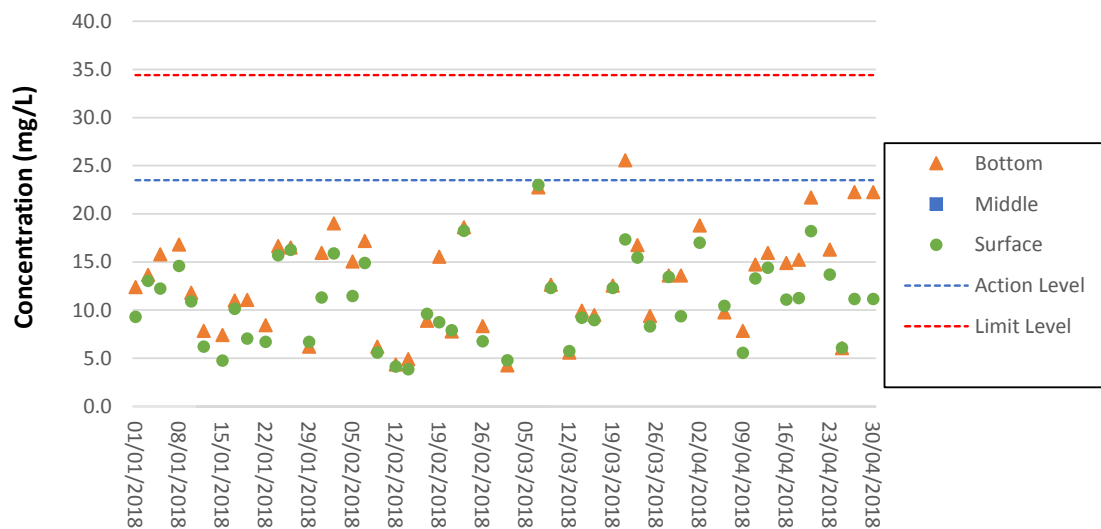
DO Concentrations at Station CSA (Mid Flood)



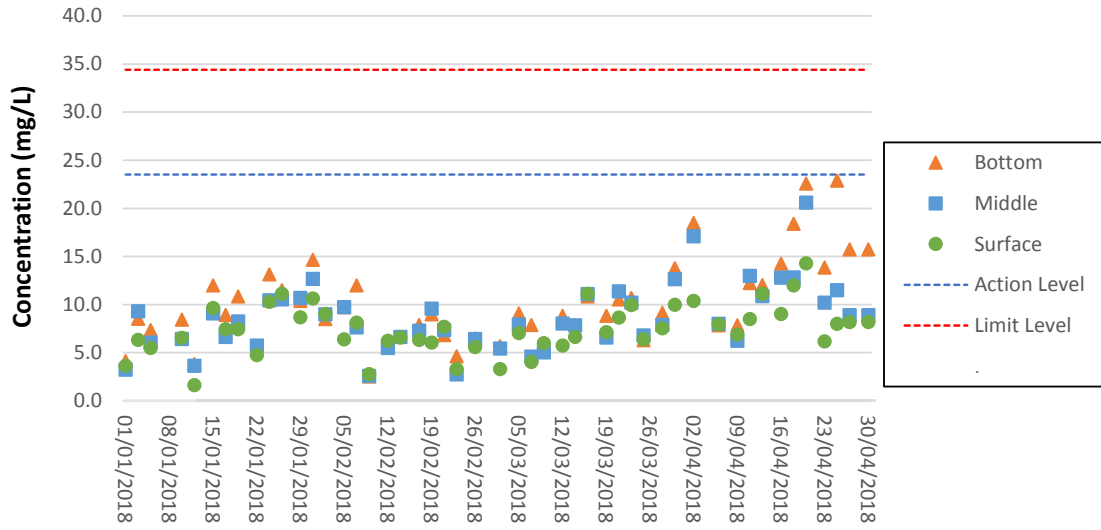
SS Concentrations at Station SR4(N) (Mid Ebb)



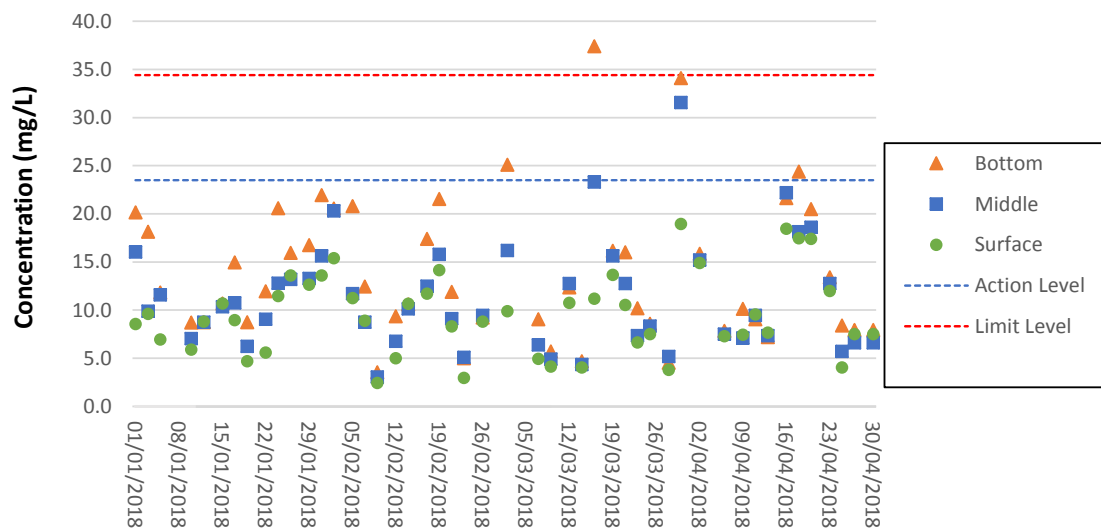
SS Concentrations at Station SR4(N) (Mid Flood)

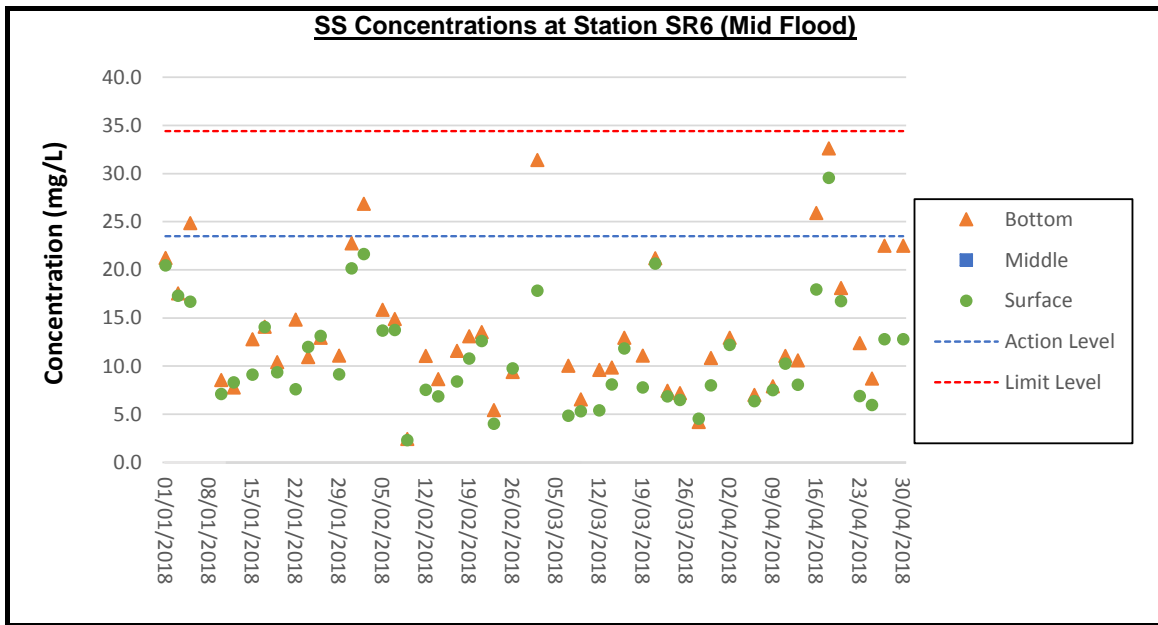
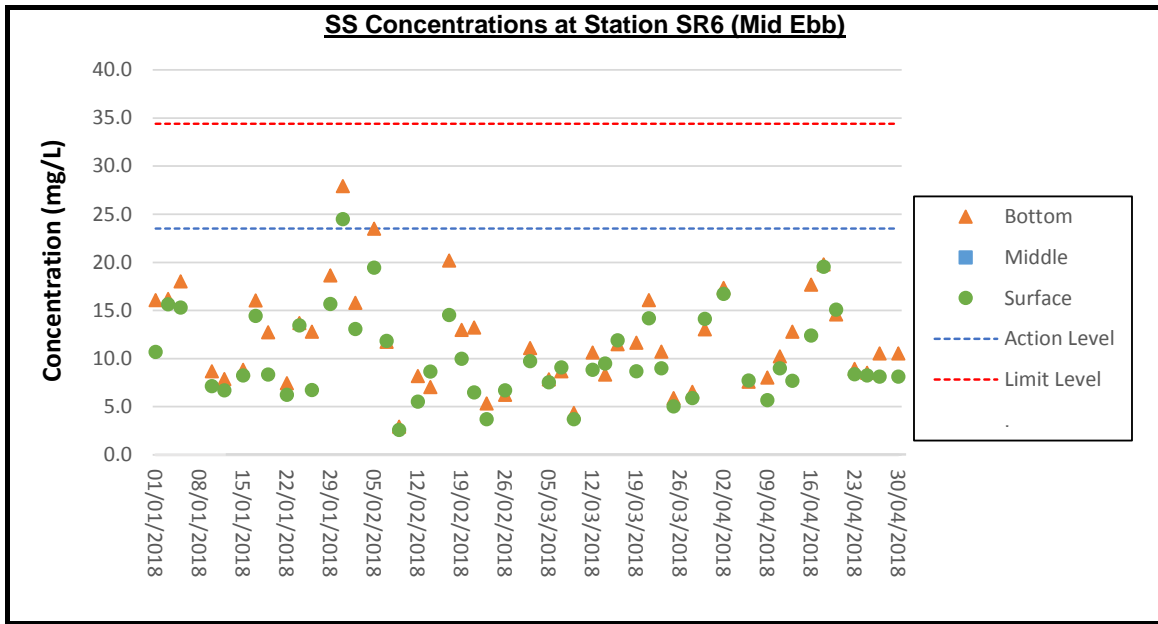


SS Concentrations at Station SR5(N) (Mid Ebb)

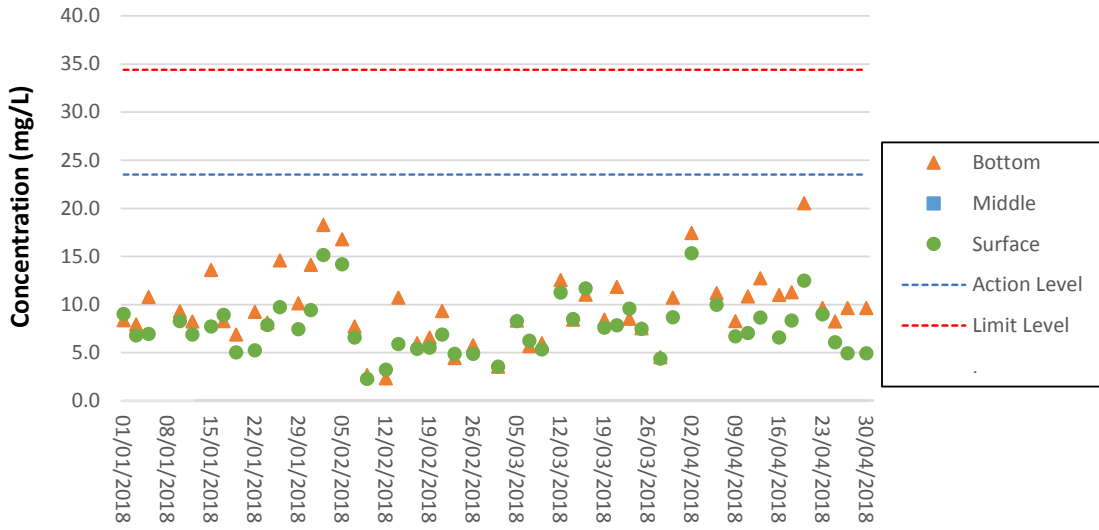


SS Concentrations at Station SR5(N) (Mid Flood)

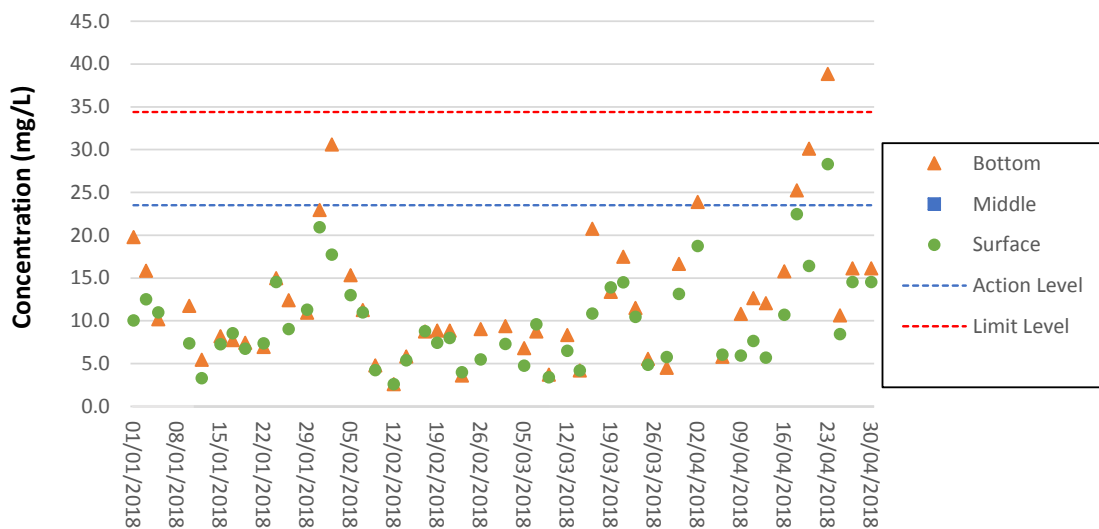




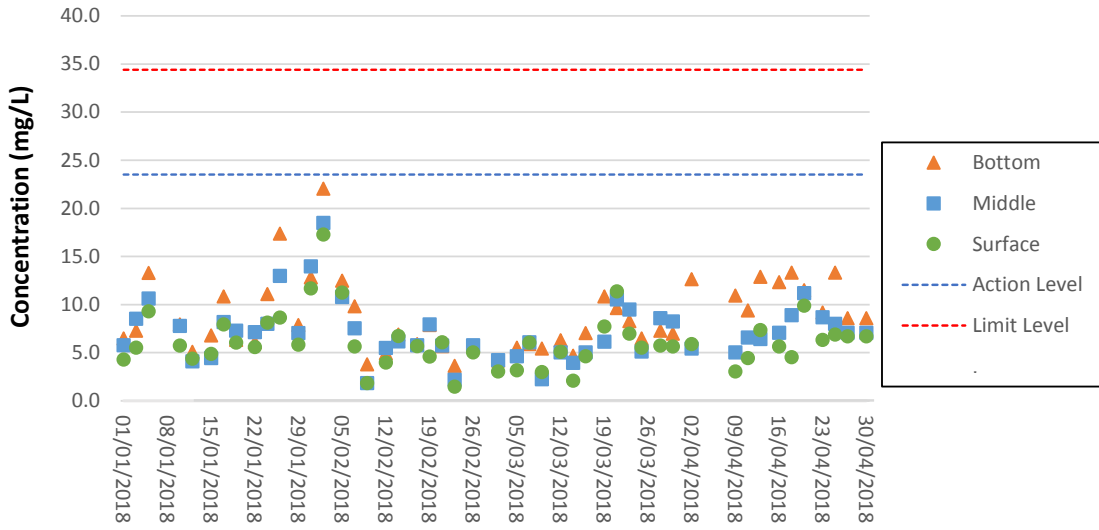
SS Concentrations at Station SR7 (Mid Ebb)



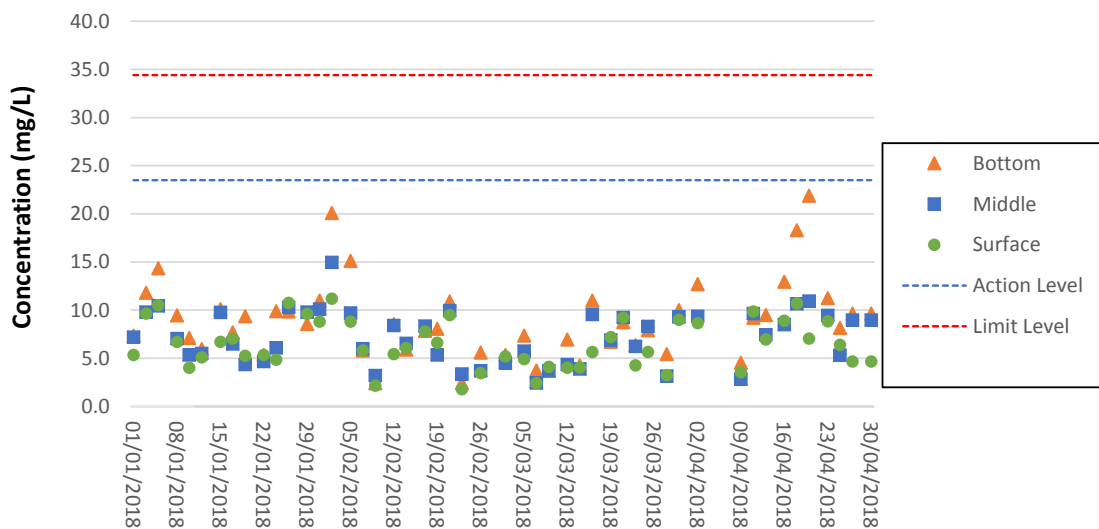
SS Concentrations at Station SR7 (Mid Flood)



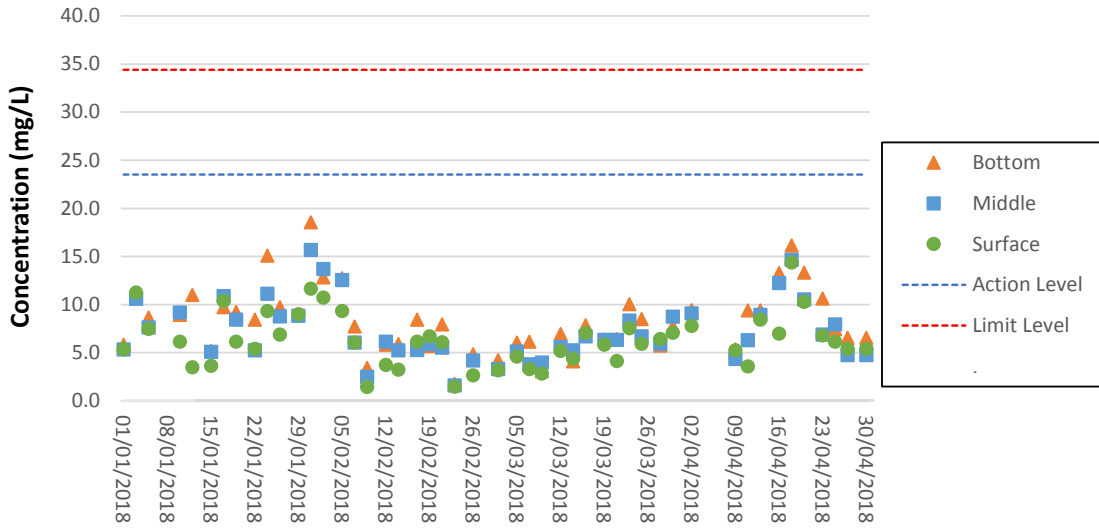
SS Concentrations at Station SR10A(N) (Mid Ebb)



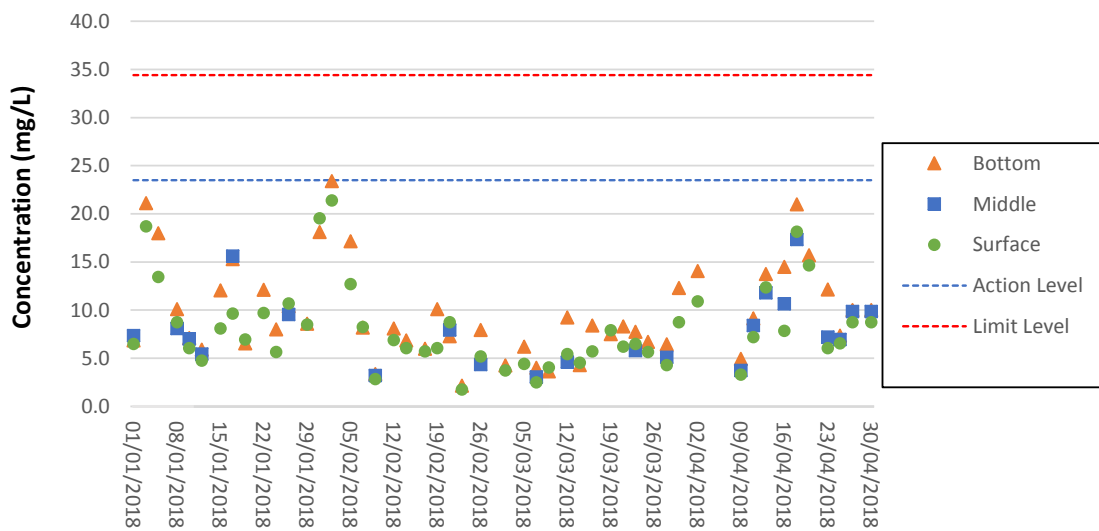
SS Concentrations at Station SR10A(N) (Mid Flood)

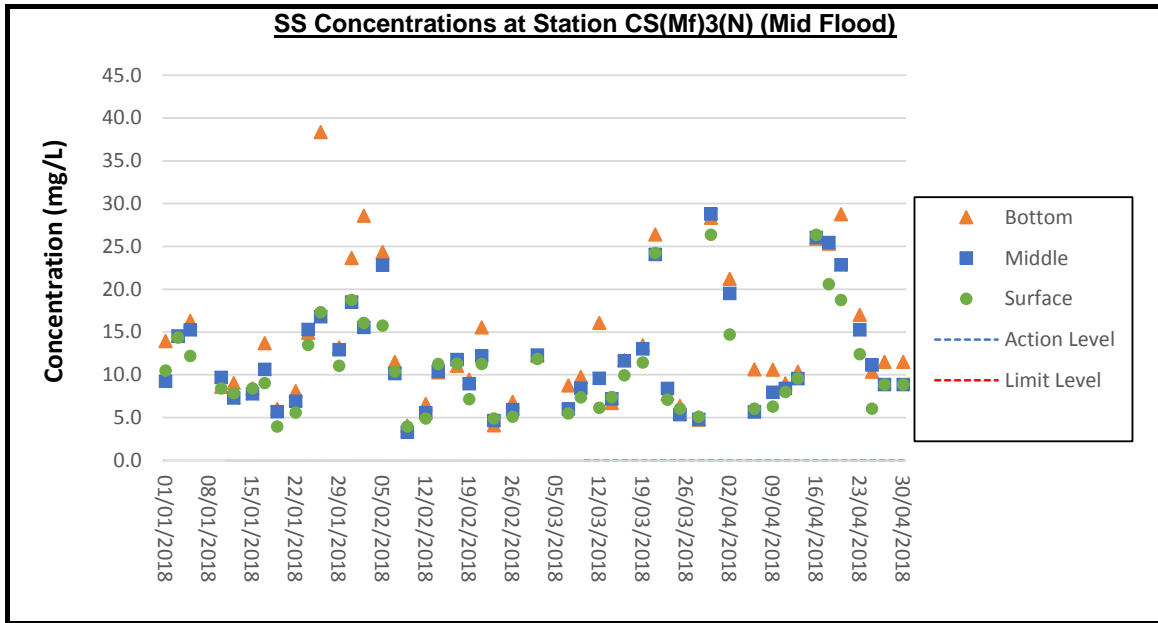
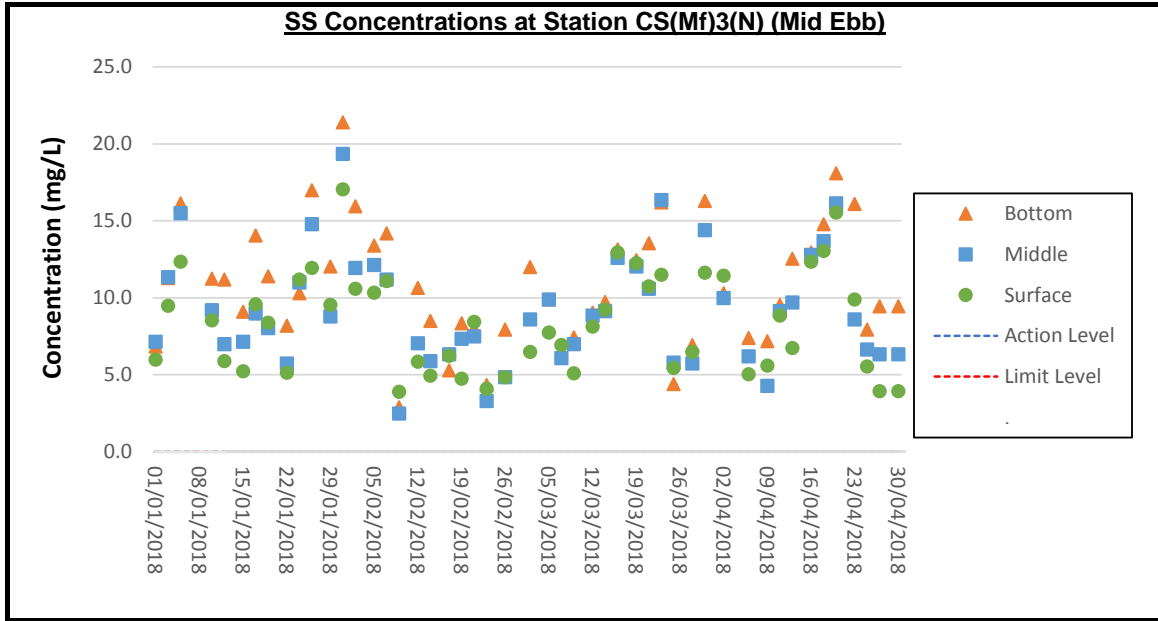


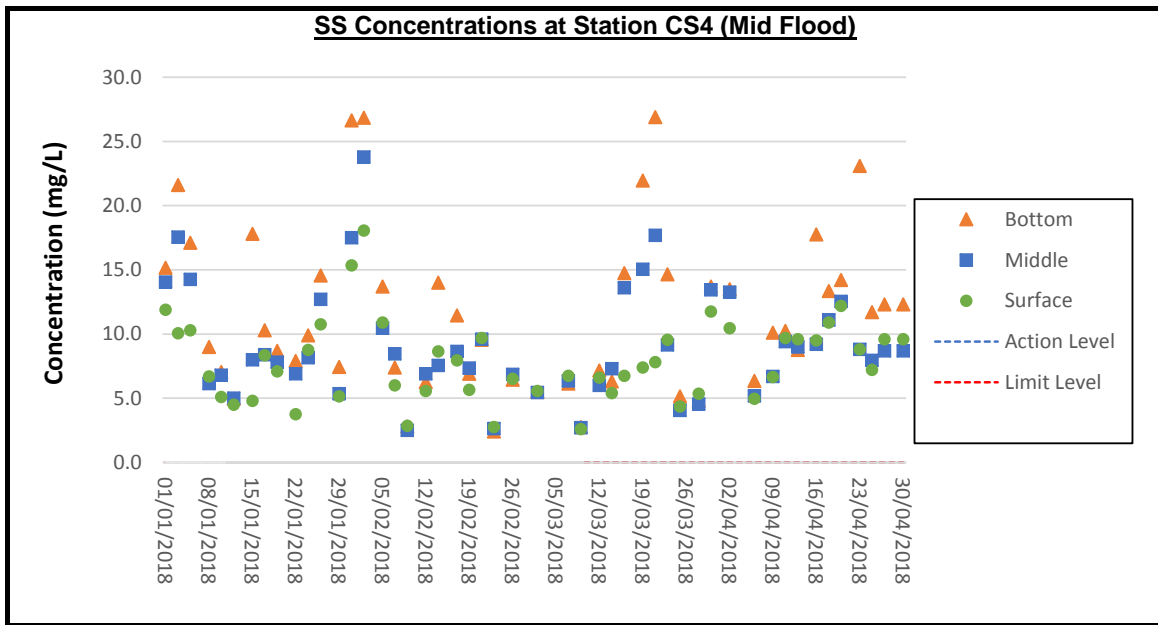
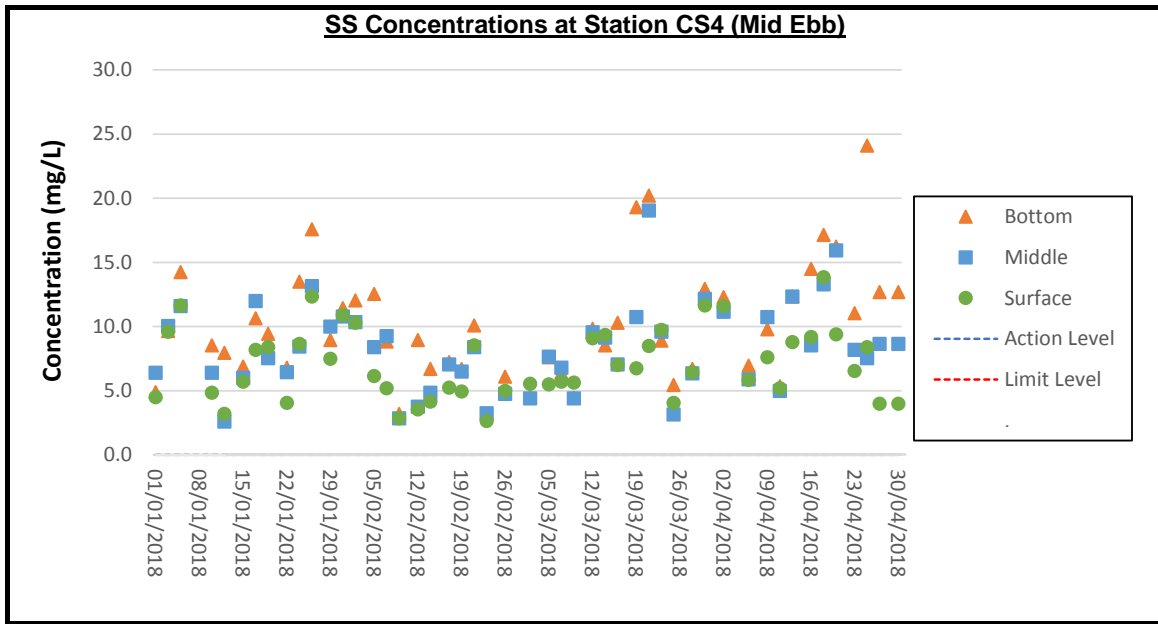
SS Concentrations at Station SR10B(N2) (Mid Ebb)



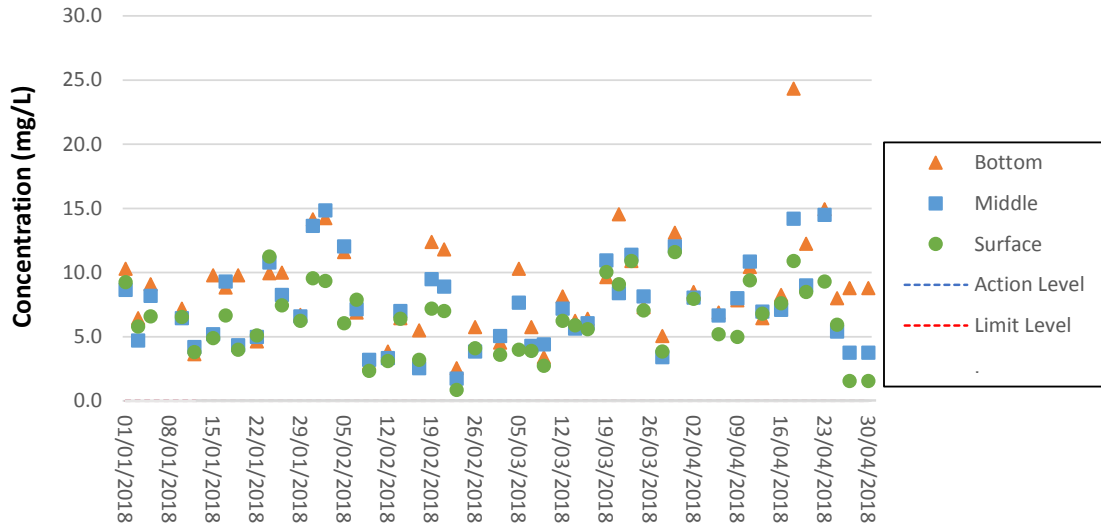
SS Concentrations at Station SR10B(N2) (Mid Flood)



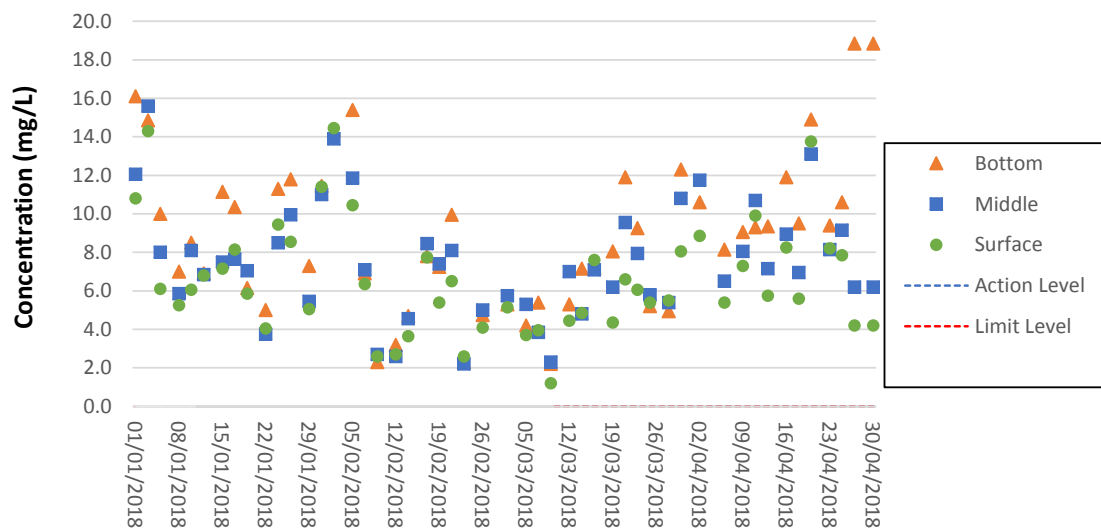




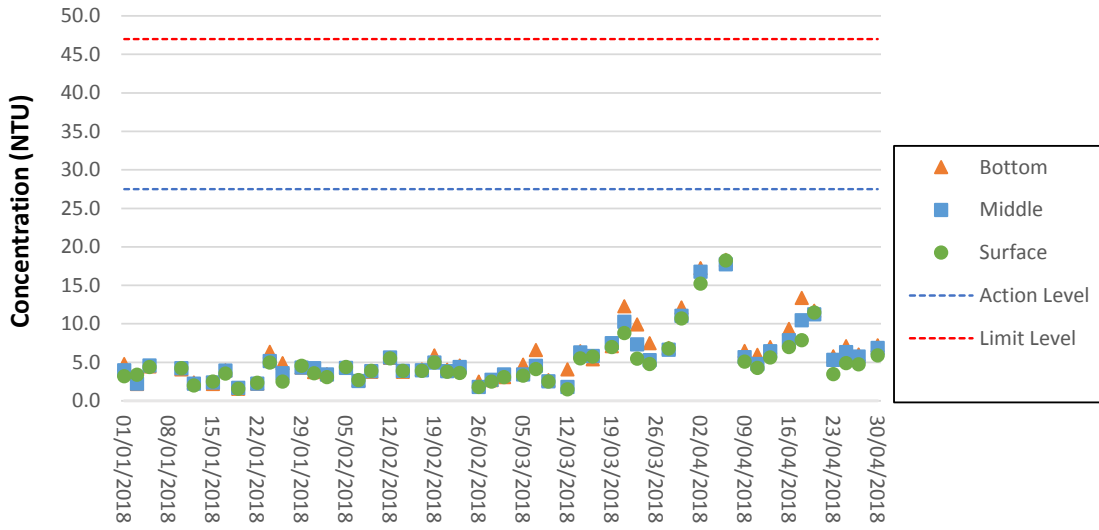
SS Concentrations at Station CS(Mf)5 (Mid Ebb)



