

13 February 2019

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.  
The PRE's Office  
550 Cheung Tung Road, Lantau, Hong Kong

Attention: Mr. Simon Cheung

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 September 2018**

Reference is made to our previous verification letter (Our ref.: "HYDHZMBEEM00\_0\_6928L.18" dated 22 October 2018) reminding the ET that the dolphin monitoring data for September 2018 is outstanding in the previous version of the captioned submission, and to their re-submission of monthly EM&A report No. 48 for September 2018 (Rev. 2) certified by the ET Leader (ET's ref.: "5126871/19.10/OC151/KC/RL" dated 13 February 2019) provided to us via e-mail on 13 February 2019.

We are pleased to inform you that we have no adverse comments 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



Ray Yan  
Independent Environmental Checker

c.c.	HyD	Mr. Tony Pang	(By Fax: 3188 6614)
	HyD	Ms. Iris Ng	(By Fax: 3188 6614)
	Atkins	Mr. Keith Chau	(By Fax: 2890 6343)
	LCWJV	Mr. Owen Leung	(By Fax: 3621 0180)

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

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Your ref.  
Our ref. 5126871/19.10/OC151/KC/RL

Date: 13 February 2019

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

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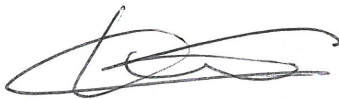
**Attn: Mr. Stephen Tsang**

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. 48**

Atkins China Limited certifies, in the capacity of Environmental Team Leader (up to 31 October 2018), that Monthly EM&A Report No. 48 (Revision 2) including the Chinese White Dolphin monitoring data for September 2018 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. Malcolm Sage (By Fax.: 3468 2076)
2. IEC / ENPO – Mr. Ray Yan & 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. 48  
(Covering the Period from 1 September 2018 to 30 September 2018)**

4 February 2019

Revision 2

Main Contractor



Leighton - Chun Wo  
Joint Venture

Environmental Team



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## 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-eighth monthly EM&A Report for the Contract which summarizes findings of the EM&A works during the reporting period from 1 to 30 September 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. Noise monitoring station (NMS3C) and air quality monitoring station (AMS3C) are covered by Contract No. HY/2013/04– Hong Kong-Zhuhai-Macao Bridge HKBCF - Infrastructure Works Stage II (Southern Portion).

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

1-hour TSP Monitoring:	AMS2 - 6, 12, 18, 24 and 28 September 2018
	AMS3C - 5, 11, 17, 21 and 27 September 2018
	AMS7B - 3, 7, 13, 19, 21 and 27 September 2018
24-hour TSP Monitoring:	AMS2 - 5, 11, 17, 21 and 27 September 2018
	AMS3C - 5, 11, 17, 21 and 27 September 2018
	AMS7B - 3 <sup>(i)</sup> , 6, 12, 24 <sup>(ii)</sup> , 26 <sup>(iii)</sup> and 28 September 2018
Noise Monitoring:	NMS2 - 4, 10, 20 and 26 September 2018
	NMS3C - 5, 11, 17 and 27 September 2018
Water Quality Monitoring:	3, 5, 7, 10, 12 <sup>(iv)</sup> , 14, 17 <sup>(v)</sup> , 19, 21, 24, 26 and 28 September 2018
Chinese White Dolphin Monitoring:	10, 14 <sup>(vi)</sup> , 19 <sup>(vi)</sup> and 24 <sup>(vi)</sup> September 2018
Environmental Site Inspection:	5, 12, 19 and 26 September 2018

### Remarks:

- (i) 24-hour TSP air quality monitoring at AMS7B on 31 August 2018 was rescheduled to 3 September 2018 due to unstable power supply.
- (ii) 24-hour TSP air quality monitoring at AMS7B on 18 September 2018 was rescheduled to 24 September 2018 due to unstable power supply.
- (iii) An additional 24-hour TSP air quality monitoring at AMS7B was conducted on 26 September 2018.



- (iv) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (v) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (vi) Due to the typhoon issue, the dolphins monitoring on 18, 20 and 26 September 2018 were rescheduled to 14, 19 and 24 September 2018.

### 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-hour TSP	-	-
	24-hour TSP	-	-
Noise	Leq (30 min)	-	-
Water Quality	Suspended solids level (SS)	2	-
	Turbidity level	-	-
	Dissolved oxygen level (DO)	153	29
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 and Marine Based work

- According to information from the Contractor, the construction works of Contract No. HY/2013/01 have been completed. The related completion certificate (Ref.: BWLM: TTHK: mlmp:60313494/C1/M15/905/M1422-2018009635T) dated 9 August 2018 was issued by Engineer's Representative.
- Landscape works.

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

- According to information from Contractor, no construction works will be conducted by Contract No. HY/2013/06 except System Testing and Commissioning 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-eighth 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 September 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 and Marine Based work

- According to information from the Contractor, the construction works of Contract No. HY/2013/01 have been completed. The related completion certificate (Ref.: BWLM: TTHK: mImp:60313494/C1/M15/905/M1422-2018009635T) dated 9 August 2018 was issued by Engineer’s Representative.
- Landscape works.

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

- According to information from Contractor, no construction works were be conducted by Contract No. HY/2013/06 except System Testing and Commissioning at ELV & Sever Room, and 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
AMS3C – Ying Tung Estate Market Rooftop	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
AMS3C – Ying Tung Estate Market Rooftop	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. The air monitoring and meteorological station at AMS3B has been relocated and renamed as AMS3C. Air monitoring and meteorological data recording at AMS3C is covered by Contract No. HY/2013/04 – Hong Kong-Zhuhai-Macao Bridge HKBCF - Infrastructure Works Stage II (Southern Portion). 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
AMS3C <sup>(3)</sup>	Ying Tung Estate Market Rooftop
AMS6	Dragonair/CNAC (Group) Building
AMS7B <sup>(2)</sup>	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.
- (3) Air quality monitoring at AMS3C has been undertaking by the ET for Contract No. HY/2013/04 since 20 August 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  $\pm 3$  °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 m<sup>3</sup>/min, and complied with the range specified in the Updated EM&A Manual for HKBCF (Version 1.0) (i.e. 0.6-1.7 m<sup>3</sup>/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 24-hour TSP monitoring at AMS7B on 31 August 2018 was rescheduled to 3 September 2018 due to unstable power supply.

- 2.6.2 24-hour TSP monitoring at AMS7B on 18 September 2018 was rescheduled to 24 September 2018 due to unstable power supply.
- 2.6.3 An additional 24-hour TSP monitoring at AMS7B was conducted on 26 September 2018.
- 2.6.4 The schedule for air quality monitoring in September 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	38	11 - 57	374	500
AMS3C	40	26 - 75	368	
AMS7B	39	11 - 65	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	50	33 - 79	176	260
AMS3C	44	32 - 67	167	
AMS7B	76	44 - 170	183	

- 2.7.2 No Action and Limit Level exceedances of 1-hour TSP were recorded at AMS2, AMS3C and AMS7B during the reporting month.
- 2.7.3 No Action and Limit Level exceedances of 24-hour TSP were recorded at AMS2, AMS3C and AMS7B during the reporting month.
- 2.7.4 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.
- 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)
NMS3C <sup>(i)</sup>			70/65 dB(A)*

Remark:

\* Limit Level for schools will be applied for NMS3C. Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.

(i) Noise monitoring at NMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.

#### 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. The noise monitoring station at NMS3B has been relocated and renamed as NMS3C and is covered by Contract No. HY/2013/04. 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 2.1** 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 <sup>(1)</sup>	Seaview Crescent
NMS3C <sup>(1) (2) (3)</sup>	Ying Tung Estate Refuse Collection Point

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 NMS3C. Day time noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.
- (3) Noise Monitoring at NMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.

### 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) 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 The schedule for construction noise monitoring in September 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 <sub>eq</sub> (30 mins)	Range, dB(A) L <sub>eq</sub> (30 mins)	Limit Level, dB(A) L <sub>eq</sub> (30 mins)
NMS2	65	63 - 66	75
NMS3C(*)	70	69- 70	70/65

Remark: (\*) The Limit Level for schools will be applied for NMS3C. Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65 dB(A) applies during the school examination period.

- 3.7.2 School calendar of Ho Yu College was checked and no school examination period at Ho Yu College during the reporting month.
- 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 <sup>-1</sup> (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 <sup>-1</sup> (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	16H104233 / 17H105557/ 17E100747/ 16H104234
	YSI 6920 v2	0001C6A7 / 00019CB2

### 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
<b>Impact Stations:</b> IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17 <b>Control/Far Field Stations:</b> CS(Mf)3(N), CS(Mf)5, CS4, CS6, CSA <b>Sensitive Receiver Stations:</b> SR3(N), SR4(N), SR5(N), SR6, SR7, SR10A(N) & SR10B(N2)	- 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 There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical.

4.4.5 **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.

• There are construction activities of work bridge near SR4(N). the water quality monitoring team were unable to access station SR4(N) in September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical.

## 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 of turbidity were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 4.6.4 Two Action Level exceedances of suspended solid were recorded at mid-flood tide on 10 and 12 September 2018. No Action Level Level exceedances of suspended solid were recorded at mid-ebb tide and no Limit Level exceedances of suspended solid during the reporting month.
- 4.6.5 73 Action Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 7, 10, and 14 September 2018 while 80 Action Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 September 2018 during the reporting month. 12 Limit Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 10 and 14 while 17 Limit Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 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	2018-09-03; 2018-09-05; 2018-09-07	2018-09-03; 2018-09-10; 2018-09-12	2018-09-03; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-10				
	Limit Level	2018-09-10		2018-09-05					
IS(Mf)6	Action Level	2018-09-10	2018-09-10; 2018-09-12						
	Limit Level								
IS7	Action Level	2018-09-10	2018-09-10; 2018-09-12						
	Limit Level								
IS8	Action Level	2018-09-10	2018-09-10; 2018-09-12	2018-09-03; 2018-09-07; 2018-09-10	2018-09-10; 2018-09-12				
	Limit Level								
IS(Mf)9	Action Level	2018-09-10	2018-09-12	2018-09-03; 2018-09-05; 2018-09-10	2018-09-10; 2018-09-12				
	Limit Level		2018-09-10						
IS10(N)	Action Level	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-10; 2018-09-12	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10; 2018-09-12				
	Limit Level								
IS(Mf)11	Action Level	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-10; 2018-09-12	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10; 2018-09-12				
	Limit Level								
IS(Mf)16	Action Level	2018-09-03; 2018-09-14	2018-09-10; 2018-09-12	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-10; 2018-09-12				
	Limit Level	2018-09-10							
IS17	Action Level	2018-09-03; 2018-09-05; 2018-09-14	2018-09-03; 2018-09-12; 2018-09-14	2018-09-03; 2018-09-10; 2018-09-14	2018-09-07; 2018-09-10; 2018-09-12				
	Limit Level	2018-09-10	2018-09-10	2018-09-05					
SR3(N)	Action Level	2018-09-10	2018-09-10; 2018-09-12	2018-09-07; 2018-09-10	2018-09-10; 2018-09-12				
	Limit Level								
SR4(N)	Action Level	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-10; 2018-09-12; 2018-09-14	2018-09-03; 2018-09-07; 2018-09-10	2018-09-03; 2018-09-10; 2018-09-12				
	Limit Level			2018-09-05					
SR5(N)	Action Level	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-10; 2018-09-12	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10	2018-09-05; 2018-09-07; 2018-09-10; 2018-09-12				
	Limit Level								



Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
SR6	Action Level	2018-09-07	2018-09-05; 2018-09-07; 2018-09-12	2018-09-07; 2018-09-10	2018-09-03; 2018-09-07; 2018-09-10; 2018-09-12				2018-09-10; 2018-09-12
	Limit Level	2018-09-10	2018-09-03; 2018-09-10						
SR7	Action Level	2018-09-03; 2018-09-10	2018-09-10; 2018-09-12	2018-09-10	2018-09-10; 2018-09-12				
	Limit Level								
SR10A(N)	Action Level			2018-09-05; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10; 2018-09-12				
	Limit Level	2018-09-10; 2018-09-14	2018-09-03; 2018-09-05; 2018-09-07; 2018-09-10; 2018-09-12; 2018-09-14						
SR10B (N2)	Action Level			2018-09-03; 2018-09-05; 2018-09-10	2018-09-03; 2018-09-05; 2018-09-12; 2018-09-14				
	Limit Level	2018-09-03; 2018-09-10; 2018-09-14	2018-09-03; 2018-09-05; 2018-09-10; 2018-09-12; 2018-09-14; 2018-09-28		2018-09-10				
Total	Action Level	32	34	41	46	0	0	0	2
		155							
	Limit Level	9	16	3	1	0	0	0	0
		29							

## 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 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 Due to the typhoon issue, the dolphins monitoring on 18, 20 and 26 September 2018 were rescheduled to 14, 19 and 24 September 2018.
- 5.3.2 The schedule for dolphin monitoring in September 2018 is provided in **Appendix M**.

### 5.4 Monitoring Result

#### Vessel-base Line-transect Survey

- 5.4.1 Two sets of systematic line-transect vessel surveys were conducted under the HKBCF dolphin monitoring programme on the 10, 14, 19 and 24 September 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 261.80 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 September's surveys (**Annex I of Appendix E**).
- 5.4.3 Among the two areas, 97.50 km and 164.30 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 189.51 km and 72.29 km respectively (**Annex I of Appendix E**).

- 5.4.4 During the two sets of monitoring surveys in September 2018, only one group of three Chinese White Dolphins were sighted (**Annex II of Appendix E**). The lone dolphin sighting was made in NWL, while none was sighted in NEL. Moreover, the dolphin group was sighted on primary lines during on-effort search, and it was not associated with any operating fishing vessel (**Annex II of Appendix E**).
- 5.4.5 Distribution of the dolphin sighting made in September 2018 is shown in **Figure 6 of Appendix E**. The lone sighting was made at the northeast corner of Lung Kwu Chau (**Figure 6 of Appendix E**). Notably, the dolphin group was sighted very far away from the HKBCF reclamation site, as well as the HKLR03 reclamation site and both alignments of HKLR09 and TMCLKL (**Figure 6 of Appendix E**).
- 5.4.6 During the September 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 September 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: September 10 <sup>th</sup> / 14 <sup>th</sup>	0.0	0.0
	Set 2: September 19 <sup>th</sup> / 24 <sup>th</sup>	0.0	0.0
NWL	Set 1: September 10 <sup>th</sup> / 14 <sup>th</sup>	1.7	5.0
	Set 2: September 19 <sup>th</sup> / 24 <sup>th</sup>	0.0	0.0

**Table 5.5** Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four HKBCF surveys conducted in September 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	0.9	0.6	2.6	1.8

- 5.4.7 As there was only one group of three dolphins sighted during the month, the average dolphin group size in September 2018 was 3.0 individual per group.

#### Photo-identification Work

- 5.4.8 Three known individual dolphins were re-sighted three times during the September's surveys (**Annex III and IV of Appendix E**). All three of them were re-sighted only once during the monitoring month.
- 5.4.9 None of the identified individuals was accompanied with any young calf during their re-sightings in September 2018(**Annex III of Appendix E**).

## 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 5, 12, 19, and 26 September 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
29 August 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
5 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
12 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
19 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
26 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

**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
29 August 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
5 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
12 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
19 September 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
26 September 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
5 September 2018	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
19 September 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 May 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 All exposed site area has been paved expect planting area, thus, watering of exposed spoil was not required during reporting month.
- 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, AMS3C 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 of turbidity were recorded at mid-ebb tide and mid-flood tide during the reporting month.
- 6.5.5 Two Action Level exceedances of suspended solid were recorded at mid-flood tide on 10 and 12 September 2018. No Action Level Level exceedances of suspended solid were recorded at mid-ebb tide and no Limit Level exceedances of suspended solid during the reporting month.
- 6.5.6 73 Action Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 7, 10, and 14 September 2018 while 80 Action Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 September 2018 during the reporting month. 12 Limit Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 10 and 14 while 17 Limit Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 during the reporting month.
- 6.5.7 For dolphin monitoring, dolphin surveys were conducted on 10, 14, 19 and 24 September 2018, A total of 261.80 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather. Only one group of three Chinese White Dolphins were sighted. The lone dolphin sighting was made in NWL, while none was sighted in NEL.
- 6.5.8 As confirmed by the Contractor, no marine transportation and marine-based work was conducted during the reporting month. Therefore, it is concluded that the exceedances were not related the Contract.

## 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 October 2018 are summarized in **Table 7-1**.

**Table 7-1 Construction Activities for October 2018**

Site Area	Description of Activities	Nature of Activities
For Contract No. HY/2013/01		
WA1	According to information from the Contractor, the construction works of Contract No. HY/2013/01 have been completed. The related completion certificate (Ref.: BWLM: TTHK: mlmp:60313494/C1/M15/905/M1422-2018009635T) dated 9 August 2018 was issued by Engineer's Representative.	N/A
	Landscape works	Land-Based
For Contract No. HY/2013/06 within Contract No. HY/2013/01 works area		
ELV & Server Room, Zone E PCB	According to information from Contractor, no construction works will be conducted by Contract No. HY/2013/06 except System Testing and Commissioning	Land-Based

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

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

7.2.2 The tentative schedule for environmental monitoring of October 2018 are detailed in the monthly EM&A Report prepared for Contract No. HY/2013/04.



## 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-eighth Monthly EM&A Report summarizes findings of the EM&A works during the reporting period from 1 to 30 September 2018 (included the construction works of Contract No. HY/2013/06 within Contractor No. HY/2013/01 works area).
- 8.1.2 The air quality and meteorological monitoring station at AMS3B and noise monitoring station at NMS3B have been relocated and renamed as AMS3C and NMS3C respectively. The monitoring stations AMS3C and NMS3C are covered by Contract No. HY/2013/04 – Hong Kong-Zhuhai-Macao Bridge HKBCF - Infrastructure Works Stage II (Southern Portion).
- 8.1.3 For air quality monitoring, no Action and Limit Level exceedances of 1-hour and 24-hour TSP level were recorded at AMS2, AMS3C and AMS7B during the reporting month.
- 8.1.4 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.
- 8.1.5 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.
- 8.1.6 For water quality monitoring during the reporting month, no Action Level and Limit Level exceedances of turbidity were recorded at mid-ebb tide and mid-flood tide during the reporting month. Two Action Level exceedances of suspended solid were recorded at mid-flood tide on 10 and 12 September 2018. No Action Level Level exceedances of suspended solid were recorded at mid-ebb tide and no Limit Level exceedances of suspended solid during the reporting month. 73 Action Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 7, 10, and 14 September 2018 while 80 Action Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 September 2018 during the reporting month. 12 Limit Level exceedances of dissolved oxygen were recorded at mid-ebb tide on 3, 5, 10 and 14 while 17 Limit Level exceedances of dissolved oxygen were recorded at mid-flood tide on 3, 5, 7, 10, 12, 14, and 28 during the reporting month. As confirmed by the Contractor, no marine transportation and marine-based work was conducted on during the reporting month. Therefore, it is concluded that the exceedances were not related the Contract.
- 8.1.7 For dolphin monitoring, dolphin surveys were conducted on 10, 14, 19 and 24 September 2018, A total of 261.80 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather. Only one group of three Chinese White Dolphins were sighted. The lone dolphin sighting was made in NWL, while none was sighted in NEL.
- 8.1.8 Environmental site inspections were carried out on 5, 12, 19, and 26 September 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.
- 8.1.9 There was no complaint received in relation to the environmental impact during the reporting period.
- 8.1.10 No notification of summons and successful prosecution was received during the reporting period.