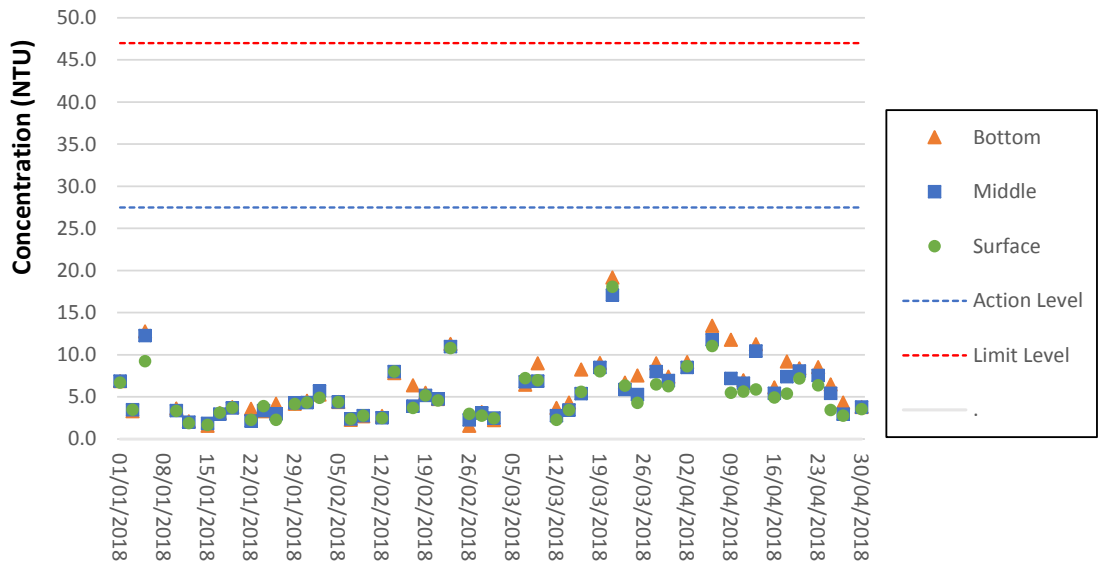
SS Concentrations at Station CS(Mf)5 (Mid Flood)

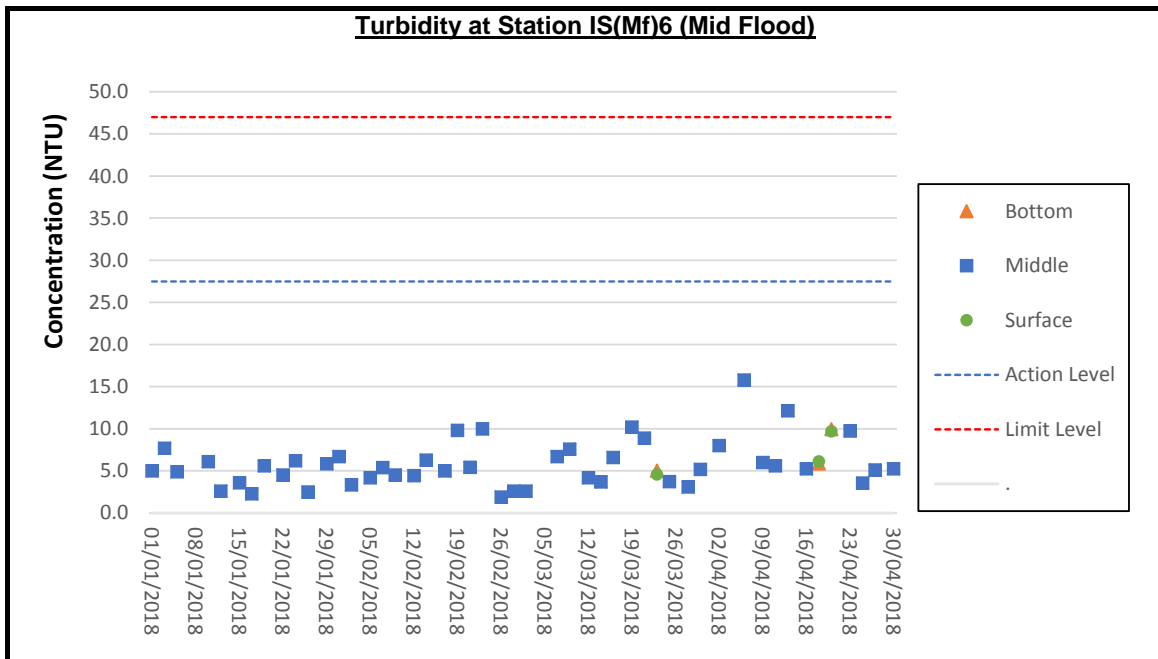
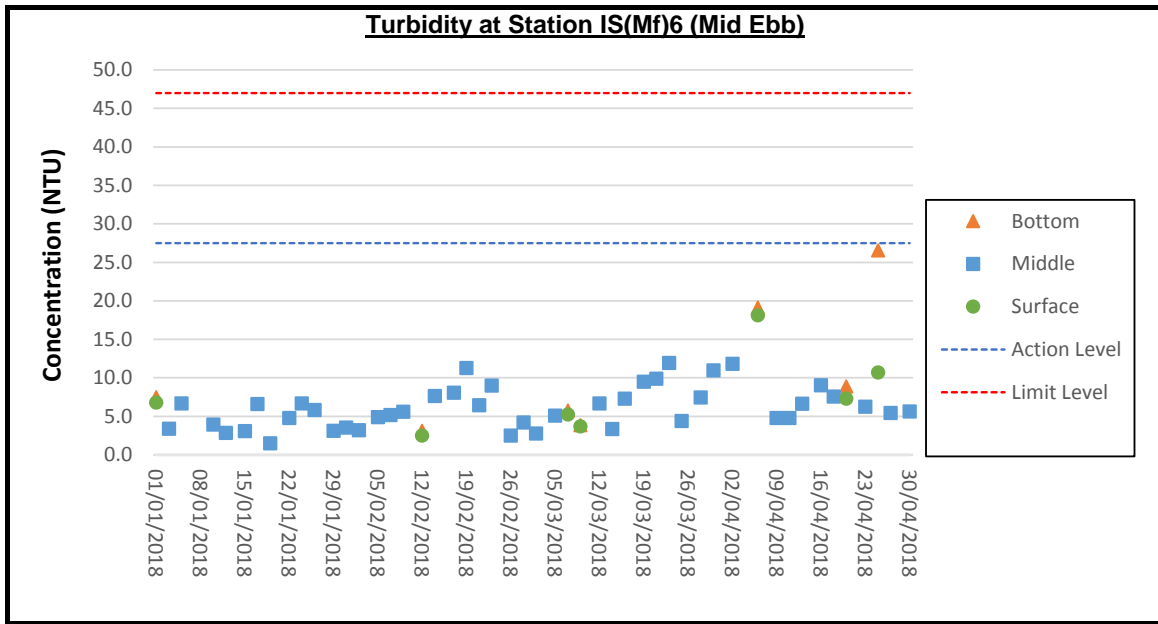


Turbidity at Station IS5 (Mid Ebb)

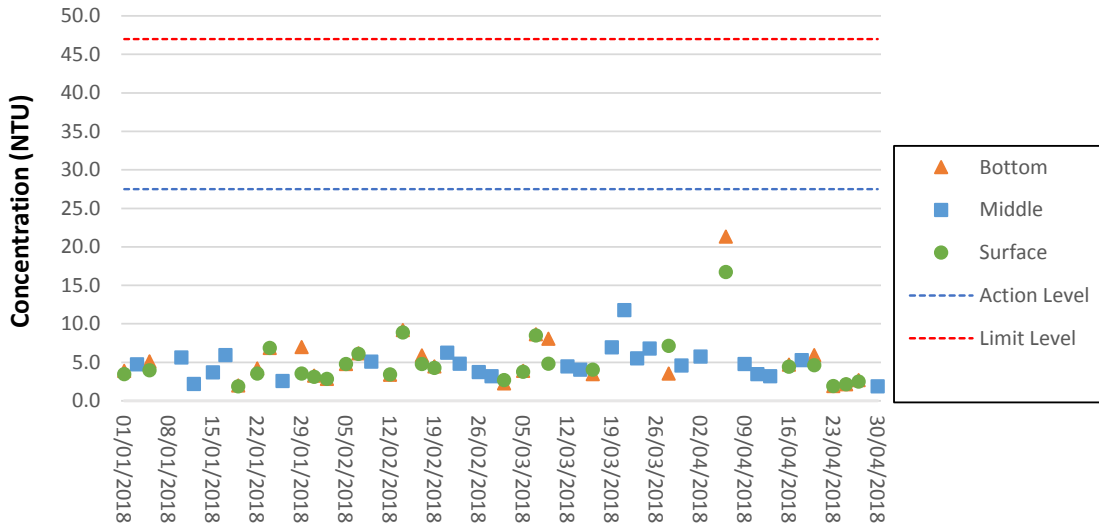


Turbidity at Station IS5 (Mid Flood)

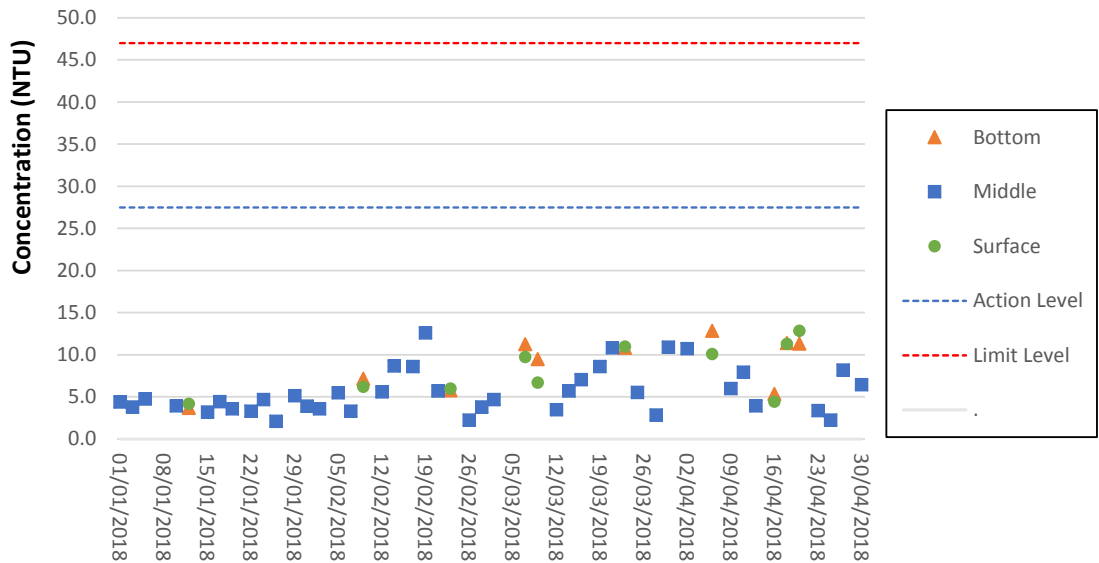


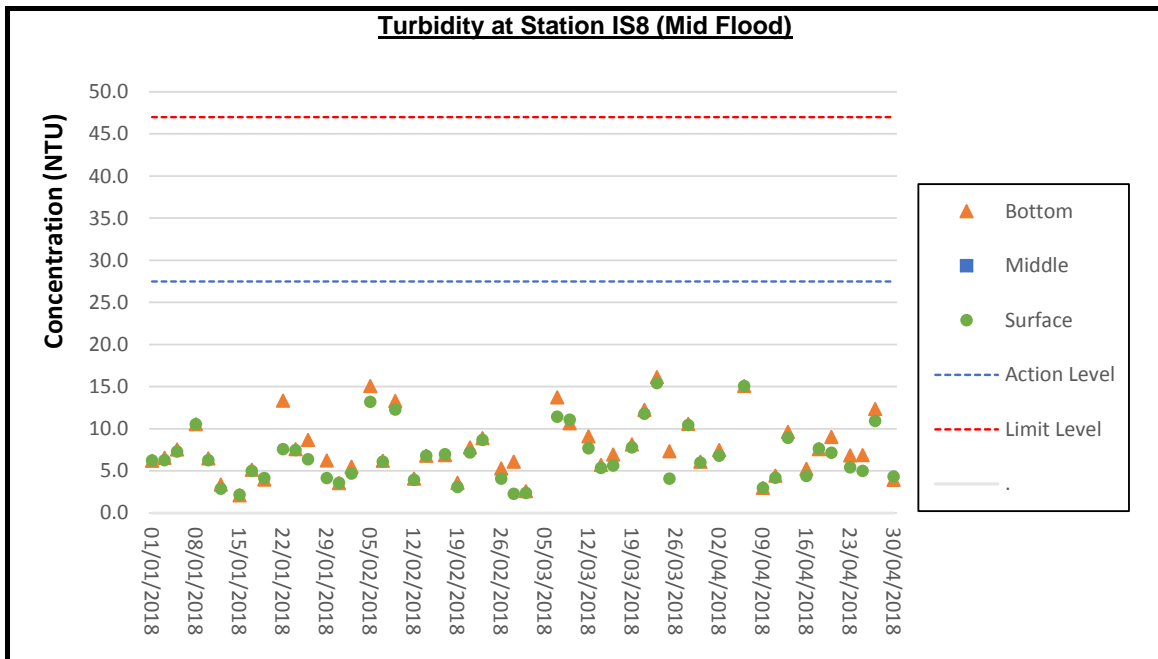
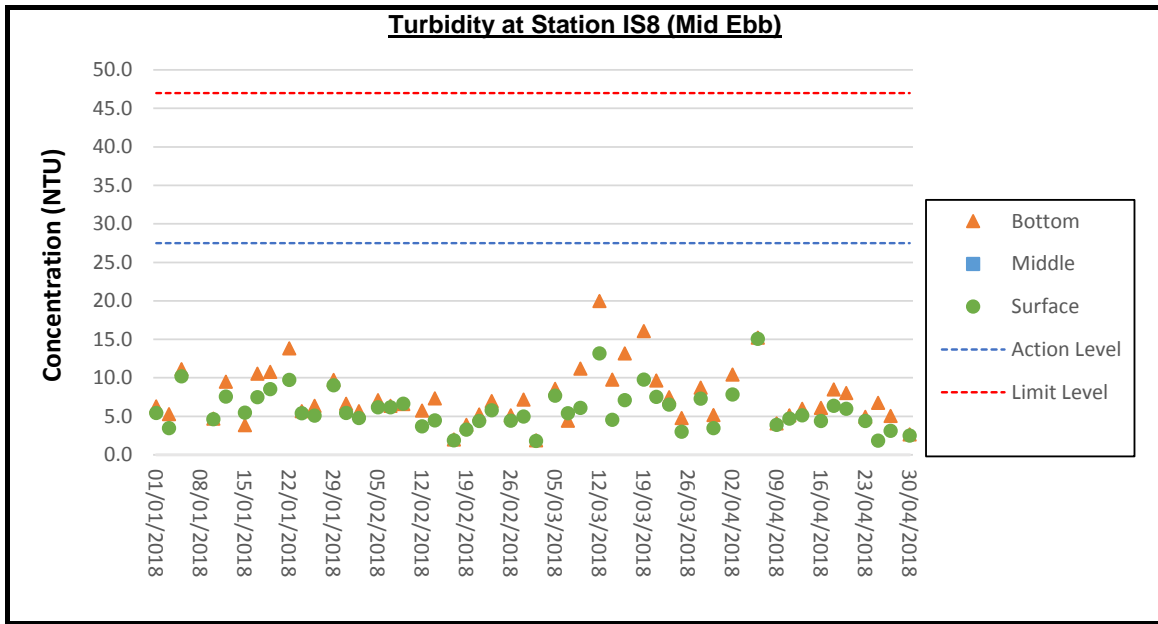


Turbidity at Station IS7 (Mid Ebb)

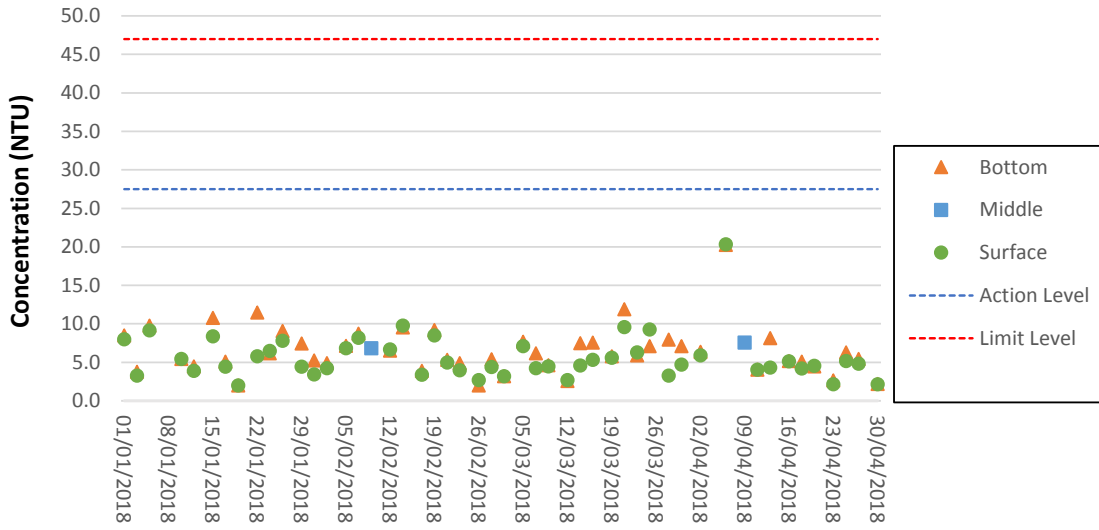


Turbidity at Station IS7 (Mid Flood)

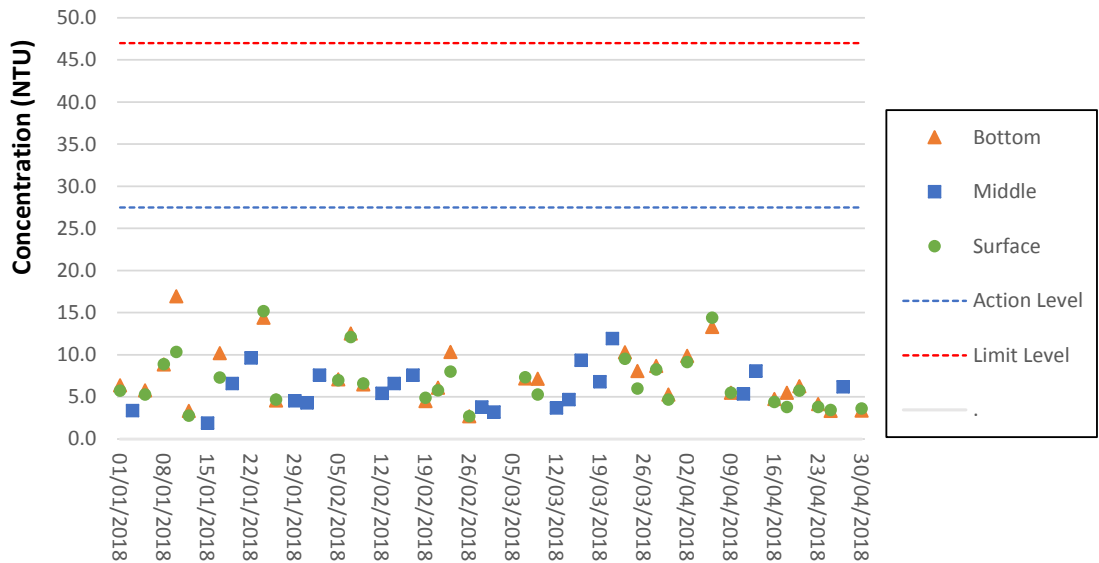


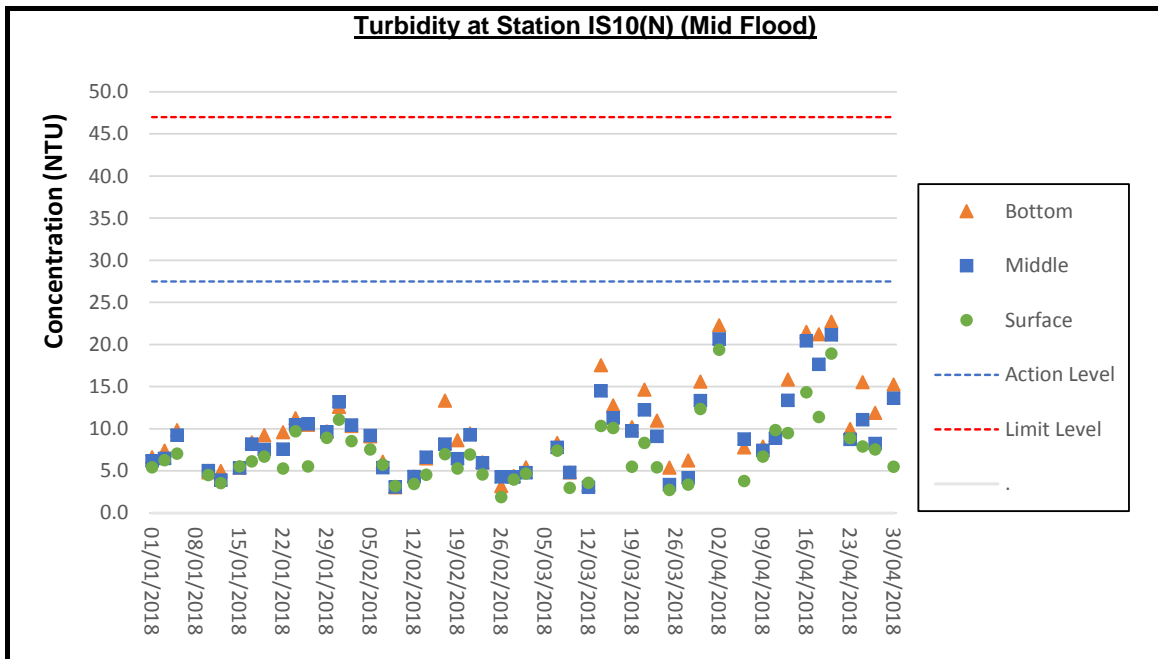
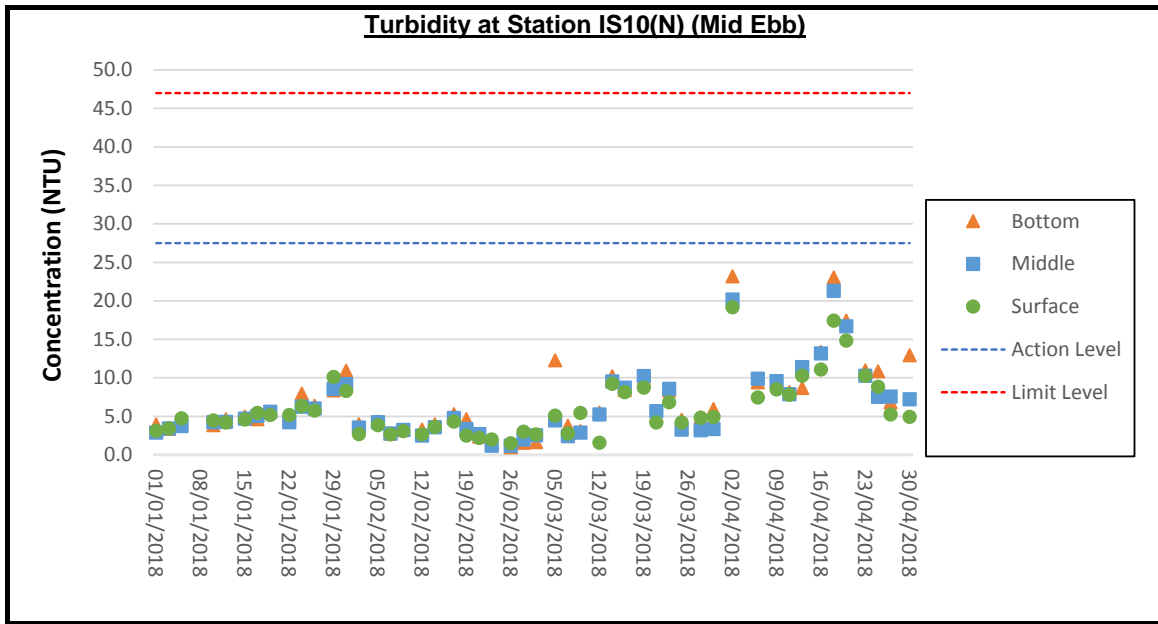


Turbidity at Station IS(Mf)9 (Mid Ebb)

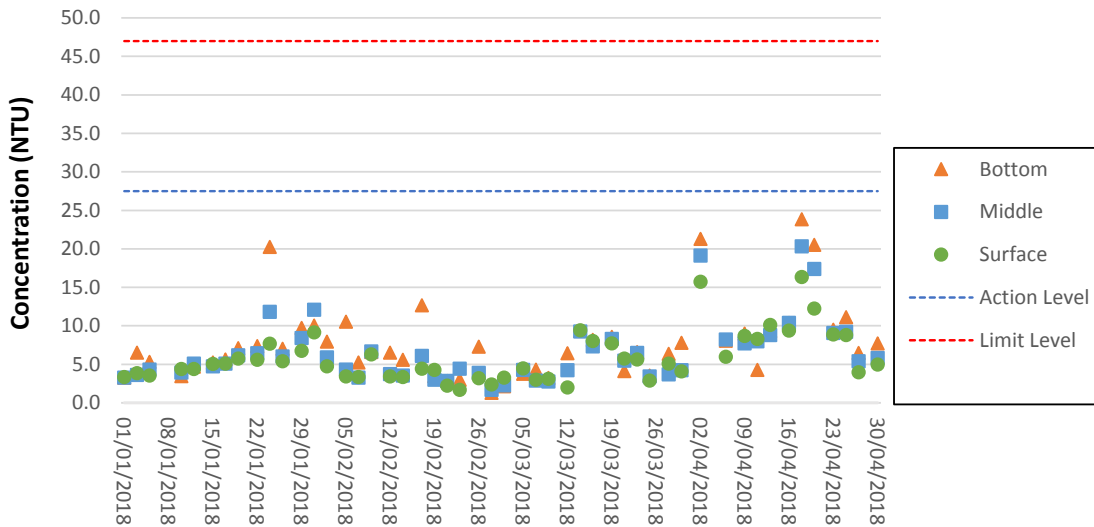


Turbidity at Station IS(Mf)9 (Mid Flood)

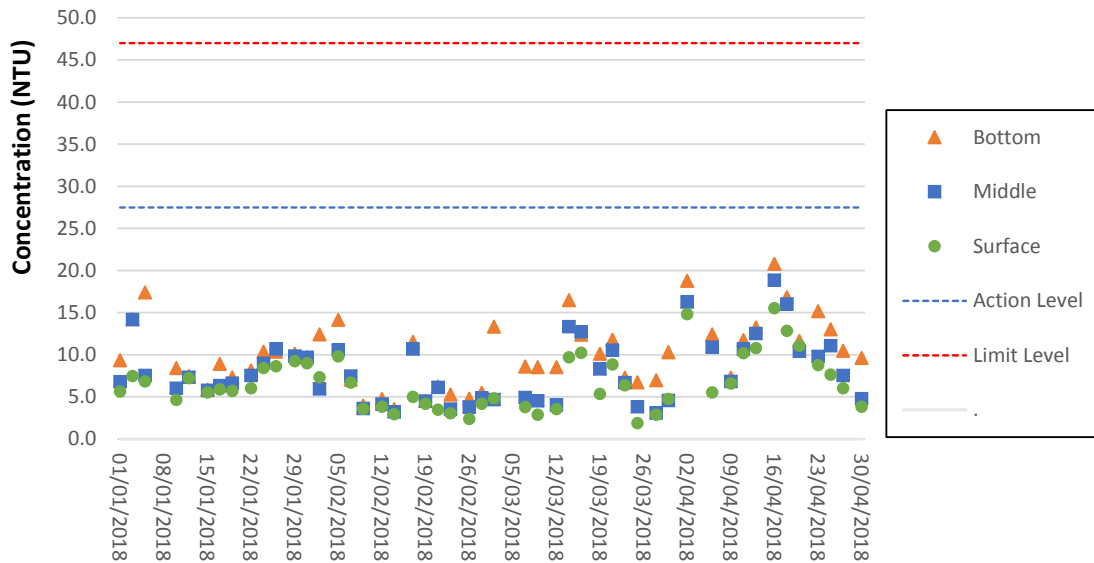


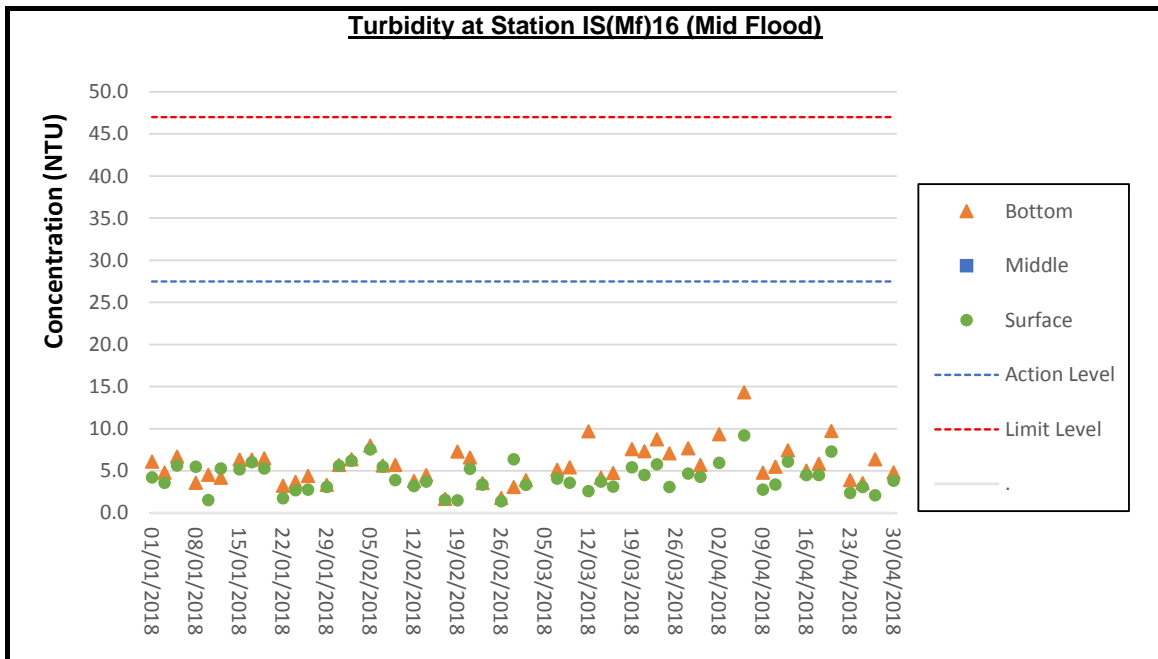
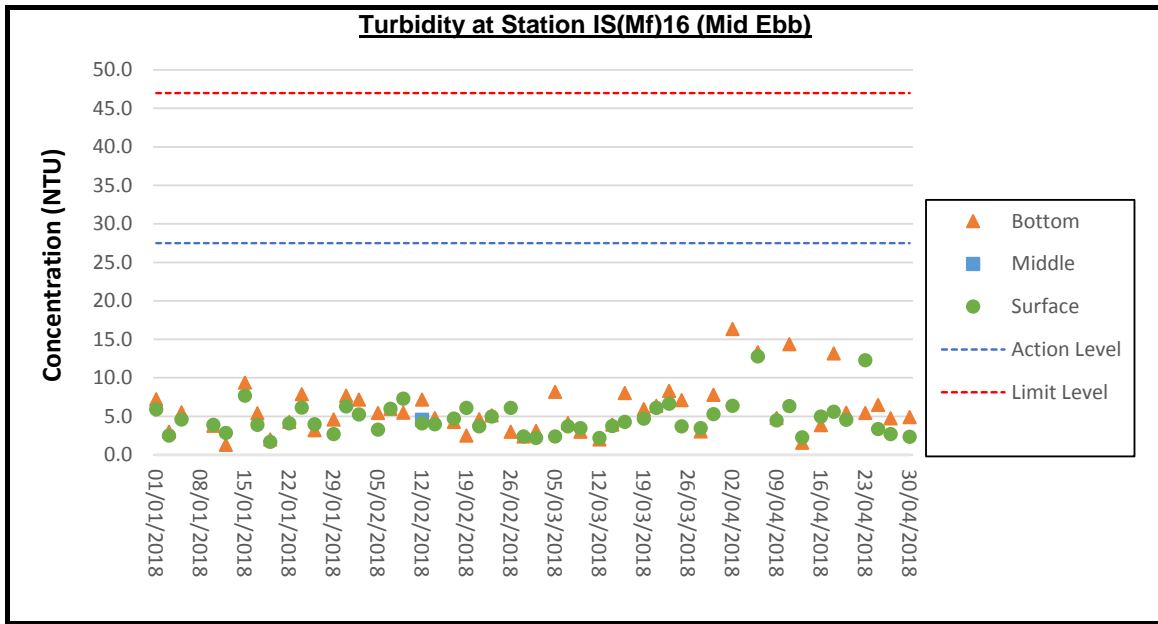