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**HIGHWAYS DEPARTMENT**

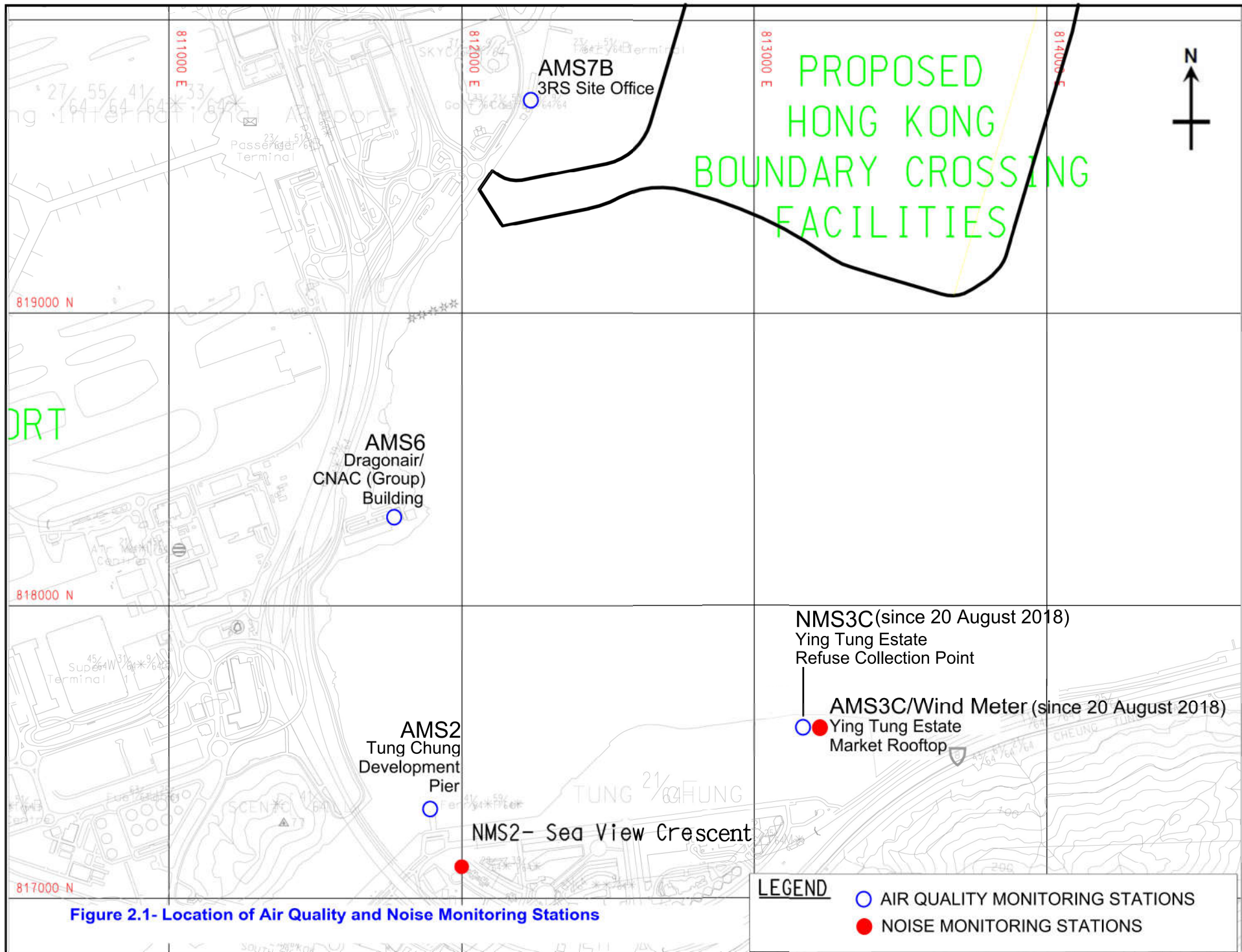
港珠澳大橋香港工程管理處  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

Contract No. HY/2013/01  
Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building  
48<sup>th</sup> Monthly EM&A Report

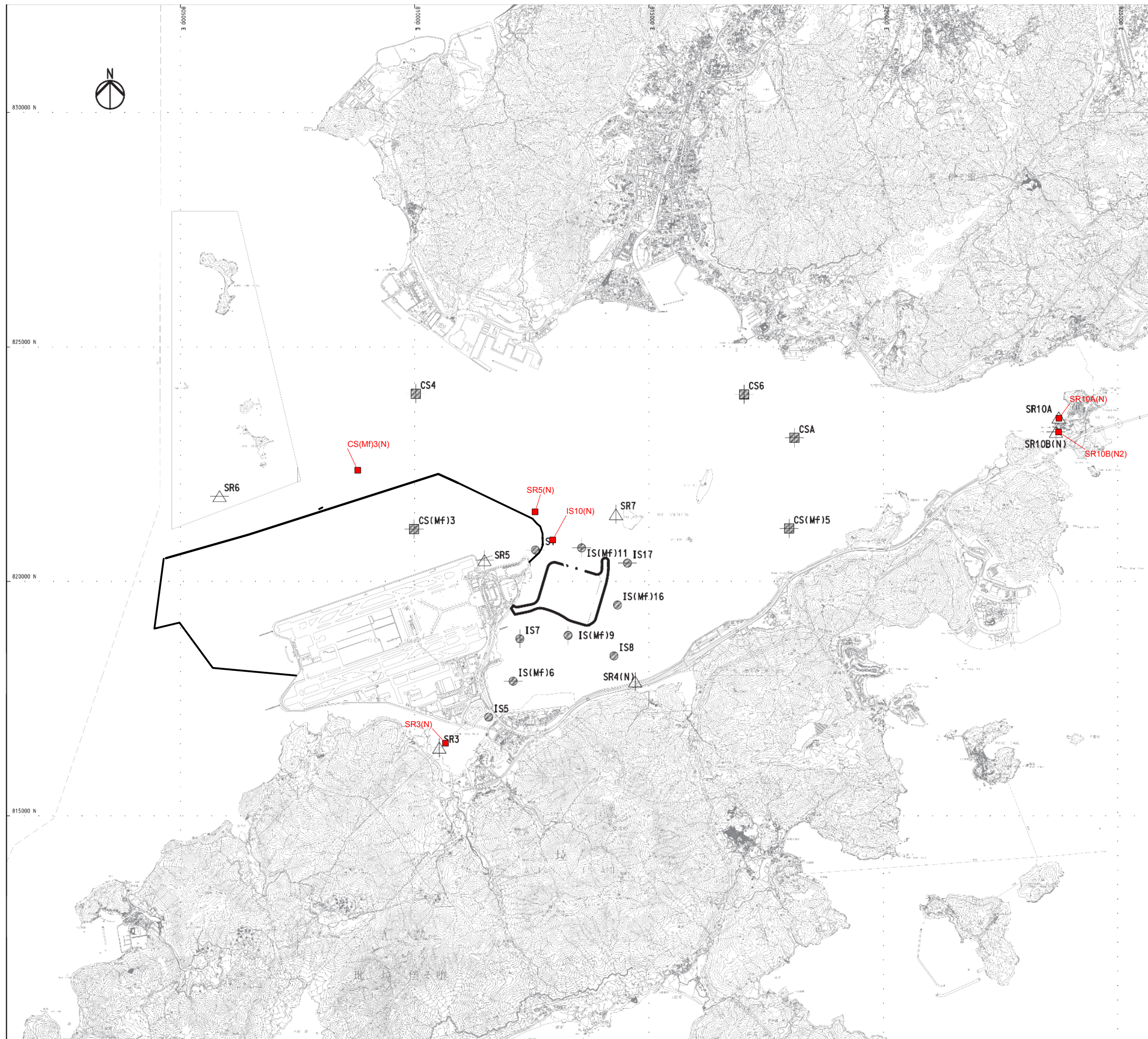
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# FIGURES

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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





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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  
48<sup>th</sup> Monthly EM&A Report

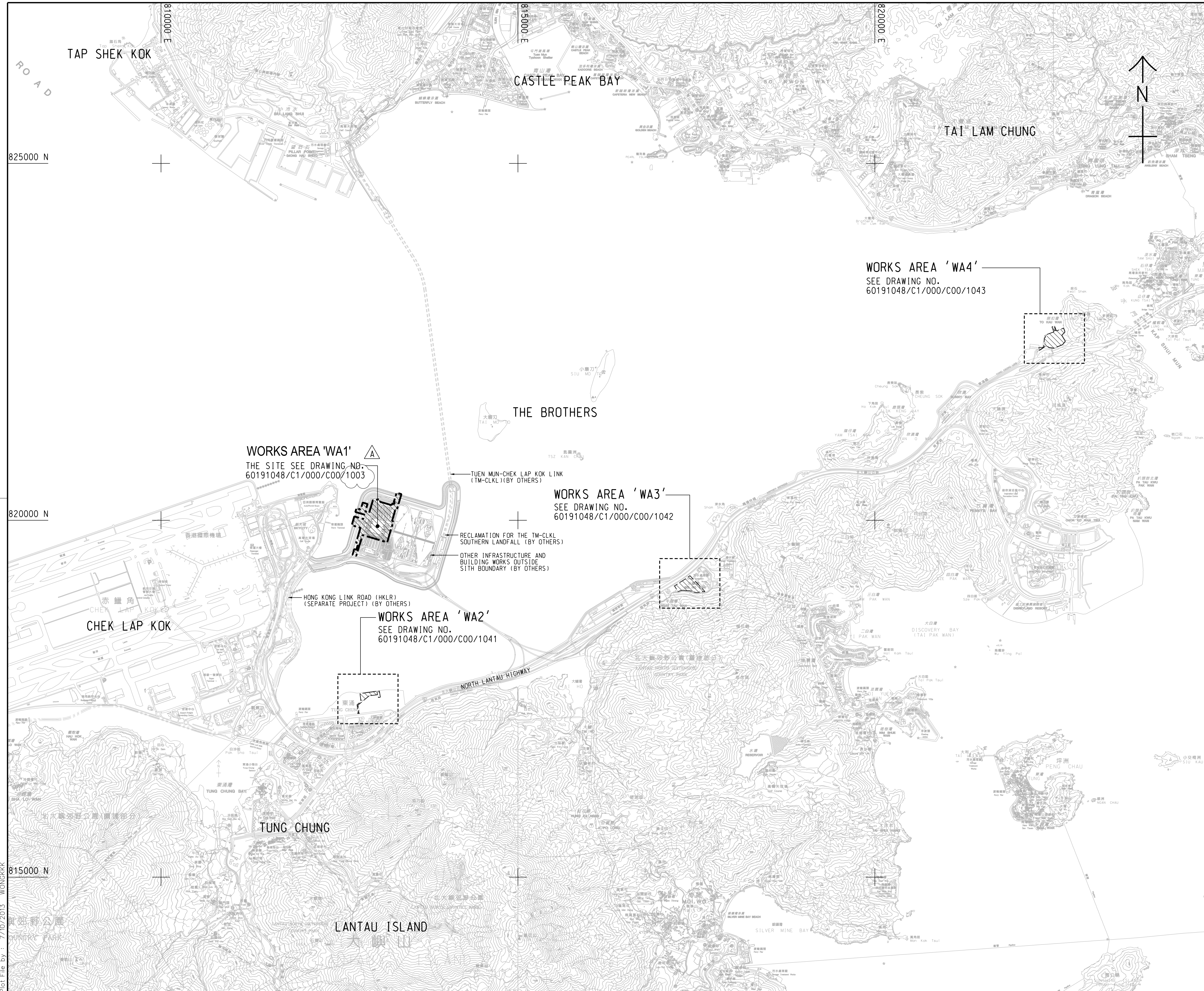
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# APPENDIX A

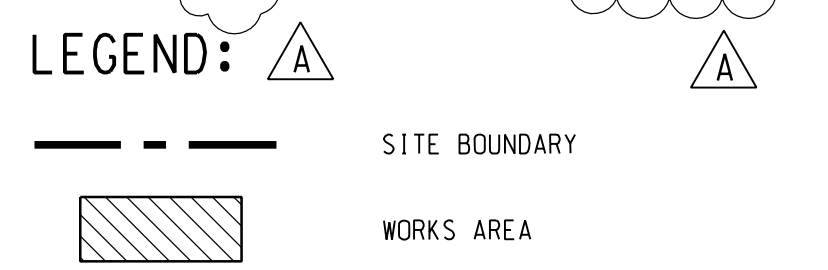
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Location of Works Areas





- 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. 修改	DESCRIPTION 內容摘要	DATE 日期

**路政署 HIGHWAYS DEPARTMENT**  
香港機場管理局  
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

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

**SITE LOCATION PLAN**

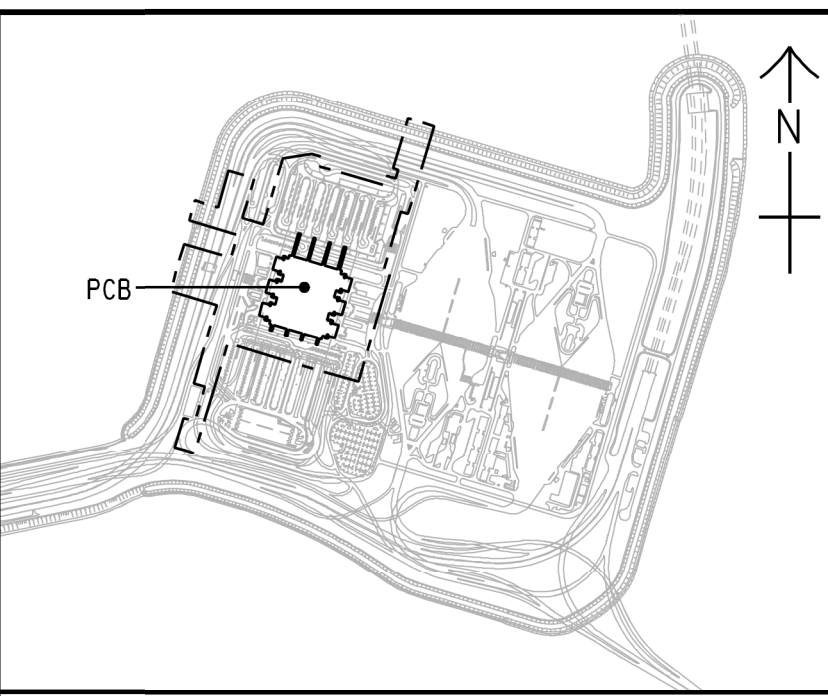
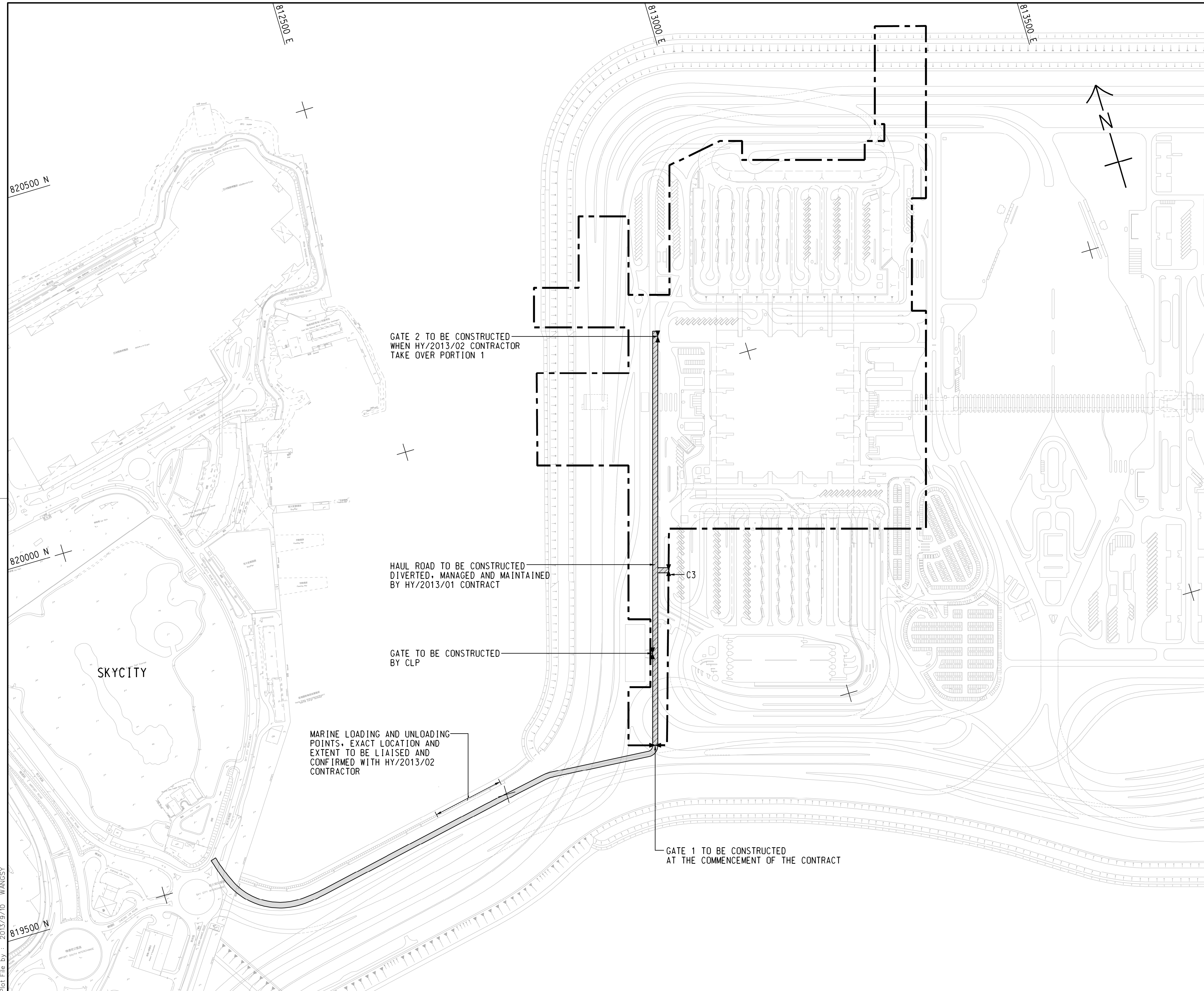
**AECOM** + +  
Rogers Stirk Harbour + Partners  
BURO HAPPOLD ATKINS ADI + +  
**Aedas**

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	<b>WORKING DRAWING</b>		
SCALE 比例	A1 1 : 25000	DIMENSIONS ARE IN 尺寸單位 METRES			
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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

- TENDER DRAWING		BWCW SCI	SEP.13
REV. 修改	DESCRIPTION 工程圖號	CHECKED 審核	DATE 日期

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 WA1

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

**Aedas**

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

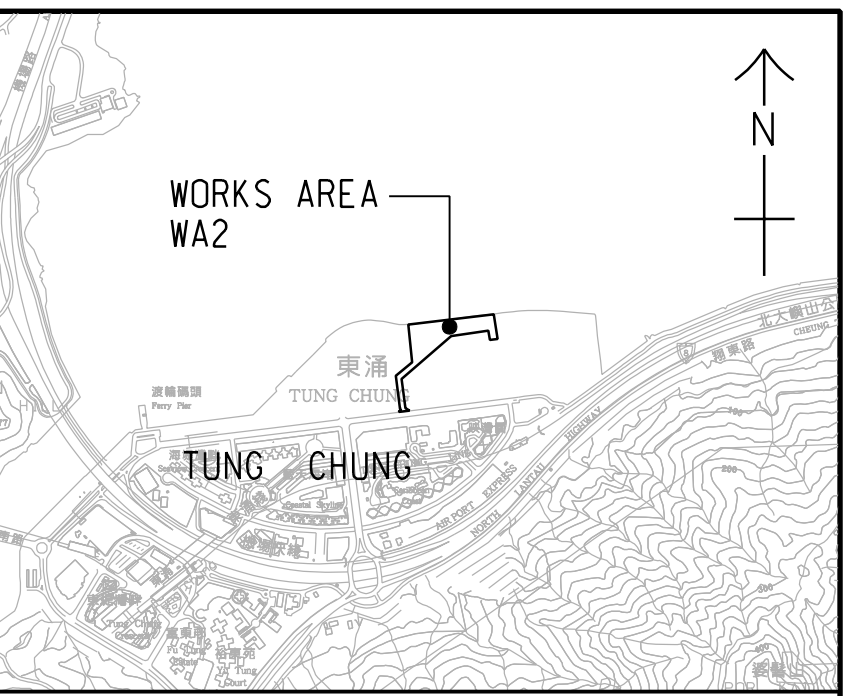
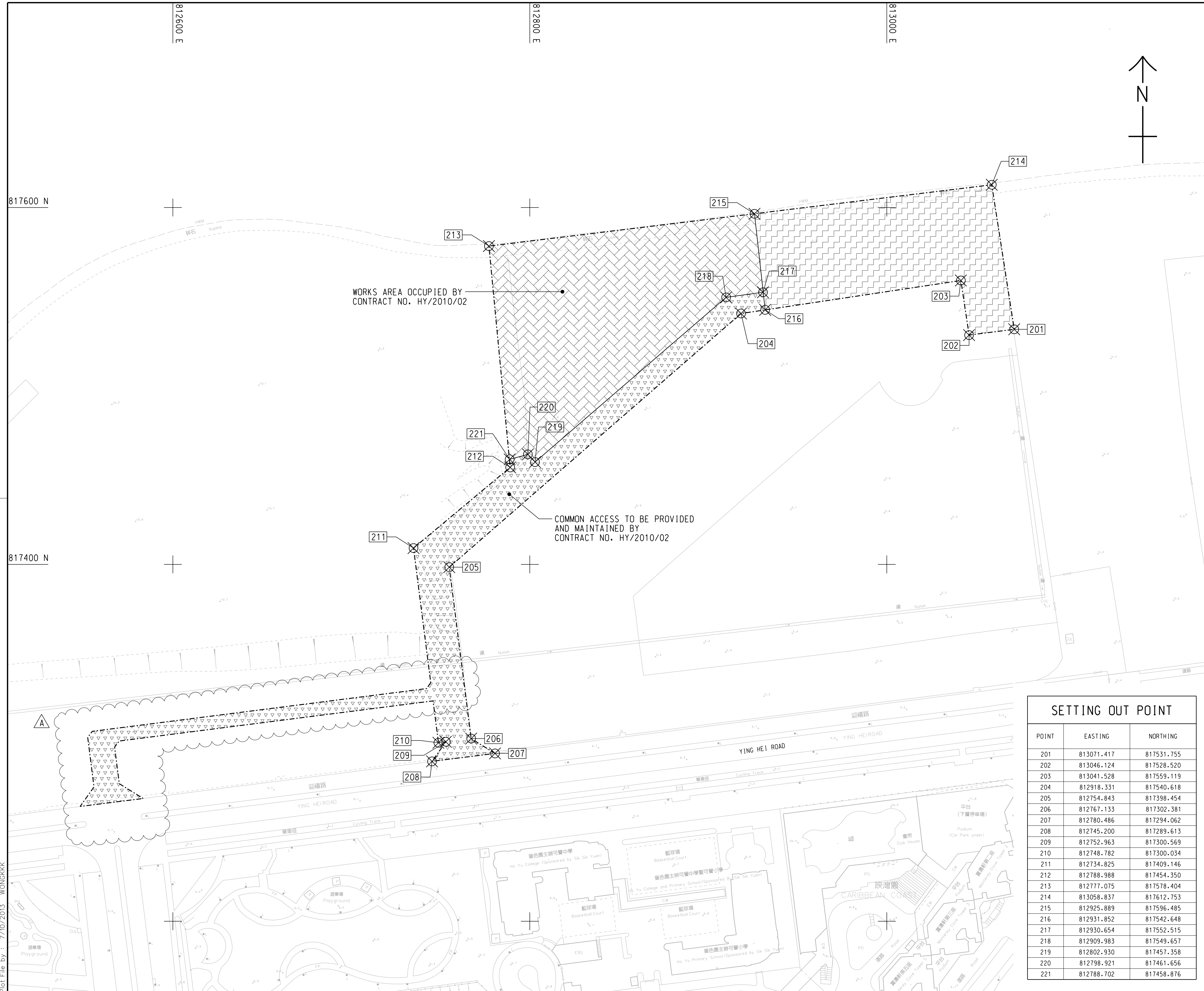
DESIGNED BY 設計 BWCW	CONTRACT NO. 合約編號 HY/2013/01	P. Dir. APPROVED 批准人 EMSC
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DRAWN BY 繪圖 WSY	STATUS 階段
SCALE 比例 A1 1 : 2500	

DIMENSIONS ARE IN 尺寸單位 METRES  
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Plot File by : 2013/9/10 WANGSY





**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 2.1
- PORTION 2.2
- 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	內務圖則	黃啟	

**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** Aedas  
**BURO HAPPOLD ATKINS ADI** +

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

DESIGNED BY BWCW	CONTRACT NO. HY/2013/01	P. DIR. APPROVED TKH
DRAWN BY WSY	STATUS 釋放	<b>WORKING DRAWING</b>
SCALE 1:1000		
DIMENSIONS ARE IN METRES		© COPYRIGHT RESERVED 版權所有

**SETTING OUT POINT**

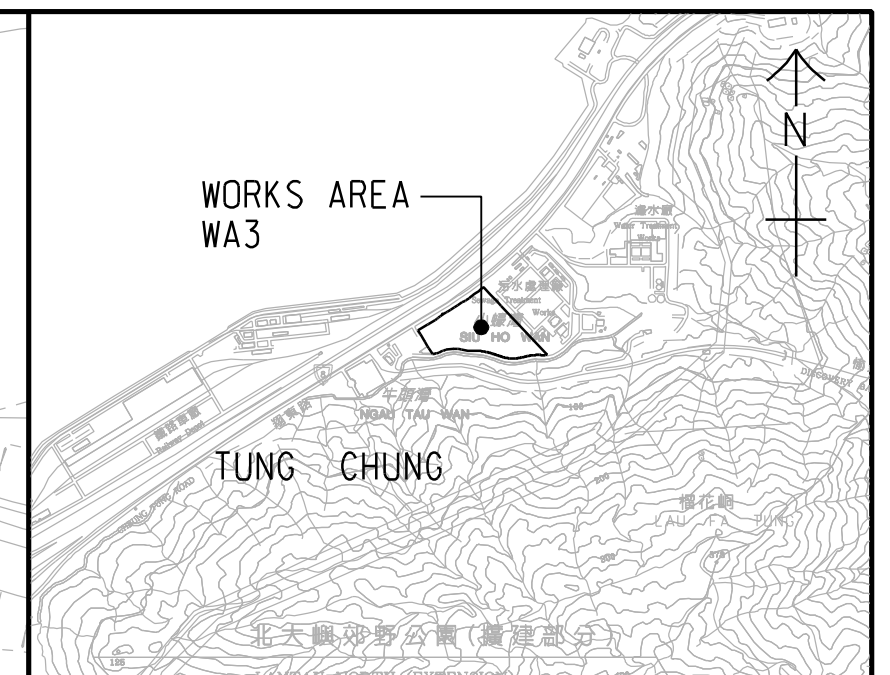
POINT	EASTING	NORTHING
201	813071.417	817531.755
202	813046.124	817528.520
203	813041.528	817559.119
204	812918.331	817540.618
205	812754.843	817398.454
206	812767.133	817302.381
207	812780.486	817294.062
208	812745.200	817289.613
209	812752.963	817300.569
210	812748.782	817300.034
211	812734.825	817409.146
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



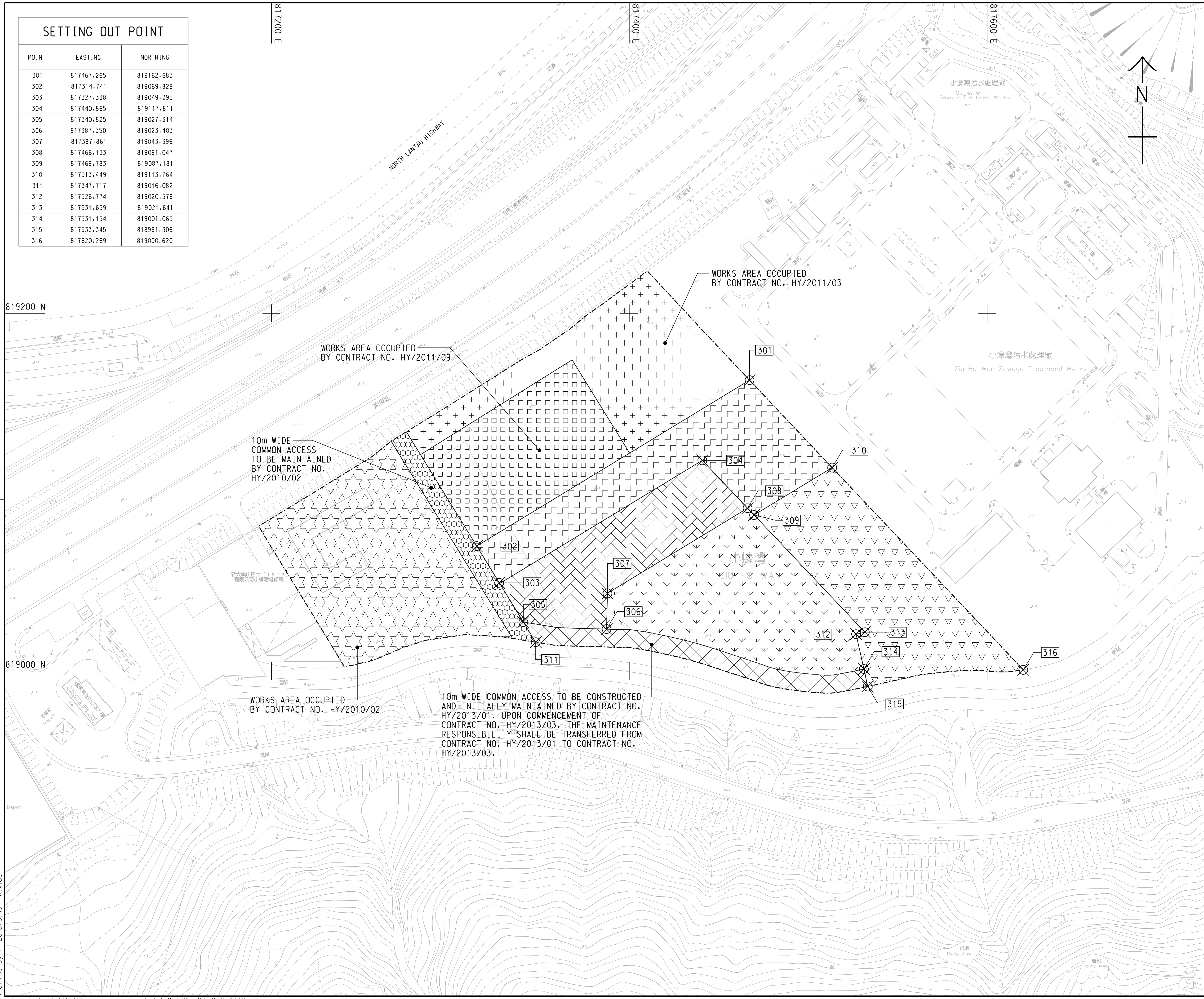
LOCATION PLAN  
SCALE 1 : 25000

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



A	WORKING DRAWING	BWCW SCI JUN. 14
-	TENDER DRAWING	BWCW SCI SEP. 13
REV. 修改	DESCRIPTION 内容摘要	CHECKED 查核 DATE 日期

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 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	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		<b>WORKING DRAWING</b>	
SCALE 比例	A1 1 : 1000	DIMENSIONS ARE IN 尺寸單位 METRES			
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Plot File by : 2013/9/10 WANGSY



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

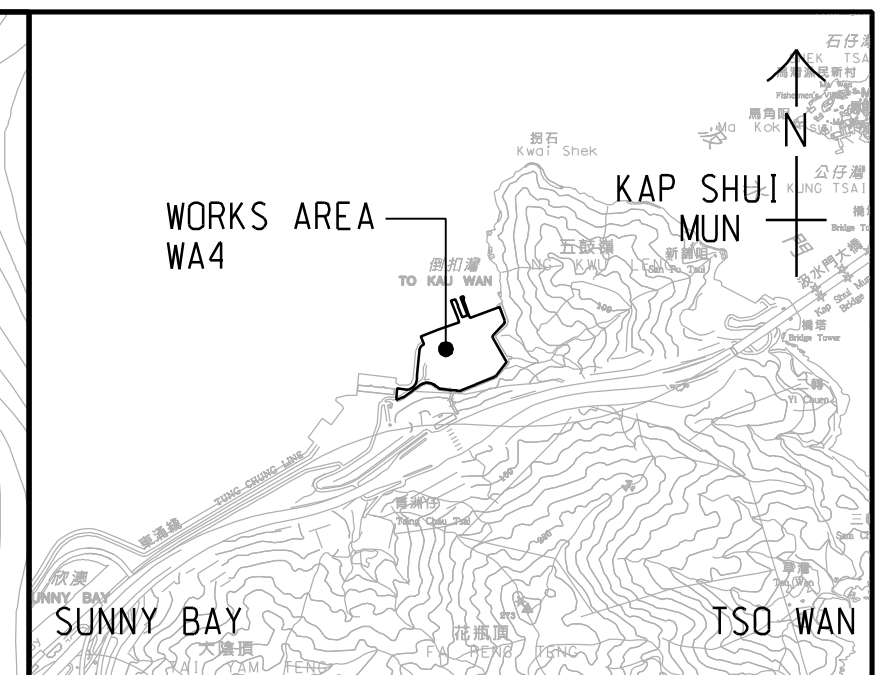
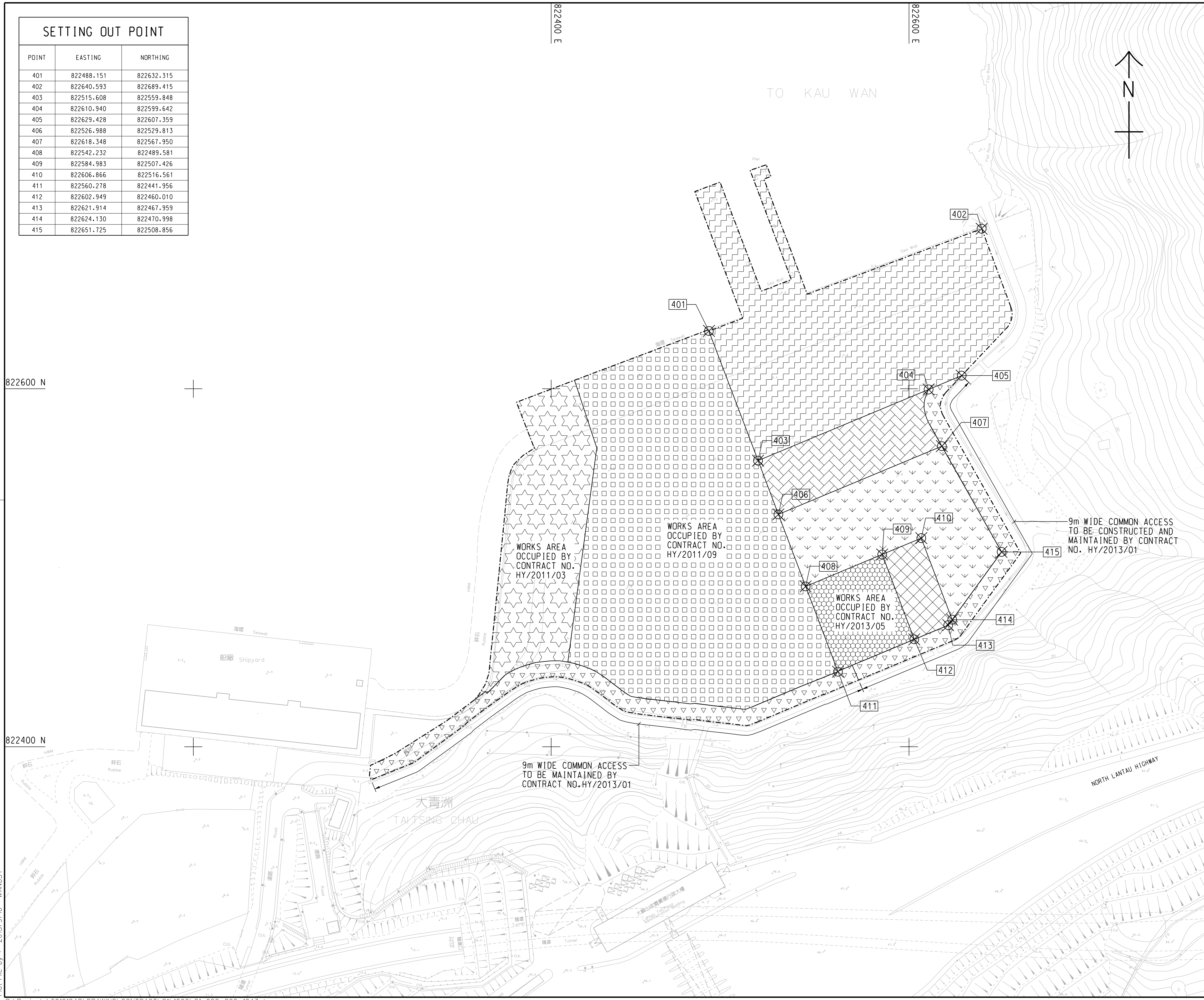
822400 E

822600 E

822600 N

822400 N

Plot File by : 2013/9/10 WANGSY



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
- [Star Pattern] PORTION 4.1
- [Diagonal Lines] PORTION 4.2
- [Inverted Triangles] PORTION 4.3
- [Triangles] PORTION 4.4
- [Cross-hatch] PORTION 4.5
- [Circles] PORTION 4.6
- [Squares] PORTION 4.7
- [Squares] PORTION 4.8

REV.	DESCRIPTION	DATE
1	TENDER DRAWING	SEP.13

路政署 HIGHWAYS DEPARTMENT  
香港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
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DRAWN BY WSY	STATUS 補放
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SCALE 1:1000  
DIMENSIONS ARE IN METRES  
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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  
48<sup>th</sup> Monthly EM&A Report