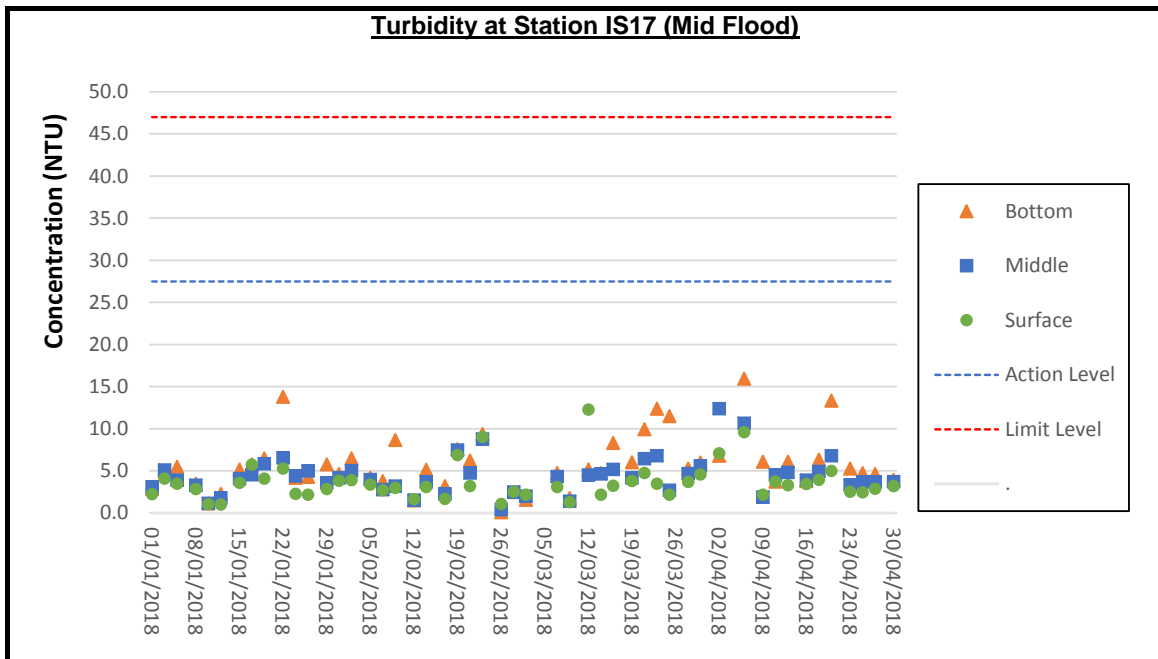
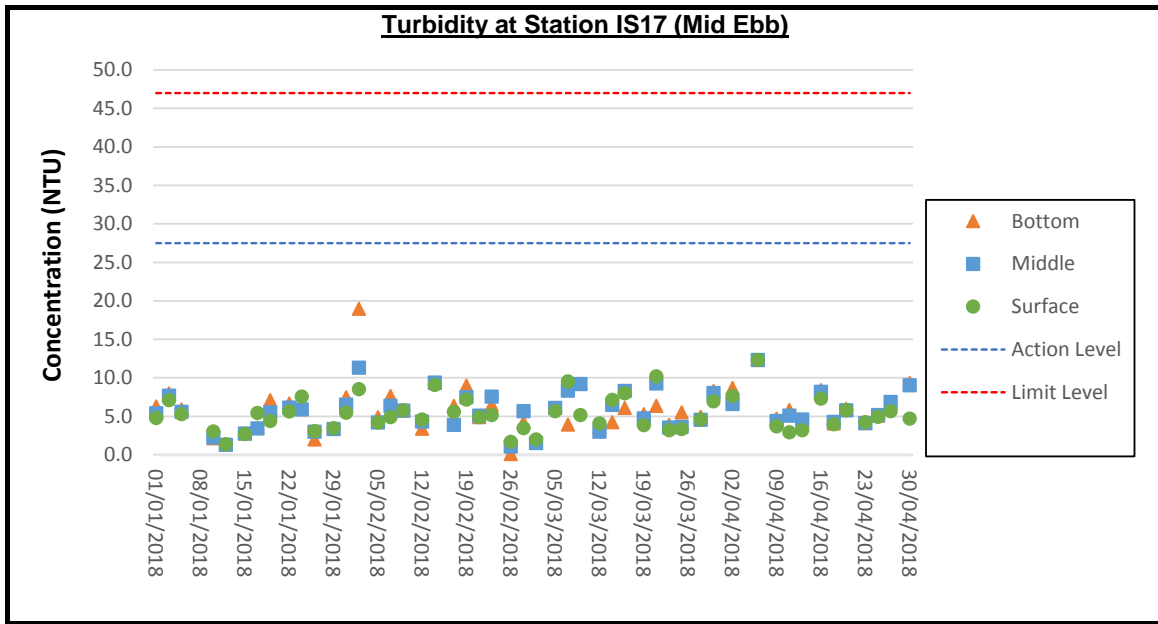
Turbidity at Station IS(Mf)11 (Mid Ebb)



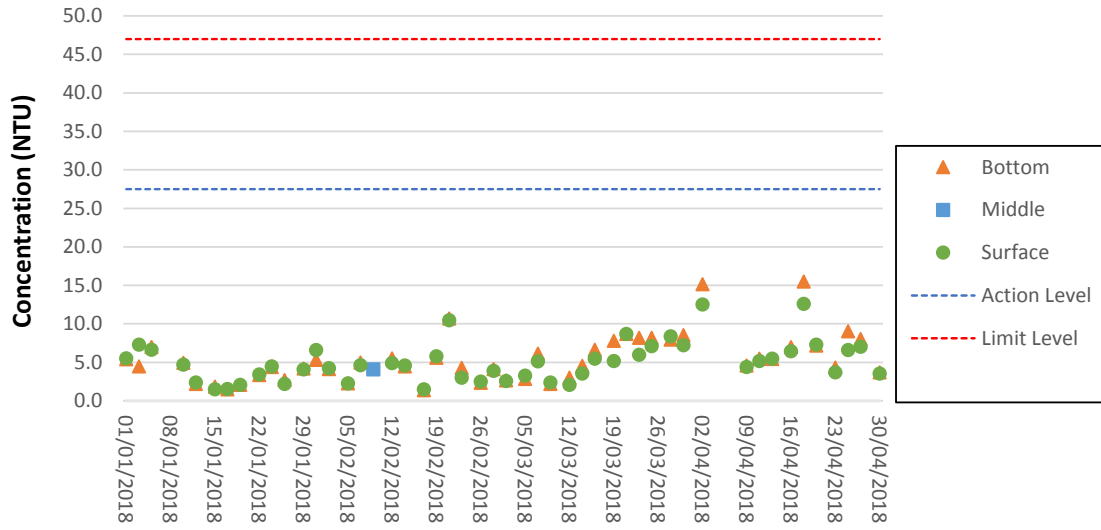
Turbidity at Station IS(Mf)11 (Mid Flood)



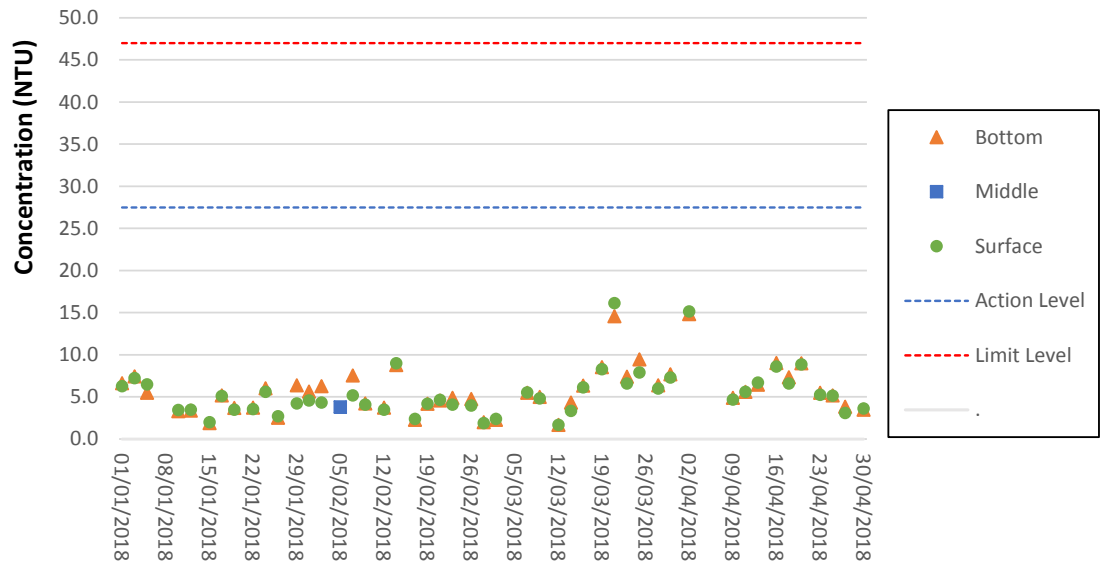


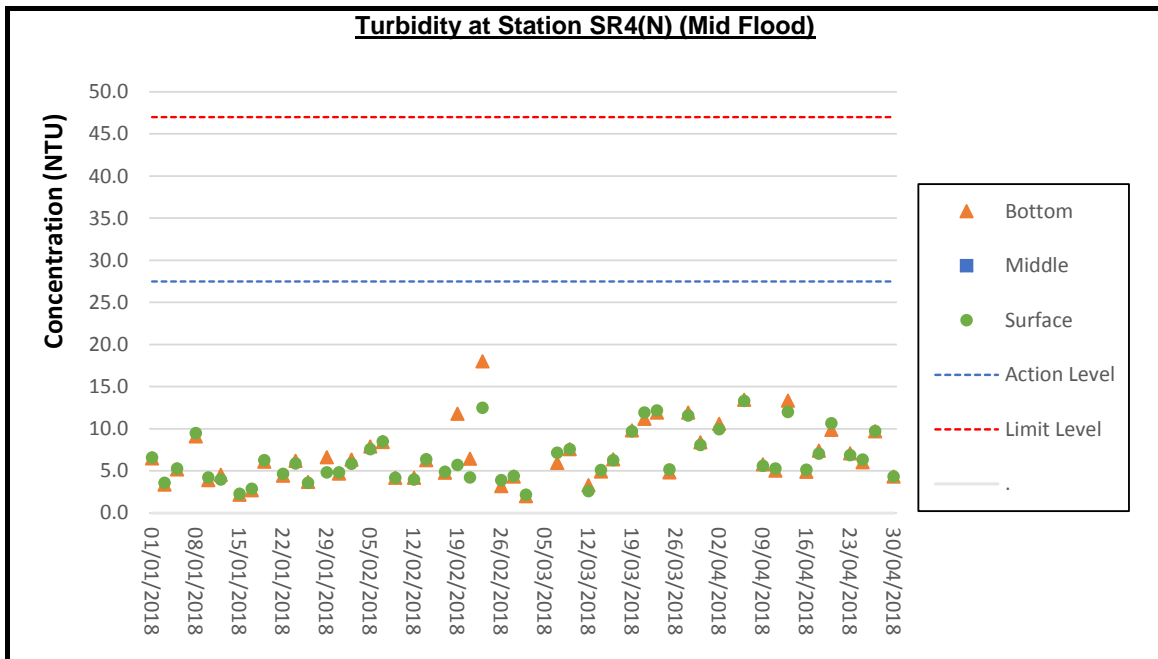
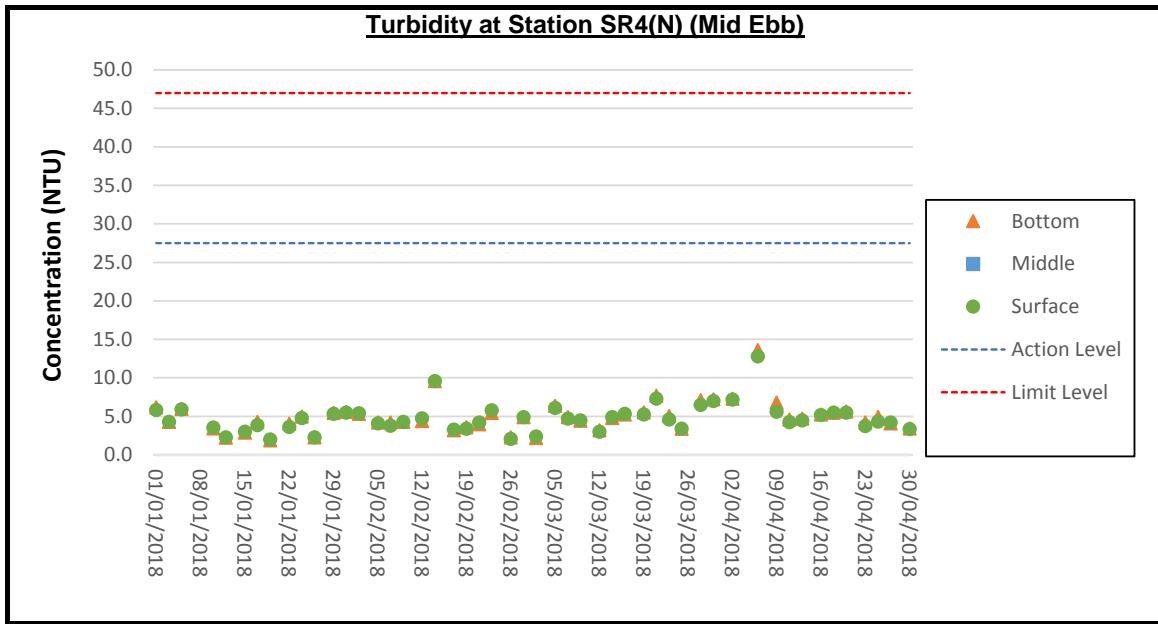


Turbidity at Station SR3(N) (Mid Ebb)

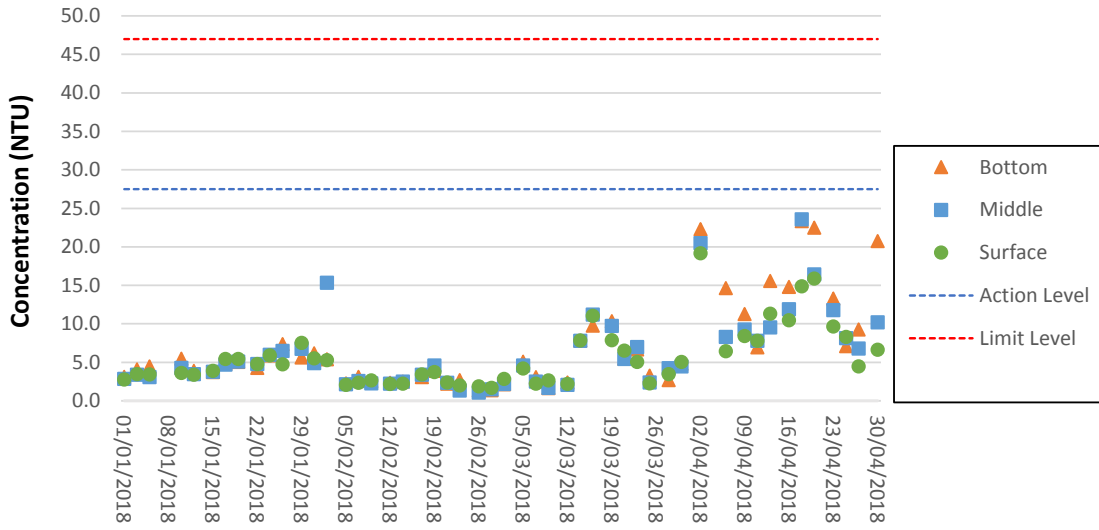


Turbidity at Station SR3(N) (Mid Flood)

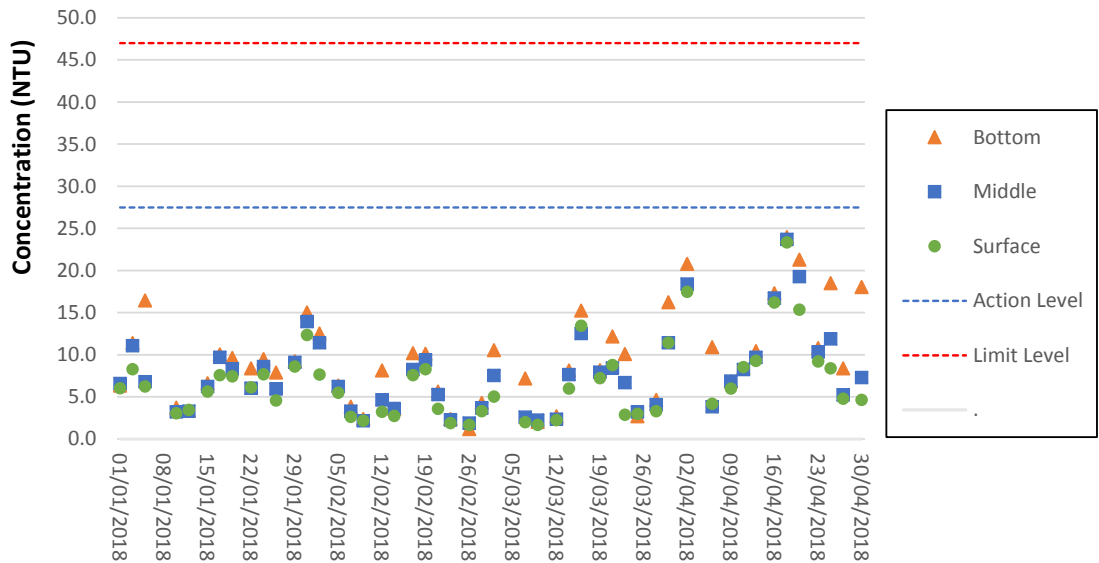


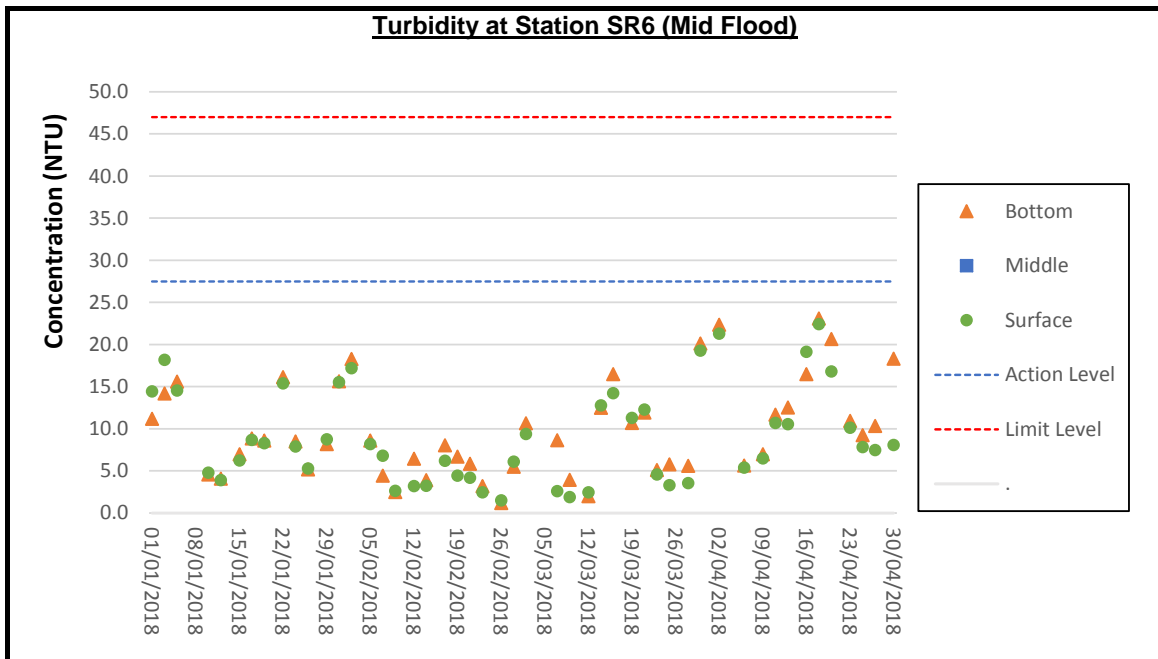
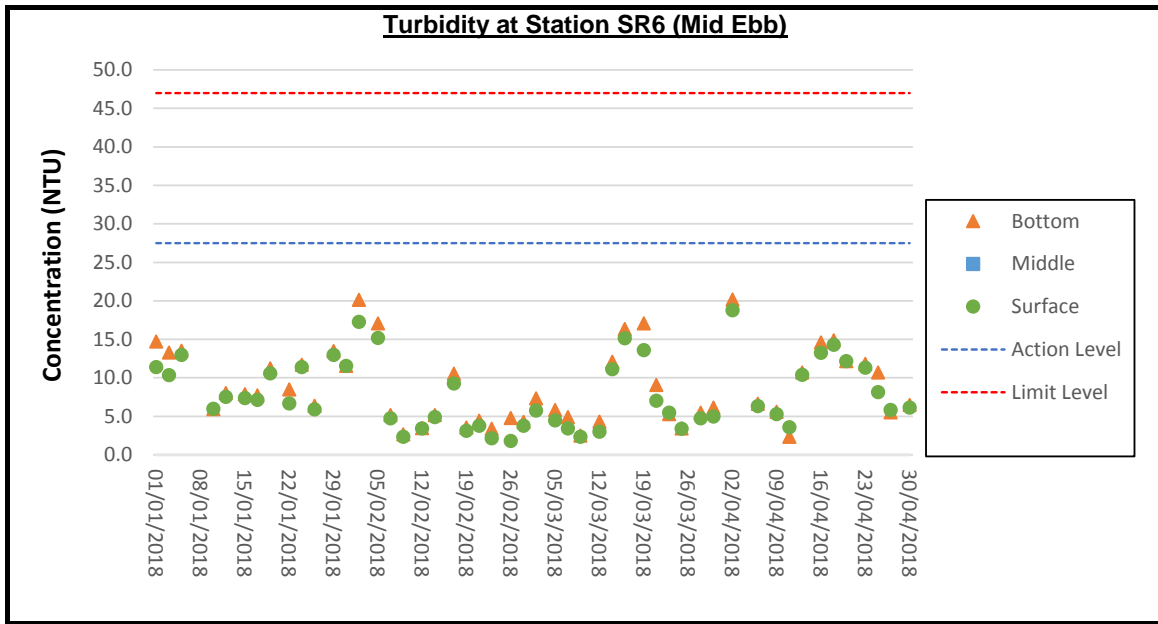


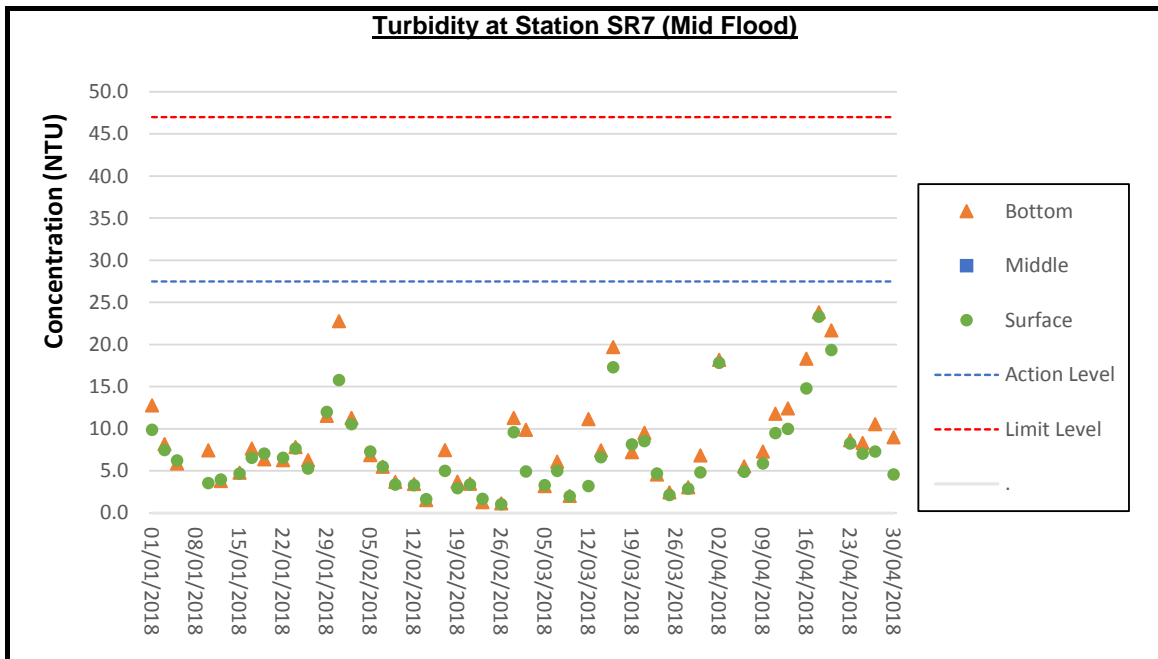
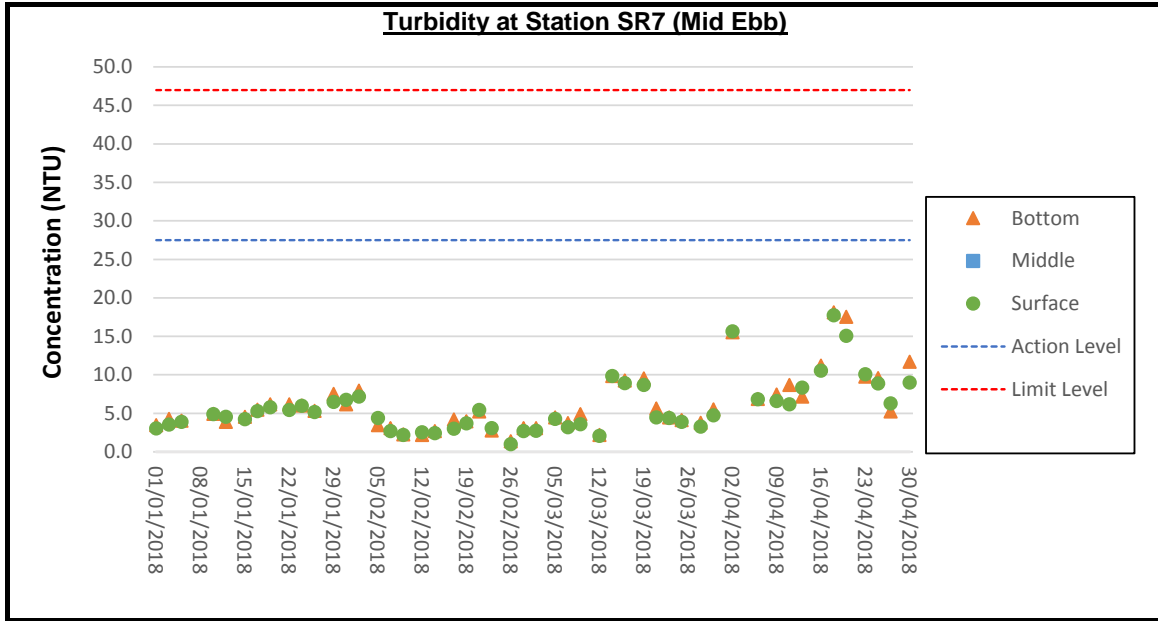
Turbidity at Station SR5(N) (Mid Ebb)

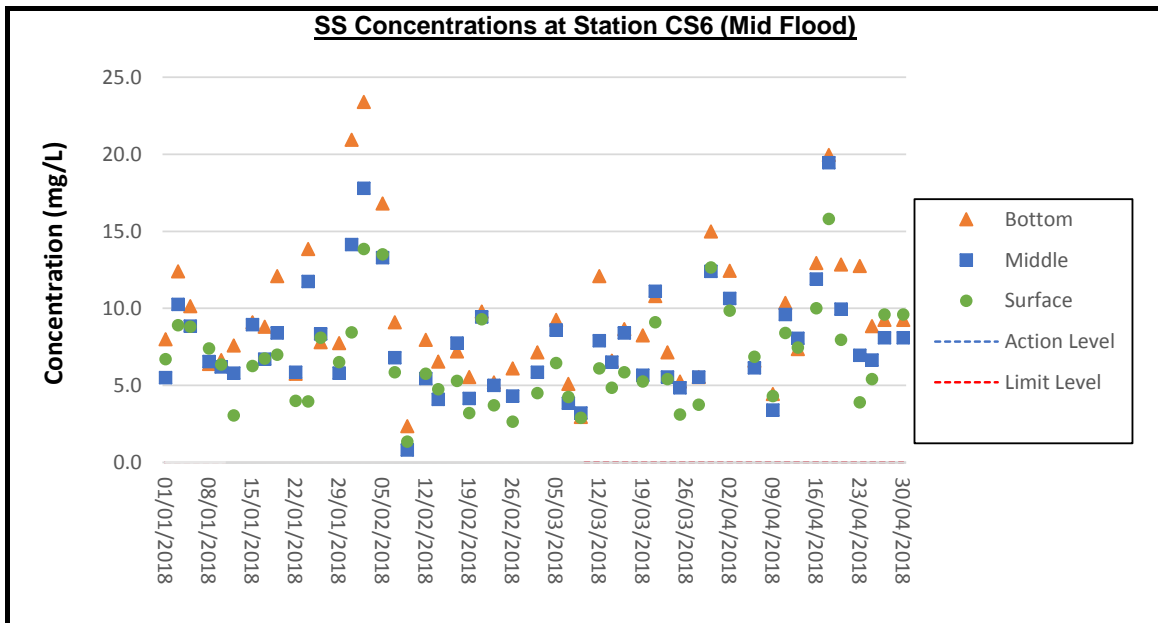
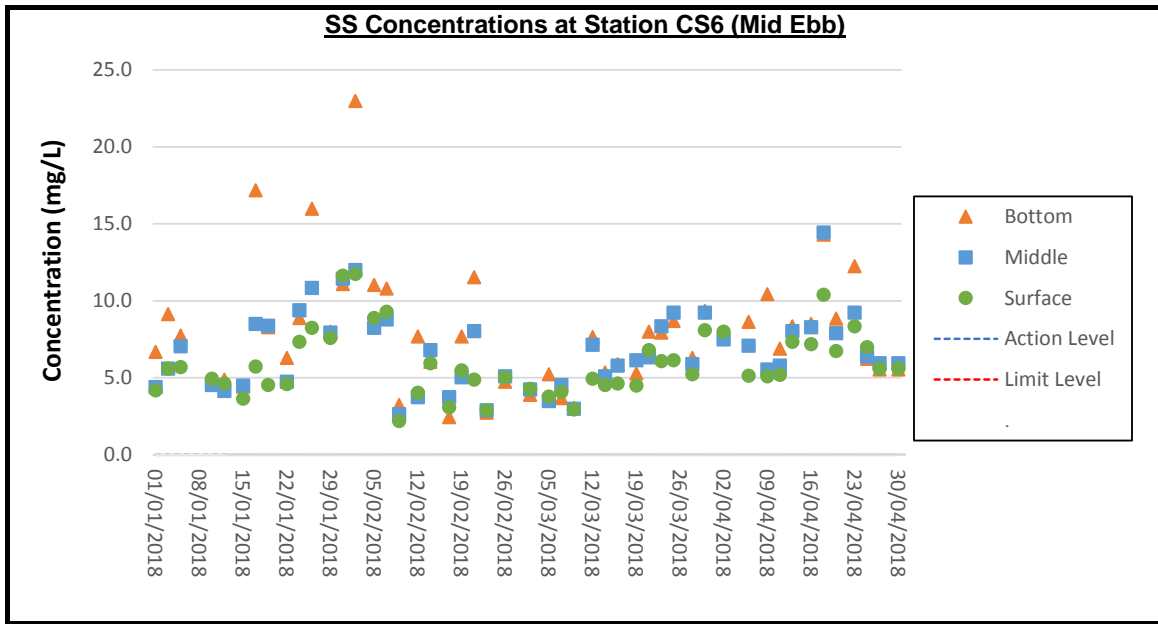


Turbidity at Station SR5(N) (Mid Flood)

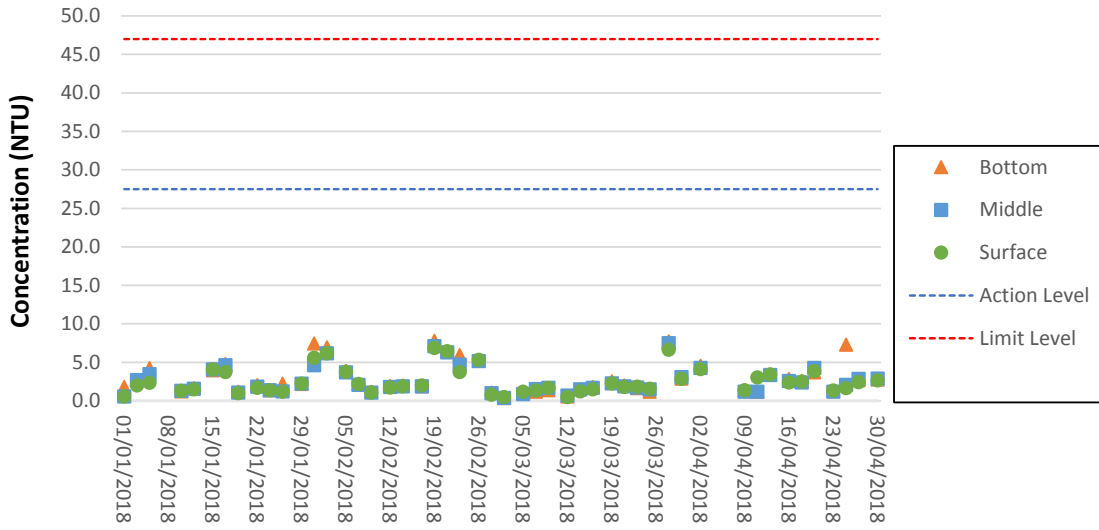




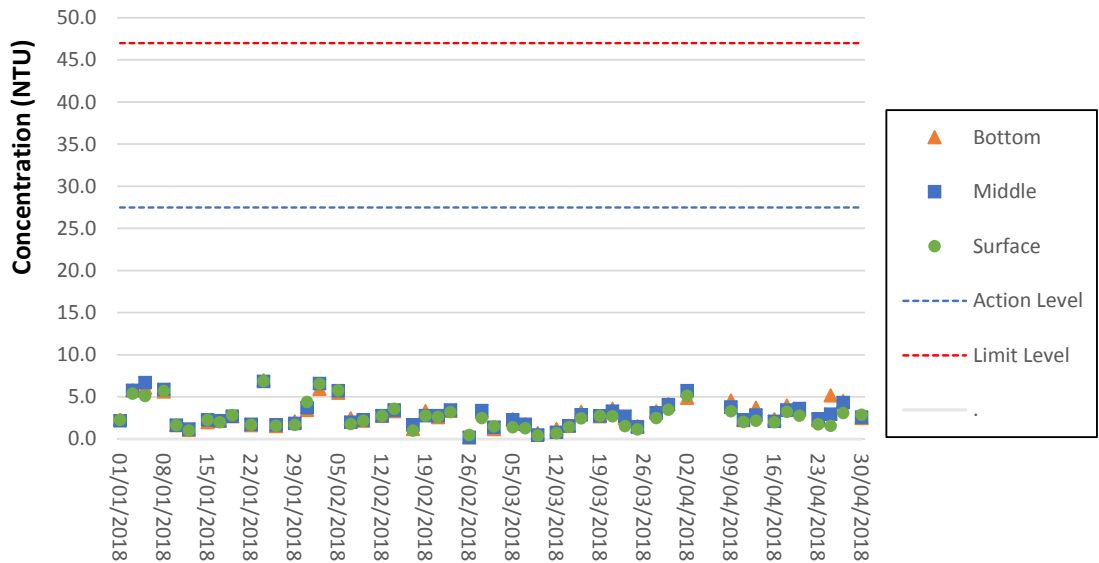




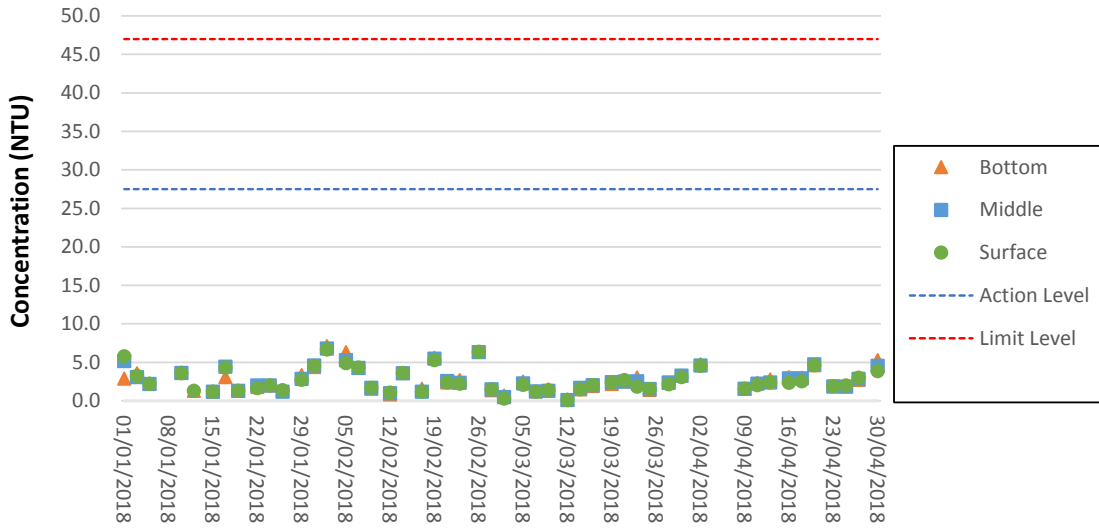
Turbidity at Station SR10A(N) (Mid Ebb)



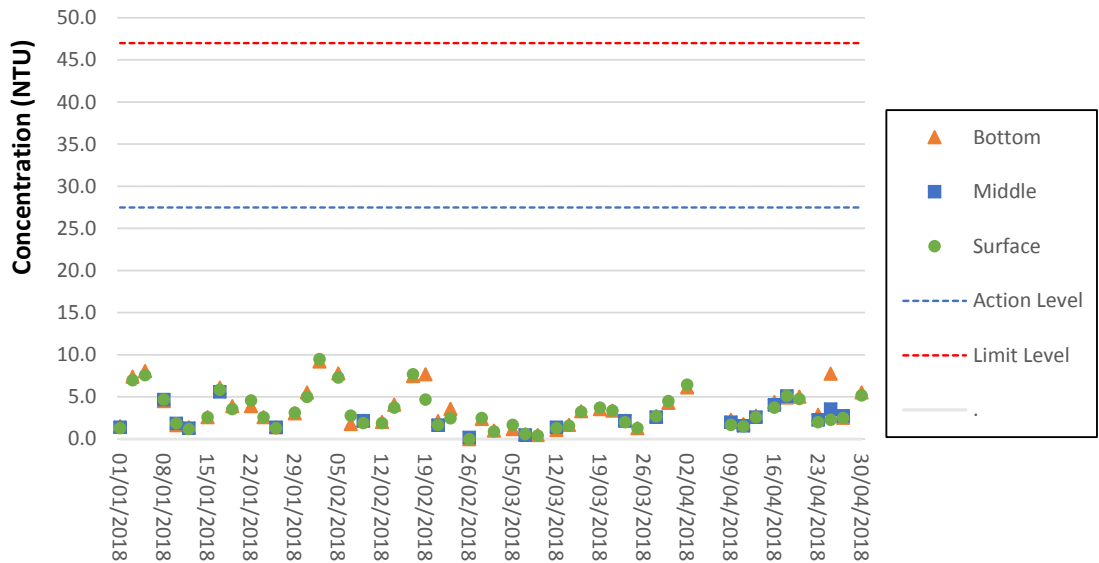
Turbidity at Station SR10A(N) (Mid Flood)



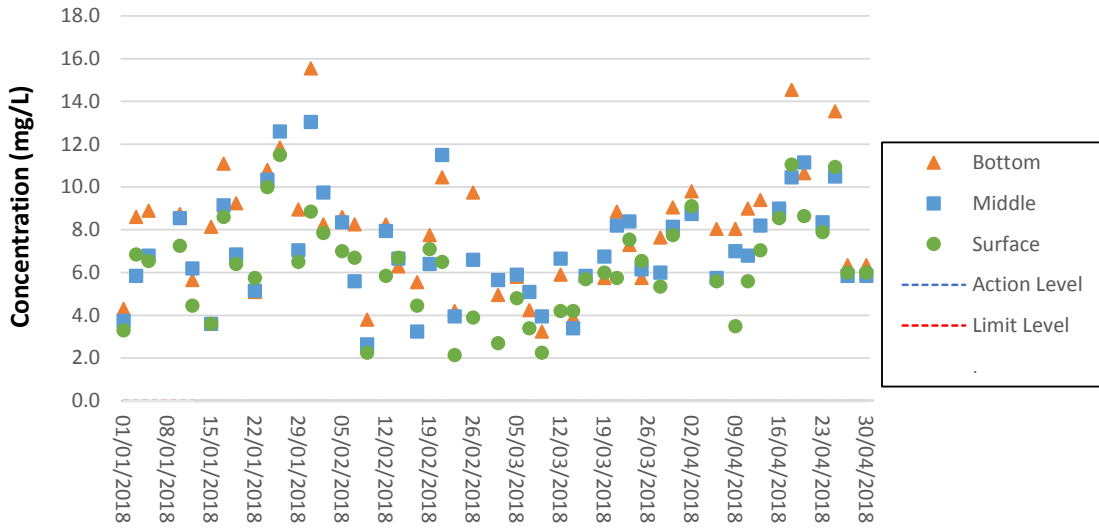
Turbidity at Station SR10B(N2) (Mid Ebb)



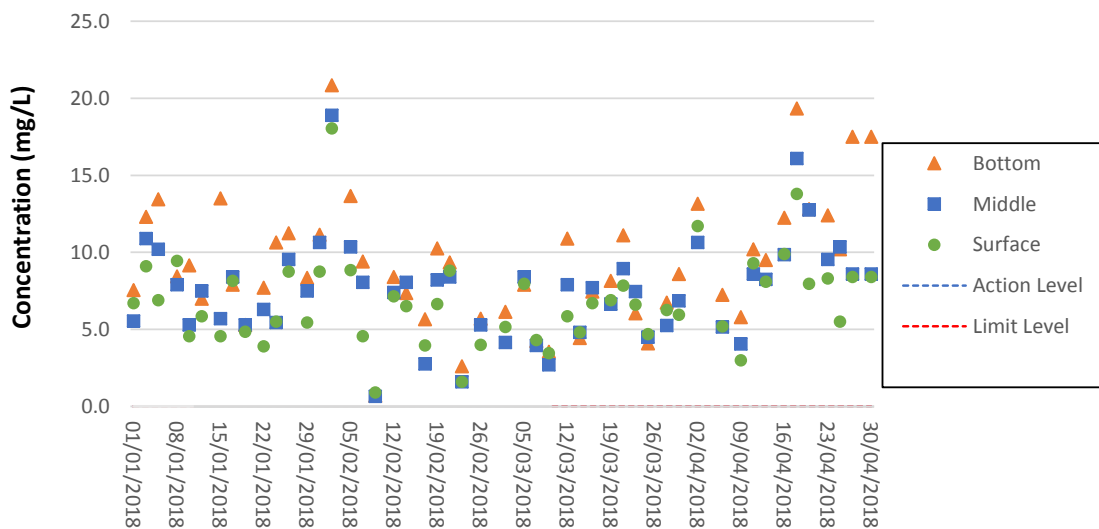
Turbidity at Station SR10B(N2) (Mid Flood)

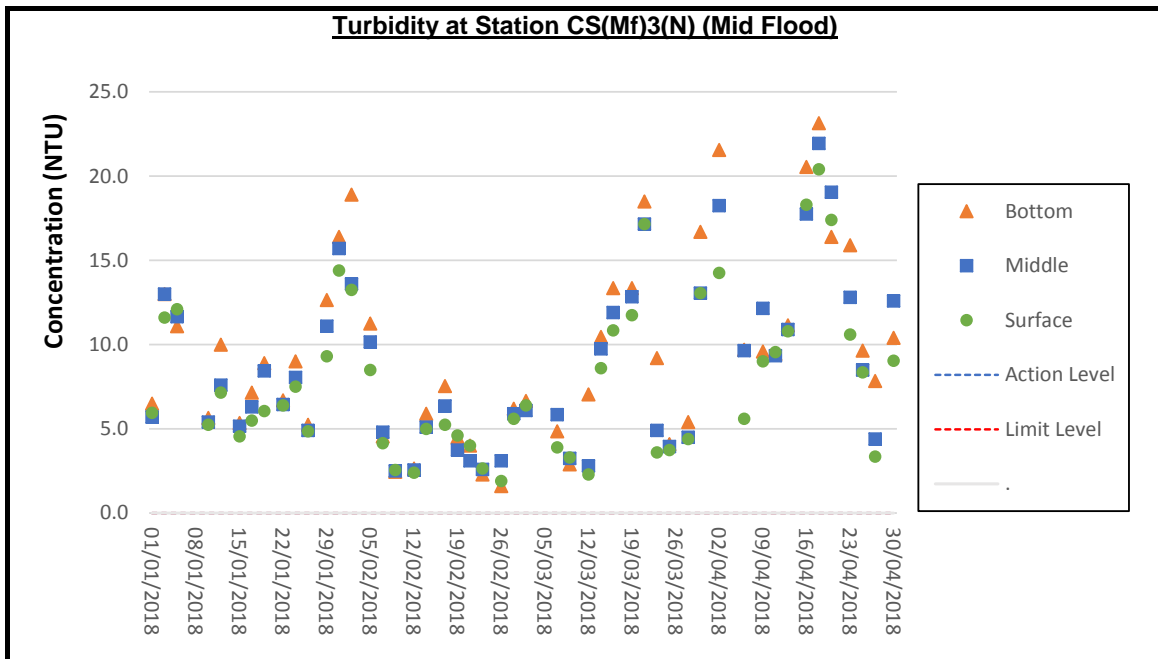
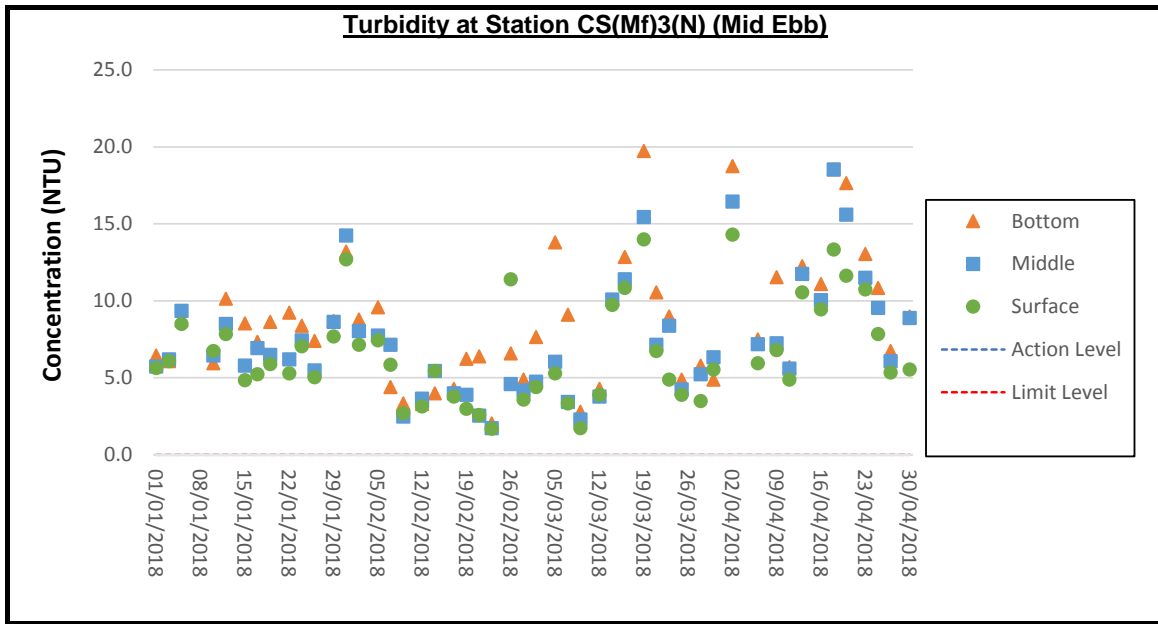


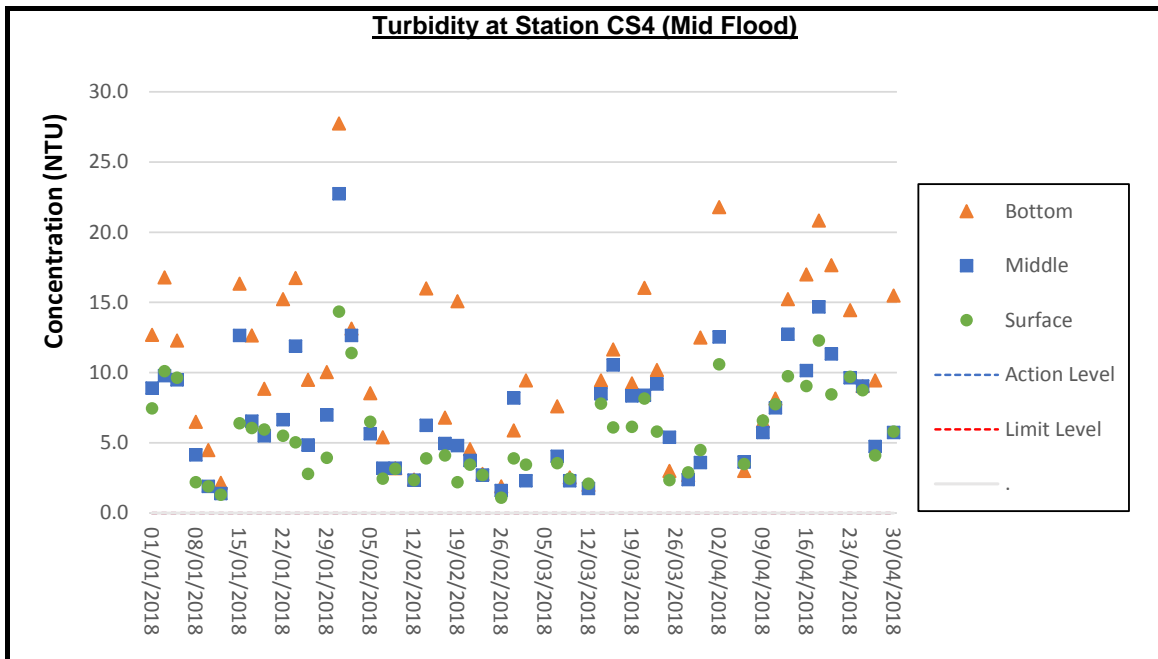
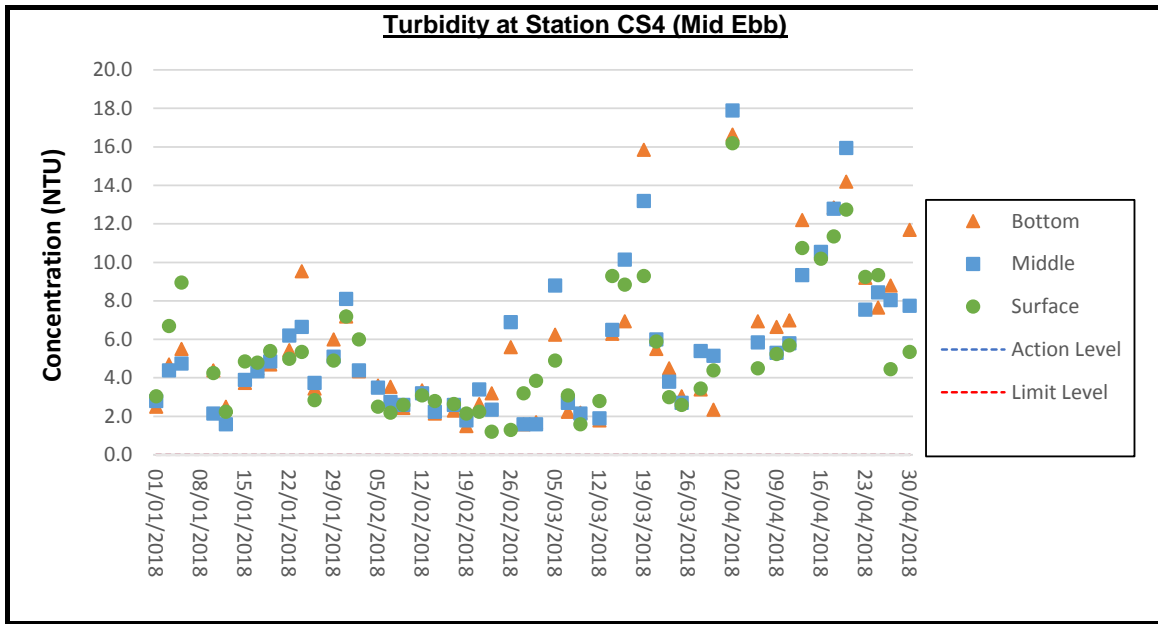
SS Concentrations at Station CSA (Mid Ebb)



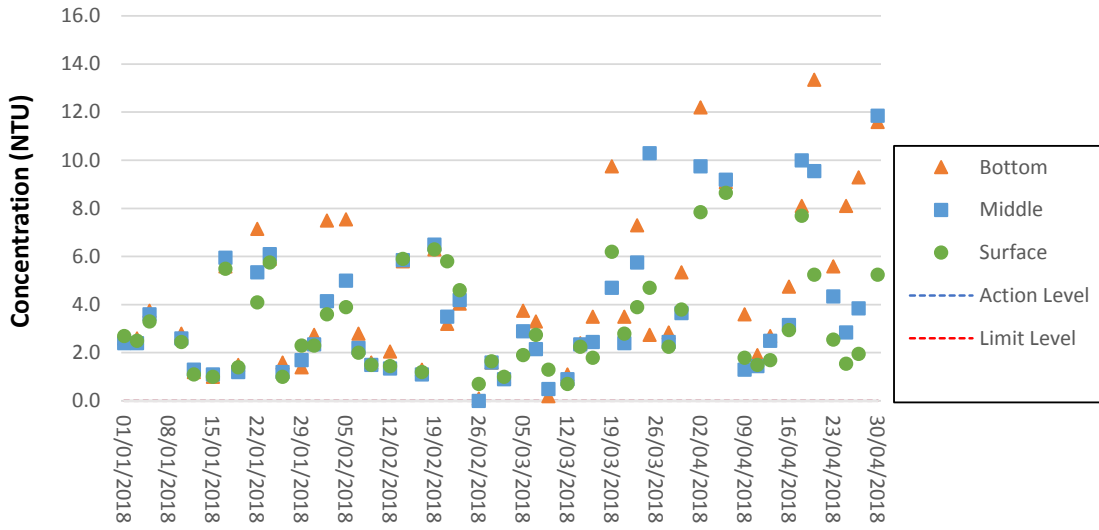
SS Concentrations at Station CSA (Mid Flood)



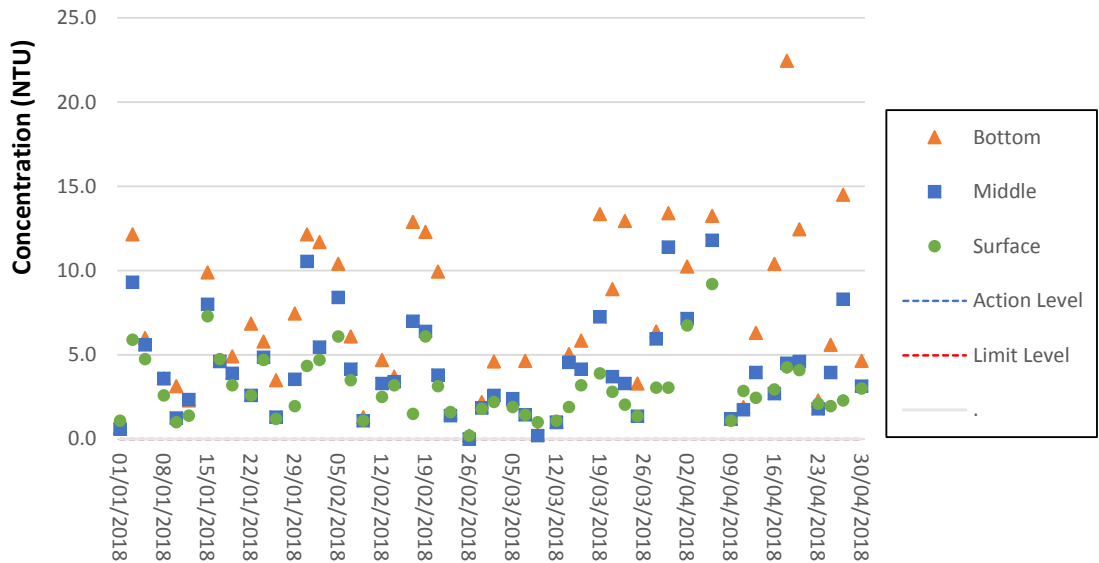


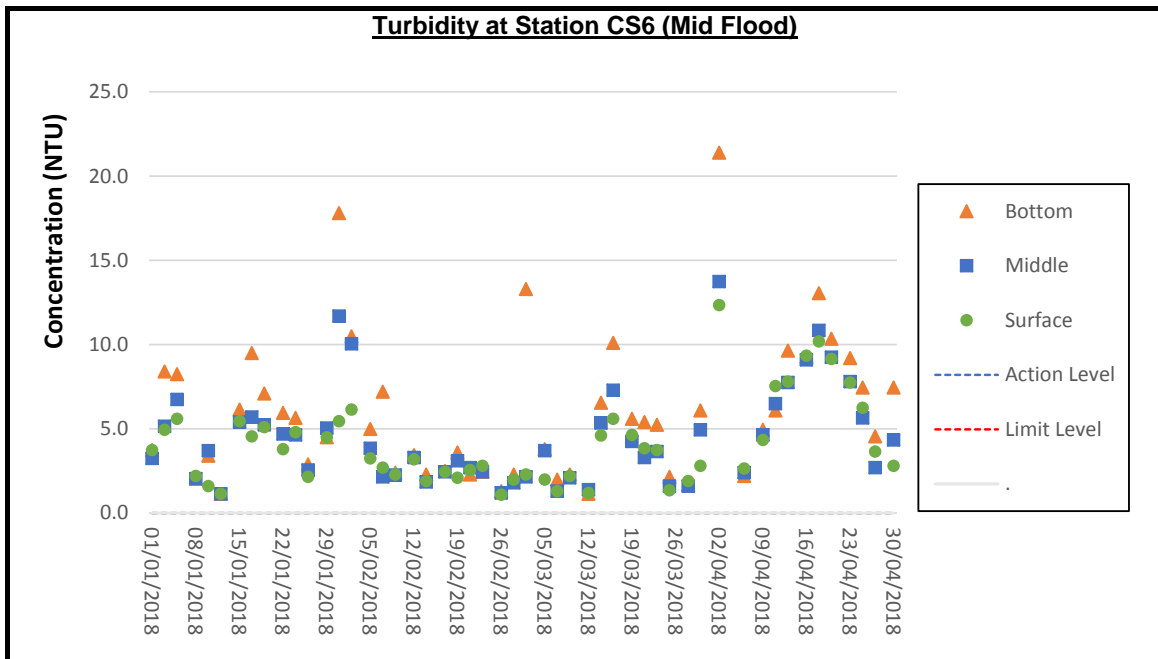
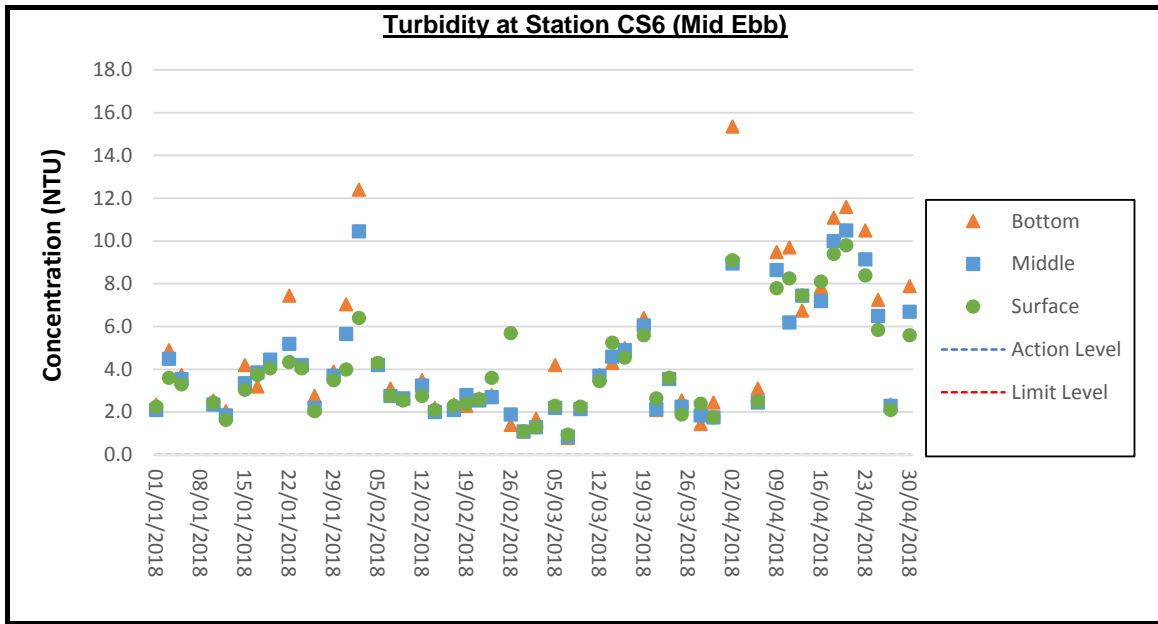


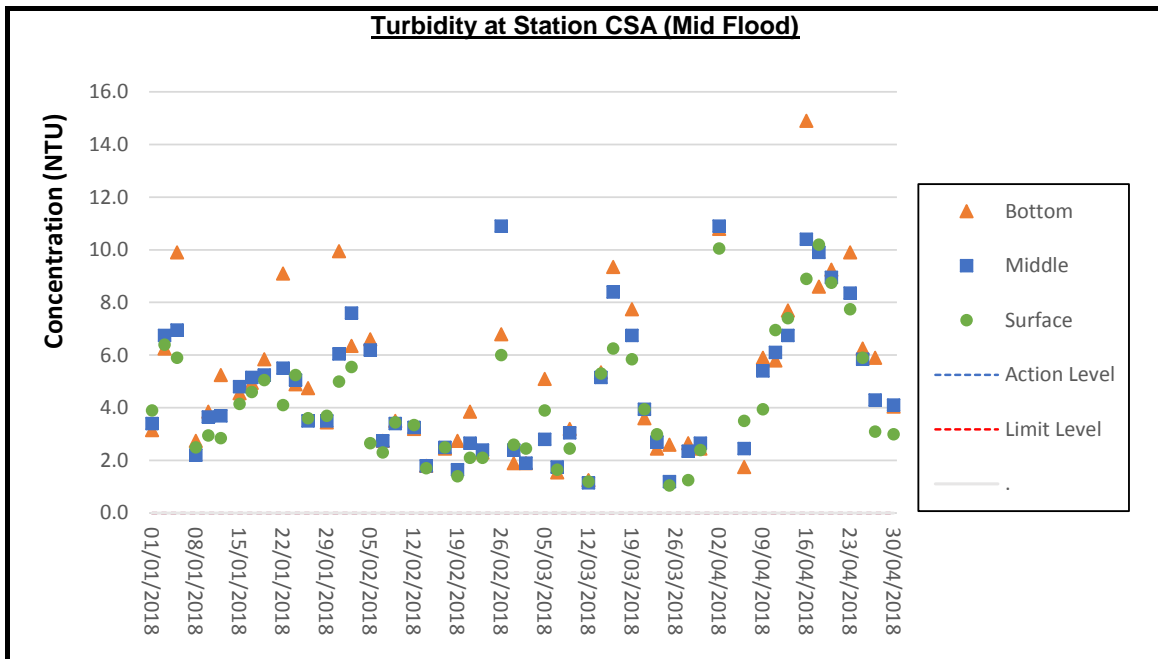
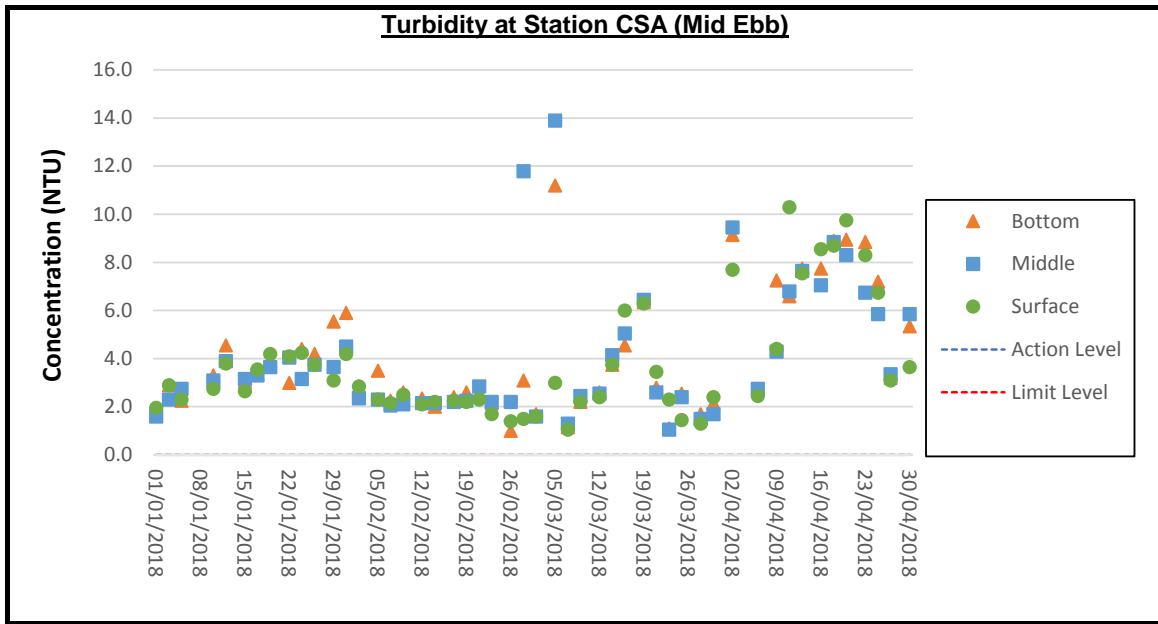
Turbidity at Station CS(Mf)5 (Mid Ebb)



Turbidity at Station CS(Mf)5 (Mid Flood)









路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX E

Dolphin Monitoring Result

CONTRACT NO. HY/2013/01

**Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing
Facilities – Passenger Clearance Building
Dolphin Monthly Monitoring**

*9th Monthly Progress Report (April 2018)
submitted to Leighton – Chun Wo Joint Venture*

Submitted by
Samuel K.Y. Hung, Ph.D., Hong Kong Cetacean Research Project

7 May 2018

1. Introduction

- 1.1. For the Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Boundary Crossing Facilities (HKBCF), the construction of the Passenger Clearance Building (PCB) requires the contractor (i.e. Leighton – Chun Wo Joint Venture) and the associated environmental team to conduct monthly line-transect vessel surveys for the Chinese White Dolphin to cover the Northwest (NWL) and Northeast Lantau (NEL) survey areas under the Environmental Monitoring and Audit (EM&A) programme.
- 1.2. In August 2017, Hong Kong Cetacean Research Project (HKCRP) has been commissioned by the contractor to conduct regular dolphin monitoring study in order to collect data on Chinese White Dolphins during the construction phase (i.e. impact period) of the HKBCF-PCB project, and to analyze the collected survey data to monitor distribution, encounter rate, activities and occurrence of dolphin calves. Photo-identification will also be collected from individual Chinese White Dolphins to examine their individual ranging patterns.
- 1.3. From the monitoring results, any changes in dolphin occurrence within the study area will be examined for possible causes, and appropriate actions and additional mitigation measures will be recommended as necessary.
- 1.4. This report is the ninth monthly progress report under the HKBCF construction phase dolphin monitoring programme submitted to the HKBCF-PCB contractor, summarizing

the results of the survey findings during the month of April 2018.

2. Monitoring Methodology

2.1. Vessel-based Line-transect Survey

2.1.1. According to the requirement of the updated EM&A manual, dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (see Figure 1) twice per month throughout the entire construction period. The co-ordinates of all transect lines are shown in Table 1.

Table 1 Co-ordinates of transect lines

Line No.	Easting	Northing		Line No.	Easting	Northing	
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081

9	End Point	812516	824254		21	End Point	805476	830562
10	Start Point	813525	820827		22	Start Point	806464	824033
10	End Point	813525	824657		22	End Point	806464	829598
11	Start Point	814556	818853		23	Start Point	814559	821739
11	End Point	814556	820992		23	End Point	814559	824768
12	Start Point	815542	818807		24	Start Point	805476	815900
12	End Point	815542	824882		24	End Point	805476	819100

- 2.1.2. The survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 20 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2017). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.
- 2.1.3. Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fuison* marine binoculars.
- 2.1.4. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.
- 2.1.5. During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).
- 2.1.6. Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 2.1.7. When dolphins were sighted, the survey team would end the survey effort, and

immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.

- 2.1.8. Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in Figure 1) was labeled as “primary” survey effort, while the survey effort conducted along the connecting lines between parallel lines was labeled as “secondary” survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected along primary and secondary lines were similar in NEL and NWL survey areas. Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.
- 2.1.9. Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using primary survey effort alone, as well as the combined survey effort from both primary and secondary lines.

2.2. Photo-identification Work

- 2.2.1. When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.
- 2.2.2. A professional digital camera (*Canon EOS 7D* model), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.
- 2.2.3. All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in

greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.

- 2.2.4. Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).
- 2.2.5. All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database.

3. Monitoring Results

3.1. Vessel-based Line-transect Survey

- 3.1.1. Two sets of systematic line-transect vessel surveys were conducted under the HKBCF dolphin monitoring programme on the 11th, 18th, 24th and 26th of April 2018, to cover all transect lines in NWL and NEL survey areas twice. The survey routes of each survey day are presented in Figures 2-5.
- 3.1.2. A total of 268.99 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the April's surveys (Appendix I).
- 3.1.3. Among the two areas, 102.90 km and 166.09 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 190.53 km and 78.46 km respectively (Appendix I).
- 3.1.4. During the two sets of monitoring surveys in April 2018, only three groups of eight Chinese White Dolphins were sighted (Appendix II). All three dolphin sightings were made in NWL, while none was sighted in NEL. Moreover, all three dolphin groups were sighted on primary lines during on-effort search (Appendix II). Notably, none of the sightings was associated with any operating fishing vessel.
- 3.1.5. Distribution of the dolphin sightings made in April 2018 is shown in Figure 6. These dolphin groups were sighted to the north, northeast and southwest of Lung Kwu Chau at the northwestern end of the North Lantau region (Figure 6). Notably, all dolphin groups were sighted very far away from the HKBCF reclamation site, as well as the HKLR03

reclamation site and HKLR09/TMCLKL alignments (Figure 6).

- 3.1.6. During the April's surveys, encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) are shown in Tables 2 & 3.

Table 2. Dolphin encounter rates deduced from the two sets of HKBCF surveys (two surveys in each set) in April 2018 in Northeast (NEL) and Northwest Lantau (NWL)

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: April 11 th / 18 th	0.0	0.0
	Set 2: April 24 th / 26 th	0.0	0.0
NWL	Set 1: April 11 th / 18 th	1.7	5.2
	Set 2: April 24 th / 26 th	3.4	8.6

Table 3. Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four HKBCF surveys conducted in April 2018 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	2.6	1.8	6.9	4.8

- 3.1.7. The average dolphin group size in April 2018 was 2.7 individual per group. All three groups were small in size with 2-3 animals per group (Appendix II).

3.2. Photo-identification Work

- 3.2.1. Six known individual dolphins were re-sighted seven times during the April's surveys (Appendices III and IV). Besides NL123 being re-sighted twice, the rest of them were re-sighted only once during the monitoring month.

- 3.2.2. Notably, one of the identified individuals (NL202) was sighted with her older calf (NL286) during their re-sightings in April 2018 (see Appendix III).

4. Conclusion

- 4.1. During this month of dolphin monitoring, no adverse impact from the construction activities of the HKBCF on Chinese White Dolphins was noticeable from general observations.
- 4.2. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the HKBCF in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

5. References

- Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.
- Hung, S. K. 2017. Monitoring of Marine Mammals in Hong Kong waters: final report (2016-17). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 162 pp.
- Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.