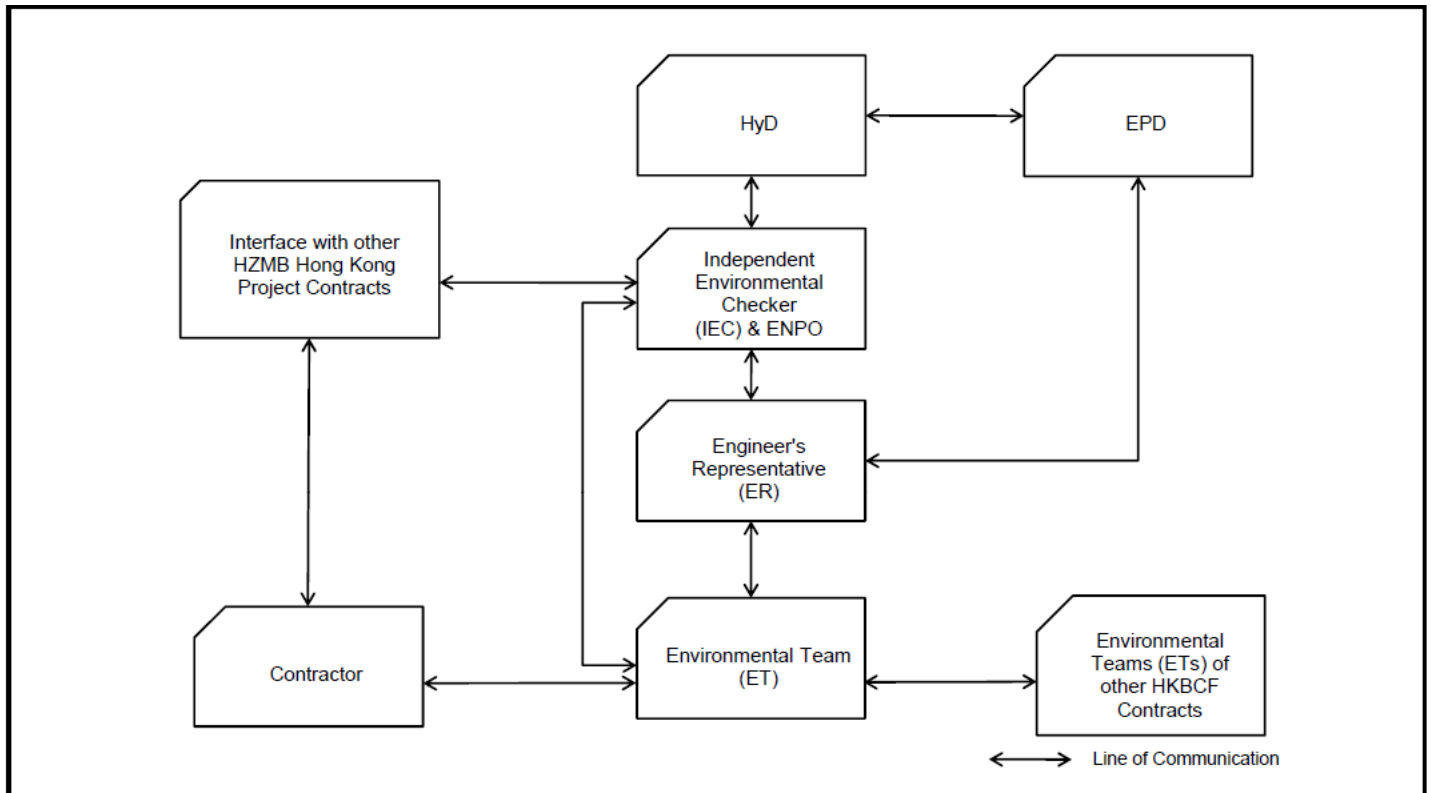
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# APPENDIX B

---

## 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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX C

---

## Construction Programme

# CONSTRUCTION SCHEDULE

Leighton - Chun Wo Joint Venture

TASK DESCRIPTION	2018		
	Sep	Oct	Nov
<b>Remaining Work</b>			
Maintenance Work upon request			

Updated in October 2018



Activity ID	Activity Name
<b>Hong Kong-Zhuhai_Macao Bridge Hong Kong Boundary Crossing F</b>	
<b>Key Dates</b>	
<b>Interface Activities</b>	
<b>Site and Facility Inspection</b>	
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
<b>Access Dates</b>	
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 (330d)
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 (330d), 31-May-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

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
AD1530	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 1																		
AD1531	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d) Phase 2																		
AD1540	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 1																		
AD1541	Location 12(Inbd GV Kiosks (028))-Deg1 (400d) Phase 2																		
AD1550	Location 12(Inbd GV Kiosks (028))-Deg2 (480d) Phase 1																		
AD1551	Location 12(Inbd GV Kiosks (028))-Deg2 (480d) Phase 2																		
AD1560	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d) Phase 1																		
AD1561	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d) Phase 2																		
AD1570	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d) Phase 1																		
AD1571	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d) Phase 2																		
AD1580	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 1																		
AD1581	Location 12(Outbd GV Kiosks (029))-Deg1 (400d) Phase 2																		
AD1590	Location 12(Outbd GV Kiosks (029))-Deg2 (480d) Phase 1																		
AD1591	Location 12(Outbd GV Kiosks (029))-Deg2 (480d) Phase 2																		
AD1600	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d) Phase 1																		
AD1601	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d) Phase 2																		
AD1610	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d) Phase 1																		
AD1611	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d) Phase 2																		
AD1620	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d) Phase 1																		
AD1630	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d) Phase 1																		
AD1640	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d) Phase 1																		
AD1650	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d) Phase 1																		
AD1660	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)																		
AD1670	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg2 (680d)																		
AD1700	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)																		
AD1710	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)																		
AD1740	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)																		
AD1750	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)																		
AD1780	(by C03) Underground Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (0																		
AD1790	(by C03) (UUD1.2) between Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo C																		
AD1800	(by C03) (UUD2) between Inbd Cargo Exam Bldg North (037[N]) and Inbd Vehicle Cle																		
AD1810	(by C03) (UUD9.1) btw Inbd Cargo Exam Bldg S.(037[S]) & Inbd PC Exam Bldg(033) &																		
AD1820	(by C03) (UUD9.3) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clear																		
AD1830	(by C03) (UUD9.2) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clear																		
AD1840	(by C03) Underground Ducting (UUD3.1) between CUE to Outbd Cargo Exam Bldg (0																		
AD1850	(by C03) (UUD3.2) btw Outbd Car Exam Bldg (023) and Outbd PC Exam Bldg (024) ai																		
AD1860	(byC03) (UUD4.1) between Outbd Private Car Exam Bldg (024) and Outbd Vehicle Cle																		
AD1870	(byC03) (UUD5) between Outbd Car Exam Bldg South (023[S]) and Outbd Vehicle Cle																		
AD1880	(by C03) Underground Ducting (UUD8) between CUE and Outbd PCA (032)																		
AD1910	(by C03) Inbound Vehicle Clearance Plaza																		
AD1920	(by C03) Outbound Vehicle Clearance Plaza																		
<b>Interfaces Provisions</b> <b>Mobilization Provisions</b> <b>WA4 Site Erection &amp; Servicing</b>																			

Programme No.: HZMB-DWP Data Date: 14-Aug-15		<b>Hong Kong-Zhuhai-Macao Bridge</b> <b>Hong Kong Boundary Crossing</b> <b>Facilities - Automatic Vehicle</b> <b>Clearance Support System (AVCSS)</b>	Date	Revision	Checked	Approved
			14-Nov-16	Rev.: 0	WC	LC
			10-Mar-17	Rev.: 1.0a	WC	LC
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Activity ID	Activity Name	2015		2016				2017				2018				2019		
		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
<ul style="list-style-type: none"> <li>Detailed Design Specification</li> <li>Construction Design and Management</li> <li>Supply/Manufacture Mock-up items</li> <li>Supply/Manufacture prototypes</li> <li>Software Design, Coding and Testing                             <ul style="list-style-type: none"> <li>Coding</li> <li>Software System Integration</li> </ul> </li> <li>Prototype &amp; Software Simulation Tests</li> <li>Procurement - Phase 1 / Section I</li> <li>Supply/Manufacture products for FAT</li> <li>Factory Acceptance Test (FAT)</li> <li>Supply/Manufacture Equipment</li> <li>Delivery and Bench Acceptance Test for Phase 1/ Section I</li> <li>Installation - Phase 1 / Section I                             <ul style="list-style-type: none"> <li>Location 1(PCB (001) Basement)                                     <ul style="list-style-type: none"> <li>EM1920 L1(001)B/F - Cable Laying and termination at Location 1 and Location 2</li> </ul> </li> <li>Location 1(PCB (001) ELV Room (Grid Line E3))                                     <ul style="list-style-type: none"> <li>EM1940 L1(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2</li> </ul> </li> <li>Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))                                     <ul style="list-style-type: none"> <li>EM1960 L2(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2</li> </ul> </li> <li>Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5))                                     <ul style="list-style-type: none"> <li>EM1080 L2(001)Heath Ctrl Rm - Cable Laying and termination at Location 1 and Location 2</li> <li>EM1100 L2(001)Heath Ctrl Rm - Cable Splicing and Testing and Labeling</li> <li>EM1120 L2(001)Health Ctrl Rm - Intercom and PA system Installation</li> <li>EM1140 L2(001)Heath Ctrl Rm - Intercom and PA system tuning</li> </ul> </li> <li>Location 2(PCB (001) First Floor Main Server Room)                                     <ul style="list-style-type: none"> <li>EM1000 L2(001)Main Server Rm - Cable Laying and termination at Location 1 and Location 2</li> <li>EM1020 L2(001)Main Server Rm - Cable Splicing and Testing and Labeling</li> <li>EM1040 L2(001)Main Server Rm - AVCSS Network and Server Installation</li> <li>EM1060 L2(001)Main Server Rm - AVCSS Network and Server Tuning</li> </ul> </li> <li>Location 3(Inbd Cargo Exam Bldg (037) MDF Room)</li> <li>Location 3(Inbd Cargo Exam Bldg (037) ELV Room)</li> <li>Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,141)                                     <ul style="list-style-type: none"> <li>EM2020 L3(037)Inspec Offices - Cable Laying and termination in Location 3 and Location 3a</li> <li>EM2040 L3(037)Inspec Offices - Cable Splicing and Testing and Labeling</li> <li>EM2060 L3(037)Inspec Offices - AVCSS SURCON WS and 55" LCD Installation</li> <li>EM2080 L3(037)Inspec Offices - VTS WS Installation</li> <li>EM2100 L3(037)Inspec Offices - SURCON and WS Tuning</li> </ul> </li> <li>Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)                                     <ul style="list-style-type: none"> <li>EM1160 L3(037)PLF Ctrl Rm - Cable Laying and termination in Location 3 and Location 3a</li> <li>EM1180 L3(037)PLF Ctrl Rm - Cable Splicing and Testing and Labeling</li> <li>EM1200 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55" TV Wall Installation</li> <li>EM1220 L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning</li> </ul> </li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>01-Sep-17, Installation - Phase 1 / Section I</li> <li>22-Jun-17, Location:1(PCB (001),Basement)                             <ul style="list-style-type: none"> <li>L1(001)B/F - Cable Laying and termination at Location</li> </ul> </li> <li>22-Jun-17, Location:1(PCB (001),ELV Room (Grid Line                             <ul style="list-style-type: none"> <li>L1(001)ELV Rm - Cable Laying and termination at Loca</li> </ul> </li> <li>22-Jun-17, Location:2(PCB (001),Ground Floor ELV R                             <ul style="list-style-type: none"> <li>L2(001)ELV Rm - Cable Laying and termination at Loca</li> </ul> </li> <li>18-Aug-17, Location:2(PCB (001),Ground Floor DO                             <ul style="list-style-type: none"> <li>L2(001)Heath Ctrl Rm - Cable Laying and termination</li> <li>L2(001)Heath Ctrl Rm - Cable Splicing and Testing and</li> <li>L2(001)Health Ctrl Rm - Intercom and PA system In</li> <li>L2(001)Health Ctrl Rm - Intercom and PA system tu</li> </ul> </li> <li>21-Aug-17, Location:2(PCB (001) First Floor Main                             <ul style="list-style-type: none"> <li>L2(001)Main Server Rm - Cable Laying and terminatio</li> <li>L2(001)Main Server Rm - Cable Splicing and Testing</li> <li>L2(001)Main Server Rm - AVCSS Network and Ser</li> <li>L2(001)Main Server Rm - AVCSS Network and Se</li> </ul> </li> <li>07-Aug-17, Location 3(Inbd Cargo Exam Bldg (037)                             <ul style="list-style-type: none"> <li>L3(037)Inspec Offices - Cable Laying and termination in</li> <li>L3(037)Inspec Offices - Cable Splicing and Testing and</li> <li>L3(037)Inspec Offices - AVCSS SURCON WS and 55</li> <li>L3(037)Inspec Offices - VTS WS Installation</li> <li>L3(037)Inspec Offices - SURCON and WS Tuning</li> </ul> </li> <li>07-Aug-17, Location 3(Inbd Cargo Exam Bldg (037)                             <ul style="list-style-type: none"> <li>L3(037)PLF Ctrl Rm - Cable Laying and termination in</li> <li>L3(037)PLF Ctrl Rm - Cable Splicing and Testing and</li> <li>L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55</li> <li>L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning</li> </ul> </li> </ul>																

Programme No.: HZMB-DWP  
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- 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
EM1700	L12(028)(5nos P1) - AIOP Installation (5 nos)																		
EM1720	L12(028)(5nos P1) - Loop installation (25 nos)																		
<b>Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)</b>																			
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)																		
<b>Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)</b>																			
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)																		
<b>Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos</b>																			
EM1440	L14 - Cable Laying and termination at ELV Room in CUE																		
<b>Location 15(Inbd Traffic Control Kiosk (100))</b>																			
<b>Location 16(Outbd Traffic Control Kiosk (101))</b>																			
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																		
<b>Location 17(Inbd Private Car Exam Bldg(033) Operational Office)</b>																			
<b>Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)</b>																			
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																		
<b>Location 19 (DOH Cargo Clearance Bldg(043))</b>																			
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																		
<b>Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS</b>																			
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		<b>Hong Kong-Zhuhai-Macao Bridge</b> <b>Hong Kong Boundary Crossing</b> <b>Facilities - Automatic Vehicle</b> <b>Clearance Support System (AVCSS)</b>	Date	Revision	Checked	Approved
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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
<b>Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS</b>		<ul style="list-style-type: none"> <li>EM3160 Outbound VID cabling from pillar box to VID field equipment</li> <li>EM3180 Outbound VTS cabling from pillar box to VTS field equipment</li> <li>EM3200 Outbound TLS cabling from pillar box to TLS field equipment</li> <li>EM3220 Outbound VID field equipment installation (8 VID)</li> <li>EM3240 Outbound VTS field equipment installation (3 RFID + 3 Cameras)</li> <li>EM3260 Outbound TLS field equipment installation (4 TLS)</li> <li>EM3280 Outbound VID and VTS and TLS field equipment tuning</li> </ul>																	
<b>Underground Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (037)</b>		<ul style="list-style-type: none"> <li>UD1000 (UUD1.1 [CUE-037]) - Cable laying and termination</li> </ul>																	
<b>(UUD1.2) between Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo Clearance Bldg (037[S])</b>		<ul style="list-style-type: none"> <li>UD1060 (UUD1.2 [037[S]-043]) - Cable laying and termination</li> </ul>																	
<b>Underground Ducting (UUD6) between CUE and Shuttle Bus Kiosk (006) and Inbd Private Car Exam Bldg (033)</b>		<ul style="list-style-type: none"> <li>UD1040 (UUD9.1 [037[S]-033-100]) - Cable laying and termination</li> </ul>																	
<b>(UUD9.1) btw IB Cargo Exam Bldg South(037[S]) &amp; IB PC Exam Bldg(033) &amp; IB Traffic Control Bldg (033)</b>		<ul style="list-style-type: none"> <li>UD1010 (UUD2 [037[N]-IB VCP]) - Cable laying and termination</li> </ul>																	
<b>(UUD2) between Inbd Cargo Exam Bldg North (037[N]) to Inbd VCP</b>		<ul style="list-style-type: none"> <li>UD1070 (UUD9.3 [033-IB VCP[W]]) - Cable laying and termination</li> </ul>																	
<b>(UUD9.3) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clearance Plaza</b>		<ul style="list-style-type: none"> <li>UD1020 (UUD9.2 [033-IB VCP[E]]) - Cable laying and termination</li> </ul>																	
<b>(UUD9.2) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clearance Plaza</b>		<ul style="list-style-type: none"> <li>UD1030 (UUD7 [033-IB VCP[E]]) - Cable laying and termination</li> </ul>																	
<b>Underground Ducting (UUD7) between PCB(001) and Inbd Coach Kiosks(010)</b>		<ul style="list-style-type: none"> <li>UD1030 (UUD3.1 [CUE-023]) - Cable laying and termination</li> </ul>																	
<b>Underground Ducting (UUD3.1) between CUE and Outbd Cargo Exam Bldg (023)</b>		<ul style="list-style-type: none"> <li>UD1050 (UUD3.2 [023-024-101]) - Cable laying and termination</li> </ul>																	
<b>(UUD3.2) btw OB Car Exam Bldg(023) &amp; OB PC Exam Bldg(024) &amp; OB Traffic Control Bldg (023)</b>		<ul style="list-style-type: none"> <li>UD1100 (UUD8 [CUE-032]) - Cable laying and termination</li> </ul>																	
<b>Underground Ducting (UUD8) between CUE and Outbd PCA (032)</b>		<ul style="list-style-type: none"> <li>UD1080 (UUD4.1 [024-OB VCP]) - Cable laying and termination</li> </ul>																	
<b>(UUD4.1) between Outbd PC Exam Bldg (024) and Outbd Vehicle Clearance Plaza</b>		<ul style="list-style-type: none"> <li>UD1090 (UUD5 [023[S]-OB VCP]) - Cable laying and termination</li> </ul>																	
<b>(UUD5) between Outbd Car Exam Bldg (023[S]) and Outbd Vehicle Clearance Plaza</b>		<ul style="list-style-type: none"> <li>UD1090 (UUD5 [023[S]-OB VCP]) - Cable laying and termination</li> </ul>																	
<b>Initial On-Site Test and Commissioning / Pre-SAT (Phase 1 / Section I)</b>																			
<b>Site Acceptance Test (Phase 1 / Section I)</b>																			
<b>Security Risk Assessment and Audit</b>																			
<b>Operability Period Test (Phase 1 / Section I)</b>																			
<b>Completion (Phase 1 /Section I)</b>																			
<b>Training and Document (Phase 1 /Section I)</b>																			
<b>Operation (Phase 1 /Section I)</b>																			
<b>Engineering Support for Phase 1 / Section I</b>																			
<b>Procurement - Phase 2 / Section II</b>																			
<b>Delivery and Bench Acceptance Test for Phase 2/Section II</b>																			
<b>Installation - Phase 2 / Section II</b>		<ul style="list-style-type: none"> <li>30-Aug-17; Installation -Phase 2/ Section II</li> </ul>																	

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul style="list-style-type: none"> <li>Actual Level of Effort</li> <li>Primary Baseline</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> <li>Baseline Milestone</li> <li>Milestone</li> </ul>	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
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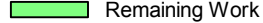



Activity ID	Activity Name	2015			2016				2017				2018				2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
<b>Location 8(Inbd Private Car Annex (025)) (Phase 2)</b>		30-Aug-17; Location 8(Inbd Private Car Annex (025)) (Phase 2)																	
EM3370	L8(025) - Cable Containment in Kiosks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

Programme No.: HZMB-DWP Data Date: 14-Aug-15		<b>Hong Kong-Zhuhai-Macao Bridge</b> <b>Hong Kong Boundary Crossing</b> <b>Facilities - Automatic Vehicle</b> <b>Clearance Support System (AVCSS)</b>	Date	Revision	Checked	Approved
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			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	
	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  
48<sup>th</sup> Monthly EM&A Report