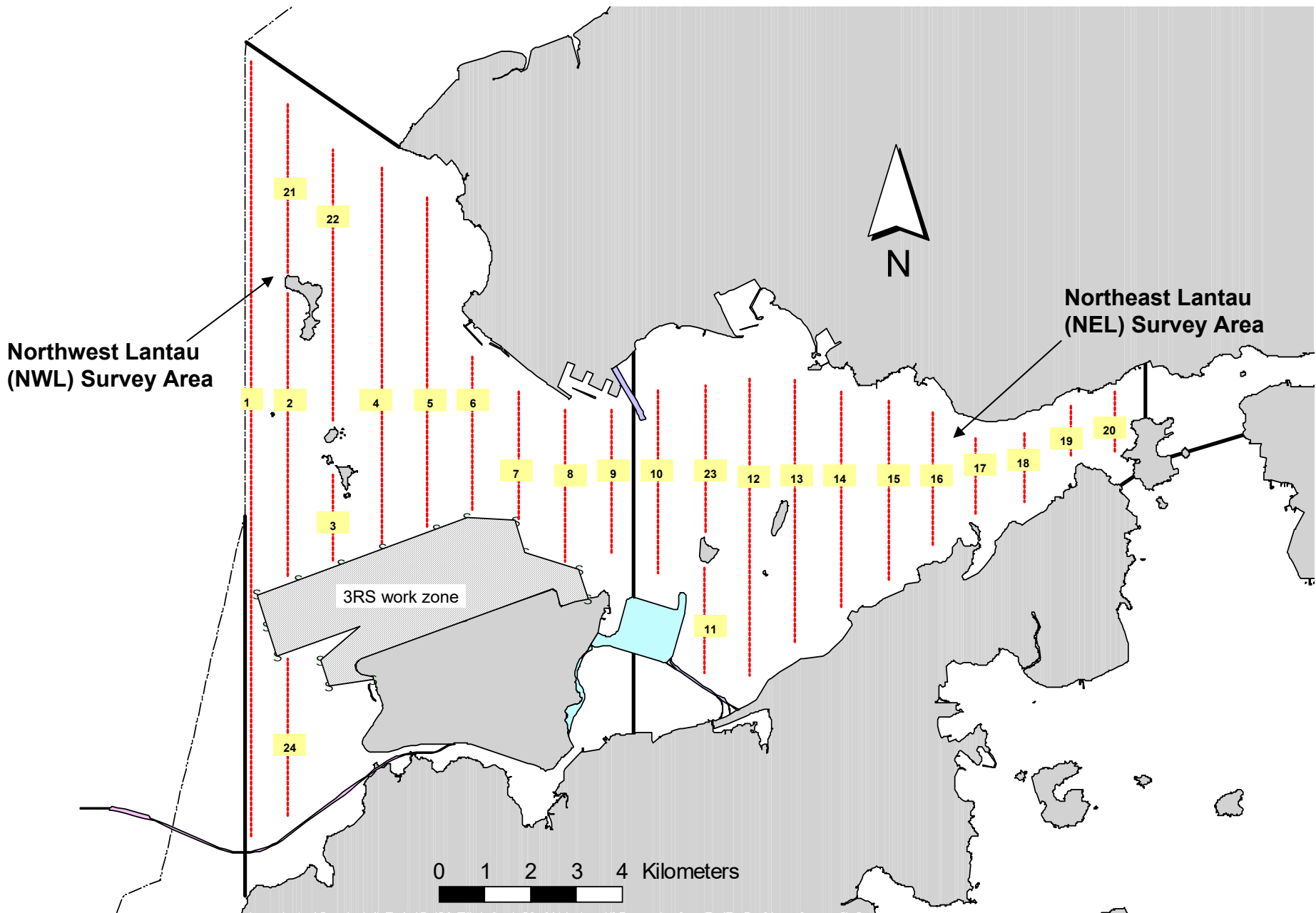


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

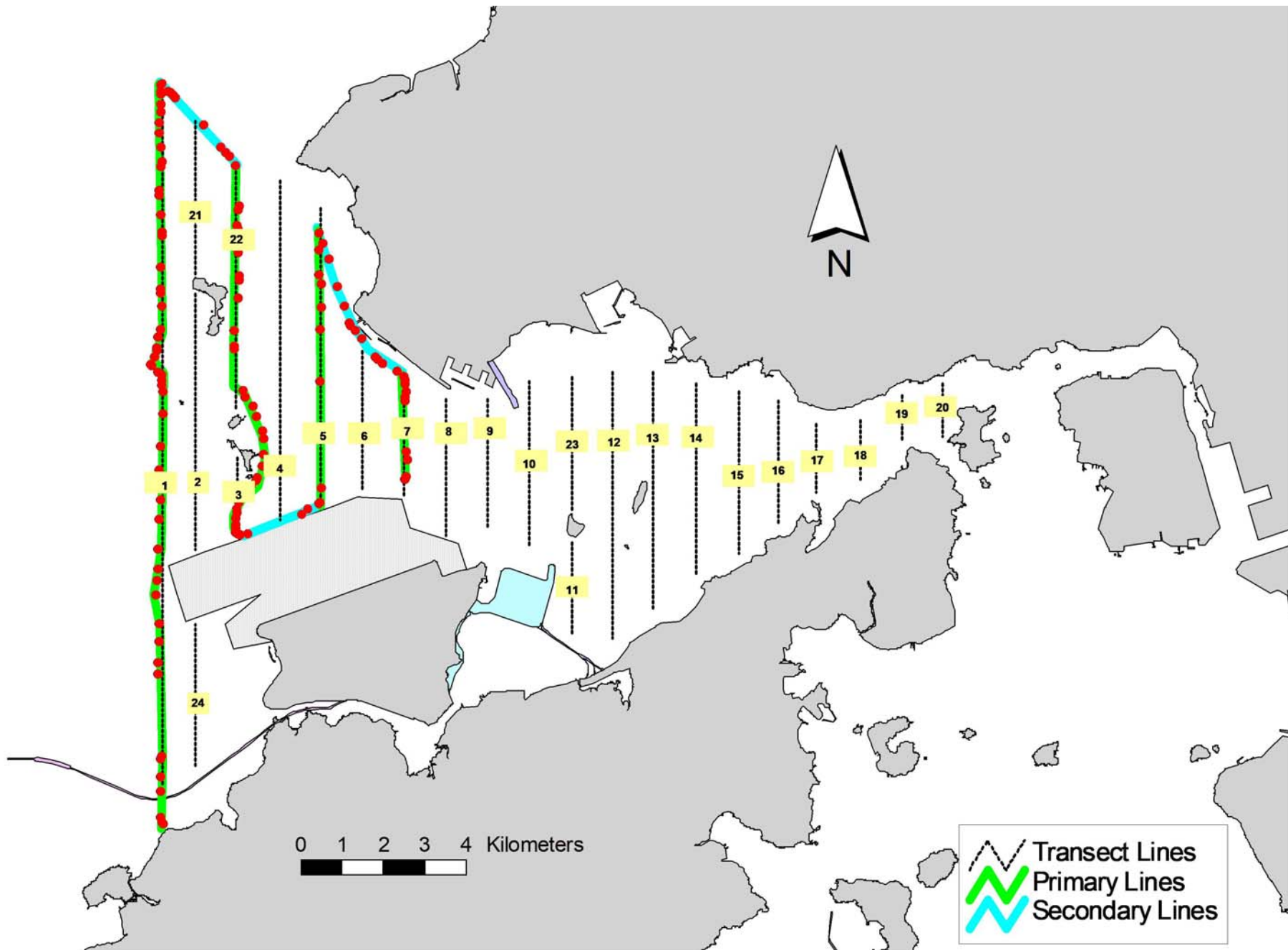


Figure 2. Survey Route on April 11th, 2018

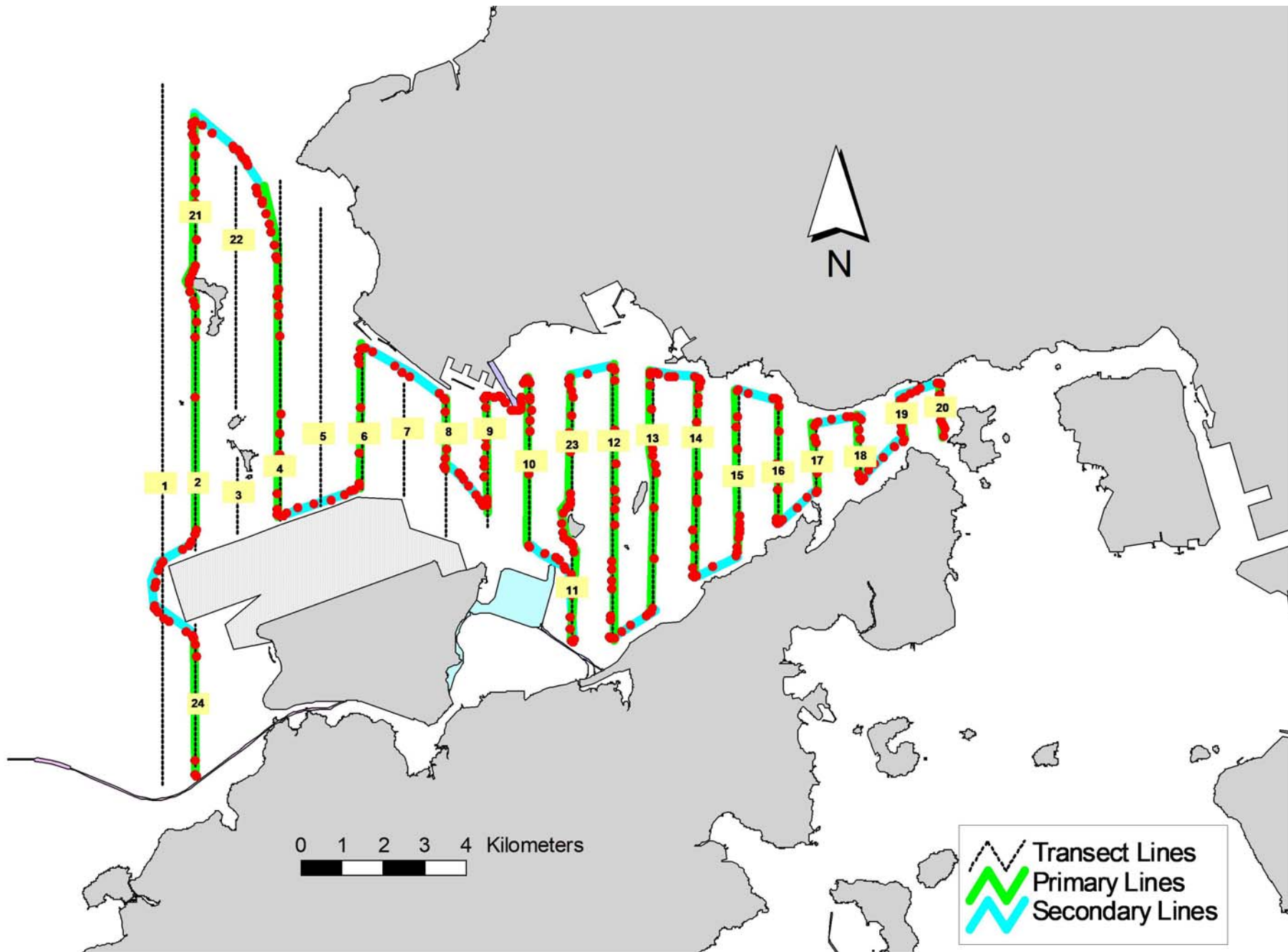


Figure 3. Survey Route on April 18th, 2018

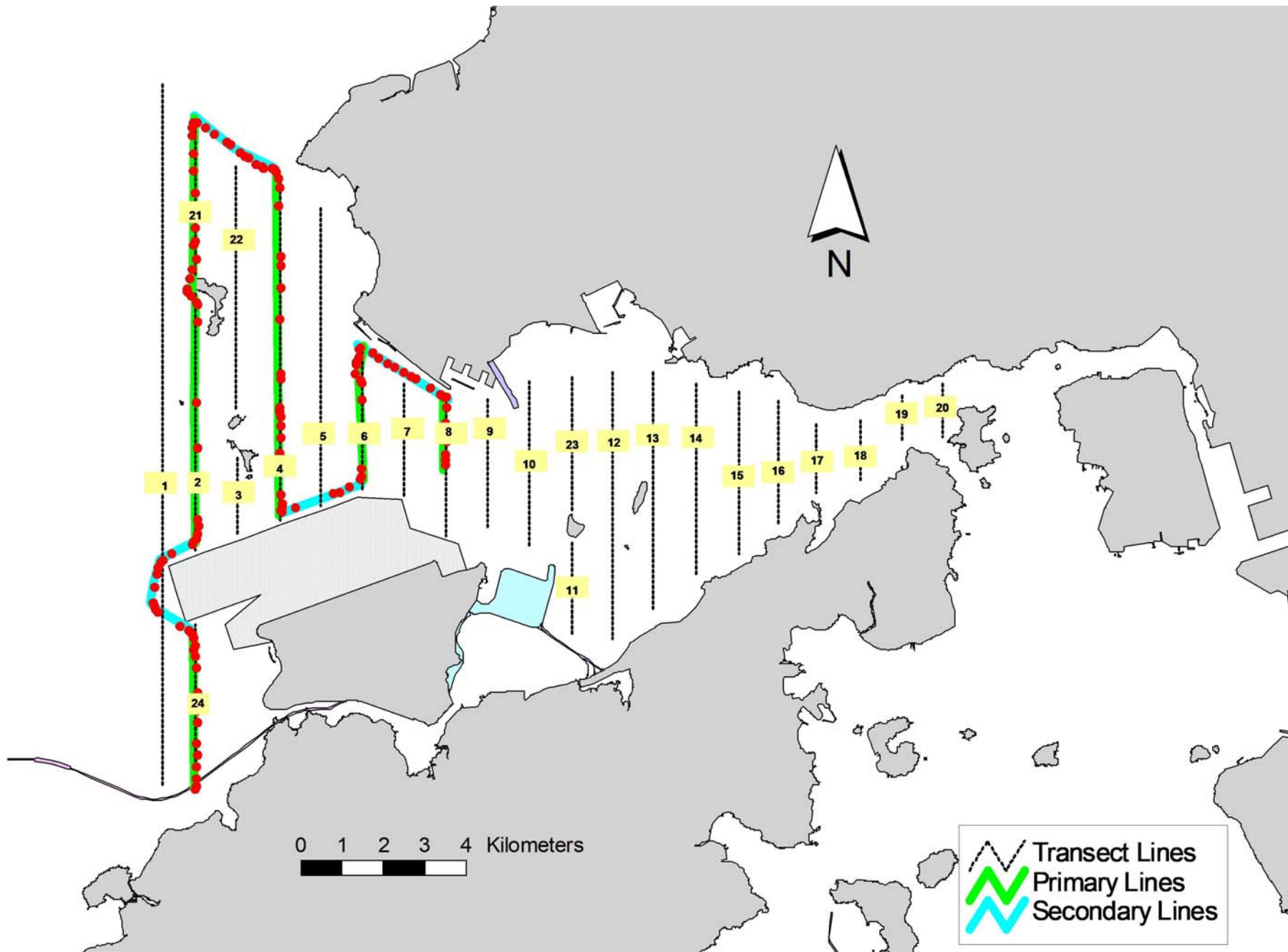


Figure 4. Survey Route on April 24th, 2018

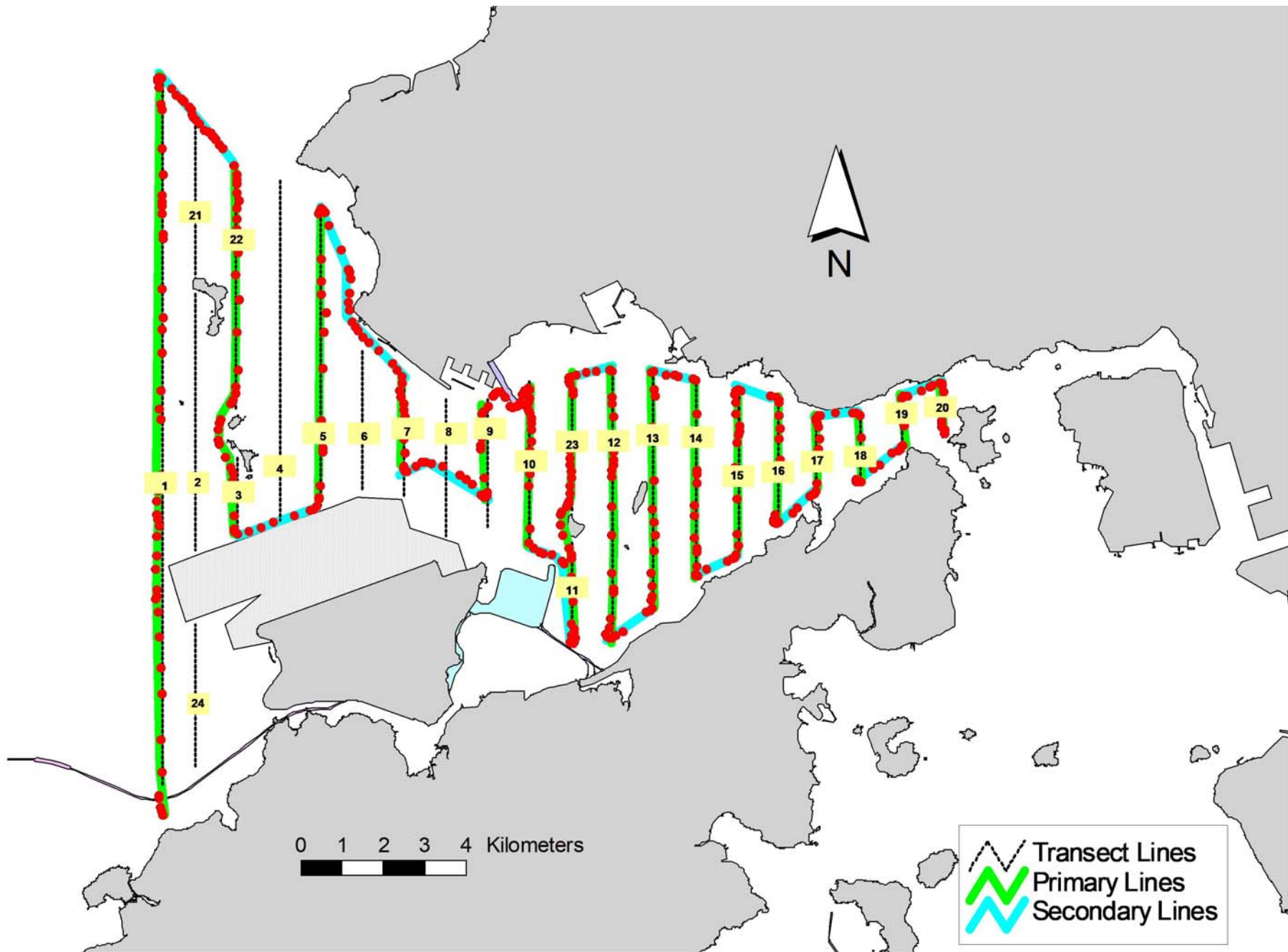


Figure 5. Survey Route on April 26th, 2018

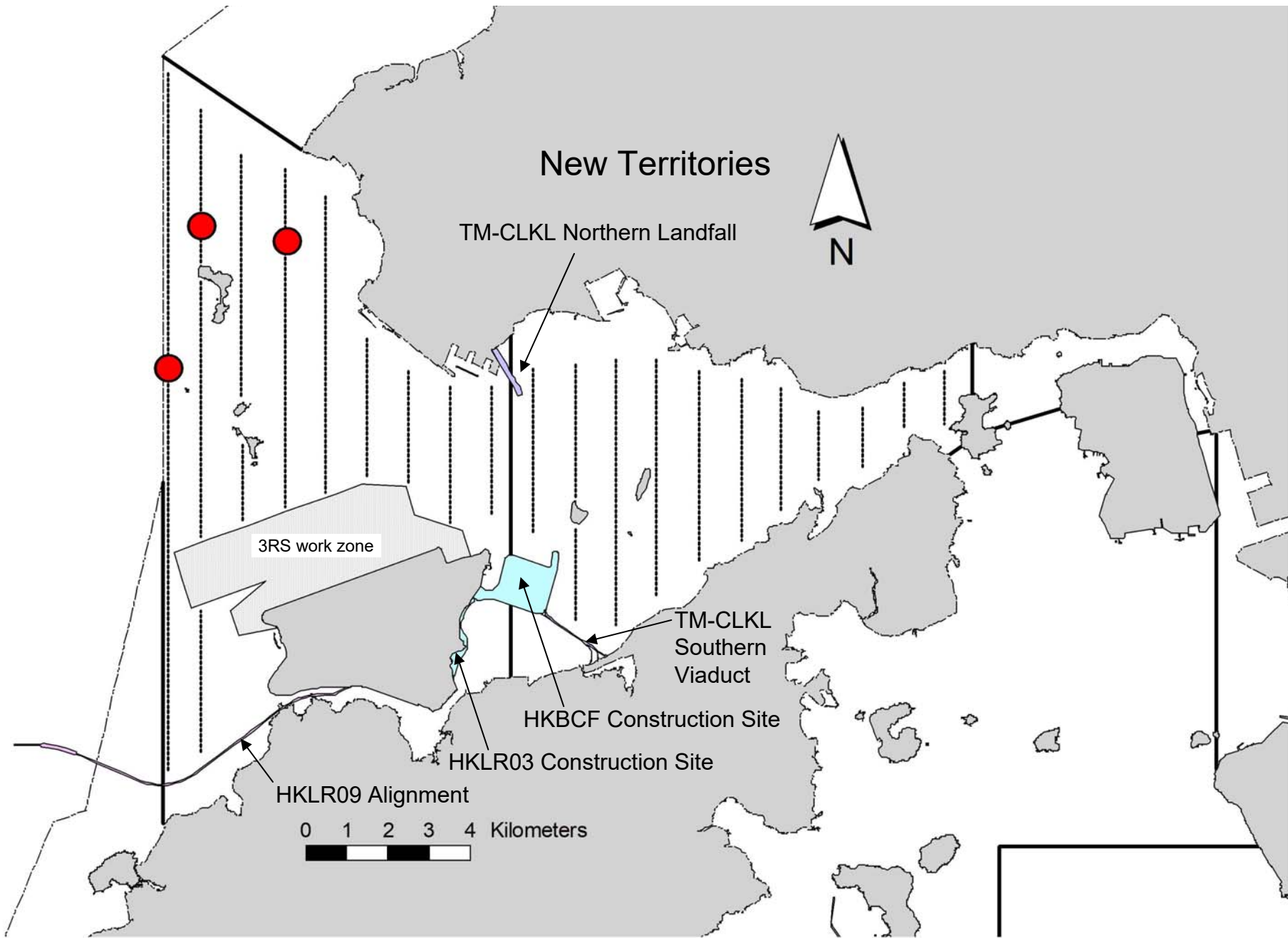


Figure 6. Distribution of Chinese White Dolphin Sightings during April 2018 HKBCF Monitoring Surveys

Appendix I. HKBCF Survey Effort Database (April 2018)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
11-Apr-18	NW LANTAU	1	6.10	SPRING	STANDARD36826	HKBCF	P
11-Apr-18	NW LANTAU	2	24.40	SPRING	STANDARD36826	HKBCF	P
11-Apr-18	NW LANTAU	1	1.43	SPRING	STANDARD36826	HKBCF	S
11-Apr-18	NW LANTAU	2	12.52	SPRING	STANDARD36826	HKBCF	S
18-Apr-18	NE LANTAU	2	27.24	SPRING	STANDARD36826	HKBCF	P
18-Apr-18	NE LANTAU	3	10.20	SPRING	STANDARD36826	HKBCF	P
18-Apr-18	NE LANTAU	2	12.56	SPRING	STANDARD36826	HKBCF	S
18-Apr-18	NE LANTAU	3	1.40	SPRING	STANDARD36826	HKBCF	S
18-Apr-18	NW LANTAU	2	17.48	SPRING	STANDARD36826	HKBCF	P
18-Apr-18	NW LANTAU	3	10.07	SPRING	STANDARD36826	HKBCF	P
18-Apr-18	NW LANTAU	2	8.00	SPRING	STANDARD36826	HKBCF	S
18-Apr-18	NW LANTAU	3	3.45	SPRING	STANDARD36826	HKBCF	S
24-Apr-18	NW LANTAU	1	10.54	SPRING	STANDARD36826	HKBCF	P
24-Apr-18	NW LANTAU	2	12.57	SPRING	STANDARD36826	HKBCF	P
24-Apr-18	NW LANTAU	1	5.84	SPRING	STANDARD36826	HKBCF	S
24-Apr-18	NW LANTAU	2	5.19	SPRING	STANDARD36826	HKBCF	S
26-Apr-18	NE LANTAU	1	1.24	SPRING	STANDARD36826	HKBCF	P
26-Apr-18	NE LANTAU	2	26.24	SPRING	STANDARD36826	HKBCF	P
26-Apr-18	NE LANTAU	3	9.43	SPRING	STANDARD36826	HKBCF	P
26-Apr-18	NE LANTAU	2	14.59	SPRING	STANDARD36826	HKBCF	S
26-Apr-18	NW LANTAU	2	32.47	SPRING	STANDARD36826	HKBCF	P
26-Apr-18	NW LANTAU	3	2.55	SPRING	STANDARD36826	HKBCF	P
26-Apr-18	NW LANTAU	2	11.26	SPRING	STANDARD36826	HKBCF	S
26-Apr-18	NW LANTAU	3	2.22	SPRING	STANDARD36826	HKBCF	S

Appendix II. HKBCF Chinese White Dolphin Sighting Database (April 2018)

(Abbreviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Line)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
11-Apr-18	1	1056	3	NW LANTAU	2	199	ON	HKBCF	824672	804680	SPRING	NONE	P
24-Apr-18	1	1238	3	NW LANTAU	2	436	ON	HKBCF	827556	807549	SPRING	NONE	P
24-Apr-18	2	1329	2	NW LANTAU	2	21	ON	HKBCF	827915	805460	SPRING	NONE	P

Appendix III. Individual dolphins identified during HKBCF monitoring surveys in April 2018

ID#	DATE	STG#	AREA
CH34	24/04/18	1	NW LANTAU
NL123	24/04/18	1	NW LANTAU
	24/04/18	2	NW LANTAU
NL182	24/04/18	1	NW LANTAU
NL202	11/04/18	1	NW LANTAU
NL261	11/04/18	1	NW LANTAU
NL286	11/04/18	1	NW LANTAU

NL202_20180411_1



NL261_20180411_1



NL286_20180411_1



CH34_20180424_1



NL123_20180424_1



NL182_20180424_1



NL123_20180424_2



Appendix IV. Photographs of Identified Individual Dolphins in April 2018 (HKBCF)



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX F

Wind Data

Date (mm/dd/yyyy)	Time	Wind Speed	Wind Direction
04/01/2018	1:00 AM	4.9	SSE
04/01/2018	2:00 AM	2.2	SSE
04/01/2018	3:00 AM	2.7	E
04/01/2018	4:00 AM	2.7	SSE
04/01/2018	5:00 AM	2.2	ESE
04/01/2018	6:00 AM	1.3	SSE
04/01/2018	7:00 AM	1.3	SSE
04/01/2018	8:00 AM	1.3	E
04/01/2018	9:00 AM	2.7	NE
04/01/2018	10:00 AM	3.6	ENE
04/01/2018	11:00 AM	4	E
04/01/2018	12:00 PM	2.7	E
04/01/2018	1:00 PM	3.1	WNW
04/01/2018	2:00 PM	2.7	WNW
04/01/2018	3:00 PM	1.8	NE
04/01/2018	4:00 PM	2.7	NE
04/01/2018	5:00 PM	2.7	E
04/01/2018	6:00 PM	1.3	E
04/01/2018	7:00 PM	0.9	WNW
04/01/2018	8:00 PM	0.4	S
04/01/2018	9:00 PM	0.4	SSE
04/01/2018	10:00 PM	0.9	SSE
04/01/2018	11:00 PM	0.9	SSE
04/02/2018	12:00 AM	0.9	S
04/02/2018	1:00 AM	0.9	S
04/02/2018	2:00 AM	0.9	S
04/02/2018	3:00 AM	0.9	S
04/02/2018	4:00 AM	0.9	S
04/02/2018	5:00 AM	0.9	S
04/02/2018	6:00 AM	0.9	SSE
04/02/2018	7:00 AM	0.4	SSE
04/02/2018	8:00 AM	0.4	S
04/02/2018	9:00 AM	0.9	E
04/02/2018	10:00 AM	2.2	NNE
04/02/2018	11:00 AM	1.8	NE
04/02/2018	12:00 PM	1.3	ENE
04/02/2018	1:00 PM	1.8	NNW
04/02/2018	2:00 PM	2.2	N
04/02/2018	3:00 PM	1.8	N
04/02/2018	4:00 PM	1.8	NE
04/02/2018	5:00 PM	3.1	ENE
04/02/2018	6:00 PM	2.2	E
04/02/2018	7:00 PM	0.9	NE
04/02/2018	8:00 PM	0.9	SSE
04/02/2018	9:00 PM	0.9	SSE
04/02/2018	10:00 PM	0.9	SSE
04/02/2018	11:00 PM	0.9	S
04/03/2018	12:00 AM	0.4	SSE
04/03/2018	1:00 AM	0.9	SSE
04/03/2018	2:00 AM	0.9	SSE
04/03/2018	3:00 AM	0.9	SSE
04/03/2018	4:00 AM	0.9	SSE
04/03/2018	5:00 AM	0.4	SSE
04/03/2018	6:00 AM	0.4	SSE
04/03/2018	7:00 AM	0.4	SSE
04/03/2018	8:00 AM	0.4	S
04/03/2018	9:00 AM	0.9	WNW

04/03/2018	10:00 AM	1.3	N
04/03/2018	11:00 AM	1.8	WNW
04/03/2018	12:00 PM	2.7	NW
04/03/2018	1:00 PM	2.7	ENE
04/03/2018	2:00 PM	2.7	ENE
04/03/2018	3:00 PM	2.2	ENE
04/03/2018	4:00 PM	1.8	ENE
04/03/2018	5:00 PM	1.8	E
04/03/2018	6:00 PM	1.8	ENE
04/03/2018	7:00 PM	1.3	NNW
04/03/2018	8:00 PM	1.8	W
04/03/2018	9:00 PM	0.9	SE
04/03/2018	10:00 PM	0.9	SSE
04/03/2018	11:00 PM	1.8	E
04/04/2018	12:00 AM	1.8	SSE
04/04/2018	1:00 AM	3.1	E
04/04/2018	2:00 AM	0.9	SSE
04/04/2018	3:00 AM	0.9	SSE
04/04/2018	4:00 AM	0.4	SSE
04/04/2018	5:00 AM	0.4	SSE
04/04/2018	6:00 AM	0.4	SSE
04/04/2018	7:00 AM	0.9	SSE
04/04/2018	8:00 AM	0.9	S
04/04/2018	9:00 AM	0.4	NNE
04/04/2018	10:00 AM	0.9	ENE
04/04/2018	11:00 AM	1.8	WNW
04/04/2018	12:00 PM	2.7	WNW
04/04/2018	1:00 PM	2.7	WNW
04/04/2018	2:00 PM	3.1	NE
04/04/2018	3:00 PM	3.1	SSE
04/04/2018	4:00 PM	1.8	ENE
04/04/2018	5:00 PM	2.2	N
04/04/2018	6:00 PM	1.8	NW
04/04/2018	7:00 PM	1.3	NNW
04/04/2018	8:00 PM	0.9	ENE
04/04/2018	9:00 PM	0.9	SSE
04/04/2018	10:00 PM	2.2	SSE
04/04/2018	11:00 PM	2.2	E
04/05/2018	12:00 AM	1.8	SSE
04/05/2018	1:00 AM	1.8	SSE
04/05/2018	2:00 AM	1.3	ESE
04/05/2018	3:00 AM	0.9	W
04/05/2018	4:00 AM	0.9	S
04/05/2018	5:00 AM	0.9	S
04/05/2018	6:00 AM	0.9	ESE
04/05/2018	7:00 AM	0.4	SSE
04/05/2018	8:00 AM	0.4	SSE
04/05/2018	9:00 AM	3.1	E
04/05/2018	10:00 AM	2.7	E
04/05/2018	11:00 AM	2.7	E
04/05/2018	12:00 PM	2.7	SE
04/05/2018	1:00 PM	3.1	ESE
04/05/2018	2:00 PM	3.6	SSE
04/05/2018	3:00 PM	3.1	SSE
04/05/2018	4:00 PM	2.2	SSE
04/05/2018	5:00 PM	1.8	E
04/05/2018	6:00 PM	1.8	ENE
04/05/2018	7:00 PM	1.3	ENE
04/05/2018	8:00 PM	0.4	NNW

04/05/2018	9:00 PM	0.9	WNW
04/05/2018	10:00 PM	0.9	W
04/05/2018	11:00 PM	0.4	SSE
04/06/2018	12:00 AM	0.9	SSE
04/06/2018	1:00 AM	0.9	SSE
04/06/2018	2:00 AM	0.9	SSE
04/06/2018	3:00 AM	0.9	SSE
04/06/2018	4:00 AM	0.9	SSE
04/06/2018	5:00 AM	0.9	SSE
04/06/2018	6:00 AM	1.3	SSE
04/06/2018	7:00 AM	0.4	SSE
04/06/2018	8:00 AM	0.4	SSE
04/06/2018	9:00 AM	0.9	ENE
04/06/2018	10:00 AM	0.4	NNE
04/06/2018	11:00 AM	2.2	WNW
04/06/2018	12:00 PM	3.1	WNW
04/06/2018	1:00 PM	6.3	WNW
04/06/2018	2:00 PM	4.9	NW
04/06/2018	3:00 PM	4.5	NW
04/06/2018	4:00 PM	4.9	NW
04/06/2018	5:00 PM	5.4	NW
04/06/2018	6:00 PM	5.4	NW
04/06/2018	7:00 PM	4	NW
04/06/2018	8:00 PM	4.9	N
04/06/2018	9:00 PM	3.6	NW
04/06/2018	10:00 PM	4	NW
04/06/2018	11:00 PM	4.9	NE
04/07/2018	12:00 AM	5.4	NE
04/07/2018	1:00 AM	5.4	NNE
04/07/2018	2:00 AM	5.4	NE
04/07/2018	3:00 AM	6.7	NE
04/07/2018	4:00 AM	6.7	ENE
04/07/2018	5:00 AM	4.9	ENE
04/07/2018	6:00 AM	4.5	NE
04/07/2018	7:00 AM	4	ENE
04/07/2018	8:00 AM	4	E
04/07/2018	9:00 AM	4.5	E
04/07/2018	10:00 AM	4.5	E
04/07/2018	11:00 AM	5.4	ENE
04/07/2018	12:00 PM	5.8	ENE
04/07/2018	1:00 PM	5.8	ENE
04/07/2018	2:00 PM	6.7	ENE
04/07/2018	3:00 PM	5.4	ENE
04/07/2018	4:00 PM	3.6	NNE
04/07/2018	5:00 PM	2.2	ENE
04/07/2018	6:00 PM	2.7	NE
04/07/2018	7:00 PM	4.9	NE
04/07/2018	8:00 PM	4.5	ENE
04/07/2018	9:00 PM	3.6	ENE
04/07/2018	10:00 PM	3.6	ENE
04/07/2018	11:00 PM	2.7	E
04/08/2018	12:00 AM	2.2	ENE
04/08/2018	1:00 AM	1.3	SSE
04/08/2018	2:00 AM	1.8	SSE
04/08/2018	3:00 AM	1.3	SSE
04/08/2018	4:00 AM	1.3	SSE
04/08/2018	5:00 AM	1.3	SSE
04/08/2018	6:00 AM	1.8	SSE
04/08/2018	7:00 AM	0.4	S