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## **APPENDIX D**

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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	2018-09-06	AMS2 Tung Chung Pier	13:00	1-hr TSP	14	µg/m <sup>3</sup>
HKBCF	2018-09-06	AMS2 Tung Chung Pier	14:00	1-hr TSP	13	µg/m <sup>3</sup>
HKBCF	2018-09-06	AMS2 Tung Chung Pier	15:00	1-hr TSP	11	µg/m <sup>3</sup>
HKBCF	2018-09-12	AMS2 Tung Chung Pier	13:11	1-hr TSP	40	µg/m <sup>3</sup>
HKBCF	2018-09-12	AMS2 Tung Chung Pier	14:11	1-hr TSP	43	µg/m <sup>3</sup>
HKBCF	2018-09-12	AMS2 Tung Chung Pier	15:11	1-hr TSP	42	µg/m <sup>3</sup>
HKBCF	2018-09-18	AMS2 Tung Chung Pier	13:03	1-hr TSP	37	µg/m <sup>3</sup>
HKBCF	2018-09-18	AMS2 Tung Chung Pier	14:03	1-hr TSP	37	µg/m <sup>3</sup>
HKBCF	2018-09-18	AMS2 Tung Chung Pier	15:03	1-hr TSP	36	µg/m <sup>3</sup>
HKBCF	2018-09-24	AMS2 Tung Chung Pier	13:05	1-hr TSP	47	µg/m <sup>3</sup>
HKBCF	2018-09-24	AMS2 Tung Chung Pier	14:05	1-hr TSP	46	µg/m <sup>3</sup>
HKBCF	2018-09-24	AMS2 Tung Chung Pier	15:05	1-hr TSP	44	µg/m <sup>3</sup>
HKBCF	2018-09-28	AMS2 Tung Chung Pier	13:16	1-hr TSP	54	µg/m <sup>3</sup>
HKBCF	2018-09-28	AMS2 Tung Chung Pier	14:16	1-hr TSP	57	µg/m <sup>3</sup>
HKBCF	2018-09-28	AMS2 Tung Chung Pier	15:16	1-hr TSP	52	µg/m <sup>3</sup>
HKBCF	2018-09-05	AMS2 Tung Chung Pier	11:21	24-hr TSP	39	µg/m <sup>3</sup>
HKBCF	2018-09-11	AMS2 Tung Chung Pier	08:00	24-hr TSP	79	µg/m <sup>3</sup>
HKBCF	2018-09-17	AMS2 Tung Chung Pier	16:10	24-hr TSP	33	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS2 Tung Chung Pier	08:00	24-hr TSP	33	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS2 Tung Chung Pier	08:00	24-hr TSP	68	µg/m <sup>3</sup>

## Air Quality Monitoring Data

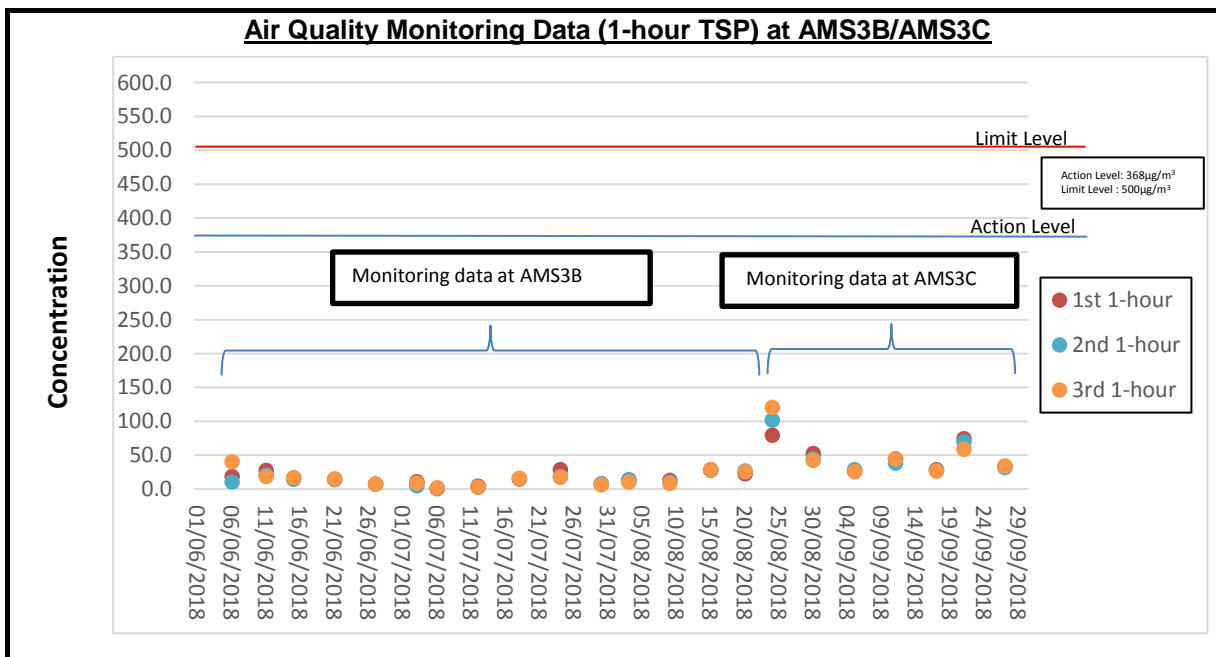
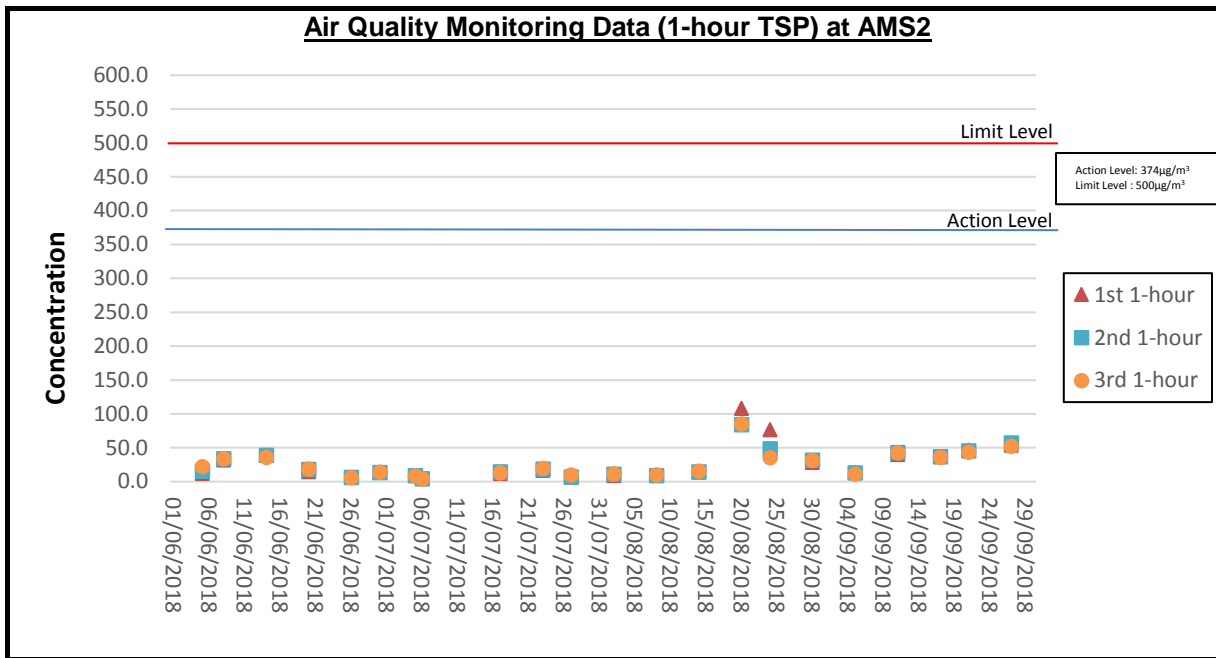
Project	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKBCF	2018-09-05	AMS3C Ying Tung Estate Market Rooftop	13:42	1-hr TSP	27	µg/m <sup>3</sup>
HKBCF	2018-09-05	AMS3C Ying Tung Estate Market Rooftop	14:42	1-hr TSP	29	µg/m <sup>3</sup>
HKBCF	2018-09-05	AMS3C Ying Tung Estate Market Rooftop	15:42	1-hr TSP	26	µg/m <sup>3</sup>
HKBCF	2018-09-11	AMS3C Ying Tung Estate Market Rooftop	13:26	1-hr TSP	45	µg/m <sup>3</sup>
HKBCF	2018-09-11	AMS3C Ying Tung Estate Market Rooftop	14:26	1-hr TSP	39	µg/m <sup>3</sup>
HKBCF	2018-09-11	AMS3C Ying Tung Estate Market Rooftop	15:26	1-hr TSP	45	µg/m <sup>3</sup>
HKBCF	2018-09-17	AMS3C Ying Tung Estate Market Rooftop	13:20	1-hr TSP	29	µg/m <sup>3</sup>
HKBCF	2018-09-17	AMS3C Ying Tung Estate Market Rooftop	14:20	1-hr TSP	28	µg/m <sup>3</sup>
HKBCF	2018-09-17	AMS3C Ying Tung Estate Market Rooftop	15:20	1-hr TSP	27	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS3C Ying Tung Estate Market Rooftop	13:27	1-hr TSP	75	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS3C Ying Tung Estate Market Rooftop	14:27	1-hr TSP	70	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS3C Ying Tung Estate Market Rooftop	15:27	1-hr TSP	59	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS3C Ying Tung Estate Market Rooftop	13:30	1-hr TSP	34	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS3C Ying Tung Estate Market Rooftop	14:30	1-hr TSP	32	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS3C Ying Tung Estate Market Rooftop	15:30	1-hr TSP	34	µg/m <sup>3</sup>
HKBCF	2018-09-05	AMS3C Ying Tung Estate Market Rooftop	09:00	24-hr TSP	32	µg/m <sup>3</sup>
HKBCF	2018-09-11	AMS3C Ying Tung Estate Market Rooftop	13:26	24-hr TSP	67	µg/m <sup>3</sup>
HKBCF	2018-09-17	AMS3C Ying Tung Estate Market Rooftop	13:25	24-hr TSP	40	µg/m <sup>3</sup>

Air Quality Monitoring Data

HKBCF	2018-09-21	AMS3C Ying Tung Estate Market Rooftop	13:36	24-hr TSP	34	$\mu\text{g}/\text{m}^3$
HKBCF	2018-09-27	AMS3C Ying Tung Estate Market Rooftop	13:35	24-hr TSP	49	$\mu\text{g}/\text{m}^3$

## Air Quality Monitoring Data

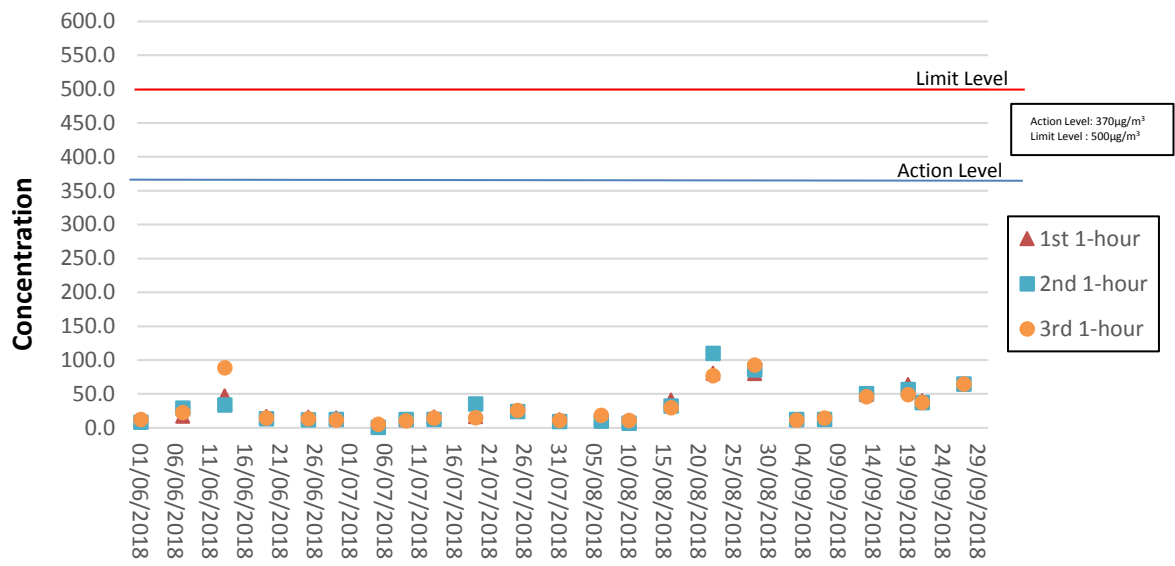
Project	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKBCF	2018-09-03	AMS7B 3RS Site Office	14:08	1-hr TSP	12	µg/m <sup>3</sup>
HKBCF	2018-09-03	AMS7B 3RS Site Office	15:08	1-hr TSP	12	µg/m <sup>3</sup>
HKBCF	2018-09-03	AMS7B 3RS Site Office	16:08	1-hr TSP	11	µg/m <sup>3</sup>
HKBCF	2018-09-07	AMS7B 3RS Site Office	13:41	1-hr TSP	14	µg/m <sup>3</sup>
HKBCF	2018-09-07	AMS7B 3RS Site Office	14:41	1-hr TSP	12	µg/m <sup>3</sup>
HKBCF	2018-09-07	AMS7B 3RS Site Office	15:41	1-hr TSP	15	µg/m <sup>3</sup>
HKBCF	2018-09-13	AMS7B 3RS Site Office	13:46	1-hr TSP	49	µg/m <sup>3</sup>
HKBCF	2018-09-13	AMS7B 3RS Site Office	14:46	1-hr TSP	51	µg/m <sup>3</sup>
HKBCF	2018-09-13	AMS7B 3RS Site Office	15:46	1-hr TSP	46	µg/m <sup>3</sup>
HKBCF	2018-09-19	AMS7B 3RS Site Office	13:46	1-hr TSP	64	µg/m <sup>3</sup>
HKBCF	2018-09-19	AMS7B 3RS Site Office	14:46	1-hr TSP	57	µg/m <sup>3</sup>
HKBCF	2018-09-19	AMS7B 3RS Site Office	15:46	1-hr TSP	49	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS7B 3RS Site Office	13:38	1-hr TSP	40	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS7B 3RS Site Office	14:38	1-hr TSP	38	µg/m <sup>3</sup>
HKBCF	2018-09-21	AMS7B 3RS Site Office	15:38	1-hr TSP	38	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS7B 3RS Site Office	14:00	1-hr TSP	65	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS7B 3RS Site Office	15:00	1-hr TSP	65	µg/m <sup>3</sup>
HKBCF	2018-09-27	AMS7B 3RS Site Office	16:00	1-hr TSP	65	µg/m <sup>3</sup>
HKBCF	2018-09-03	AMS7B 3RS Site Office	17:12	24-hr TSP	54	µg/m <sup>3</sup>
HKBCF	2018-09-06	AMS7B 3RS Site Office	08:00	24-hr TSP	51	µg/m <sup>3</sup>
HKBCF	2018-09-12	AMS7B 3RS Site Office	08:00	24-hr TSP	60	µg/m <sup>3</sup>
HKBCF	2018-09-24	AMS7B 3RS Site Office	13:35	24-hr TSP	44	µg/m <sup>3</sup>
HKBCF	2018-09-26	AMS7B 3RS Site Office	14:04	24-hr TSP	79	µg/m <sup>3</sup>
HKBCF	2018-09-28	AMS7B 3RS Site Office	08:00	24-hr TSP	170	µg/m <sup>3</sup>

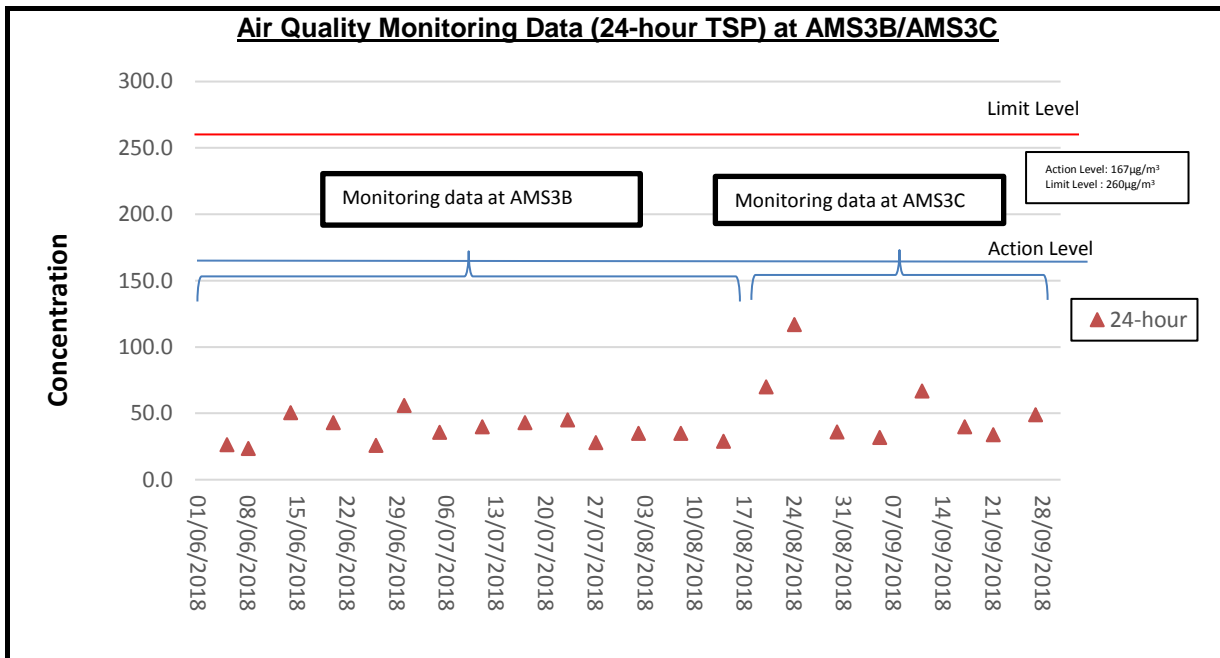
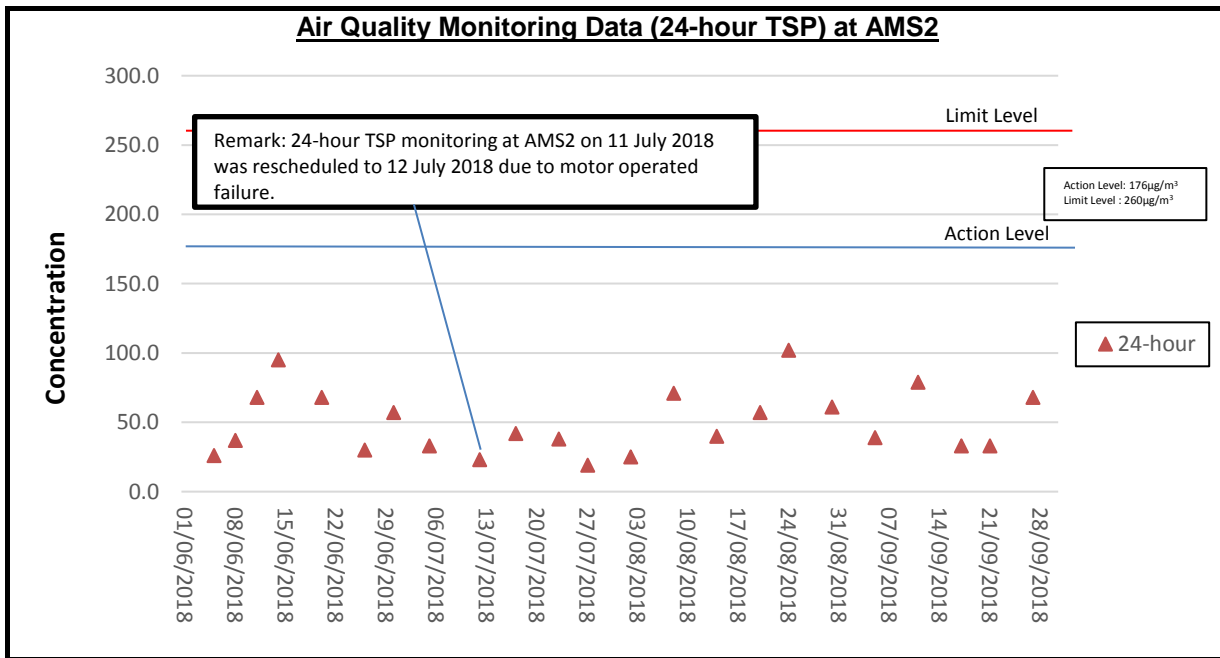


Remark: Air Quality Monitoring at AMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.



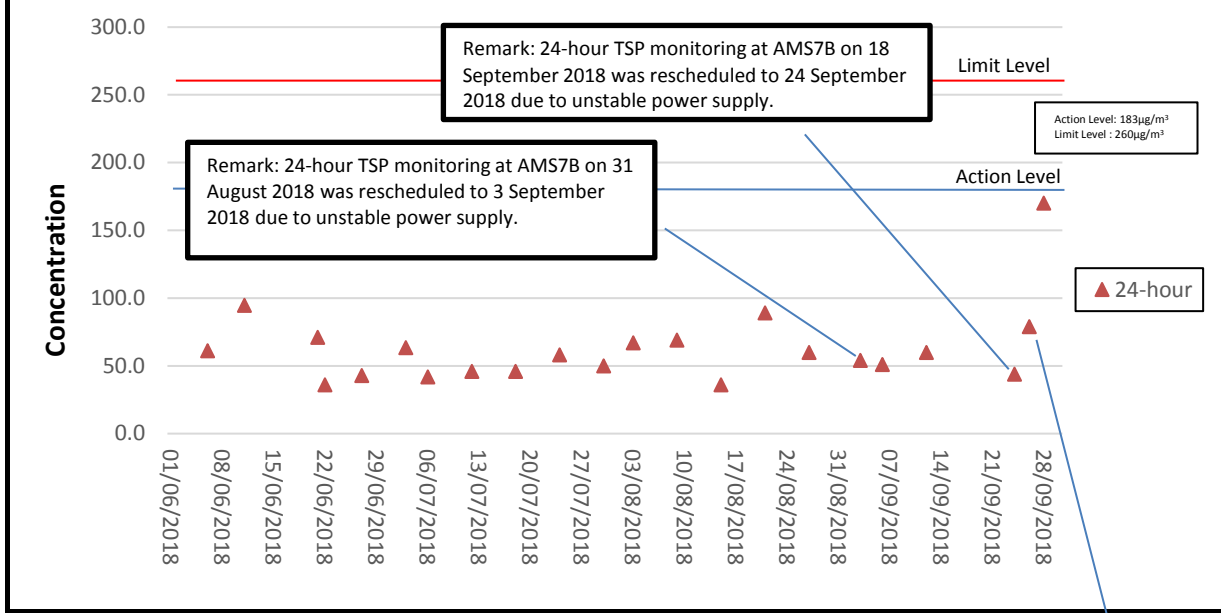
### Air Quality Monitoring Data (1-hour TSP) at AMS7B





Remark: Air Quality Monitoring at AMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.

### Air Quality Monitoring Data (24-hour TSP) at AMS7B



Remark: An additional 24-hour TSP air quality monitoring at AMS7B was conducted on 26 September 2018

Noise Monitoring Data

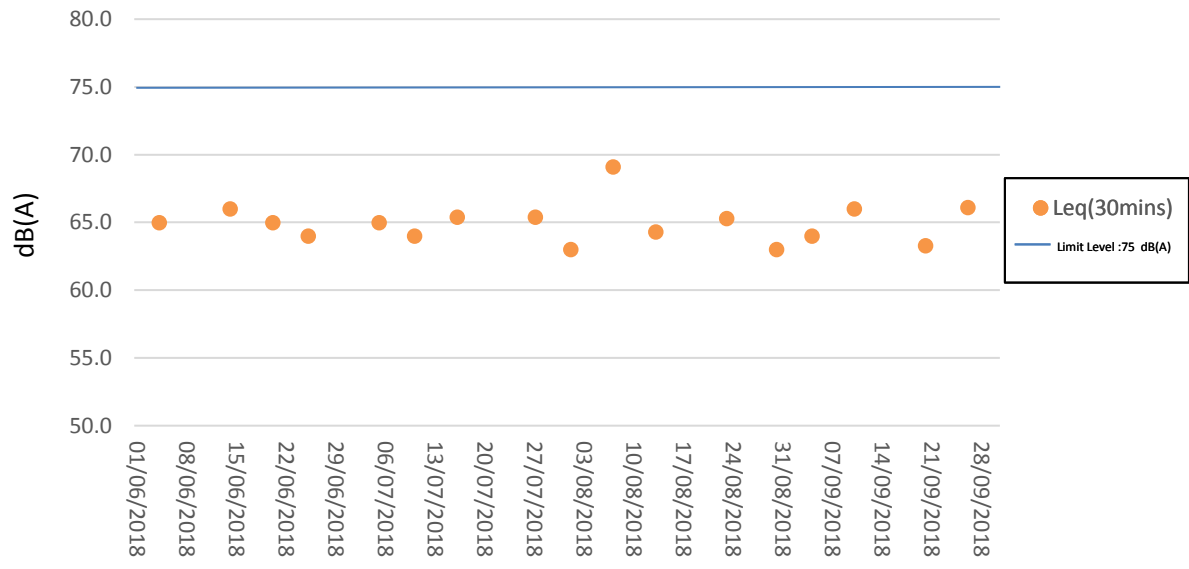
Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time	Noise Level for 30 min, dB(A)*			Wind Speed, m/s	Façade/Free Field	Remark
						Leq	L10	L90			
HKBCF	HY/2013/01	2018-09-04	NMS2	Sunny	14:56	64	67	60	<5	Façade	
HKBCF	HY/2013/04	2018-09-05	NMS3C	Cloudy	13:50	70	72	68	<5	Free-field*	
HKBCF	HY/2013/01	2018-09-10	NMS2	Cloudy	14:39	66	68	61	<5	Façade	
HKBCF	HY/2013/04	2018-09-11	NMS3C	Sunny	13:44	70	71	68	<5	Free-field*	
HKBCF	HY/2013/04	2018-09-17	NMS3C	Fine	13:41	69	71	68	<5	Free-field*	
HKBCF	HY/2013/01	2018-09-20	NMS2	Sunny	14:56	63	66	60	<5	Façade	
HKBCF	HY/2013/01	2018-09-26	NMS2	Fine	14:16	66	69	61	<5	Façade	
HKBCF	HY/2013/04	2018-09-27	NMS3C	Fine	13:46	70	71	69	<5	Free-field*	

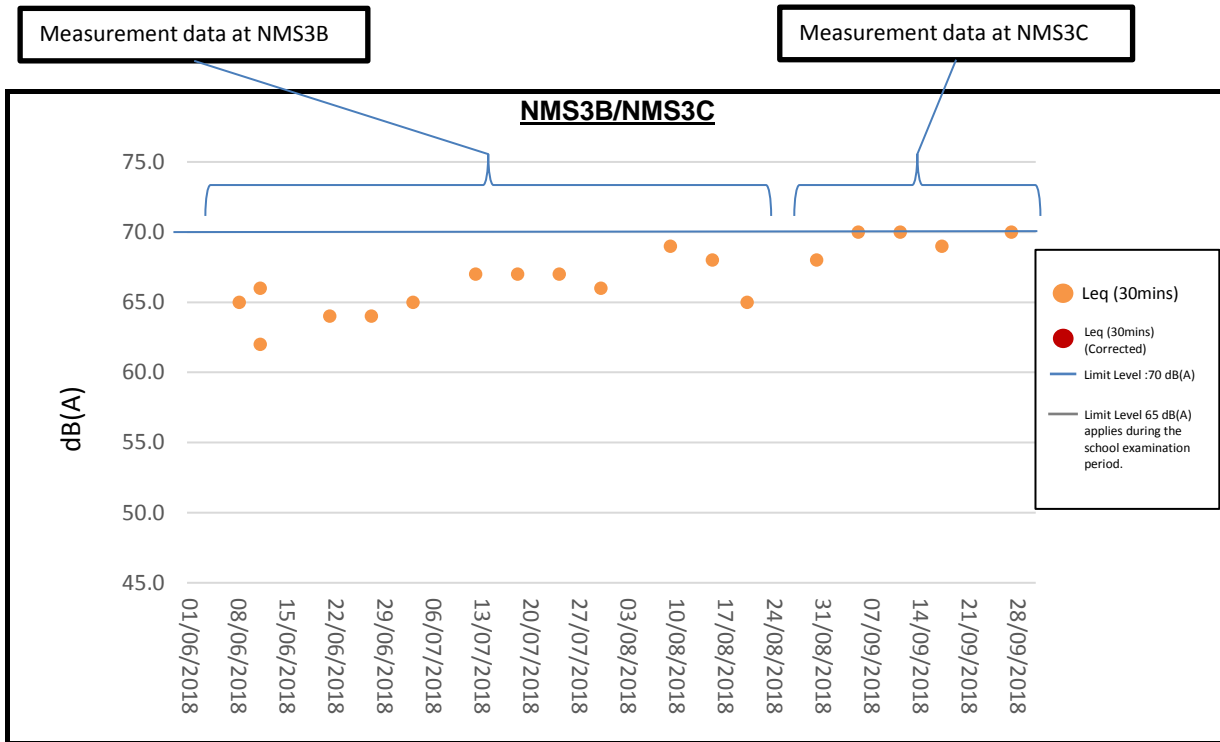
Remarks

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

Noise Monitoring at NMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.

### NMS2





Remark: Noise Monitoring at NMS3C has been undertaken by the ET for Contract No. HY/2013/04 since 20 August 2018.

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	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	1.0	Surface	1	1	27.30	7.80	15.00	87.2	6.40	2.9	1.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	1.0	Surface	1	2	27.30	7.80	15.20	87.1	6.30	2.4	1.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	5.9	Middle	2	1	27.30	7.80	15.60	86.7	6.30	6.4	2.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	5.9	Middle	2	2	27.30	7.90	15.70	86.8	6.30	6.4	2.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	10.8	Bottom	3	1	27.30	7.80	16.10	86.4	6.30	1.6	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10A(N)	4:38:00	10.8	Bottom	3	2	27.30	7.90	16.20	86.7	6.30	2.1	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	1.0	Surface	1	1	27.20	7.90	19.60	68.9	4.90	2.7	2.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	1.0	Surface	1	2	27.20	8.00	19.70	69.1	4.90	2.1	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	3.1	Middle	2	1	26.60	8.00	22.00	61.6	4.40	4.0	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	3.1	Middle	2	2	26.70	8.00	22.20	63.7	4.50	3.3	2.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	5.2	Bottom	3	1	25.50	8.00	24.90	57.8	4.10	4.4	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR10B(N2)	4:48:00	5.2	Bottom	3	2	25.60	8.00	24.90	56.6	4.00	3.7	2.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	1.0	Surface	1	1	28.00	7.80	15.40	69.9	5.00	3.2	2.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	1.0	Surface	1	2	27.90	7.80	15.40	70.0	5.00	3.0	2.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	16.2	Middle	2	1	26.00	7.90	25.00	59.7	4.20	3.1	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	16.2	Middle	2	2	26.00	7.90	25.10	59.5	4.20	2.8	2.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	31.4	Bottom	3	1	25.10	7.90	28.20	53.1	3.70	6.9	2.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CSA	5:07:00	31.4	Bottom	3	2	25.10	7.90	27.80	52.8	3.70	6.8	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	1.0	Surface	1	1	28.10	7.80	14.70	70.4	5.10	3.0	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	1.0	Surface	1	2	28.10	7.70	14.60	70.3	5.10	2.8	2.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	5.2	Middle	2	1	27.50	7.80	18.70	67.8	4.80	3.3	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	5.2	Middle	2	2	27.50	7.80	18.70	67.7	4.80	3.1	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	9.3	Bottom	3	1	26.70	7.80	22.40	70.1	5.00	3.2	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS6	5:28:00	9.3	Bottom	3	2	26.70	7.80	21.90	69.8	5.00	3.1	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	1.0	Surface	1	1	28.30	7.60	11.20	63.5	4.70	4.7	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	1.0	Surface	1	2	28.20	7.60	11.10	63.6	4.70	4.5	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	8.6	Middle	2	1	26.90	7.80	22.40	61.1	4.30	4.4	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	8.6	Middle	2	2	26.90	7.80	22.60	61.0	4.30	4.1	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	16.2	Bottom	3	1	26.30	7.90	24.50	61.1	4.30	4.3	5.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS4	6:40:00	16.2	Bottom	3	2	26.20	7.90	24.70	61.0	4.30	4.1	5.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00	1.0	Surface	1	1	28.20	7.50	7.60	66.4	5.00	5.4	5.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00	1.0	Surface	1	2	28.20	7.60	7.50	66.0	4.90	5.1	5.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00	3.3	Bottom	3	1	28.10	7.60	10.90	73.6	5.40	4.6	6.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR6	7:10:00	3.3	Bottom	3	2	28.10	7.60	10.90	73.5	5.40	4.5	6.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	1.0	Surface	1	1	28.20	7.60	12.50	63.3	4.60	4.4	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	1.0	Surface	1	2	28.20	7.70	13.00	63.3	4.60	4.3	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	3.6	Middle	2	1	27.50	7.80	19.40	61.8	4.40	7.4	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	3.6	Middle	2	2	27.50	7.80	19.60	61.7	4.40	7.4	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	6.2	Bottom	3	1	27.20	7.80	21.10	63.3	4.50	8.3	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)3(N)	6:52:00	6.2	Bottom	3	2	27.20	7.80	21.20	62.8	4.40	8.2	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	1.0	Surface	1	1	28.20	7.70	13.50	65.5	4.80	4.6	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	1.0	Surface	1	2	28.10	7.70	13.50	65.4	4.70	4.5	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	4.7	Middle	2	1	28.10	7.70	14.00	64.8	4.70	6.3	2.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	4.7	Middle	2	2	28.10	7.70	14.10	64.7	4.70	6.0	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	8.3	Bottom	3	1	27.70	7.80	16.80	63.8	4.60	13.4	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR5(N)	6:16:00	8.3	Bottom	3	2	27.70	7.80	16.80	63.5	4.60	13.2	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	1.0	Surface	1	1	28.20	7.70	9.80	67.4	5.00	4.4	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	1.0	Surface	1	2	28.20	7.70	9.80	67.7	5.00	4.2	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	6.2	Middle	2	1	27.30	7.80	20.20	59.3	4.20	7.3	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	6.2	Middle	2	2	27.30	7.80	20.30	59.5	4.20	7.1	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	11.4	Bottom	3	1	26.00	7.90	26.10	52.5	3.70	8.6	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS10(N)	6:08:00	11.4	Bottom	3	2	26.10	7.80	25.90	52.2	3.70	8.4	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	1.0	Surface	1	1	28.20	7.70	9.90	68.1	5.00	4.5	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	1.0	Surface	1	2	28.20	7.70	9.90	68.2	5.00	4.3	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	5.7	Middle	2	1	27.80	7.80	17.40	62.7	4.50	6.0	3.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	5.7	Middle	2	2	27.80	7.80	17.30	62.8	4.50	5.7	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	10.3	Bottom	3	1	25.90	7.80	26.10	59.5	4.20	7.4	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)11	6:02:00	10.3	Bottom	3	2	25.80	7.80	26.20	59.2	4.20	7.2	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	1.0	Surface	1	1	27.90	7.90	14.90	67.6	4.90	1.7	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	1.0	Surface	1	2	27.90	7.90	15.10	68.0	4.90	3.2	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	6.1	Middle	2	1	27.40	8.00	20.00	62.2	4.40	3.7	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	6.1	Middle	2	2	27.40	8.00	19.90	62.4	4.40	3.3	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	11.1	Bottom	3	1	25.50	8.00	28.50	56.5	3.90	6.0	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	CS(Mf)5	5:26:00	11.1	Bottom	3	2	25.50	8.00	28.70	55.7	3.90	5.6	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00	1.0	Surface	1	1	28.30	7.70	12.10	66.5	4.80	4.9	3.5	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00	1.0	Surface	1	2	28.30	7.70	12.00	66.3	4.80	4.7	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00	3.5	Bottom	3	1	28.10	7.70	15.20	68.0	4.90	6.3	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR7	5:53:00	3.5	Bottom	3	2	28.00	7.70	15.20	67.5	4.90	6.1	5.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	1.0	Surface	1	1	27.80	7.90	15.00	67.0	4.80	1.7	4.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	1.0	Surface	1	2	27.80	7.90	15.20	66.9	4.80	3.2	5.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	3.6	Middle	2	1	27.50	7.90	18.40	64.8	4.60	1.9	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	3.6	Middle	2	2	27.60	7.90	18.60	64.7	4.60	3.3	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	6.1	Bottom	3	1	27.40	7.90	19.90	64.9	4.60	1.8	5.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS17	5:52:00	6.1	Bottom	3	2	27.40	7.90	20.30	64.7	4.60	3.2	4.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00	1.0	Surface	1	1	27.60	7.90	18.70	63.1	4.50	2.3	3.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00	1.0	Surface	1	2	27.60	7.90	19.00	63.1	4.50	3.9	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00	4.8	Bottom	3	1	27.40	7.90	20.30	59.6	4.20	4.0	4.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)16	5:57:00	4.8	Bottom	3	2	27.40	7.90	20.50	61.6	4.30	3.7	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00	1.0	Surface	1	1	27.70	7.90	18.20	70.9	5.00	2.3	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00	1.0	Surface	1	2	27.60	7.90	16.70	72.8	5.20	3.8	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00	3.1	Bottom	3	1	27.60	7.90	18.90	65.3	4.60	4.0	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS8	6:19:00	3.1	Bottom	3	2	27.70	7.90	19.00	65.5	4.60	4.7	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00	1.0	Surface	1	1	27.80	7.90	17.50	62.9	4.50	2.7	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00	1.0	Surface	1	2	27.80	7.90	17.70	62.7	4.50	4.4	4.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00	2.9	Bottom	3	1	27.70	7.90	18.80	60.7	4.30	3.7	6.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR4(N)	6:13:00	2.9	Bottom	3	2	27.70	7.90	19.10	60.4	4.30	4.4	6.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00	1.0	Surface	1	1	27.80	7.90	16.10	69.4	5.00	2.7	3.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00	1.0	Surface	1	2	27.80	7.90	16.40	69.7	5.00	4.3	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00	2.1	Bottom	3	1	27.80	7.80	17.40	63.5	4.50	4.0	5.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)9	6:27:00	2.1	Bottom	3	2	27.80	7.90	17.90	64.1	4.60	4.0	5.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00	1.2	Middle	2	1	27.80	7.90	16.50	71.6	5.10	1.1	4.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00	1.2	Middle	2	2	27.80	7.90	17.00	71.7	5.10	3.8	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS7	6:37:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00	1.1	Middle	2	1	27.60	7.90	16.70	80.2	5.80	2.9	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00	1.1	Middle	2	2	27.70	7.90	16.70	81.2	5.80	2.9	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS(Mf)6	6:46:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	1.0	Surface	1	1	27.40	8.00	16.50	66.5	4.80	7.5	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	1.0	Surface	1	2	27.40	8.00	16.50	66.7	4.80	7.3	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	4.4	Middle	2	1	26.90	8.00	24.90	56.6	3.90	13.2	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	4.4	Middle	2	2	27.00	8.00	25.30	56.2	3.90	13.1	3.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	7.8	Bottom	3	1	26.80	8.00	26.10	57.7	4.00	19.5	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	IS5	6:55:00	7.8	Bottom	3	2	26.90	8.00	26.40	57.0	3.90	19.3	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00	1.0	Surface	1	1	27.60	7.90	15.90	69.8	5.00	6.3	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00	1.0	Surface	1	2	27.60	7.90	16.60	69.6	5.00	6.7	2.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00	3.1	Bottom	3	1	27.40	7.90	21.20	66.1	4.70	8.7	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Ebb	Cloudy	SR3(N)	7:01:00	3.1	Bottom	3	2	27.50	7.90	21.10	65.4	4.60	9.0	2.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	1.0	Surface	1	1	26.30	8.00	24.70	59.5	4.20	4.6	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	1.0	Surface	1	2	26.30	8.00	24.90	59.5	4.20	2.6	3.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	6.4	Middle	2	1	25.70	8.00	25.70	57.3	4.10	4.5	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	6.4	Middle	2	2	25.70	8.00	26.00	57.1	4.00	3.2	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	11.8	Bottom	3	1	25.60	8.00	28.30	57.6	4.00	3.8	3.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10A(N)	13:36:00	11.8	Bottom	3	2	25.60	8.00	28.60	56.6	3.90	3.3	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	1.0	Surface	1	1	25.90	8.00	26.80	59.1	4.10	4.0	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	1.0	Surface	1	2	26.00	8.10	27.00	58.9	4.10	3.1	4.5	