04/08/2018	8:00 AM	0.9	SSE
04/08/2018	9:00 AM	0.9	ENE
04/08/2018	10:00 AM	0.4	NNW
04/08/2018	11:00 AM	1.8	NE
04/08/2018	12:00 PM	3.6	NE
04/08/2018	1:00 PM	3.1	WNW
04/08/2018	2:00 PM	4	WNW
04/08/2018	3:00 PM	4.5	WNW
04/08/2018	4:00 PM	2.7	WNW
04/08/2018	5:00 PM	2.7	E
04/08/2018	6:00 PM	1.3	E
04/08/2018	7:00 PM	0.9	SSE
04/08/2018	8:00 PM	0.9	SSE
04/08/2018	9:00 PM	0.9	SSE
04/08/2018	10:00 PM	0.9	SSE
04/08/2018	11:00 PM	0.9	SSE
04/09/2018	12:00 AM	0.9	SSE
04/09/2018	1:00 AM	0.9	SSE
04/09/2018	2:00 AM	0.9	E
04/09/2018	3:00 AM	0.4	ESE
04/09/2018	4:00 AM	0.4	SSE
04/09/2018	5:00 AM	0.9	S
04/09/2018	6:00 AM	0.9	SSE
04/09/2018	7:00 AM	0.9	SSE
04/09/2018	8:00 AM	1.3	SSE
04/09/2018	9:00 AM	1.8	NE
04/09/2018	10:00 AM	3.1	NE
04/09/2018	11:00 AM	3.6	E
04/09/2018	12:00 PM	4	E
04/09/2018	1:00 PM	1.8	WNW
04/09/2018	2:00 PM	4	E
04/09/2018	3:00 PM	4.5	SSE
04/09/2018	4:00 PM	4.5	SSE
04/09/2018	5:00 PM	3.1	SSE
04/09/2018	6:00 PM	3.1	SSE
04/09/2018	7:00 PM	4.5	S
04/09/2018	8:00 PM	3.1	S
04/09/2018	9:00 PM	1.3	SSE
04/09/2018	10:00 PM	2.2	S
04/09/2018	11:00 PM	3.6	S
04/10/2018	12:00 AM	5.4	SSE
04/10/2018	1:00 AM	4.9	SSE
04/10/2018	2:00 AM	4.9	S
04/10/2018	3:00 AM	4	S
04/10/2018	4:00 AM	2.7	S
04/10/2018	5:00 AM	1.8	SSE
04/10/2018	6:00 AM	1.8	SSE
04/10/2018	7:00 AM	1.8	E
04/10/2018	8:00 AM	2.2	E
04/10/2018	9:00 AM	2.7	E
04/10/2018	10:00 AM	2.7	SSE
04/10/2018	11:00 AM	2.2	SSE
04/10/2018	12:00 PM	3.1	NW
04/10/2018	1:00 PM	2.7	WNW
04/10/2018	2:00 PM	1.8	NNW
04/10/2018	3:00 PM	2.2	NE
04/10/2018	4:00 PM	1.8	N
04/10/2018	5:00 PM	1.8	N
04/10/2018	6:00 PM	1.3	ENE

04/10/2018	7:00 PM	1.3	ENE
04/10/2018	8:00 PM	0.9	NW
04/10/2018	9:00 PM	0.4	W
04/10/2018	10:00 PM	0.4	SW
04/10/2018	11:00 PM	0.9	S
04/11/2018	12:00 AM	0.9	SSE
04/11/2018	1:00 AM	0.4	WSW
04/11/2018	2:00 AM	1.3	SSE
04/11/2018	3:00 AM	1.3	E
04/11/2018	4:00 AM	1.3	SSE
04/11/2018	5:00 AM	0.9	SSE
04/11/2018	6:00 AM	0.4	E
04/11/2018	7:00 AM	0.4	SSE
04/11/2018	8:00 AM	0	E
04/11/2018	9:00 AM	1.3	E
04/11/2018	10:00 AM	1.3	E
04/11/2018	11:00 AM	1.3	E
04/11/2018	12:00 PM	1.3	E
04/11/2018	1:00 PM	1.3	NNW
04/11/2018	2:00 PM	1.3	NNW
04/11/2018	3:00 PM	1.8	ENE
04/11/2018	4:00 PM	1.8	ENE
04/11/2018	5:00 PM	2.2	NNW
04/11/2018	6:00 PM	1.3	WNW
04/11/2018	7:00 PM	0.4	ENE
04/11/2018	8:00 PM	1.3	SSE
04/11/2018	9:00 PM	0.9	ENE
04/11/2018	10:00 PM	0.4	N
04/11/2018	11:00 PM	0.4	ENE
04/12/2018	12:00 AM	0.4	NW
04/12/2018	1:00 AM	0.4	ENE
04/12/2018	2:00 AM	0.4	SE
04/12/2018	3:00 AM	0.4	SSE
04/12/2018	4:00 AM	0.4	SSE
04/12/2018	5:00 AM	0.4	SSE
04/12/2018	6:00 AM	0.9	S
04/12/2018	7:00 AM	1.8	E
04/12/2018	8:00 AM	1.3	SSE
04/12/2018	9:00 AM	1.3	E
04/12/2018	10:00 AM	1.8	ENE
04/12/2018	11:00 AM	1.8	N
04/12/2018	12:00 PM	1.8	WNW
04/12/2018	1:00 PM	1.3	WNW
04/12/2018	2:00 PM	1.8	WNW
04/12/2018	3:00 PM	0.9	NW
04/12/2018	4:00 PM	1.3	NW
04/12/2018	5:00 PM	1.3	NW
04/12/2018	6:00 PM	0.9	WNW
04/12/2018	7:00 PM	1.8	SSE
04/12/2018	8:00 PM	1.3	SSE
04/12/2018	9:00 PM	2.2	SSE
04/12/2018	10:00 PM	3.1	SSE
04/12/2018	11:00 PM	3.6	SSE
04/13/2018	12:00 AM	2.2	SSE
04/13/2018	1:00 AM	2.7	SSE
04/13/2018	2:00 AM	2.2	E
04/13/2018	3:00 AM	1.3	SSE
04/13/2018	4:00 AM	1.8	E
04/13/2018	5:00 AM	3.1	E

04/13/2018	6:00 AM	2.2	E
04/13/2018	7:00 AM	3.6	E
04/13/2018	8:00 AM	3.6	E
04/13/2018	9:00 AM	2.7	ESE
04/13/2018	10:00 AM	3.1	SSE
04/13/2018	11:00 AM	3.1	SSE
04/13/2018	12:00 PM	3.1	E
04/13/2018	1:00 PM	3.1	E
04/13/2018	2:00 PM	2.2	ENE
04/13/2018	3:00 PM	2.7	NE
04/13/2018	4:00 PM	2.7	ENE
04/13/2018	5:00 PM	3.1	ENE
04/13/2018	6:00 PM	2.7	E
04/13/2018	7:00 PM	1.8	E
04/13/2018	8:00 PM	1.8	SSE
04/13/2018	9:00 PM	2.2	E
04/13/2018	10:00 PM	1.8	E
04/13/2018	11:00 PM	0.9	SSE
04/14/2018	12:00 AM	0.9	SSE
04/14/2018	1:00 AM	0.4	W
04/14/2018	2:00 AM	0.9	SSE
04/14/2018	3:00 AM	0.9	SE
04/14/2018	4:00 AM	0.9	S
04/14/2018	5:00 AM	0.4	SSE
04/14/2018	6:00 AM	0.9	SSE
04/14/2018	7:00 AM	1.3	WNW
04/14/2018	8:00 AM	0.9	WNW
04/14/2018	9:00 AM	1.3	WNW
04/14/2018	10:00 AM	1.3	SSE
04/14/2018	11:00 AM	1.3	NW
04/14/2018	12:00 PM	1.8	WNW
04/14/2018	1:00 PM	1.8	SSE
04/14/2018	2:00 PM	1.8	NW
04/14/2018	3:00 PM	1.8	NNW
04/14/2018	4:00 PM	1.3	SE
04/14/2018	5:00 PM	0.9	NNE
04/14/2018	6:00 PM	0.9	ESE
04/14/2018	7:00 PM	0.9	WNW
04/14/2018	8:00 PM	0.9	W
04/14/2018	9:00 PM	2.2	NW
04/14/2018	10:00 PM	1.3	SSE
04/14/2018	11:00 PM	2.2	W
04/15/2018	12:00 AM	2.2	W
04/15/2018	1:00 AM	3.1	WSW
04/15/2018	2:00 AM	3.1	W
04/15/2018	3:00 AM	3.6	WSW
04/15/2018	4:00 AM	3.6	WSW
04/15/2018	5:00 AM	3.6	WSW
04/15/2018	6:00 AM	3.1	WSW
04/15/2018	7:00 AM	3.1	WSW
04/15/2018	8:00 AM	3.6	WNW
04/15/2018	9:00 AM	4.5	WNW
04/15/2018	10:00 AM	5.4	WNW
04/15/2018	11:00 AM	6.3	W
04/15/2018	12:00 PM	1.3	SSE
04/15/2018	1:00 PM	2.2	ESE
04/15/2018	2:00 PM	2.2	E
04/15/2018	3:00 PM	0.9	ENE
04/15/2018	4:00 PM	1.8	N

04/15/2018	5:00 PM	1.8	NE
04/15/2018	6:00 PM	1.3	E
04/15/2018	7:00 PM	3.6	N
04/15/2018	8:00 PM	2.7	N
04/15/2018	9:00 PM	1.8	ENE
04/15/2018	10:00 PM	2.7	SSE
04/15/2018	11:00 PM	2.2	ENE
04/16/2018	12:00 AM	1.8	NNE
04/16/2018	1:00 AM	0.9	NNE
04/16/2018	2:00 AM	1.8	SSE
04/16/2018	3:00 AM	2.7	E
04/16/2018	4:00 AM	1.8	ESE
04/16/2018	5:00 AM	1.3	S
04/16/2018	6:00 AM	2.2	N
04/16/2018	7:00 AM	2.2	N
04/16/2018	8:00 AM	1.8	N
04/16/2018	9:00 AM	0.9	SSE
04/16/2018	10:00 AM	1.3	E
04/16/2018	11:00 AM	1.3	N
04/16/2018	12:00 PM	1.8	N
04/16/2018	1:00 PM	2.2	N
04/16/2018	2:00 PM	1.8	NE
04/16/2018	3:00 PM	1.3	ENE
04/16/2018	4:00 PM	2.7	NNW
04/16/2018	5:00 PM	1.8	NW
04/16/2018	6:00 PM	1.3	N
04/16/2018	7:00 PM	1.8	NNW
04/16/2018	8:00 PM	1.8	N
04/16/2018	9:00 PM	1.3	NNW
04/16/2018	10:00 PM	2.7	N
04/16/2018	11:00 PM	1.3	E
04/17/2018	12:00 AM	1.3	N
04/17/2018	1:00 AM	0.9	SSE
04/17/2018	2:00 AM	1.3	N
04/17/2018	3:00 AM	1.8	N
04/17/2018	4:00 AM	0.9	WSW
04/17/2018	5:00 AM	1.3	N
04/17/2018	6:00 AM	0.9	WNW
04/17/2018	7:00 AM	0.9	N
04/17/2018	8:00 AM	0.9	S
04/17/2018	9:00 AM	0.9	NNE
04/17/2018	10:00 AM	1.3	N
04/17/2018	11:00 AM	0.9	NNW
04/17/2018	12:00 PM	0.9	ENE
04/17/2018	1:00 PM	1.3	ENE
04/17/2018	2:00 PM	0.9	NNW
04/17/2018	3:00 PM	2.2	WNW
04/17/2018	4:00 PM	2.2	WNW
04/17/2018	5:00 PM	1.8	WNW
04/17/2018	6:00 PM	0.9	NE
04/17/2018	7:00 PM	0.9	ENE
04/17/2018	8:00 PM	0.4	SSE
04/17/2018	9:00 PM	0.4	SSE
04/17/2018	10:00 PM	0.9	SSE
04/17/2018	11:00 PM	2.2	SSE
04/18/2018	12:00 AM	1.3	SE
04/18/2018	1:00 AM	2.2	SSE
04/18/2018	2:00 AM	1.8	SSE
04/18/2018	3:00 AM	1.3	SSE

04/18/2018	4:00 AM	1.8	SSE
04/18/2018	5:00 AM	1.3	SSE
04/18/2018	6:00 AM	1.3	SSE
04/18/2018	7:00 AM	2.7	SSE
04/18/2018	8:00 AM	2.7	SSE
04/18/2018	9:00 AM	3.1	SSE
04/18/2018	10:00 AM	4	SSE
04/18/2018	11:00 AM	4	SSE
04/18/2018	12:00 PM	4.5	SSE
04/18/2018	1:00 PM	4	SSE
04/18/2018	2:00 PM	3.1	SSE
04/18/2018	3:00 PM	2.7	SSE
04/18/2018	4:00 PM	2.2	SSE
04/18/2018	5:00 PM	1.3	SSE
04/18/2018	6:00 PM	0.9	ENE
04/18/2018	7:00 PM	0.9	SSE
04/18/2018	8:00 PM	0.9	SSE
04/18/2018	9:00 PM	0.4	SSE
04/18/2018	10:00 PM	0.4	SE
04/18/2018	11:00 PM	0.9	SSE
04/19/2018	12:00 AM	0.4	SW
04/19/2018	1:00 AM	2.7	SSE
04/19/2018	2:00 AM	3.1	SSE
04/19/2018	3:00 AM	0.9	SSE
04/19/2018	4:00 AM	0.9	SSE
04/19/2018	5:00 AM	3.1	SSE
04/19/2018	6:00 AM	3.6	SSE
04/19/2018	7:00 AM	3.6	SSE
04/19/2018	8:00 AM	3.6	SSE
04/19/2018	9:00 AM	3.6	SSE
04/19/2018	10:00 AM	4.5	E
04/19/2018	11:00 AM	4.9	E
04/19/2018	12:00 PM	4.9	E
04/19/2018	1:00 PM	4.5	SSE
04/19/2018	2:00 PM	4	SSE
04/19/2018	3:00 PM	3.1	SSE
04/19/2018	4:00 PM	2.7	SSE
04/19/2018	5:00 PM	3.1	SSE
04/19/2018	6:00 PM	4.5	SSE
04/19/2018	7:00 PM	4.5	SSE
04/19/2018	8:00 PM	3.1	S
04/19/2018	9:00 PM	3.1	S
04/19/2018	10:00 PM	2.7	SSE
04/19/2018	11:00 PM	2.2	S
04/20/2018	12:00 AM	3.6	E
04/20/2018	1:00 AM	4.5	E
04/20/2018	2:00 AM	3.6	E
04/20/2018	3:00 AM	3.1	ENE
04/20/2018	4:00 AM	2.7	E
04/20/2018	5:00 AM	3.1	E
04/20/2018	6:00 AM	4	ENE
04/20/2018	7:00 AM	2.2	E
04/20/2018	8:00 AM	1.8	SSE
04/20/2018	9:00 AM	2.2	ESE
04/20/2018	10:00 AM	2.7	SSE
04/20/2018	11:00 AM	3.6	SE
04/20/2018	12:00 PM	5.4	E
04/20/2018	1:00 PM	4.9	E
04/20/2018	2:00 PM	4	SSE

04/20/2018	3:00 PM	3.6	SSE
04/20/2018	4:00 PM	4	SSE
04/20/2018	5:00 PM	4.9	SSE
04/20/2018	6:00 PM	4	SSE
04/20/2018	7:00 PM	4	E
04/20/2018	8:00 PM	4	E
04/20/2018	9:00 PM	3.6	E
04/20/2018	10:00 PM	4.9	E
04/20/2018	11:00 PM	5.4	SSE
04/21/2018	12:00 AM	6.3	SSE
04/21/2018	1:00 AM	4.5	SSE
04/21/2018	2:00 AM	4.5	E
04/21/2018	3:00 AM	5.8	E
04/21/2018	4:00 AM	4.5	E
04/21/2018	5:00 AM	4	SSE
04/21/2018	6:00 AM	6.3	SSE
04/21/2018	7:00 AM	5.4	SSE
04/21/2018	8:00 AM	5.8	SSE
04/21/2018	9:00 AM	7.2	SSE
04/21/2018	10:00 AM	6.3	SSE
04/21/2018	11:00 AM	5.4	SSE
04/21/2018	12:00 PM	5.8	SSE
04/21/2018	1:00 PM	6.3	SSE
04/21/2018	2:00 PM	6.3	SSE
04/21/2018	3:00 PM	4.9	SSE
04/21/2018	4:00 PM	5.4	SSE
04/21/2018	5:00 PM	4.9	SSE
04/21/2018	6:00 PM	4.5	SSE
04/21/2018	7:00 PM	4.5	SSE
04/21/2018	8:00 PM	3.6	SSE
04/21/2018	9:00 PM	3.6	SSE
04/21/2018	10:00 PM	5.4	SSE
04/21/2018	11:00 PM	2.2	E
04/22/2018	12:00 AM	2.7	E
04/22/2018	1:00 AM	1.8	ENE
04/22/2018	2:00 AM	1.8	E
04/22/2018	3:00 AM	2.2	E
04/22/2018	4:00 AM	3.1	ESE
04/22/2018	5:00 AM	2.2	E
04/22/2018	6:00 AM	1.8	E
04/22/2018	7:00 AM	2.2	E
04/22/2018	8:00 AM	2.7	SSE
04/22/2018	9:00 AM	3.6	SSE
04/22/2018	10:00 AM	3.1	SSE
04/22/2018	11:00 AM	4.9	SSE
04/22/2018	12:00 PM	4	SSE
04/22/2018	1:00 PM	3.6	SSE
04/22/2018	2:00 PM	4	SSE
04/22/2018	3:00 PM	4	SSE
04/22/2018	4:00 PM	3.1	SSE
04/22/2018	5:00 PM	4	SSE
04/22/2018	6:00 PM	5.8	SSE
04/22/2018	7:00 PM	5.8	SSE
04/22/2018	8:00 PM	4.9	SSE
04/22/2018	9:00 PM	2.7	ESE
04/22/2018	10:00 PM	4	SSE
04/22/2018	11:00 PM	4.9	SSE
04/23/2018	12:00 AM	2.2	SSE
04/23/2018	1:00 AM	2.2	E

04/23/2018	2:00 AM	2.7	E
04/23/2018	3:00 AM	2.2	E
04/23/2018	4:00 AM	1.3	SSE
04/23/2018	5:00 AM	0.4	SSE
04/23/2018	6:00 AM	0.4	SSE
04/23/2018	7:00 AM	0.4	S
04/23/2018	8:00 AM	1.3	E
04/23/2018	9:00 AM	1.3	ENE
04/23/2018	10:00 AM	1.8	NW
04/23/2018	11:00 AM	2.2	NNW
04/23/2018	12:00 PM	2.7	NNW
04/23/2018	1:00 PM	1.8	ENE
04/23/2018	2:00 PM	1.3	NNE
04/23/2018	3:00 PM	2.2	ENE
04/23/2018	4:00 PM	1.3	E
04/23/2018	5:00 PM	1.8	W
04/23/2018	6:00 PM	1.3	WNW
04/23/2018	7:00 PM	0.4	NE
04/23/2018	8:00 PM	0.4	NE
04/23/2018	9:00 PM	0.4	ENE
04/23/2018	10:00 PM	0.4	WSW
04/23/2018	11:00 PM	0.4	E
04/24/2018	12:00 AM	0.4	ENE
04/24/2018	1:00 AM	0.4	SE
04/24/2018	2:00 AM	0.4	SE
04/24/2018	3:00 AM	0.4	E
04/24/2018	4:00 AM	0.4	ESE
04/24/2018	5:00 AM	0.4	S
04/24/2018	6:00 AM	0.4	S
04/24/2018	7:00 AM	0.4	E
04/24/2018	8:00 AM	0.4	W
04/24/2018	9:00 AM	1.3	NE
04/24/2018	10:00 AM	0.9	NE
04/24/2018	11:00 AM	0.9	W
04/24/2018	12:00 PM	0.9	NW
04/24/2018	1:00 PM	0.9	NNW
04/24/2018	2:00 PM	0.9	E
04/24/2018	3:00 PM	0.4	E
04/24/2018	4:00 PM	1.3	NW
04/24/2018	5:00 PM	2.2	N
04/24/2018	6:00 PM	0.9	W
04/24/2018	7:00 PM	0.9	E
04/24/2018	8:00 PM	0.9	SSE
04/24/2018	9:00 PM	0.4	SSE
04/24/2018	10:00 PM	1.3	SSE
04/24/2018	11:00 PM	1.3	SSE
04/25/2018	12:00 AM	1.3	S
04/25/2018	1:00 AM	1.3	S
04/25/2018	2:00 AM	0.9	S
04/25/2018	3:00 AM	0.9	SSE
04/25/2018	4:00 AM	0.4	S
04/25/2018	5:00 AM	0.9	SSE
04/25/2018	6:00 AM	1.3	SSE
04/25/2018	7:00 AM	1.3	SSE
04/25/2018	8:00 AM	1.3	E
04/25/2018	9:00 AM	1.3	E
04/25/2018	10:00 AM	2.2	E
04/25/2018	11:00 AM	4	SSE
04/25/2018	12:00 PM	3.1	SSE

04/25/2018	1:00 PM	2.7	SSE
04/25/2018	2:00 PM	3.1	SSE
04/25/2018	3:00 PM	3.1	SSE
04/25/2018	4:00 PM	3.6	SSE
04/25/2018	5:00 PM	3.6	SSE
04/25/2018	6:00 PM	3.1	SSE
04/25/2018	7:00 PM	3.1	SSE
04/25/2018	8:00 PM	4.5	SSE
04/25/2018	9:00 PM	2.7	SSE
04/25/2018	10:00 PM	1.8	SSE
04/25/2018	11:00 PM	2.7	SSE
04/26/2018	12:00 AM	2.2	SSE
04/26/2018	1:00 AM	2.2	SSE
04/26/2018	2:00 AM	2.2	ESE
04/26/2018	3:00 AM	3.6	SSE
04/26/2018	4:00 AM	2.7	E
04/26/2018	5:00 AM	4	SSE
04/26/2018	6:00 AM	4	SSE
04/26/2018	7:00 AM	4	SSE
04/26/2018	8:00 AM	3.1	E
04/26/2018	9:00 AM	3.1	SSE
04/26/2018	10:00 AM	2.7	SSE
04/26/2018	11:00 AM	2.7	SSE
04/26/2018	12:00 PM	3.1	SSE
04/26/2018	1:00 PM	3.6	SSE
04/26/2018	2:00 PM	3.1	SSE
04/26/2018	3:00 PM	2.7	SSE
04/26/2018	4:00 PM	3.6	SSE
04/26/2018	5:00 PM	4	SSE
04/26/2018	6:00 PM	2.7	SSE
04/26/2018	7:00 PM	2.7	SSE
04/26/2018	8:00 PM	2.2	SSE
04/26/2018	9:00 PM	0.9	SSE
04/26/2018	10:00 PM	1.3	E
04/26/2018	11:00 PM	0.9	S
04/27/2018	12:00 AM	2.2	SSE
04/27/2018	1:00 AM	2.2	SSE
04/27/2018	2:00 AM	1.3	S
04/27/2018	3:00 AM	0.4	S
04/27/2018	4:00 AM	1.3	ESE
04/27/2018	5:00 AM	0.4	SE
04/27/2018	6:00 AM	0.4	SE
04/27/2018	7:00 AM	0.4	ESE
04/27/2018	8:00 AM	0.4	ESE
04/27/2018	9:00 AM	0.9	NE
04/27/2018	10:00 AM	1.3	ENE
04/27/2018	11:00 AM	2.7	ENE
04/27/2018	12:00 PM	1.8	NE
04/27/2018	1:00 PM	1.3	WNW
04/27/2018	2:00 PM	1.8	WNW
04/27/2018	3:00 PM	1.3	N
04/27/2018	4:00 PM	0.9	N
04/27/2018	5:00 PM	1.3	N
04/27/2018	6:00 PM	1.3	NNW
04/27/2018	7:00 PM	0.4	NNE
04/27/2018	8:00 PM	0.9	ENE
04/27/2018	9:00 PM	0.9	E
04/27/2018	10:00 PM	0.4	WSW
04/27/2018	11:00 PM	0.9	W

04/28/2018	12:00 AM	1.3	S
04/28/2018	1:00 AM	1.8	E
04/28/2018	2:00 AM	2.7	E
04/28/2018	3:00 AM	3.1	E
04/28/2018	4:00 AM	3.1	E
04/28/2018	5:00 AM	2.2	E
04/28/2018	6:00 AM	2.2	E
04/28/2018	7:00 AM	2.7	ESE
04/28/2018	8:00 AM	3.1	SE
04/28/2018	9:00 AM	4.5	E
04/28/2018	10:00 AM	5.4	SSE
04/28/2018	11:00 AM	4.9	SE
04/28/2018	12:00 PM	4	SSE
04/28/2018	1:00 PM	3.1	SSE
04/28/2018	2:00 PM	2.7	E
04/28/2018	3:00 PM	3.6	E
04/28/2018	4:00 PM	4	SSE
04/28/2018	5:00 PM	4.9	SSE
04/28/2018	6:00 PM	5.8	SSE
04/28/2018	7:00 PM	4.5	SSE
04/28/2018	8:00 PM	2.7	SSE
04/28/2018	9:00 PM	4	E
04/28/2018	10:00 PM	4.5	E
04/28/2018	11:00 PM	4.5	E
04/29/2018	12:00 AM	3.6	ESE
04/29/2018	1:00 AM	4.9	ENE
04/29/2018	2:00 AM	3.1	ENE
04/29/2018	3:00 AM	2.7	E
04/29/2018	4:00 AM	2.7	E
04/29/2018	5:00 AM	2.2	E
04/29/2018	6:00 AM	2.7	E
04/29/2018	7:00 AM	2.7	E
04/29/2018	8:00 AM	3.6	ENE
04/29/2018	9:00 AM	4.9	E
04/29/2018	10:00 AM	4.5	E
04/29/2018	11:00 AM	4	SSE
04/29/2018	12:00 PM	3.6	SE
04/29/2018	1:00 PM	3.6	SSE
04/29/2018	2:00 PM	3.6	E
04/29/2018	3:00 PM	2.7	SSE
04/29/2018	4:00 PM	2.7	SSE
04/29/2018	5:00 PM	1.8	NW
04/29/2018	6:00 PM	1.8	ENE
04/29/2018	7:00 PM	1.3	ENE
04/29/2018	8:00 PM	0.9	E
04/29/2018	9:00 PM	0.9	E
04/29/2018	10:00 PM	0.9	E
04/29/2018	11:00 PM	1.8	SSE
04/30/2018	12:00 AM	2.7	E
04/30/2018	1:00 AM	3.1	E
04/30/2018	2:00 AM	3.6	SSE
04/30/2018	3:00 AM	2.7	SSE
04/30/2018	4:00 AM	1.3	SSE
04/30/2018	5:00 AM	0.9	ESE
04/30/2018	6:00 AM	0.4	NNW
04/30/2018	7:00 AM	0.4	SSE
04/30/2018	8:00 AM	0.9	E
04/30/2018	9:00 AM	0.9	WNW
04/30/2018	10:00 AM	1.8	SSE

04/30/2018	11:00 AM	1.3	SSE
04/30/2018	12:00 PM	1.8	S
04/30/2018	1:00 PM	1.3	ENE
04/30/2018	2:00 PM	1.8	E
04/30/2018	3:00 PM	1.8	S
04/30/2018	4:00 PM	2.7	NW
04/30/2018	5:00 PM	1.8	NW
04/30/2018	6:00 PM	1.3	NW
04/30/2018	7:00 PM	1.3	ENE
04/30/2018	8:00 PM	0.9	NW
04/30/2018	9:00 PM	1.8	E
04/30/2018	10:00 PM	2.2	E
04/30/2018	11:00 PM	2.7	E



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX G

Calibration Certificates

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-001
 Serial No.: 934393
 Sensitivity Adjustment Scale Setting : 640 CPM

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : Dragonair Building
 Model No.: TE-5170 Total Suspended Particulate
 Serial No.: S/N3693
 Previous Calibration Date 24/08/2017

Calibration Result

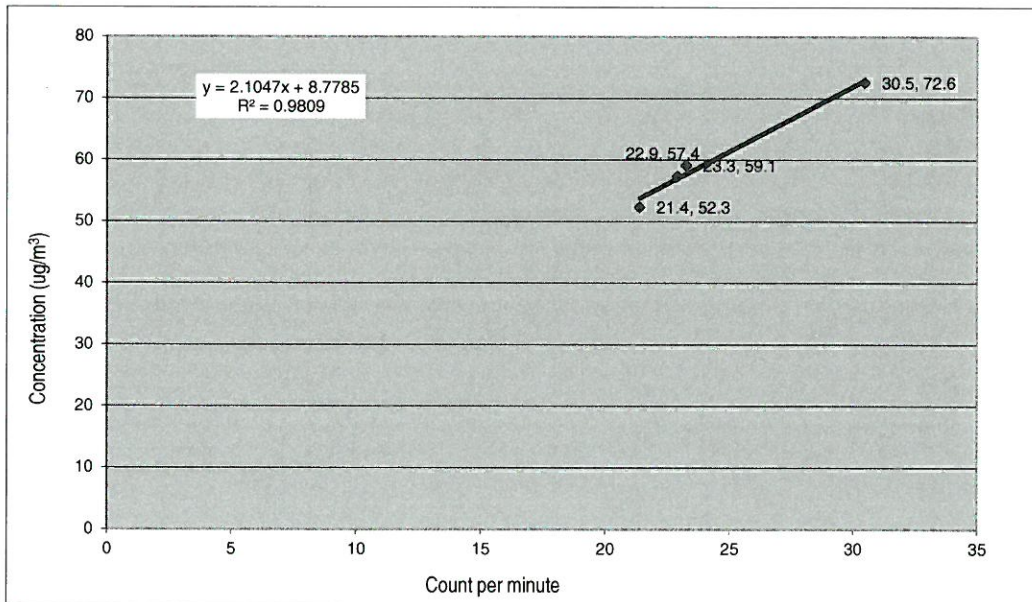
Sensitivity Adjustment Scale Setting (Before Calibration) : 640 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 640 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	11-Oct-17	13:00	14:00	34	45%	72.6	1829	30.5
2	11-Oct-17	14:08	15:08	34	45%	59.1	1395	23.3
3	11-Oct-17	15:13	16:13	34	45%	52.3	1283	21.4
4	11-Oct-17	16:20	17:20	34	45%	57.4	1374	22.9

Be Linear Regression of Y or X

Slope (K-factor): 2.1047 Intercept, b: 8.778
 Correlation coefficient : 0.9904

Remark: _____



Recorded by: William Chan

Signature: 

Date: 23/10/2017

Checked by: Keith Chau

Signature: 

Date: 23/10/2017

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-002
 Serial No.: 974350
 Sensitivity Adjustment Scale Setting : 622 CPM

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : Dragonair Building
 Model No.: TE-5170 Total Suspended Particulate
 Serial No.: S/N3693

Previous Calibration Date 24/08/2017

Calibration Result

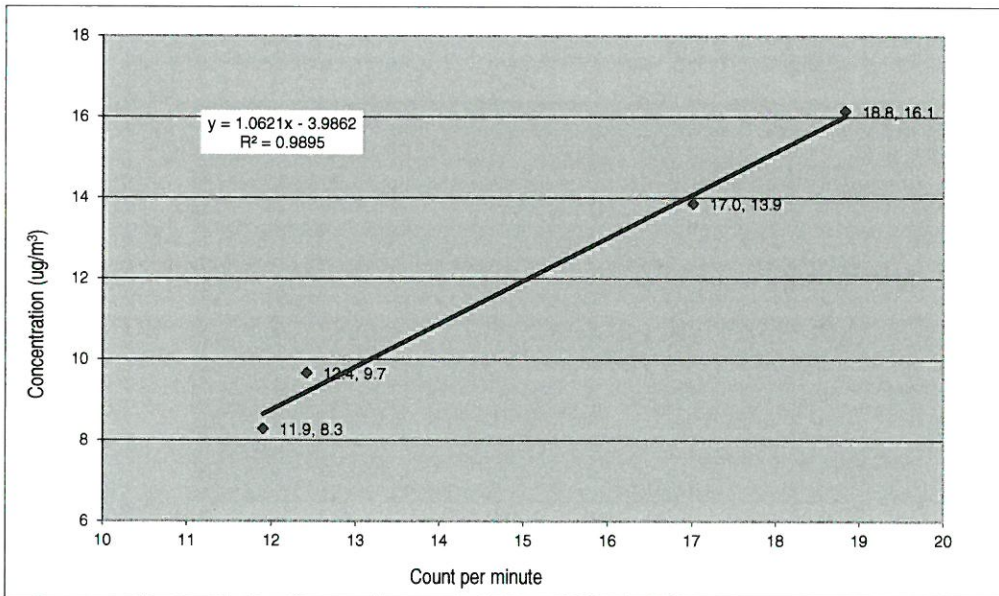
Sensitivity Adjustment Scale Setting (Before Calibration) : 622
 Sensitivity Adjustment Scale Setting (After Calibration) : 622

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	11-Sep-17	13:51	14:51	33	60%	9.7	745	12.42
2	11-Sep-17	15:01	16:01	33	60%	8.3	714	11.90
3	11-Sep-17	16:05	17:05	33	60%	13.9	1021	17.02
4	11-Sep-17	17:05	18:05	33	60%	16.1	1130	18.83

Be Linear Regression of Y or X

Slope (K-factor): 1.062 Intercept,b: -3.986
 Correlation coefficient (R): 0.9947

Remark: _____



Recorded by: William Chan

Signature: 

Date: 20/10/2017

Checked by: Keith Chau

Signature: 

Date: 20/10/2017

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-003
 Serial No.: 276018
 Sensitivity Adjustment Scale Setting : 799 CPM

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : Dragonair Building
 Model No.: TE-5170 Total Suspended Particulate
 Serial No.: S/N3693

Previous Calibration Date 24/08/2017

Calibration Result

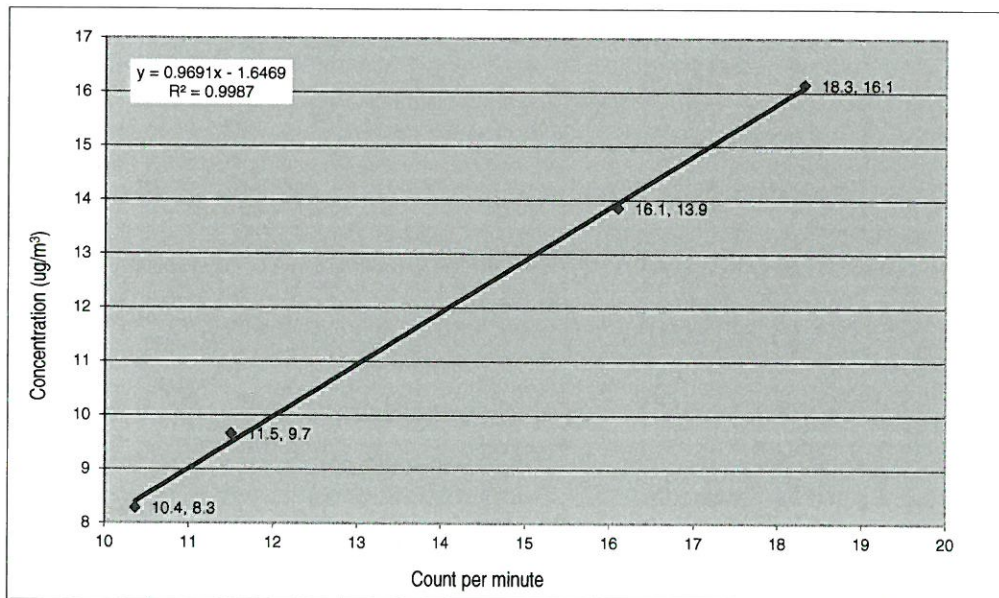
Sensitivity Adjustment Scale Setting (Before Calibration) : 799 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 800 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	11-Sep-17	13:51	14:51	33	60%	9.7	690	11.50
2	11-Sep-17	15:01	16:01	33	60%	8.3	622	10.37
3	11-Sep-17	16:05	17:05	33	60%	13.9	966	16.10
4	11-Sep-17	17:05	18:05	33	60%	16.1	1099	18.32

Be Linear Regression of Y or X

Slope (K-factor): 0.9691 Intercept,b: -1.6469
 Correlation coefficient (R): 0.9993

Remark: _____



Recorded by: William Chan

Signature: 

Date: 20/10/2017

Checked by: Keith Chau

Signature: 

Date: 20/10/2017

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS2(Tung Chung Development Pier)
Calibrated by : K.F.Ho
Date : 16/03/2018

Sampler

Model : TE-5170
Serial Number : S/N3641

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1015
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	12.0	3.473	1.684	57	57.15
2 13 holes	9.2	3.041	1.477	52	52.14
3 10 holes	7.2	2.690	1.308	47	47.13
4 7 holes	4.5	2.127	1.038	40	40.11
5 5 holes	2.8	1.678	0.823	33	33.09

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 27.845 Intercept(b): 10.675 Correlation Coefficient(r): 0.9989

Checked by: Magnum Fan

Date: 20/03/2018

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AECOM Office
Calibrated by : P.F.Yeung
Date : 04/04/2018

Sampler

Model : TE-5170
Serial Number : S/N2100

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 19 Mar 2018
Slope (m) : 2.05242
Intercept (b) : -0.01383
Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.4	3.379	1.653	53	53.04
2 13 holes	8.8	2.969	1.453	48	48.03
3 10 holes	7.2	2.685	1.315	44	44.03
4 7 holes	4.5	2.123	1.041	38	38.03
5 5 holes	3.0	1.733	0.851	32	32.02

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 25.745 Intercept(b): 10.522 Correlation Coefficient(r):
0.9985

Checked by: Magnum Fan

Date: 07/04/2018

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS7B (3RS Site Office)
Calibrated by : P.F.Yeung
Date : 06/02/2018

Sampler

Model : TE-5170
Serial Number : S/N3575

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1020
Ta(K) : 285

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	12.0	3.554	1.723	56	57.46
2 13 holes	9.5	3.163	1.535	51	52.33
3 10 holes	7.0	2.715	1.320	45	46.17
4 7 holes	4.7	2.224	1.085	38	38.99
5 5 holes	2.8	1.717	0.841	32	32.83

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 28.279 Intercept(b): 8.776 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 12/02/2018

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS7B 3RS (Site Office)
Calibrated by : P.F.Yeung
Date : 04/04/2018

Sampler

Model : TE-5170
Serial Number : S/N3575

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 19 Mar 2018
Slope (m) : 2.05242
Intercept (b) : -0.01383
Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	9.60	3.101	1.517	48	48.03
2 13 holes	7.60	2.759	1.351	43	43.03
3 10 holes	5.20	2.282	1.119	38	38.03
4 7 holes	3.80	1.951	0.957	33	33.02
5 5 holes	2.60	1.614	0.793	28	28.02

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 27.039 Intercept(b): 7.002 Correlation Coefficient(r):
0.9979

Checked by: Magnum Fan

Date: 07/04/2018



Certificate of Calibration 校正證書

Certificate No. : C173906
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606)

Date of Receipt / 收件日期 : 11 July 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3004068
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check


DATE OF TEST / 測試日期 : 17 July 2017


TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試 : K C Lee
Engineer

Certified By : 
核證 : H C Chan
Engineer

Date of Issue : 17 July 2017
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C173906

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C173864
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。



Certificate of Calibration

校正證書

Certificate No. : C172617
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1041)

Date of Receipt / 收件日期 : 9 May 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3003246
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 16 May 2017


TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

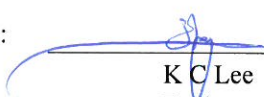
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By
測試



H T Wong
Technical Officer

Certified By
核證



K C Lee
Engineer

Date of Issue
簽發日期

16 May 2017

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C172617
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606)

Date of Receipt / 收件日期 : 11 July 2017

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2800932
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2017

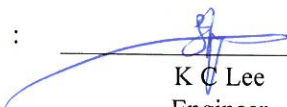
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

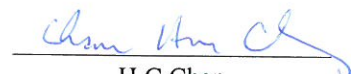
The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By
測試


K C Lee
Engineer

Certified By
核證


H C Chan
Engineer

Date of Issue
簽發日期

17 July 2017

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C173907

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration using the B & K Acoustic Calibrator 4231, S/N : 3004068 was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C170048
CL281	Multifunction Acoustic Calibrator	PA160023

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level :

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 1.1

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

- 6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
	L _{ASP}		S			94.1	± 0.3

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2696

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (Db)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2793199

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C174926
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1938)

Date of Receipt / 收件日期 : 18 August 2017

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2808432
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 30 August 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).