Remarks:

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(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	3.4	Middle	2	1	25.50	8.00	27.50	58.1	4.10	2.2	5.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	3.4	Middle	2	2	25.60	8.10	27.80	57.4	4.00	3.8	6.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	5.7	Bottom	3	1	25.30	8.00	29.50	56.8	4.00	7.9	6.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR10B(N2)	13:32:00	5.7	Bottom	3	2	25.30	8.10	29.60	58.5	4.10	7.8	6.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	1.0	Surface	1	1	28.30	7.80	14.80	70.5	5.10	2.5	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	1.0	Surface	1	2	28.20	7.80	15.40	70.6	5.10	2.3	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	16.4	Middle	2	1	25.30	7.90	27.40	52.4	3.70	3.9	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	16.4	Middle	2	2	25.30	7.90	27.70	52.3	3.70	3.7	2.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	31.8	Bottom	3	1	24.80	8.00	28.90	50.6	3.60	13.4	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CSA	13:15:00	31.8	Bottom	3	2	24.80	7.90	29.20	50.2	3.50	13.5	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	1.0	Surface	1	1	28.40	7.80	15.20	70.8	5.10	2.4	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	1.0	Surface	1	2	28.30	7.80	15.10	70.8	5.10	2.3	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	5.2	Middle	2	1	26.80	7.90	21.80	61.3	4.30	8.5	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	5.2	Middle	2	2	26.70	7.90	22.00	61.0	4.30	8.2	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	9.4	Bottom	3	1	25.80	7.90	26.20	63.3	4.50	15.7	6.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS6	13:04:00	9.4	Bottom	3	2	25.80	7.90	26.30	63.1	4.40	15.4	5.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	1.0	Surface	1	1	28.50	7.60	13.10	63.7	4.60	4.5	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	1.0	Surface	1	2	28.50	7.60	13.10	63.9	4.60	4.2	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	8.8	Middle	2	1	27.50	7.80	19.20	61.1	4.30	3.7	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	8.8	Middle	2	2	27.50	7.80	19.30	61.0	4.30	3.6	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	16.5	Bottom	3	1	26.60	7.80	24.20	62.2	4.40	4.4	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS4	11:59:00	16.5	Bottom	3	2	26.60	7.80	24.20	62.1	4.40	4.2	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00	1.0	Surface	1	1	28.40	7.60	12.10	56.9	4.10	5.7	4.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00	1.0	Surface	1	2	28.30	7.60	12.00	56.8	4.10	5.6	4.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00	3.4	Bottom	3	1	28.10	7.60	15.30	56.3	4.00	5.4	6.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR6	11:28:00	3.4	Bottom	3	2	28.00	7.60	15.60	56.3	4.00	5.0	5.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	1.0	Surface	1	1	28.70	7.50	8.50	60.1	4.40	6.2	4.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	1.0	Surface	1	2	28.60	7.50	8.40	60.2	4.50	6.0	4.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	3.7	Middle	2	1	28.30	7.60	9.70	61.1	4.50	5.8	4.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	3.7	Middle	2	2	28.30	7.60	9.60	61.2	4.50	5.5	4.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	6.4	Bottom	3	1	27.90	7.60	15.90	63.3	4.50	5.3	6.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)3(N)	11:45:00	6.4	Bottom	3	2	27.90	7.60	16.00	62.9	4.50	5.1	5.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	1.0	Surface	1	1	28.70	7.60	9.70	67.2	4.90	4.7	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	1.0	Surface	1	2	28.70	7.60	9.70	67.3	4.90	4.6	2.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	4.8	Middle	2	1	28.50	7.70	9.90	68.0	5.00	5.6	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	4.8	Middle	2	2	28.50	7.70	9.80	68.0	5.00	5.1	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	8.5	Bottom	3	1	27.10	7.80	21.00	66.4	4.70	19.9	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR5(N)	12:21:00	8.5	Bottom	3	2	27.00	7.80	21.10	65.9	4.70	19.7	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	1.0	Surface	1	1	28.70	7.70	10.20	69.9	5.10	3.8	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	1.0	Surface	1	2	28.70	7.60	10.30	69.9	5.10	3.9	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	6.3	Middle	2	1	27.80	7.80	16.40	66.1	4.70	4.1	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	6.3	Middle	2	2	27.80	7.80	16.60	66.0	4.70	4.4	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	11.6	Bottom	3	1	26.10	7.80	25.10	60.3	4.20	17.2	3.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS10(N)	12:28:00	11.6	Bottom	3	2	26.00	7.80	25.40	60.3	4.20	16.9	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	1.0	Surface	1	1	28.20	7.70	13.30	69.0	5.00	3.7	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	1.0	Surface	1	2	28.20	7.70	13.20	69.0	5.00	3.6	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	5.6	Middle	2	1	28.00	7.80	15.20	66.8	4.80	4.5	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	5.6	Middle	2	2	27.90	7.80	15.40	66.9	4.80	4.7	3.9	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	10.1	Bottom	3	1	26.40	7.80	23.60	61.4	4.30	21.6	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)11	12:35:00	10.1	Bottom	3	2	26.40	7.80	23.70	61.1	4.30	21.4	4.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	1.0	Surface	1	1	27.90	8.00	16.70	62.5	4.50	16.1	2.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	1.0	Surface	1	2	27.90	7.90	16.90	63.1	4.50	16.3	2.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	6.4	Middle	2	1	25.10	8.00	27.60	52.0	3.70	3.9	2.4	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	6.4	Middle	2	2	25.20	8.00	27.80	51.6	3.60	4.7	2.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	11.8	Bottom	3	1	24.70	8.00	31.10	53.4	3.70	5.0	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	CS(Mf)5	12:57:00	11.8	Bottom	3	2	24.70	8.10	31.40	52.3	3.60	4.6	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00	1.0	Surface	1	1	28.20	7.80	14.20	72.4	5.20	7.5	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00	1.0	Surface	1	2	28.10	7.70	14.20	72.5	5.30	7.4	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00	3.3	Bottom	3	1	28.00	7.70	16.30	78.3	5.60	10.4	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR7	12:43:00	3.3	Bottom	3	2	27.90	7.70	16.40	77.2	5.60	10.1	3.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	1.0	Surface	1	1	27.60	7.90	16.10	68.5	4.90	16.8	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	1.0	Surface	1	2	27.60	7.90	16.50	68.6	4.90	16.9	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	3.8	Middle	2	1	27.30	7.90	20.30	64.0	4.50	2.0	4.3	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	3.8	Middle	2	2	27.30	7.90	20.50	63.5	4.50	3.0	4.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	6.6	Bottom	3	1	27.30	7.90	20.50	66.0	4.70	2.1	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS17	12:37:00	6.6	Bottom	3	2	27.30	7.90	20.70	65.1	4.60	3.1	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00	1.0	Surface	1	1	27.90	7.90	15.20	72.2	5.20	3.3	3.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00	1.0	Surface	1	2	28.10	7.90	15.20	72.2	5.20	3.5	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00	4.7	Bottom	3	1	27.60	7.90	18.90	65.3	4.60	4.3	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)16	12:30:00	4.7	Bottom	3	2	27.70	7.90	19.00	64.5	4.60	4.3	3.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00	1.0	Surface	1	1	28.20	7.90	13.80	70.0	5.10	6.8	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00	1.0	Surface	1	2	28.20	7.90	13.90	69.8	5.00	6.7	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00	2.6	Bottom	3	1	28.10	7.90	15.60	70.0	5.00	9.8	5.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS8	12:10:00	2.6	Bottom	3	2	28.10	7.90	15.80	69.7	5.00	9.3	5.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00	1.0	Surface	1	1	28.00	7.90	14.50	68.6	5.00	9.5	3.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00	1.0	Surface	1	2	28.10	7.90	14.70	69.3	5.00	9.8	3.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00	2.9	Bottom	3	1	28.00	7.80	18.40	59.1	4.20	10.8	4.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR4(N)	12:15:00	2.9	Bottom	3	2	28.00	7.90	18.60	59.9	4.20	10.1	4.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00	1.4	Middle	2	1	28.10	7.90	16.90	74.2	5.30	7.6	5.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00	1.4	Middle	2	2	28.10	7.90	17.10	74.3	5.30	7.8	5.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)9	12:02:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00	1.2	Middle	2	1	28.30	7.90	15.30	77.2	5.50	3.6	4.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00	1.2	Middle	2	2	28.30	8.00	15.60	76.8	5.50	2.8	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS7	11:51:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00	1.2	Middle	2	1	28.30	7.90	15.80	76.0	5.40	5.2	5.3	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00	1.2	Middle	2	2	28.30	7.90	16.00	75.3	5.40	5.2	5.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS(Mf)6	11:41:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	1.0	Surface	1	1	28.10	7.90	16.30	71.5	5.10	4.8	2.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	1.0	Surface	1	2	28.10	8.00	16.40	71.6	5.10	4.1	2.7	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	4.3	Middle	2	1	27.50	7.90	18.90	64.3	4.60	12.0	3.5	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	4.3	Middle	2	2	27.50	8.00	19.10	64.4	4.60	11.3	3.6	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	7.6	Bottom	3	1	27.20	7.90	23.20	58.5	4.10	20.1	4.2	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	IS5	11:35:00	7.6	Bottom	3	2	27.20	8.00	23.50	59.0	4.10	20.0	4.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00	1.0	Surface	1	1	28.00	7.90	16.80	72.2	5.20	3.7	6.0	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00	1.0	Surface	1	2	28.00	8.00	16.90	72.2	5.10	3.5	5.8	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00	3.3	Bottom	3	1	27.80	7.90	17.00	68.9	4.90	8.2	7.1	
HKBCF	HY/2013/01	2018-09-03	Mid-Flood	Fine	SR3(N)	11:26:00	3.3	Bottom	3	2	27.80	8.00	18.50	70.5	5.00	8.2	7.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	1.0	Surface	1	1	28.50	7.90	14.00	77.0	5.50	2.2	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	1.0	Surface	1	2	28.50	7.90	14.00	77.2	5.50	2.2	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	6.0	Middle	2	1	28.20	7.90	16.10	73.6	5.30	2.4	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	6.0	Middle	2	2	28.20	7.90	16.10	73.8	5.30	2.6	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	11.0	Bottom	3	1	25.40	7.90	28.70	55.4	3.90	3.8	3.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10A(N)	7:43:00	11.0	Bottom	3	2	25.40	8.00	28.70	54.9	3.80	4.0	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	1.0	Surface	1	1	27.90	7.90	16.00	74.6	5.40	3.0	2.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	1.0	Surface	1	2	28.00	8.00	16.00	74.7	5.40	2.7	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	3.5	Middle	2	1	27.30	8.00	19.40	69.4	4.90	2.3	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	3.5	Middle	2	2	27.30	8.00	19.40	69.3	4.90	2.9	2.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	6.0	Bottom	3	1	26.70	8.00	20.90	64.8	4.60	3.1	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR10B(N2)	7:48:00	6.0	Bottom	3	2	26.80	8.00	20.90	64.9	4.60	3.0	2.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	1.0	Surface	1	1	28.60	7.80	12.30	75.0	5.40	8.4	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	1.0	Surface	1	2	28.60	7.90	12.10	74.6	5.40	8.6	2.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	16.3	Middle	2	1	24.10	7.90	30.90	45.8	3.20	7.1	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	16.3	Middle	2	2	24.20	8.00	30.50	46.0	3.20	7.4	3.1	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	31.6	Bottom	3	1	24.10	7.90	31.00	45.4	3.20	11.1	4.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CSA	8:02:00	31.6	Bottom	3	2	24.10	8.00	30.80	45.8	3.20	10.9	4.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	1.0	Surface	1	1	28.40	7.80	11.70	76.7	5.60	8.2	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	1.0	Surface	1	2	28.50	7.80	11.30	76.7	5.60	8.3	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	4.9	Middle	2	1	27.10	7.80	20.20	61.6	4.40	7.2	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	4.9	Middle	2	2	27.10	7.90	20.20	61.7	4.40	7.3	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	8.8	Bottom	3	1	26.60	7.90	22.30	60.4	4.30	5.1	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS6	8:20:00	8.8	Bottom	3	2	26.70	7.90	22.20	60.9	4.30	5.3	3.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	1.0	Surface	1	1	28.90	7.70	10.50	76.8	5.60	4.3	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	1.0	Surface	1	2	29.00	7.70	10.60	76.4	5.60	4.2	2.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	8.7	Middle	2	1	26.00	7.90	24.90	54.2	3.80	2.4	3.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	8.7	Middle	2	2	26.00	7.90	24.90	54.4	3.80	2.3	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	16.4	Bottom	3	1	25.30	7.90	27.70	57.2	4.00	2.7	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS4	9:32:00	16.4	Bottom	3	2	25.40	7.90	27.60	57.4	4.00	2.7	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00	1.0	Surface	1	1	28.90	7.70	9.10	78.3	5.70	9.6	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00	1.0	Surface	1	2	29.00	7.80	9.20	78.0	5.70	9.5	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00	3.4	Bottom	3	1	27.90	7.80	17.00	65.7	4.70	9.8	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR6	10:04:00	3.4	Bottom	3	2	28.20	7.80	15.80	65.1	4.70	10.0	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	1.0	Surface	1	1	28.50	7.70	12.60	72.8	5.30	8.4	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	1.0	Surface	1	2	28.50	7.80	12.50	72.5	5.30	8.2	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	3.6	Middle	2	1	28.20	7.70	15.00	67.7	4.90	7.7	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	3.6	Middle	2	2	28.20	7.80	15.00	67.5	4.80	8.0	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	6.2	Bottom	3	1	26.50	7.80	23.10	59.9	4.20	8.1	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)3(N)	9:45:00	6.2	Bottom	3	2	26.60	7.90	22.60	60.1	4.30	8.1	4.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	1.0	Surface	1	1	28.70	7.80	11.20	76.8	5.60	4.4	3.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	1.0	Surface	1	2	28.70	7.80	11.20	76.5	5.60	4.2	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	4.7	Middle	2	1	26.40	7.80	23.30	49.2	3.50	5.8	4.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	4.7	Middle	2	2	26.50	7.90	23.20	49.4	3.50	5.3	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	8.3	Bottom	3	1	25.30	7.80	27.50	52.0	3.70	7.6	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR5(N)	9:08:00	8.3	Bottom	3	2	25.30	7.90	27.30	52.4	3.70	7.1	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	1.0	Surface	1	1	28.70	7.90	11.80	76.1	5.50	4.2	2.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	1.0	Surface	1	2	28.70	7.90	11.70	76.0	5.50	4.9	2.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	6.3	Middle	2	1	26.60	7.80	23.30	47.1	3.30	6.2	2.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	6.3	Middle	2	2	26.60	7.80	23.10	47.1	3.30	6.4	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	11.5	Bottom	3	1	25.20	7.90	27.90	53.7	3.90	7.5	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS10(N)	9:01:00	11.5	Bottom	3	2	25.20	7.90	27.80	53.5	3.90	7.2	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	1.0	Surface	1	1	28.60	7.90	11.70	76.4	5.60	8.3	3.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	1.0	Surface	1	2	28.70	8.00	11.70	76.1	5.50	8.7	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	5.6	Middle	2	1	26.30	7.80	23.90	49.3	3.50	9.4	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	5.6	Middle	2	2	26.30	7.90	23.80	49.4	3.50	9.4	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	10.2	Bottom	3	1	25.10	7.80	28.30	55.9	3.90	12.2	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)11	8:53:00	10.2	Bottom	3	2	25.20	7.90	28.20	56.2	4.00	11.9	4.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	1.0	Surface	1	1	28.30	7.90	14.50	73.2	5.30	2.9	2.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	1.0	Surface	1	2	28.30	7.90	14.50	73.2	5.30	2.9	2.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	6.0	Middle	2	1	28.30	7.90	15.00	69.8	5.00	3.0	2.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	6.0	Middle	2	2	28.30	8.00	15.00	69.7	5.00	2.7	2.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	11.0	Bottom	3	1	26.00	8.00	26.80	59.0	4.10	2.6	4.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	CS(Mf)5	8:23:00	11.0	Bottom	3	2	26.00	8.00	26.80	58.4	4.10	1.7	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00	1.0	Surface	1	1	28.70	7.80	10.70	81.7	6.00	8.1	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00	1.0	Surface	1	2	28.70	7.90	10.80	81.3	5.90	8.9	3.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00	3.3	Bottom	3	1	28.50	7.80	12.30	80.5	5.90	8.4	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR7	8:45:00	3.3	Bottom	3	2	28.50	7.80	11.90	80.3	5.80	8.1	4.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	1.0	Surface	1	1	28.70	8.00	13.70	76.2	5.50	3.5	3.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	1.0	Surface	1	2	28.70	8.00	13.70	76.5	5.50	3.0	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	4.6	Middle	2	1	27.10	7.90	21.30	54.9	3.90	3.2	4.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	4.6	Middle	2	2	27.20	7.90	21.30	54.8	3.90	2.3	4.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	8.2	Bottom	3	1	25.20	7.90	29.60	44.7	3.10	10.4	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS17	8:49:00	8.2	Bottom	3	2	25.20	8.00	29.60	44.1	3.10	9.4	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00	1.0	Surface	1	1	28.80	8.00	14.90	81.3	5.80	3.5	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00	1.0	Surface	1	2	28.80	8.00	14.90	78.1	5.60	3.1	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00	4.8	Bottom	3	1	27.60	7.80	19.70	53.4	3.80	6.9	5.4	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
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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	2018-09-05	Mid-Ebb	Fine	IS(Mf)16	8:55:00	4.8	Bottom	3	2	27.60	7.80	19.70	52.1	3.70	6.8	5.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00	1.0	Surface	1	1	29.20	7.90	13.90	83.5	6.00	4.4	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00	1.0	Surface	1	2	29.20	8.00	13.90	83.5	5.90	3.6	3.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00	2.6	Bottom	3	1	28.80	7.90	15.20	72.3	5.10	5.5	4.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS8	9:18:00	2.6	Bottom	3	2	28.80	7.90	15.20	72.0	5.10	4.5	4.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR4(N)	9:12:00	1.0	Surface	1	1	28.90	7.90	13.70	67.6	4.90	6.8	7.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR4(N)	9:12:00	1.0	Surface	1	2	28.90	7.90	13.70	68.6	4.90	6.7	7.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR4(N)	9:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR4(N)	9:12:00	2.5	Bottom	3	1	27.80	7.70	18.90	41.9	3.00	18.4	7.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR4(N)	9:12:00	2.5	Bottom	3	2	27.80	7.80	18.90	40.9	2.90	19.1	7.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00	1.0	Surface	1	1	29.00	7.90	14.10	80.3	5.70	3.7	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00	1.0	Surface	1	2	29.10	8.00	14.10	79.1	5.60	2.7	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00	2.2	Bottom	3	1	28.50	7.80	16.70	62.3	4.40	7.1	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)9	9:25:00	2.2	Bottom	3	2	28.60	7.90	16.70	67.2	4.70	6.3	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00	1.2	Middle	2	1	28.80	7.90	14.60	75.6	5.40	4.5	3.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00	1.2	Middle	2	2	28.90	7.90	14.60	75.4	5.40	3.2	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS7	9:35:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00	1.3	Middle	2	1	29.20	8.00	15.10	80.4	5.70	8.1	5.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00	1.3	Middle	2	2	29.20	8.00	15.10	79.5	5.60	8.2	5.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS(Mf)6	9:43:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	1.0	Surface	1	1	29.20	8.00	14.00	84.7	6.00	3.2	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	1.0	Surface	1	2	29.20	8.10	14.00	84.8	6.00	2.5	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	4.1	Middle	2	1	27.00	7.90	25.00	44.8	3.10	8.0	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	4.1	Middle	2	2	27.00	7.90	25.00	44.0	3.10	7.0	4.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	7.2	Bottom	3	1	26.80	7.90	26.40	43.1	3.00	11.5	4.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	IS5	9:49:00	7.2	Bottom	3	2	26.90	7.90	26.40	43.0	3.00	10.7	4.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00	1.0	Surface	1	1	29.30	8.00	13.30	90.2	6.40	3.2	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00	1.0	Surface	1	2	29.30	8.10	13.30	91.1	6.50	2.3	3.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00	2.4	Bottom	3	1	28.40	7.90	18.60	71.0	5.00	5.1	4.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Ebb	Fine	SR3(N)	9:57:00	2.4	Bottom	3	2	28.40	7.90	18.60	69.7	4.90	4.2	4.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	1.0	Surface	1	1	26.70	8.00	24.10	66.9	4.70	6.3	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	1.0	Surface	1	2	26.70	8.10	24.10	66.8	4.70	5.1	2.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	5.9	Middle	2	1	26.00	7.90	26.30	56.6	4.00	6.8	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	5.9	Middle	2	2	26.10	8.00	26.30	56.3	3.90	6.7	2.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	10.8	Bottom	3	1	24.90	8.00	30.50	51.1	3.60	9.4	3.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10A(N)	16:44:00	10.8	Bottom	3	2	24.90	8.10	30.50	50.0	3.50	9.6	3.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00	1.0	Surface	1	1	26.30	8.00	26.50	67.8	4.70	5.1	2.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00	1.0	Surface	1	2	26.30	8.10	26.40	67.4	4.70	5.1	2.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00		Middle	2	1	25.90	8.00	27.60	64.8	4.50	6.4	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00		Middle	2	2	25.90	8.10	27.60	64.3	4.50	6.0	2.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00	4.6	Bottom	3	1	26.00	8.00	27.60	63.8	4.40	6.5	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR10B(N2)	16:38:00	4.6	Bottom	3	2	25.90	8.10	27.70	62.6	4.40	6.6	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	1.0	Surface	1	1	28.00	8.00	18.40	79.9	5.60	2.5	3.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	1.0	Surface	1	2	28.10	8.00	18.10	79.4	5.60	2.9	2.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	16.4	Middle	2	1	24.30	7.90	30.20	46.1	3.30	5.7	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	16.4	Middle	2	2	24.30	8.00	30.00	46.1	3.30	5.5	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	31.7	Bottom	3	1	24.30	7.90	30.40	48.8	3.40	5.6	3.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CSA	16:29:00	31.7	Bottom	3	2	24.30	8.00	30.20	49.2	3.50	5.4	2.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	1.0	Surface	1	1	27.70	7.80	18.10	67.4	4.80	7.9	2.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	1.0	Surface	1	2	27.70	7.90	18.00	67.6	4.80	7.3	2.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	4.9	Middle	2	1	26.70	7.80	22.30	58.8	4.20	2.3	3.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	4.9	Middle	2	2	26.70	7.90	22.20	58.9	4.20	2.8	2.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	8.8	Bottom	3	1	25.30	7.90	27.60	56.1	4.00	4.4	3.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS6	16:19:00	8.8	Bottom	3	2	25.30	7.90	27.50	56.5	4.00	3.9	3.2	