The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By
測試


K C Lee
Engineer

Certified By
核證


H C Chan
Engineer

Date of Issue
簽發日期

31 August 2017

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C174926
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.3.2.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C170048
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level :

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1

6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C174926
證書編號

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
	L _{ASP}		S			94.1	± 0.3

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	63 Hz	68.0	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	63 Hz	93.4	-0.8 ± 1.5
					125 Hz	94.0	-0.2 ± 1.5
					250 Hz	94.1	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.9	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。



Certificate of Calibration

校正證書

Certificate No. : C174926
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 292904

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載按正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040201
Date of Issue : 04 May 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin,
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17H105557
Date of Received : Apr 30, 2018
Date of Calibration : Apr 30, 2018 to Apr 30, 2018
Date of Next Calibration^(a) : Jul 30, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13.0	13.2	0.2	Satisfactory
25.0	25.2	0.2	Satisfactory
38.0	38.1	0.1	Satisfactory

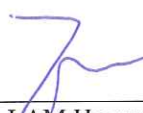
Tolerance limit of temperature should be less than ± 2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


LAM Ho-yee, Emma
Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040201
Date of Issue : 04 May 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.14	0.14	Satisfactory
2.56	2.64	0.08	Satisfactory
4.72	4.66	-0.06	Satisfactory
6.76	6.67	-0.09	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	150.1	2.2	Satisfactory
0.01	1412	1439	1.9	Satisfactory
0.1	12890	12876	-0.1	Satisfactory
0.5	58670	57766	-1.5	Satisfactory
1.0	111900	108629	-2.9	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.9	-1.0	Satisfactory
20	20.34	1.7	Satisfactory
30	30.54	1.8	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	10.2	2.0	Satisfactory
20	19.6	-2.0	Satisfactory
100	103	3.0	Satisfactory
800	808.3	1.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030026
 Date of Issue : 09 March 2018
 Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
 Rm 811, Hin Pui House,
 Hin Keng Estate, Tai Wai
 New Territories, Hong Kong
 Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI 6920 v2 (Multi-Parameters)
 Manufacturer : YSI (a xylem brand)
 Serial Number : 0001C6A7
 Date of Received : Mar 02, 2018
 Date of Calibration : Mar 02, 2018 to Mar 02, 2018
 Date of Next Calibration^(a) : Jun 02, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.95	-0.05	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	10.06	+0.05	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
18.0	17.9	-0.1	Satisfactory
22.0	21.9	-0.1	Satisfactory
36.0	35.9	-0.1	Satisfactory


Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- ^(b) The results relate only to the calibrated equipment as received
- ^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- ^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


 LAM Ho-yee, Emma
 Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030026
Date of Issue : 09 March 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.13	+0.13	Satisfactory
2.44	2.40	-0.04	Satisfactory
5.84	5.77	-0.07	Satisfactory
7.06	6.99	-0.07	Satisfactory
8.53	8.50	-0.03	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	143.2	-2.5	Satisfactory
0.01	1412	1429	+1.2	Satisfactory
0.1	12890	12730	-1.2	Satisfactory
0.5	58670	58276	-0.7	Satisfactory
1.0	111900	109414	-2.2	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.97	-0.3	Satisfactory
20	19.89	-0.5	Satisfactory
30	29.84	-0.5	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	9.5	-0.5	Satisfactory
20	19.4	-3.0	Satisfactory
100	94.7	-5.3	Satisfactory
800	779	-2.6	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040199
Date of Issue : 04 May 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin,
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 15M100005
Date of Received : Apr 30, 2018
Date of Calibration : Apr 30, 2018 to Apr 30, 2018
Date of Next Calibration^(a) : Jul 30, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.07	0.07	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.08	0.07	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13.0	13.1	0.1	Satisfactory
25.0	25.2	0.2	Satisfactory
38.0	37.9	-0.1	Satisfactory


Tolerance limit of temperature should be less than ± 2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


LAM Ho-ye, Emma
Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040199
Date of Issue : 04 May 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.08	0.08	Satisfactory
2.56	2.63	0.07	Satisfactory
4.72	4.64	-0.08	Satisfactory
6.76	6.66	-0.10	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	151.6	3.2	Satisfactory
0.01	1412	1429	1.2	Satisfactory
0.1	12890	12834	-0.4	Satisfactory
0.5	58670	57932	-1.3	Satisfactory
1.0	111900	108516	-3.0	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.92	-0.8	Satisfactory
20	20.28	1.4	Satisfactory
30	30.61	2.0	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	10.2	2.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	107.2	7.2	Satisfactory
800	807.6	1.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030201
 Date of Issue : 03 April 2018
 Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
 Rm 811, Hin Pui House,
 Hin Keng Estate, Tai Wai
 New Territories, Hong Kong
 Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
 Manufacturer : YSI (a xylem brand)
 Serial Number : 16H104233
 Date of Received : Mar 27, 2018
 Date of Calibration : Mar 27, 2018 to Mar 27, 2018
 Date of Next Calibration^(a) : May 27, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.98	-0.02	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	9.96	-0.05	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
16.5	16.3	-0.2	Satisfactory
26.5	26.4	-0.1	Satisfactory
34.0	33.9	-0.1	Satisfactory


Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- ^(b) The results relate only to the calibrated equipment as received
- ^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- ^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


 LAM Ho-ye, Emma
 Assistant Laboratory Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030201
Date of Issue : 03 April 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.13	+0.13	Satisfactory
4.39	4.29	-0.10	Satisfactory
5.84	5.74	-0.10	Satisfactory
7.31	7.27	-0.04	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	150.8	+2.7	Satisfactory
0.01	1412	1442	+2.1	Satisfactory
0.1	12890	12708	-1.4	Satisfactory
0.5	58670	58072	-1.0	Satisfactory
1.0	111900	107309	-4.1	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.15	+1.5	Satisfactory
20	20.19	+1.0	Satisfactory
30	30.09	+0.3	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	9.5	-5.0	Satisfactory
20	19.4	-3.0	Satisfactory
100	97.2	-2.8	Satisfactory
800	781	-2.4	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040200
Date of Issue : 04 May 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin,
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 16H104234
Date of Received : Apr 30, 2018
Date of Calibration : Apr 30, 2018 to Apr 30, 2018
Date of Next Calibration^(a) : Jul 30, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.05	0.05	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.08	0.07	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13.0	13.1	0.1	Satisfactory
25.0	25.1	0.1	Satisfactory
38.0	38.3	0.3	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

LAM Ho-ye, Emma
Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040200
Date of Issue : 04 May 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.11	0.11	Satisfactory
2.56	2.68	0.12	Satisfactory
4.72	4.69	-0.03	Satisfactory
6.76	6.7	-0.06	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	143.2	-2.5	Satisfactory
0.01	1412	1437	1.8	Satisfactory
0.1	12890	12840	-0.4	Satisfactory
0.5	58670	57789	-1.5	Satisfactory
1.0	111900	108344	-3.2	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.87	-1.3	Satisfactory
20	20.23	1.2	Satisfactory
30	30.60	2.0	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	10.1	1.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	103.4	3.4	Satisfactory
800	813.2	1.7	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030200
Date of Issue : 03 April 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Rm 811, Hin Pui House,
Hin Keng Estate, Tai Wai
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17E100747
Date of Received : Mar 27, 2018
Date of Calibration : Mar 27, 2018 to Mar 27, 2018
Date of Next Calibration^(a) : May 27, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	+0.04	Satisfactory
7.42	7.44	+0.02	Satisfactory
10.01	10.09	+0.08	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
16.5	16.3	-0.2	Satisfactory
26.5	26.3	-0.2	Satisfactory
34.0	33.8	-0.2	Satisfactory

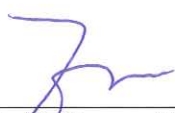
Tolerance limit of temperature should be less than ± 2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


LAM Ho-ye, Emma
Assistant Laboratory Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030200
Date of Issue : 03 April 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.16	+0.16	Satisfactory
4.39	4.31	-0.08	Satisfactory
5.84	5.76	-0.08	Satisfactory
7.31	7.25	-0.06	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	151.8	+3.3	Satisfactory
0.01	1412	1398	-1.0	Satisfactory
0.1	12890	12690	-1.6	Satisfactory
0.5	58670	58110	-1.0	Satisfactory
1.0	111900	107658	-3.8	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.13	+1.3	Satisfactory
20	20.11	+0.5	Satisfactory
30	30.12	+0.4	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	9.8	-2.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	95.7	-4.3	Satisfactory
800	787	-1.6	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040201
Date of Issue : 04 May 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin,
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17H105557
Date of Received : Apr 30, 2018
Date of Calibration : Apr 30, 2018 to Apr 30, 2018
Date of Next Calibration^(a) : Jul 30, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13.0	13.2	0.2	Satisfactory
25.0	25.2	0.2	Satisfactory
38.0	38.1	0.1	Satisfactory

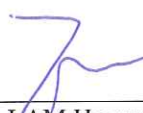
Tolerance limit of temperature should be less than ± 2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


LAM Ho-ye, Emma
Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH040201
Date of Issue : 04 May 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.14	0.14	Satisfactory
2.56	2.64	0.08	Satisfactory
4.72	4.66	-0.06	Satisfactory
6.76	6.67	-0.09	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	150.1	2.2	Satisfactory
0.01	1412	1439	1.9	Satisfactory
0.1	12890	12876	-0.1	Satisfactory
0.5	58670	57766	-1.5	Satisfactory
1.0	111900	108629	-2.9	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.9	-1.0	Satisfactory
20	20.34	1.7	Satisfactory
30	30.54	1.8	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	10.2	2.0	Satisfactory
20	19.6	-2.0	Satisfactory
100	103	3.0	Satisfactory
800	808.3	1.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030026
 Date of Issue : 09 March 2018
 Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
 Rm 811, Hin Pui House,
 Hin Keng Estate, Tai Wai
 New Territories, Hong Kong
 Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment : YSI 6920 v2 (Multi-Parameters)
 Manufacturer : YSI (a xylem brand)
 Serial Number : 0001C6A7
 Date of Received : Mar 02, 2018
 Date of Calibration : Mar 02, 2018 to Mar 02, 2018
 Date of Next Calibration^(a) : Jun 02, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.95	-0.05	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	10.06	+0.05	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
18.0	17.9	-0.1	Satisfactory
22.0	21.9	-0.1	Satisfactory
36.0	35.9	-0.1	Satisfactory


Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- ^(b) The results relate only to the calibrated equipment as received
- ^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- ^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


 LAM Ho-yee, Emma
 Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH030026
Date of Issue : 09 March 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.13	+0.13	Satisfactory
2.44	2.40	-0.04	Satisfactory
5.84	5.77	-0.07	Satisfactory
7.06	6.99	-0.07	Satisfactory
8.53	8.50	-0.03	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	143.2	-2.5	Satisfactory
0.01	1412	1429	+1.2	Satisfactory
0.1	12890	12730	-1.2	Satisfactory
0.5	58670	58276	-0.7	Satisfactory
1.0	111900	109414	-2.2	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.97	-0.3	Satisfactory
20	19.89	-0.5	Satisfactory
30	29.84	-0.5	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	--
10	9.5	-0.5	Satisfactory
20	19.4	-3.0	Satisfactory
100	94.7	-5.3	Satisfactory
800	779	-2.6	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX H

Event and Action Plan

Event/Action Plan for Air Quality Monitoring

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

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
LIMIT LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Construction Noise Monitoring

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

Event / Action Plan for Water Quality Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and ER; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Repeat measurement on next day of exceedance to confirm findings. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working methods; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Discuss with IEC on the proposed mitigation measures; 3. Make agreement on mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented. 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER; 5. Implement the agreed mitigation measures. 6. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, Contractor and ER; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Action level; 8. Repeat measurement on next day of exceedance to confirm findings. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Discuss with IEC on the proposed mitigation measures; 3. Make agreement on mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; 5. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification; 5. Implement the agreed mitigation measures; 6. Amend working methods if appropriate.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat <i>in-situ</i> measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, Contractor, ER and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 4. Ensure mitigation measures are properly implemented; 5. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; 5. Implement the agreed mitigation measures; 6. Amend working methods if appropriate.
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat <i>in-situ</i> measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, ER and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 4. Make agreement on the mitigation measures to be implemented; 5. Ensure mitigation measures are properly implemented; 6. Assess the effectiveness of the implemented mitigation measures; 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Take immediate action to avoid further exceedance; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; 6. Implement the agreed mitigation measures; 7. Resubmit proposals of mitigation measures if problem still not under control; 8. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Event / Action Plan for Dolphin Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX I

Waste Flow Table

Monthly Summary Waste Flow Table for 2018



Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete (see Note 9)	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill (see Note 10)	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	1.836	1.836	0.000	0.000	1.836	0.000	437.360	1.922	0.000	0.000	0.912
February	0.648	0.648	0.000	0.000	0.648	0.000	0.000	0.000	0.000	0.000	1.124
March	2.590	2.590	0.000	0.000	2.590	0.000	0.000	1.785	0.000	0.000	1.661
April	0.355	0.355	0.000	0.000	0.355	0.000	0.000	1.630	0.000	0.000	1.067
May											
June											
Sub-total	5.429	5.429	0.000	0.000	5.429	0.000	437.360	5.337	0.000	0.000	4.764
July											
August											
September											
October											
November											
December											
Total	5.429	5.429	0.000	0.000	5.429	0.000	437.360	5.337	0.000	0.000	4.764

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

% of recycled C&D waste = (Total C&D waste generated - Total C&D waste recycled) / Total C&D waste generated

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

- 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 50,000m³.
- (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/m³; soil = 2.0 tonnes/m³
 excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³
 C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³
 Diesel density: 0.8kg/l
- (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

ATAL Technologies Ltd.

Contract No. **HY/2013/06** HKBCF Automatic Vehicle Clearance Support System

Location: Artificial Island of HKBCF (C1 Area)

Monthly Summary Waste Flow Table for 2018

Month	Inert C&D Waste disposal / 墮性廢物 (in tonnes) (see Note 1)						Non-inert C&D Waste disposal 非墮性廢物 (in tonnes)		Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量	
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 墮性廢物 (如泥, 石, 磚, 瓦, 填土等)		Others (e.g. general refuse, broken formwork etc.) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物			
	(b)		(c)		(d)		(e)		(in tonnes)		(in tonnes)		(in tonnes)		(in litre)		(a)= (b+c+d+e)	
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
March	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
April	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
May																		
June																		
July																		
August																		
September																		
October																		
November																		
December																		
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX J

Environmental Licenses and Permits

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
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	Superseded by EP-353/2009/H
2.	All Areas	16 Jan 15	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/H	19 Jan 15	N/A	EPD	Superseded by EP-353/2009/I
3.	All Areas	30 Jun 15	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/I	17 Jul 15	N/A	EPD	Superseded by EP-353/2009/J
4.	All Areas	18 Feb 2016	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/J	25 Feb 2016	N/A	EPD	Superseded by EP-353/2009/K

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
5.	All Areas	24 Mar 2016	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/K	11 Apr 2016	N/A	EPD	
6.	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	
7.	PCB	30 Apr 14	H2620-LTR- EPD-000002	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373961	05 May 14	N/A	EPD	
8.	WA2	30 Apr 14	H2620-LTR- EPD-000003	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373956	05 May 14	N/A	EPD	
9.	WA3	30 Apr 14	H2620-LTR-EPD-AU-000001	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373962	05 May 14	N/A	EPD	

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018								Remark	
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date		Issuing Office
	Work Area	Date	Reference						
10.	PCB	30 May 14	H2620-LTR-EPD-AU-000020	Registration as Chemical Waste Producer for disposal of spent batteries, used lubrication oil and surplus paint at PCB area	WPN: 5213-951-L2846-01	08 Jul 14	N/A	EPD	
11.	PCB	23 Jun 14	In H2620-LTR-EPD-000017	CNP 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
12.	WA2	02 Jul 14	H2620-LTR-LCJ-AU-000280	CNP 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
13.	WA3	02 Jul 14	H2620-LTR-LCJ-AU-000324	CNP 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	Expired

Environmental License/ Permits /Notification Register

LCAL H2620

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

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
14.	PCB	23 Jun 14	H2620-LTR- EPD-000527	CNP 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
15.	PCB	29 Sep 14	H2620-LTR-EPD-AU-000034	CNP 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
16.	WA2	12 Sep 14	H2620-LTR-EPD-AU-000032	CNP 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	Expired
17.	WA4	17 Oct 14	H2620-LTR-EPD-AU-000036	CNP 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	Expired and replaced by GW-RW0171-15

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018								Remark	
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date		Issuing Office
	Work Area	Date	Reference						
18.	PCB	03 Nov 14	H2620-LTR-EPD-AU-000040	CNP 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	Superseded by GW-RS0087-15
19.	PCB	12 Jan 15	H2620-LTR-EPD-AU-000046	CNP 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-RS0087-15	26 Jan 15	25 Apr 15	EPD	Superseded by GW-RS0308-15
20.	PCB	12 Mar 15	H2620-LTR-EPD-AU-000051	CNP 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-RS0308-15	26 Mar 15	25 Jun 15	EPD	Superseded by GW-RS0476-15
21.	PCB	31 Jul 14	H2620-LTR-EPD-AU-000038	Water Discharge License for construction works on PCB island	WT00020335-2014	13 Nov 14	30 Nov 19	EPD	

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
22.	WA4	27 Mar 15	H2620-LTR-EPD-AU-000054	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0171-15	20 Apr 15	19 Oct 15	EPD	Superseded by GW-RW0351-15
23.	PCB	15 Apr 15	H2620-LTR-EPD-AU-000057	CNP 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-RS0476-15	01 May 15	31 Jul 15	EPD	Superseded by GW-RS0685-15
24.	PCB	09 Jun 15	H2620-LTR-EPD-AU-000063	CNP 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-RS0685-15	01 Jul 15	30 Sep 15	EPD	Superseded by GW-RS0877-15
25.	WA4	29 Jun 15	H2620-LTR-EPD-AU-000066	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0351-15	17 Jul 15	12 Jan 16	EPD	Expired. Replaced by GW-RW0003-16

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
26.	PCB	27 Jul 15	H2620-LTR-EPD-AU-000069	CNP 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-RS0877-15	10 Aug 15	09 Nov 15	EPD	Superseded by GW-RS1016-15
27.	PCB	02 Sep 15	H2620-LTR-EPD-AU-000072	CNP 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-RS1016-15	18 Sep 15	17 Dec 15	EPD	Superseded by GW-RS1195-15
28.	PCB	22 Oct 15	H2620-LTR-EPD-AU-000075	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1195-15	9 Nov 15	8 Feb 16	EPD	Superseded by GW-RS1444-15
29.	PCB	17 Dec 15	H2620-LTR-EPD-AU-000076	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1444-15	31 Dec 15	30 Mar 16	EPD	Superseded by GW-RW0191-16

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
30.	WA4	24 Dec 15	H2620-LTR-EPD-AU-000080	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0003-16	13 Jan 16	06 Jul 16	EPD	Superseded by GW-RW0394-16
31.	PCB	17 Feb 16	H2620-LTR-EPD-AU-000083	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0191-16	3 Mar 16	2 Jun 16	EPD	Superseded by GW-RW0543-16
32.	PCB	18 May 16	H2620-LTR-EPD-AU-000086	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0543-16	2 Jun 16	1 Sep 16	EPD	Superseded by GW-RS0879-16
33.	WA4	20 Jun 16	H2620-LTR-EPD-AU-000089	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0394-16	07 Jul 16	06 Jan 17	EPD	Superseded by GW-RW0742-16

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018									
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
34.	PCB	09 Aug 16	H2620-LTR-EPD-AU-000092	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0879-16	23 Aug 16	22 Dec 16	EPD	Superseded by GW-RS1193-16
35.	PCB	16 Nov 16	H2620-LTR-EPD-AU-000094	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1193-16	30 Nov 16	29 May 17	EPD	Superseded by GW-RS0005-17
36.	WA4	17 Dec 16	H2620-LTR-EPD-AU-000100	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0742-16	07 Jan 17	06 Jul 17	EPD	Superseded by GW-RW0341-17
37.	PCB	19 Dec 16	H2620-LTR-EPD-AU-000103	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0005-17	6 Jan 17	5 Jul 17	EPD	Superseded by GW-RS0461-17

Environmental License/ Permits /Notification Register

LCAL H2620

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

Date: April 2018								Remark	
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date		Issuing Office
	Work Area	Date	Reference						
38.	WA3	30 Dec 16	H2620-LTR-EPD-AU-000102	CNP 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-RS0015-17	12 Jan 17	11 Jul 17	EPD	Superseded by GW-RS0587-17
39.	PCB	12 May 17	H2620-LTR-EPD-AU-000106	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0461-17	25 May 17	24 Nov 17	EPD	Superseded by GW-RS0998-17
40.	WA3	22 Jun 17	H2620-LTR-EPD-AU-000113	CNP 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-RS0587-17	12 Jul 17	11 Jan 18	EPD	Expired and replaced by GW-RS1201-17
41.	WA4	19 Jun 17	H2620-LTR-EPD-AU-000112	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0341-17	10 Jul 17	6 Jan 18	EPD	Expired and replaced by GW-RW0005-18

Environmental License/ Permits /Notification Register

LCAL H2620

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

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
42.	PCB	20 Oct 17	H2620-LTR-EPD-AU-000117	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0998-17	15 Nov 17	12 May 18	EPD	-
43.	WA3	20 Dec 17	H2620-LTR-EPD-AU-000119	CNP 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-RS1201-17	12 Jan 18	11 Jul 18	EPD	-
44.	WA4	20 Dec 17	H2620-LTR-EPD-AU-000118	CNP for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0005-18	07 Jan 18	06 Jul 18	EPD	-

Environmental License/ Permits /Notification Register

LCAL H2642

Contract No. HY/2013/06 – Hong Kong Zhuhai and Macao Bridge - HKBCF – Automatic Vehicle Clearance Support System

Date: 30 April 2018									Remark
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	
	Work Area	Date	Reference						
1	HZMB-HK Boundary Crossing Facilities	31 July 2015	WFG14980	Disposal of Construction Waste Billing Account	7023015	20 August 2015	--	EPD	
2	HZMB-HK Boundary Crossing Facilities	14 Nov 2017	EP831/N09/R S1037-17	Construction Noise Permit	GW-RS1037-17	1 Dec 2017	30 May 2018	EPD	



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX K

Implementation Schedule for Environmental Mitigation Measures (EMIS)

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

Implementation Schedule for Environmental Mitigation Measures

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?	Implementation Status
Air Quality								
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, respectively)	√
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 	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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, 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?	Implementation Status
S5.5.6.2	A2	<ul style="list-style-type: none"> Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 	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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, respectively)	<p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p>
S5.5.6.4	A3	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	√
S5.5.6.5	A4	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	√

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?	Implementation Status
S5.5.6.5	A5	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	<ul style="list-style-type: none"> 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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, respectively) 	<p style="text-align: center;">√</p> (The dust monitoring works (Station AMS6) under EM&A programme for the Contract is covered by Contract No. HY/2011/03. Monitoring stations AMS2, AMS3B and AMS7B for the Contract are covered by Contract No. HY/2013/01)
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. 	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 style="list-style-type: none"> 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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, respectively) 	N/A
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points. 	Control construction dust	Contractor	All construction sites	Construction stage	Air Pollution Control (Construction Dust) Regulation	N/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?	Implementation Status
Construction Noise (Air borne)								
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	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	<ul style="list-style-type: none"> Noise Control Ordinance Annex 5, TM-EIA 	N/A
S6.4.12	N3	3) Install movable noise barriers (typically density @14kg/m ²), 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	<ul style="list-style-type: none"> 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) 	N/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?	Implementation Status
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Noise Control Ordinance Annex 5, TM-EIA 	√
S6.4.14	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	<ul style="list-style-type: none"> Noise Control Ordinance Annex 5, TM-EIA 75dB(A) for residential premises 	(ET of Contract No. HY/2013/01 is responsible conducting monitoring for entire HKBCF) √
Sediment								
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	<ul style="list-style-type: none"> Waste Disposal Ordinance ETW B TC 34/2002 	N/A
Waste Management (Construction Waste)								
S8.3.8	WM1	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and 	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 style="list-style-type: none"> Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETW BTC 19/2005 	√ √ √ √

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?	Implementation Status
S8.3.8	WM1	<ul style="list-style-type: none"> Implement an enhanced Waste Management Plan similar to ETW BTC (Works) No. 19/2005 – “Environmental Management on Construction Sites” to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation. 	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 style="list-style-type: none"> 	<p>√</p> <p>√</p>
S8.3.9- S8.3.11	WM2	<p><u>C&D Waste</u></p> <ul style="list-style-type: none"> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	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 style="list-style-type: none"> Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TC 19/2005 	<p>√</p> <p>√</p>
S8.2.12- S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly 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. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	<p>√</p> <p>√</p> <p>√</p>

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?	Implementation Status
S8.2.12- S8.3.15	WM3	<ul style="list-style-type: none"> 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. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage		√
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> 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. 	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> Waste Disposal Ordinance 	√
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> Waste Disposal 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?	Implementation Status
S.9.11.1.7	W1	<ul style="list-style-type: none"> The conveyor belts shall be fitted with windboards and conveyor release points shall be covered with curtain to prevent any spillage of filling materials onto the surrounding waters; and An additional layer of silt curtain shall be installed near the active stone column installation points. A layer of geotextile with stone blanket on top shall be placed on the seabed prior to stone column installation works. 	To control construction water quality	Contractor	During filling	Construction stage	TM-EIAO	<p>√</p> <p>√</p>
S.9.11.1.7	W2	<p><u>Land Works</u></p> <p>General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; 	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	<p>√</p>
S.9.11.1.7	W2	<ul style="list-style-type: none"> sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	<p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p>

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?	Implementation Status
S9.11.1.7	W2	<ul style="list-style-type: none"> all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	<ul style="list-style-type: none"> √ √ √ √ √ √ √ √
S.9.14	W3	<ul style="list-style-type: none"> Implement a water quality monitoring programme. 	To control water quality	Contractor	Selected representative water quality monitoring station	Construction stage	<ul style="list-style-type: none"> TM-EIAO Water Pollution Control Ordinance 	<ul style="list-style-type: none"> √ <p>(ET of ContractNo. HY/2013/01 is responsible conducting monitoring for entire HKBCF)</p>

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?	Implementation Status
Ecology (Construction Phase)								
S10.7	E1	<ul style="list-style-type: none"> Install silt curtain during the construction Limit works fronts Construct seawall prior to reclamation filling where practicable Good site practices Strict enforcement of no marine dumping Site runoff control Spill response plan 	Prevent Sedimentation from Land-based works areas	Contractor	Seawall, reclamation area	During construction	TM-Water	√ √ √ √ √ √
S10.7	E2	<ul style="list-style-type: none"> 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	E3	<ul style="list-style-type: none"> Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	TM-Water	√
S10.7	E4	<ul style="list-style-type: none"> Dolphin Exclusion Zone Dolphin Watching plan 	Minimise marine traffic disturbance on dolphins	Contractor	Marine Works	During construction	TM-Water	√ √
S10.7	E5	<ul style="list-style-type: none"> Decouple compressors and other equipment on working vessels Proposal on design and implementation of acoustic decoupling measures applied during reclamation works Avoidance of percussive piling 	Minimise marine traffic disturbance on dolphins	Contractor	Marine Works	During construction	TM-Water	√ √ √
S10.7	E6	<ul style="list-style-type: none"> Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction	TM-Water	√ √ √
S10.7	E7	<ul style="list-style-type: none"> Vessel based dolphin monitoring 	Minimise marine traffic disturbance on dolphins	Contractor	Northeast and Northwest Lantau	During construction	TM-Water	√ (ET of Contract No. HY/2013/01 is responsible conducting monitoring for entire HKBCF.)
Fisheries								
S11.7	F1	<ul style="list-style-type: none"> Reduce re-suspension of sediments Limit works fronts Good site practices Strict enforcement of no marine dumping Spill response plan 	Minimise impacts on marine water quality impacts	Marine Department	Seawall, reclamation area	During operation		√ √ √ √ √
S11.7	F2	<ul style="list-style-type: none"> Install silt-grease trap in the drainage system collecting surface runoff 	Minimise impacts on marine water quality impacts	Marine Department	Reclamation area	During operation		√

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?	Implementation Status
S11.7	F4	<ul style="list-style-type: none"> Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation		N/A
Landscape & Visual (Detailed Design Phase)								
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; Providing planting area around peripheral of HKBCF for tree planting screening effect; Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; 	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A
S14.3.3.1	LV1	<ul style="list-style-type: none"> For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/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?	Implementation Status
Landscape & Visual (Construction Phase)								
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <ul style="list-style-type: none"> Grass-hydroseed bare soil surface and stock pile areas. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. Not applicable as this is for HKLR. 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. Vegetation reinstatement and upgrading to disturbed areas Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed Providing planting area around peripheral of HKBCF for tree planting screening effect; Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline. 	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage		<p>N/A</p> <p>N/A</p> <p>√</p> <p>N/A</p> <p>√</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <ul style="list-style-type: none"> 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. 						<p>√</p> <p>√</p>
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		<ul style="list-style-type: none"> EIAO Guidance Note No.4/2002 TM-EIAO 	√

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?	Implementation Status
S15.5 - S15.6	EM2	<ul style="list-style-type: none"> An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Contractor	All construction sites		<ul style="list-style-type: none"> EIAO Guidance Note No.4/2002 TM-EIAO 	<p>√</p> <p>√</p> <p>√</p>

Legends: √ = Implemented; X = Not implemented; N/A = Not applicable



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX L

Statistics on Environmental Complaints, Notification of Summons and
Successful Prosecutions

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/01

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of contract to end of reporting month	10	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/01 works area

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



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX M

Environmental Site Inspection and Monitoring Schedule

**Contract No. HY/2013/01- HKBCF Passenger Clearance Building
Tentative Impact Environmental Monitoring Schedule for April 2018**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr
			AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr	AMS7B - 1 hour TSP AMS2 - 24 hour TSP AMS3B - 24 hour TSP NMS2		AMS7B - 1 hour TSP	
		Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
				Site Inspection			
Date	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr
		AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr	AMS2 - 24 hour TSP AMS3B - 24 hour TSP		AMS2 - 24 hour TSP AMS3B - 24 hour TSP NMS2 AMS7B - 1 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP AMS7B - 24hr	
		Water Quality Monitoring		Water Quality Monitoring Dolphin Monitoring		Water Quality Monitoring	
				Site Inspection			
Date	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
			NMS2	AMS2 - 24 hour TSP AMS3B - 24 hour TSP AMS7B - 1 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B		
		Water Quality Monitoring		Water Quality Monitoring Dolphin Monitoring ^(iv)		Water Quality Monitoring	
				Site Inspection			
Date	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
		AMS7B - 1 hour TSP AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP	AMS7B - 24hr ⁽ⁱⁱ⁾	NMS2 NMS3B ⁽ⁱ⁾	AMS7B - 1 hour TSP AMS2 - 24 hour TSP AMS3B - 24 hour TSP ⁽ⁱⁱⁱ⁾	
		Water Quality Monitoring	Dolphin Monitoring ^(iv)	Water Quality Monitoring	Dolphin Monitoring	Water Quality Monitoring	
				Site Inspection			
Date	29-Apr	30-Apr					
		AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr					
		Water Quality Monitoring					

Remark: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc).

(i) Noise monitoring on 24 April 2018 at NMS3B was rescheduled to 26 April 2018 due to raining.

(ii) Air quality monitoring on 19 April 2018 at AMS7B (3RS Site Office) was rescheduled to 25 April 2018 due to power supply failure. An email was sent to ENPO, ER and Contractor on 23 April 2018. The problem of electricity connection was found by a competent person and fixed on 25 April 2018. The high volume sampler was resumed normal on 25 April 2018.

(iii) Air quality monitoring on 27 April 2018 at AMS3B (Site Boundary of Site Office Area at Work Area WA2) was rescheduled to 4 May 2018 due to motor failure. An email was sent to ENPO, ER and Contractor on 30 April 2018. After checking and repair by a competent person, the high volume sampler was re-calibrated and resumed normal on 4 May 2018.

(iv) Dolphin monitoring on 16 and 23 April 2018 were rescheduled to 18 and 24 April 2018 respectively due to boat availability.

PCB

AMS2 - Tung Chung Development Pier
AMS3B - Site Boundary of ER's Site Office Area at WA2
AMS7B - 3RS site office (subject to EPD approval)
NMS2 - Seaview Crescent
NMS3B - Site Boundary of ER's Site Office Area at WA2

**Contract No. HY/2013/01- HKBCF Passenger Clearance Building
Tentative Impact Environmental Monitoring Schedule for May 2018**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date			1-May	2-May	3-May	4-May	5-May
				NMS2	AMS7B - 1 hour TSP AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP AMS7B - 24hr	
				Water Quality Monitoring	Dolphin Monitoring	Water Quality Monitoring	
				Site Inspection			
Date	6-May	7-May	8-May	9-May	10-May	11-May	12-May
		AMS7B - 1 hour TSP	NMS2	AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP AMS7B - 24hr NMS3B	AMS7B - 1 hour TSP	
		Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
				Site Inspection			
Date	13-May	14-May	15-May	16-May	17-May	18-May	19-May
		NMS2	AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr	AMS7B - 1 hour TSP		AMS2 - 24 hour TSP AMS3B - 24 hour TSP
	Water Quality Monitoring		Dolphin Monitoring	Water Quality Monitoring		Water Quality Monitoring	
				Site Inspection			
Date	20-May	21-May	22-May	23-May	24-May	25-May	26-May
		AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr		AMS7B - 1 hour TSP	NMS2 AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP AMS7B - 24hr	
		Water Quality Monitoring		Water Quality Monitoring	Dolphin Monitoring	Water Quality Monitoring	
				Site Inspection			
Date	27-May	28-May	29-May	30-May	31-May		
		AMS7B - 1 hour TSP	NMS2	AMS2 - 24 hour TSP AMS3B - 24 hour TSP	AMS2 - 1 hour TSP AMS3B - 1 hour TSP NMS3B AMS7B - 24hr		
		Water Quality Monitoring	Dolphin Monitoring	Water Quality Monitoring			
				Site Inspection			

Remark: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc).

PCB

AMS2 - Tung Chung Development Pier
AMS3B - Site Boundary of ER's Site Office Area at WA2
AMS7B - 3RS site office (subject to EPD approval)
NMS2 - Seaview Crescent
NMS3B - Site Boundary of ER's Site Office Area at WA2



路政署
HIGHWAYS DEPARTMENT

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

Contract No. HY/2013/01
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
43rd Monthly EM&A Report

APPENDIX N

Investigation Report

Hong Kong- Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts) Notifications of Environmental Quality Limits Exceedances							Notification No.: 20180402SS
Date of Notification: 18 April 2018				Date of Investigation Report: 25 April 2018			
Works Inspected: Data collected from water sampling works on 02 April 2018 and the results were issued on 18 April 2018							
Monitoring Location: Water Quality Monitoring Station							
Parameter: Dissolved Oxygen (DO) / Suspended Solid (SS) / Turbidity (TURB)							
Action & Limit Level (AL & LL) / Measured Level:							
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)	
SS	IS5	Depth Average	23.5 and 120% (i.e. 13.4 for mid-ebb/13.3 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 14.5 for mid-ebb/14.4 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	24.7	13.1	
Notes: AL means Action Level. LL means Limit Level. Bold means AL exceedances. Bold with underline means LL exceedances. Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA							

Possible reason for Action / Limit Level Non-compliance:

On 2 April 2018, one AL exceedance of SS at IS5 was recorded during mid-ebb tide.

Contract No.: HY/2013/01

As confirmed by the Contractor of Contract No.: HY/2013/01, there was no marine transportation and marine-based work on 2 April 2018. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Contract No.: HY/2013/02

As confirmed with RSS, it is concluded that the exceedances were not related to the Contract due to completion of marine works on 10 September 2017.

Contract No.: HY/2013/03

As confirmed with RSS of Contract No. HY/2013/03, there was no marine transportation on the date of exceedance. Regarding marine-based works in Box Culvert B, the work undertaken at the date of exceedance was preparation work of precast installation which had a cofferdam to separate seawater and works area. Silt curtain was also maintained to enclose the work area of the outlet of the box culvert fully. All sea water flows into the work area of box culvert B will be treated by desilting facilities before discharge in accordance with the discharge license approved by EPD for Contract No. HY/2013/03. For SS exceedance recorded at the WQM station IS5, the concerned WQM stations where the exceedances were recorded were not close to the marine works area of Contract No. HY/2013/03, while there was no notification of exceedance received at the WQM stations closer to the works areas, such as IS(Mf)11. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused SS exceedance recorded at the concerned WQM station during mid-ebb tide on 2 April 2018.

Contract No.: HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 2 April 2018.

While SS exceedance was recorded at IS5, no exceedance was recorded at IS(Mf)9 which is the nearest monitoring location to HY/2013/04 loading and unloading point and HY/2013/04 shoreline interfacing with open waters. Also, no SS exceedance at IS5 was observed during monitoring at the next tide (i.e. mid-ebb tide on the same day).

During ET's (Contract No.: HY/2013/04) regular weekly site inspection on 28 March 2018, HY/2013/04 site shoreline interfacing with open waters was inspected between 14:00 and 15:10. There were no observations referring to water quality mitigation measures associated with that shoreline.

During ET's (Contract No.: HY/2013/04) subsequent regular weekly site inspection on 4 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected between 14:20 and 14:35. There were no observations referring to water quality mitigation measures associated

It was concluded that the exceedance was not due to HY/2013/04.

Contract No.: HY/2014/05

There was no marine transportation and marine-based work under this contract. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Actions taken/ to be taken:

Contract No.: HY/2013/01

Actions were taken under action plan:

1. Not applicable as SS was not measured in situ;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the suspended solids exceedance was attributed to active construction activities of this Contract;
3. IEC, Contractor and ER were informed via email;
4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
5. Since it is considered that the suspended solids exceedance is unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.

However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Contract No.: HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2013/03


During weekly site audit on 22, 29 March, 6 and 12 April 2018, ET (Contract No.: HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures. ET (Contract No.: HY/2013/03) will take relevant photo records of the marine-based works for Contract No. HY/2013/03 via the on-going site inspections to support the necessary review of the effectiveness of site mitigation measures specific to the exceedance investigation.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2014/05

Although the exceedance was considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Checked by:	<u>Keith Chau</u>	Title:	<u>Environmental Team Leader (Contract No. HY/2013/01)</u>
Signature:	<u></u>	Date:	<u>25 April 2018</u>
Copied to	: Contractor, Engineer Representative and IEC/ENPO		

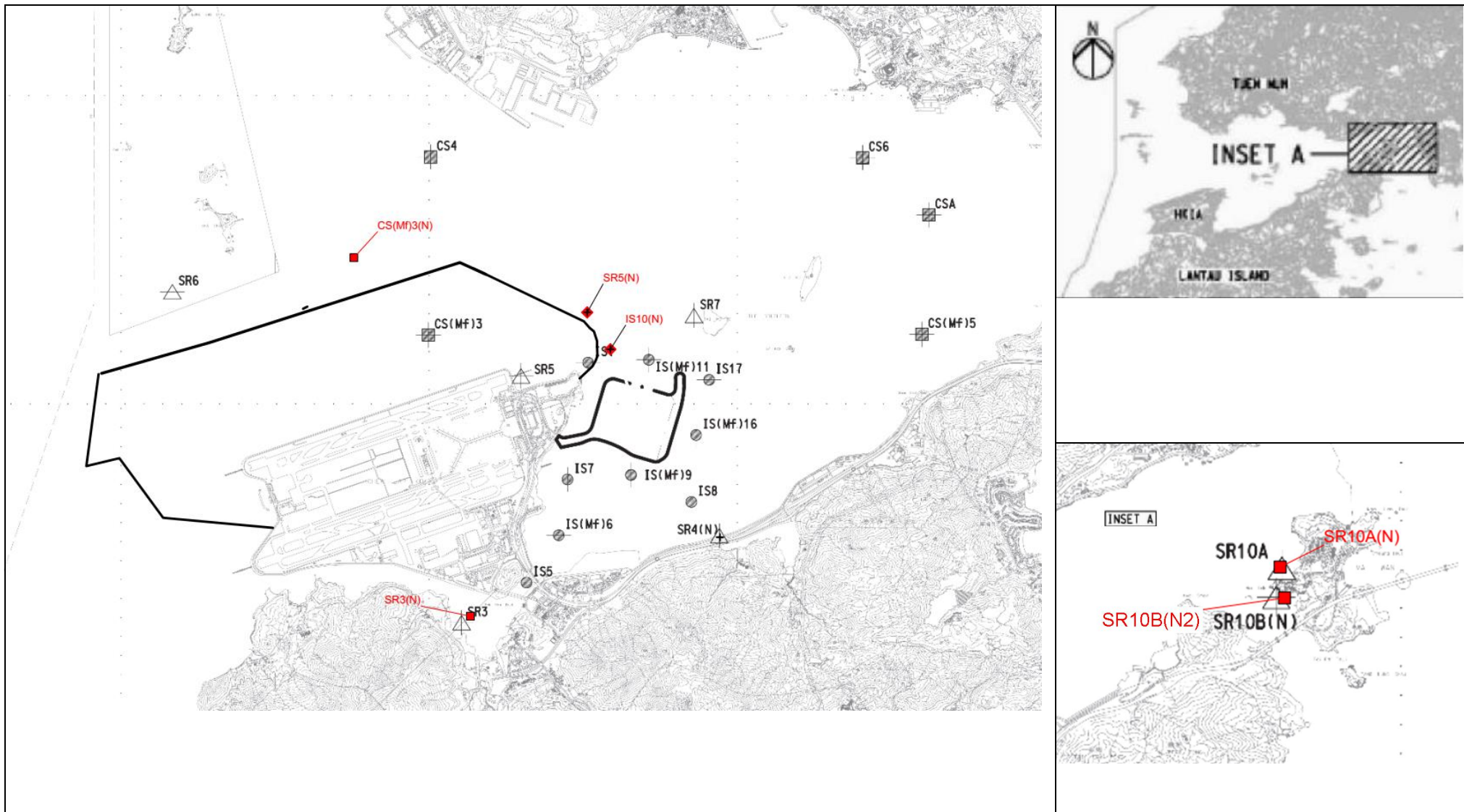


Figure 1: Location Plan

Hong Kong- Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts) Notifications of Environmental Quality Limits Exceedances Notification No.: 20180418SS_v1						
Date of Notification: 25 April 2018			Date of Investigation Report: 2 May 2018			
Works Inspected: Data collected from water sampling works on 18 April 2018 and the results were issued on 25 April 2018						
Monitoring Location: Water Quality Monitoring Station						
Parameter: Dissolved Oxygen (DO) / Suspended Solid (SS) / Turbidity (TURB)						
Action & Limit Level (AL & LL) / Measured Level:						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR6	Depth Average	23.5 and 120% (i.e. 17.2 for mid-ebb/16.9 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 18.6 for mid-ebb/18.3 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	19.7	31.1
SS	SR7	Depth Average	23.5 and 120% (i.e. 17.2 for mid-ebb/16.9 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 18.6 for mid-ebb/18.3 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	9.8	23.9
Notes: AL means Action Level. LL means Limit Level. Bold means AL exceedances. <u>Bold with underline</u> means LL exceedances. Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA						

Possible reason for Action / Limit Level Non-compliance:

On 18 April 2018, two AL exceedances of SS at SR6 and SR7 were recorded during mid-flood tide.

Contract No.: HY/2013/01

As confirmed by the Contractor of Contract No.: HY/2013/01, there was no marine transportation and marine-based work on 18 April 2018. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Contract No.: HY/2013/02

As confirmed with RSS, it is concluded that the exceedances were not related to the Contract due to completion of marine works on 10 September 2017.

Contract No.: HY/2013/03

As confirmed with RSS of Contract No. HY/2013/03, there was no marine transportation on the date of exceedance. Regarding marine-based works in Box Culvert B, the work undertaken at the date of exceedance was preparation work of precast installation which had a cofferdam to separate seawater and works area. Silt curtain was also maintained to enclose the work area of the outlet of the box culvert fully. All sea water flows into the work area of box culvert B will be treated by desilting facilities before discharge in accordance with the discharge license approved by EPD for Contract No. HY/2013/03. For SS exceedance recorded at the WQM station SR6 and SR7, the concerned WQM stations where the exceedances were recorded were not close to the marine works area of Contract No. HY/2013/03, while there was no notification of exceedance received at the WQM stations closer to the works areas, such as IS(Mf)11. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused SS exceedance recorded at the concerned WQM station during mid-flood tide on 18 April 2018.

Contract No.: HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 18 April 2018.

While SS exceedance was recorded at SR6 and SR7, no exceedance was recorded at IS(Mf)9 which is the nearest monitoring location to HY/2013/04 loading and unloading point and HY/2013/04 shoreline interfacing with open waters. Also, no SS exceedance at SR6 and SR7 was observed during monitoring at the next tide (i.e. mid-ebb tide on the same day).

During ET's (Contract No.: HY/2013/04) regular weekly site inspection on 11 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected between 14:15 and 15:30. There were no observations referring to water quality mitigation measures associated with that shoreline.

During ET's (Contract No.: HY/2013/04) subsequent regular weekly site inspection on 18 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected at 15:10. There were no observations referring to water quality mitigation measures associated

It was concluded that the exceedance was not due to HY/2013/04.

Contract No.: HY/2014/05

There was no marine transportation and marine-based work under this contract. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Actions taken/ to be taken:

Contract No.: HY/2013/01

Actions were taken under action plan:

1. Not applicable as SS was not measured in situ;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the suspended solids exceedance was attributed to active construction activities of this Contract;
3. IEC, Contractor and ER were informed via email;
4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
5. Since it is considered that the suspended solids exceedance is unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.

However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Contract No.: HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2013/03


During weekly site audit on 6, 12, 20 and 26 April 2018, ET (Contract No.: HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures. ET (Contract No.: HY/2013/03) will take relevant photo records of the marine-based works for Contract No. HY/2013/03 via the on-going site inspections to support the necessary review of the effectiveness of site mitigation measures specific to the exceedance investigation.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2014/05

Although the exceedance was considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Checked by:	<u>Keith Chau</u>	Title:	<u>Environmental Team Leader (Contract No. HY/2013/01)</u>
Signature:	<u></u>	Date:	<u>2 May 2018</u>
Copied to	: Contractor, Engineer Representative and IEC/ENPO		

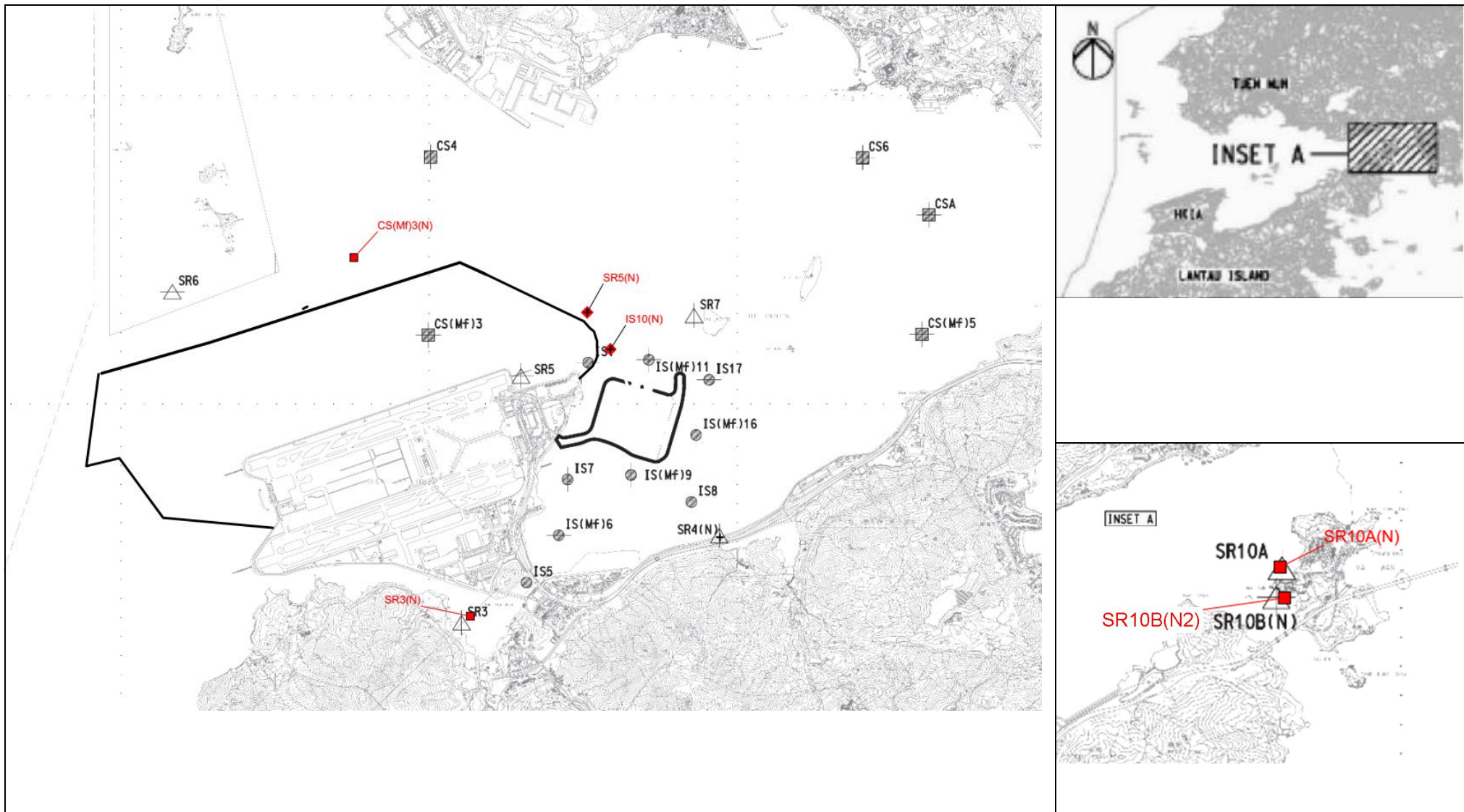


Figure 1: Location Plan

Hong Kong- Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts) Notifications of Environmental Quality Limits Exceedances							Notification No.: 20180420SS
Date of Notification: 27 April 2018				Date of Investigation Report: 3 May 2018			
Works Inspected: Data collected from water sampling works on 20 April 2018 and the results were issued on 27 April 2018							
Monitoring Location: Water Quality Monitoring Station							
Parameter: Dissolved Oxygen (DO) / Suspended Solid (SS) / Turbidity (TURB)							
Action & Limit Level (AL & LL) / Measured Level:							
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)	
SS	IS10(N)	Depth Average	23.5 and 120% (i.e. 18.3 for mid-ebb/14.1 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 19.8 for mid-ebb/15.3 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	21.0	25.5	
Notes: AL means Action Level. LL means Limit Level. Bold means AL exceedances. Bold with underline means LL exceedances. Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA							

Possible reason for Action / Limit Level Non-compliance:

On 20 April 2018, one AL exceedance of SS at IS10(N) was recorded during mid-flood tide.

Contract No.: HY/2013/01

As confirmed by the Contractor of Contract No.: HY/2013/01, there was no marine transportation and marine-based work on 20 April 2018. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Contract No.: HY/2013/02

As confirmed with RSS, it is concluded that the exceedances were not related to the Contract due to completion of marine works on 10 September 2017.

Contract No.: HY/2013/03

As confirmed with RSS of Contract No. HY/2013/03, there was no marine transportation on the date of exceedance. Regarding marine-based works in Box Culvert B, the work undertaken at the date of exceedance was preparation work of precast installation which had a cofferdam to separate seawater and works area. Silt curtain was also maintained to enclose the work area of the outlet of the box culvert fully. All sea water flows into the work area of box culvert B will be treated by desilting facilities before discharge in accordance with the discharge license approved by EPD for Contract No. HY/2013/03. For SS exceedance recorded at the WQM station IS10(N), the concerned WQM stations where the exceedances were recorded were not close to the marine works area of Contract No. HY/2013/03, while there was no notification of exceedance received at the WQM stations closer to the works areas, such as IS(Mf)11. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused SS exceedance recorded at the concerned WQM station during mid-flood tide on 20 April 2018.

Contract No.: HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 20 April 2018.

While SS exceedance was recorded at IS10(N), no exceedance was recorded at IS(Mf)9 which is the nearest monitoring location to HY/2013/04 loading and unloading point and HY/2013/04 shoreline interfacing with open waters. Also, no SS exceedance at IS10(N) was observed during monitoring at the next tide (i.e. mid-ebb tide on the same day).

During ET's (Contract No.: HY/2013/04) subsequent regular weekly site inspection on 18 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected at 15:10. There were no observations referring to water quality mitigation measures associated with that shoreline.

During ET's subsequent regular weekly site inspection on 23 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected between 14:15 and 14:50 Regarding water quality mitigation measures associated with that shoreline, it was observed that the silt curtain at Box Culvert C was not securely positioned at one end. The Contractor was reminded to secure the silt curtain to prevent contained site runoff entering the open waters. However, given the large distance between HY/2013/04 site shoreline and IS10(N), it is unlikely that this observation could be related to the subject exceedance. It was concluded that the exceedance was not due to HY/2013/04.

Contract No.: HY/2014/05

There was no marine transportation and marine-based work under this contract. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Actions taken/ to be taken:

Contract No.: HY/2013/01

Actions were taken under action plan:

1. Not applicable as SS was not measured in situ;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the suspended solids exceedance was attributed to active construction activities of this Contract;
3. IEC, Contractor and ER were informed via email;
4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
5. Since it is considered that the suspended solids exceedance is unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.

However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Contract No.: HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2013/03


During weekly site audit on 6, 12, 20 and 26 April 2018, ET (Contract No.: HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures. ET (Contract No.: HY/2013/03) will take relevant photo records of the marine-based works for Contract No. HY/2013/03 via the on-going site inspections to support the necessary review of the effectiveness of site mitigation measures specific to the exceedance investigation.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2014/05

Although the exceedance was considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Checked by:	<u>Keith Chau</u>	Title:	<u>Environmental Team Leader (Contract No. HY/2013/01)</u>
Signature:	<u></u>	Date:	<u>30 April 2018</u>
Copied to	: Contractor, Engineer Representative and IEC/ENPO		

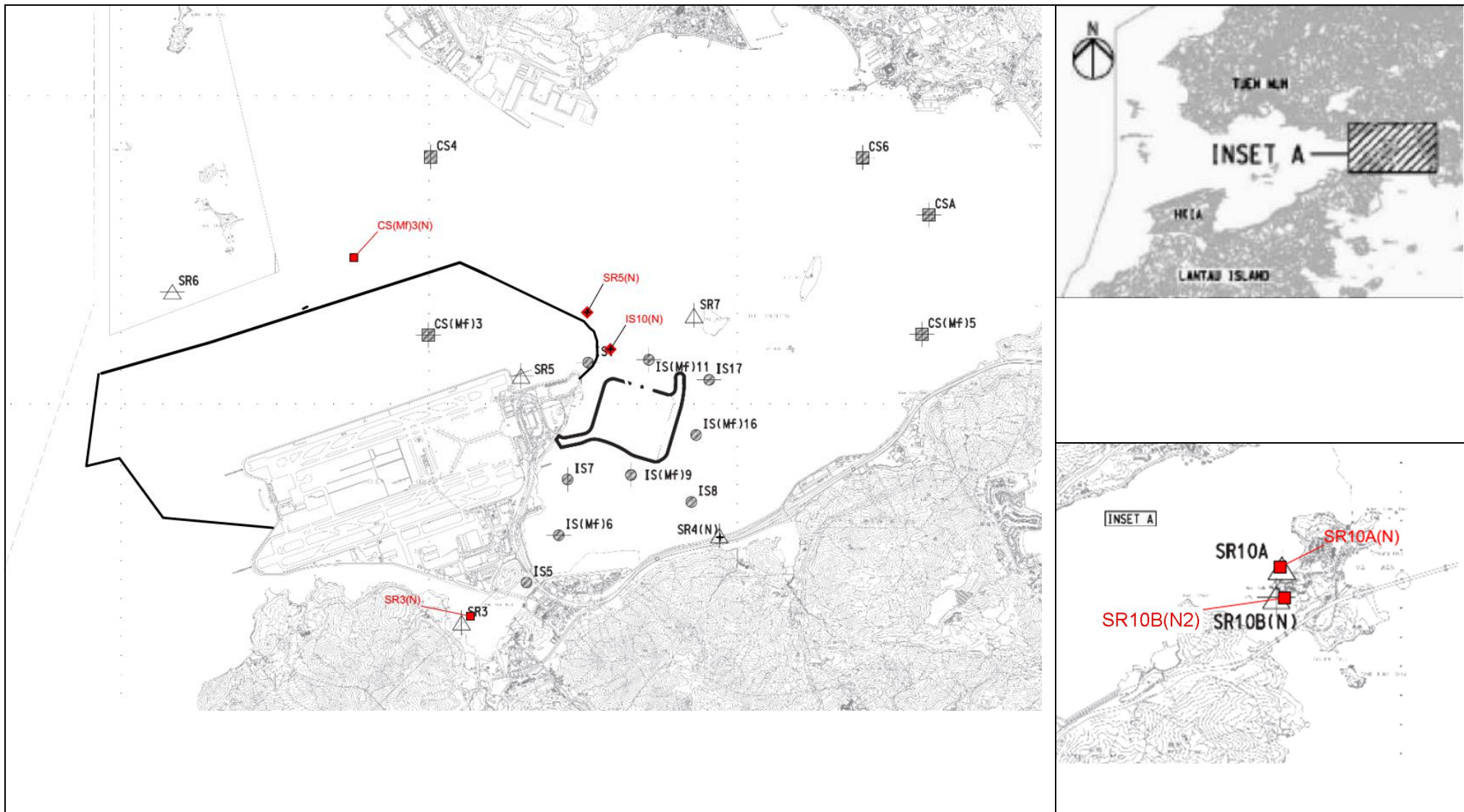


Figure 1: Location Plan

Hong Kong- Zhuhai- Macao Bridge
Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)
Notifications of Environmental Quality Limits Exceedances Notification No.: 20180423SS_v2

Date of Notification: 3 May 2018 **Date of Investigation Report:** 11 May 2018

Works Inspected: Data collected from water sampling works on 23 April 2018 and the results were issued on 3 May 2018

Monitoring Location: Water Quality Monitoring Station

Parameter: ~~Dissolved Oxygen (DO)~~ / Suspended Solid (SS) / ~~Turbidity (TURB)~~

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR7	Depth Average	23.5 and 120% (i.e. 12.1 for mid-ebb/10.6 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 13.1 for mid-ebb/11.5 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	9.3	33.6

Notes:
AL means Action Level.
LL means Limit Level.
Bold means AL exceedances.
Bold with underline means LL exceedances.
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

Possible reason for Action / Limit Level Non-compliance:

On 23 April 2018, one AL exceedance of SS at SR7 was recorded during mid-flood tide.

Contract No.: HY/2013/01

As confirmed by the Contractor of Contract No.: HY/2013/01, there was no marine transportation and marine-based work on 23 April 2018. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Contract No.: HY/2013/02

As confirmed with RSS, it is concluded that the exceedances were not related to the Contract due to completion of marine works on 10 September 2017.

Contract No.: HY/2013/03

As confirmed with RSS of Contract No. HY/2013/03, there was no marine transportation on the date of exceedance. Regarding marine-based works in Box Culvert B, the work undertaken at the date of exceedance was preparation work of precast installation which had a cofferdam to separate seawater and works area. Silt curtain was also maintained to enclose the work area of the outlet of the box culvert fully. All sea water flows into the work area of box culvert B will be treated by desilting facilities before discharge in accordance with the discharge license approved by EPD for Contract No. HY/2013/03. For SS exceedance recorded at the WQM station SR7, the concerned WQM stations where the exceedances were recorded were not close to the marine works area of Contract No. HY/2013/03, while there was no notification of exceedance received at the WQM stations closer to the works areas, such as IS(Mf)11. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused SS exceedance recorded at the concerned WQM station during mid-flood tide on 23 April 2018.

Contract No.: HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 23 April 2018.

While SS exceedance was recorded at SR7, no exceedance was recorded at IS(Mf)9 which is the nearest monitoring location to HY/2013/04 loading and unloading point and HY/2013/04 shoreline interfacing with open waters. Also, no SS exceedance at SR7, was observed during monitoring at the next tide (i.e. mid-ebb tide on the same day).

During ET's (Contract No.: HY/2013/04) regular weekly site inspection on 23 April 2018, HY/2013/04 site shoreline interfacing with open waters was inspected between 14:15 and 14:50. Regarding water quality mitigation measures associated with that shoreline, it was observed that the silt curtain at Box Culvert C was not securely positioned at one end. The Contractor was reminded to secure the silt curtain to prevent contained site runoff entering the open waters. However, given the large distance between HY/2013/04 site shoreline and SR7, plus taking into account the subject exceedance being only observed at SR7, it is unlikely that this observation could be related to the subject exceedance. It is also noted that no exceedance was recorded at the monitoring locations closest to the silt curtain at Box Culvert C, namely IS7 and IS(Mf)9, on 23 April 2018.

It was concluded that the exceedance was not due to HY/2013/04.

Contract No.: HY/2014/05

There was no marine transportation and marine-based work under this contract. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Actions taken/ to be taken:

Contract No.: HY/2013/01

Actions were taken under action plan:

1. Not applicable as SS was not measured in situ;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the suspended solids exceedance was attributed to active construction activities of this Contract;
3. IEC, Contractor and ER were informed via email;
4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
5. Since it is considered that the suspended solids exceedance is unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.

However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Contract No.: HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2013/03


During weekly site audit on 12, 20, 26 April and 3 May 2018, ET (Contract No.: HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures. ET (Contract No.: HY/2013/03) will take relevant photo records of the marine-based works for Contract No. HY/2013/03 via the on-going site inspections to support the necessary review of the effectiveness of site mitigation measures specific to the exceedance investigation.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Contract No.: HY/2014/05

Although the exceedance was considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Checked by:	<u>Keith Chau</u>	Title:	<u>Environmental Team Leader (Contract No. HY/2013/01)</u>
Signature:	<u></u>	Date:	<u>11 May 2018</u>
Copied to	: Contractor, Engineer Representative and IEC/ENPO		

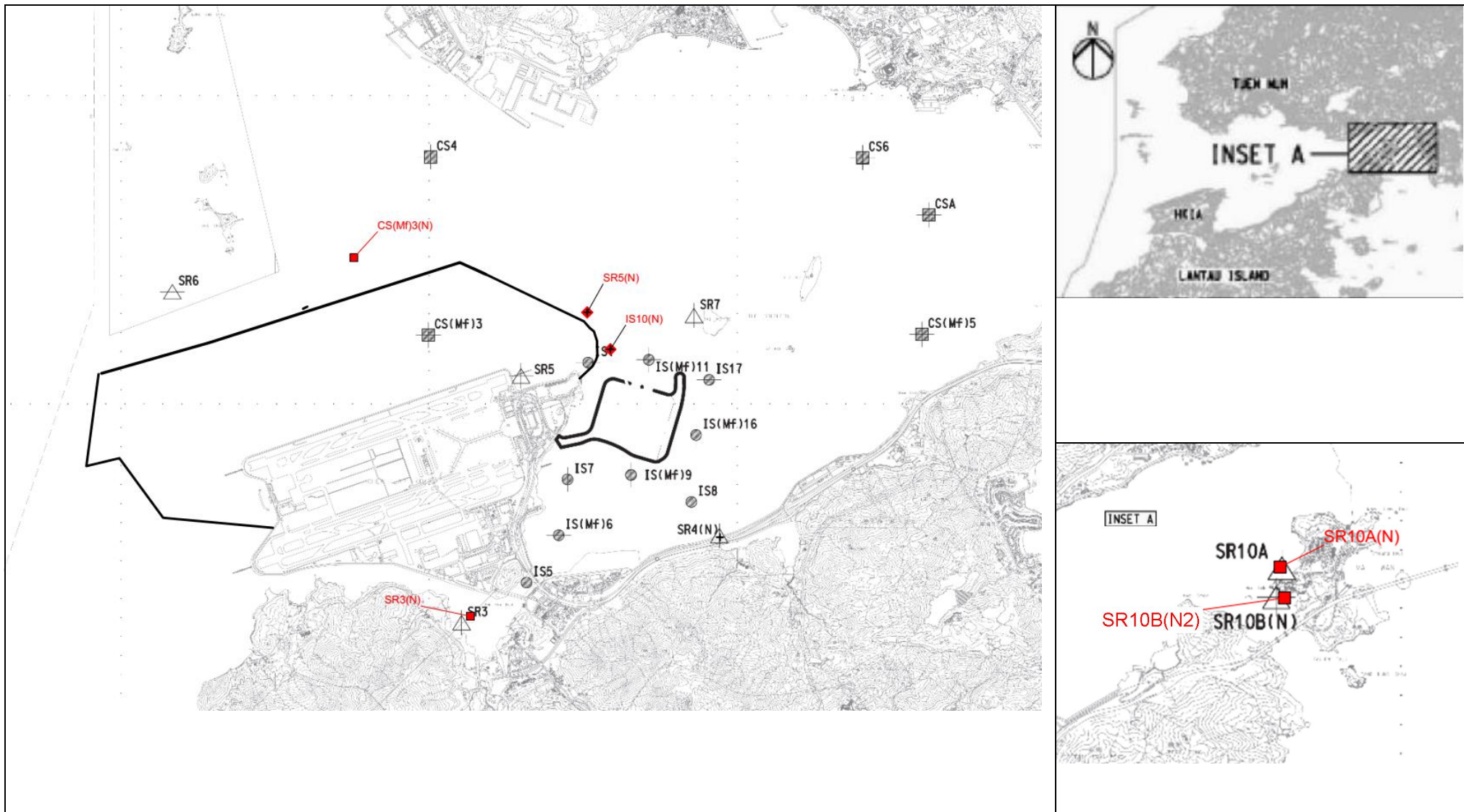


Figure 1: Location Plan