Remarks:

(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

(ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.

(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	1.0	Surface	1	1	29.30	7.80	13.00	83.6	6.00	3.7	2.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	1.0	Surface	1	2	29.30	7.90	13.00	83.4	5.90	3.7	2.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	8.6	Middle	2	1	28.60	7.80	15.50	77.6	5.50	2.9	4.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	8.6	Middle	2	2	28.60	7.90	15.40	77.2	5.50	3.1	4.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	16.1	Bottom	3	1	25.80	7.80	25.10	57.1	4.00	7.0	5.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS4	15:13:00	16.1	Bottom	3	2	25.90	7.90	25.00	57.3	4.10	7.1	5.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00	1.0	Surface	1	1	28.00	7.70	14.70	62.8	4.50	9.5	4.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00	1.0	Surface	1	2	28.00	7.70	14.70	62.9	4.50	9.5	3.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00	3.5	Bottom	3	1	27.80	7.70	16.20	67.8	4.90	10.2	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR6	14:43:00	3.5	Bottom	3	2	27.80	7.80	16.20	68.2	4.90	10.1	5.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	1.0	Surface	1	1	30.50	7.70	6.90	87.9	6.40	6.5	5.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	1.0	Surface	1	2	30.50	7.80	6.90	87.3	6.30	6.9	5.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	3.7	Middle	2	1	28.50	7.70	12.80	67.6	4.90	7.4	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	3.7	Middle	2	2	28.50	7.70	13.00	67.2	4.90	7.9	6.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	6.3	Bottom	3	1	27.90	7.70	15.70	65.6	4.70	11.5	7.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)3(N)	15:00:00	6.3	Bottom	3	2	27.90	7.80	15.70	65.3	4.70	11.6	7.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	1.0	Surface	1	1	29.10	7.90	12.70	83.2	6.00	4.8	5.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	1.0	Surface	1	2	29.20	8.00	13.20	83.1	5.90	4.3	5.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	4.8	Middle	2	1	28.00	7.80	16.70	66.9	4.80	5.8	5.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	4.8	Middle	2	2	28.10	7.90	16.70	66.5	4.70	5.3	5.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	8.5	Bottom	3	1	26.20	7.80	24.70	56.3	4.00	11.6	6.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR5(N)	15:35:00	8.5	Bottom	3	2	26.30	7.90	24.70	56.6	4.00	11.9	7.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	1.0	Surface	1	1	29.10	7.90	14.20	85.6	6.10	6.3	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	1.0	Surface	1	2	29.20	8.00	14.10	85.3	6.10	6.7	6.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	6.3	Middle	2	1	26.20	7.80	23.80	48.0	3.40	13.0	7.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	6.3	Middle	2	2	26.20	7.90	23.70	48.1	3.40	13.3	7.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	11.6	Bottom	3	1	25.60	7.80	26.80	51.9	3.70	14.2	7.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS10(N)	15:43:00	11.6	Bottom	3	2	25.60	7.90	26.70	51.8	3.70	14.1	7.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	1.0	Surface	1	1	29.50	8.00	13.00	91.0	6.50	10.2	6.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	1.0	Surface	1	2	29.50	8.10	13.00	91.0	6.50	10.1	5.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	5.7	Middle	2	1	28.00	7.80	17.50	68.7	4.90	8.4	5.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	5.7	Middle	2	2	28.20	7.90	16.90	68.0	4.80	8.2	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	10.4	Bottom	3	1	25.40	7.80	27.20	50.9	3.60	19.3	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)11	15:49:00	10.4	Bottom	3	2	25.40	7.90	27.10	51.0	3.60	19.1	6.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	1.0	Surface	1	1	29.60	8.10	13.20	99.7	7.10	2.7	4.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	1.0	Surface	1	2	29.70	8.20	13.20	99.0	7.00	2.6	4.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	6.2	Middle	2	1	26.10	7.90	25.70	54.4	3.80	4.3	5.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	6.2	Middle	2	2	26.10	8.00	25.70	54.2	3.80	4.2	6.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	11.3	Bottom	3	1	24.80	8.00	30.50	49.3	3.40	7.5	6.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	CS(Mf)5	16:17:00	11.3	Bottom	3	2	24.80	8.00	30.50	48.8	3.40	7.0	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00	1.0	Surface	1	1	29.80	7.90	11.60	91.9	6.50	4.2	4.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00	1.0	Surface	1	2	29.80	8.00	11.60	91.4	6.50	4.9	4.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00	3.4	Bottom	3	1	28.30	7.80	15.50	77.6	5.50	10.2	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR7	15:58:00	3.4	Bottom	3	2	28.50	7.90	15.00	77.5	5.50	10.8	5.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	1.0	Surface	1	1	29.20	8.00	14.00	93.8	6.70	5.7	4.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	1.0	Surface	1	2	29.20	8.10	14.00	94.0	6.70	5.7	3.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	4.3	Middle	2	1	29.00	8.00	14.60	87.4	6.20	6.0	3.5	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	4.3	Middle	2	2	29.00	8.10	14.50	87.7	6.20	6.3	3.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	7.5	Bottom	3	1	27.50	7.90	20.10	65.8	4.70	6.2	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS17	15:47:00	7.5	Bottom	3	2	27.50	7.90	19.70	65.6	4.60	6.3	6.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00	1.0	Surface	1	1	29.20	8.10	13.80	94.9	6.70	4.9	4.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00	1.0	Surface	1	2	29.20	8.20	13.80	95.2	6.80	4.1	5.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00	4.6	Bottom	3	1	28.60	7.90	15.40	76.7	5.50	5.9	6.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)16	15:39:00	4.6	Bottom	3	2	28.60	8.00	15.40	75.8	5.40	5.8	6.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00	1.0	Surface	1	1	29.70	8.10	13.30	99.0	7.00	6.0	4.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00	1.0	Surface	1	2	29.70	8.10	13.30	99.4	7.00	5.3	5.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00	2.6	Bottom	3	1	29.40	8.00	13.60	90.3	6.40	7.6	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS8	15:18:00	2.6	Bottom	3	2	29.40	8.10	13.50	91.1	6.50	7.3	6.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00	1.0	Surface	1	1	29.80	8.00	13.30	99.0	7.00	6.1	5.2	

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- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00	1.0	Surface	1	2	29.80	8.10	13.30	99.8	7.00	6.6	5.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00	2.7	Bottom	3	1	29.40	8.00	14.00	88.5	6.30	8.5	6.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR4(N)	15:24:00	2.7	Bottom	3	2	29.40	8.10	14.00	88.0	6.20	8.3	5.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00	1.4	Middle	2	1	29.70	8.10	13.50	96.1	6.80	5.5	6.1	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00	1.4	Middle	2	2	29.70	8.20	13.50	97.5	6.90	6.0	6.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)9	15:11:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00	1.3	Middle	2	1	30.10	8.30	13.80	126.4	8.80	5.8	5.2	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00	1.3	Middle	2	2	30.20	8.30	13.80	126.7	8.90	5.3	5.0	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS7	15:05:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00	1.1	Middle	2	1	29.60	8.20	15.00	106.3	7.50	9.7	3.6	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00	1.1	Middle	2	2	29.60	8.20	14.90	106.3	7.50	9.4	4.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS(Mf)6	14:57:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	1.0	Surface	1	1	30.40	8.20	13.60	108.7	7.60	3.3	3.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	1.0	Surface	1	2	30.40	8.30	13.60	109.2	7.60	3.2	4.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	3.9	Middle	2	1	28.80	7.90	17.00	73.5	5.20	9.1	4.7	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	3.9	Middle	2	2	28.80	8.00	17.00	74.0	5.20	9.8	4.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	6.8	Bottom	3	1	28.00	7.90	20.70	57.9	4.00	18.0	5.4	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	IS5	14:49:00	6.8	Bottom	3	2	28.00	7.90	20.70	56.9	4.00	18.2	5.3	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00	1.0	Surface	1	1	29.50	8.10	15.00	95.4	6.70	6.9	4.9	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00	1.0	Surface	1	2	29.50	8.20	15.10	95.9	6.70	6.3	4.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00	2.1	Bottom	3	1	29.30	8.10	15.60	91.2	6.40	9.5	4.8	
HKBCF	HY/2013/01	2018-09-05	Mid-Flood	Misty	SR3(N)	14:43:00	2.1	Bottom	3	2	29.30	8.10	15.60	90.9	6.40	9.8	5.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	1.0	Surface	1	1	27.50	8.10	21.60	83.0	5.80	2.3	5.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	1.0	Surface	1	2	27.50	8.10	21.60	83.3	5.80	2.2	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	7.4	Middle	2	1	27.20	8.10	22.90	79.7	5.60	2.4	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	7.4	Middle	2	2	27.20	8.10	22.80	79.8	5.60	2.4	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	13.8	Bottom	3	1	27.00	8.10	23.50	78.2	5.50	2.7	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10A(N)	9:45:00	13.8	Bottom	3	2	27.10	8.10	23.40	78.4	5.50	2.8	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	1.0	Surface	1	1	27.00	8.10	23.60	78.4	5.50	2.5	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	1.0	Surface	1	2	27.00	8.10	23.60	78.6	5.50	2.9	5.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	3.4	Middle	2	1	27.00	8.10	23.70	77.9	5.40	3.5	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	3.4	Middle	2	2	27.00	8.10	23.70	78.1	5.50	3.4	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	5.7	Bottom	3	1	26.30	8.10	26.00	71.5	5.00	7.6	6.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR10B(N2)	9:51:00	5.7	Bottom	3	2	26.30	8.10	26.20	71.2	5.00	7.6	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	1.0	Surface	1	1	28.00	8.10	19.10	76.2	5.40	7.7	4.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	1.0	Surface	1	2	28.00	8.00	19.20	76.6	5.40	7.1	4.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	16.9	Middle	2	1	26.00	8.10	25.70	65.5	4.60	7.5	5.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	16.9	Middle	2	2	26.00	8.00	26.00	65.6	4.60	7.2	6.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	32.7	Bottom	3	1	24.90	8.00	28.90	61.6	4.30	7.8	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CSA	10:01:00	32.7	Bottom	3	2	24.90	7.90	29.10	61.0	4.30	7.7	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	1.0	Surface	1	1	27.70	8.00	20.00	72.2	5.10	7.5	3.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	1.0	Surface	1	2	27.70	8.00	20.20	72.3	5.10	7.2	2.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	4.6	Middle	2	1	26.80	8.00	22.90	67.0	4.70	7.8	3.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	4.6	Middle	2	2	26.80	7.90	23.10	66.8	4.70	7.4	3.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	8.2	Bottom	3	1	26.50	8.00	24.10	67.6	4.70	8.5	3.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS6	10:15:00	8.2	Bottom	3	2	26.40	7.90	24.30	67.6	4.70	8.1	3.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	1.0	Surface	1	1	28.40	8.00	17.30	73.1	5.20	8.5	3.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	1.0	Surface	1	2	28.40	7.90	17.50	73.1	5.20	8.0	3.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	8.1	Middle	2	1	28.00	7.90	18.70	63.8	4.50	8.1	3.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	8.1	Middle	2	2	27.90	7.90	18.80	63.7	4.50	8.6	4.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	15.2	Bottom	3	1	27.70	7.90	20.20	59.6	4.20	8.5	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS4	11:30:00	15.2	Bottom	3	2	27.60	7.80	20.10	59.7	4.20	8.1	5.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00	1.0	Surface	1	1	28.00	8.00	20.30	63.6	4.50	11.5	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00	1.0	Surface	1	2	28.00	7.90	20.50	64.2	4.50	11.1	5.6	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00	3.5	Bottom	3	1	27.20	8.00	23.20	60.4	4.20	12.0	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR6	12:06:00	3.5	Bottom	3	2	27.20	7.90	23.40	60.5	4.20	11.6	6.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	1.0	Surface	1	1	28.20	8.00	18.20	67.7	4.80	9.0	4.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	1.0	Surface	1	2	28.10	7.90	18.40	68.0	4.80	8.6	4.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	3.6	Middle	2	1	27.90	7.90	19.00	61.0	4.30	9.3	4.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	3.6	Middle	2	2	27.90	7.80	19.30	61.0	4.30	9.4	4.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	6.1	Bottom	3	1	26.90	8.00	24.10	60.6	4.20	14.1	4.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)3(N)	11:45:00	6.1	Bottom	3	2	26.90	7.90	24.40	60.4	4.20	14.8	4.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	1.0	Surface	1	1	28.40	8.00	17.40	68.5	4.80	8.6	5.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	1.0	Surface	1	2	28.40	7.90	17.60	68.7	4.80	8.8	4.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	4.7	Middle	2	1	28.00	8.00	18.50	61.4	4.30	9.2	5.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	4.7	Middle	2	2	28.00	7.90	18.80	61.1	4.30	9.5	5.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	8.3	Bottom	3	1	26.90	8.00	23.20	59.6	4.20	18.1	6.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR5(N)	11:03:00	8.3	Bottom	3	2	26.90	7.80	23.50	59.5	4.20	18.4	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	1.0	Surface	1	1	28.30	8.10	17.70	72.9	5.20	9.8	4.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	1.0	Surface	1	2	28.30	8.00	17.90	72.8	5.10	9.7	4.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	6.3	Middle	2	1	27.90	8.10	19.50	65.1	4.60	11.3	4.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	6.3	Middle	2	2	27.90	8.00	19.70	65.0	4.60	11.7	4.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	11.6	Bottom	3	1	25.80	8.00	26.40	57.5	4.00	12.4	5.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS10(N)	10:55:00	11.6	Bottom	3	2	25.80	7.90	26.70	57.2	4.00	12.8	5.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	1.0	Surface	1	1	28.30	8.00	17.50	74.5	5.30	9.3	5.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	1.0	Surface	1	2	28.30	7.90	17.70	74.5	5.30	9.8	4.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	5.7	Middle	2	1	27.50	8.10	20.90	61.5	4.30	10.8	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	5.7	Middle	2	2	27.40	8.00	21.10	61.7	4.30	10.2	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	10.4	Bottom	3	1	26.20	8.00	26.10	64.5	4.50	10.7	6.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)11	10:47:00	10.4	Bottom	3	2	26.10	7.90	26.40	64.4	4.50	10.2	7.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	1.0	Surface	1	1	27.80	8.10	20.80	75.3	5.30	2.8	4.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	1.0	Surface	1	2	27.80	8.10	21.00	75.7	5.30	2.9	4.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	6.7	Middle	2	1	26.50	8.00	25.50	57.3	4.00	7.1	5.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	6.7	Middle	2	2	26.50	8.10	25.40	57.1	4.00	7.0	5.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	12.4	Bottom	3	1	25.20	8.00	29.80	54.8	3.80	10.5	6.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	CS(Mf)5	10:33:00	12.4	Bottom	3	2	25.20	8.10	29.80	54.4	3.80	10.9	7.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00	1.0	Surface	1	1	28.10	8.10	18.00	73.8	5.20	8.3	5.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00	1.0	Surface	1	2	28.10	8.00	18.00	74.1	5.20	8.1	4.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00	3.3	Bottom	3	1	27.50	8.00	20.60	68.3	4.80	8.8	5.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR7	10:39:00	3.3	Bottom	3	2	27.50	7.90	20.80	68.7	4.80	8.0	4.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	1.0	Surface	1	1	28.10	8.10	20.30	78.4	5.50	4.4	6.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	1.0	Surface	1	2	28.10	8.10	20.20	78.6	5.50	4.2	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	4.8	Middle	2	1	27.40	8.00	21.90	72.3	5.10	7.0	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	4.8	Middle	2	2	27.50	8.10	21.80	72.3	5.10	6.6	7.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	8.6	Bottom	3	1	26.70	8.00	25.00	68.2	4.80	7.3	8.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS17	11:00:00	8.6	Bottom	3	2	26.80	8.10	24.90	68.1	4.70	7.7	8.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00	1.0	Surface	1	1	28.20	8.10	21.30	81.7	5.70	4.0	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00	1.0	Surface	1	2	28.20	8.20	21.30	81.9	5.70	3.9	7.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00	4.7	Bottom	3	1	27.00	8.00	24.60	59.4	4.10	10.1	10.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)16	11:07:00	4.7	Bottom	3	2	27.00	8.00	24.50	58.5	4.10	10.5	9.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00	1.0	Surface	1	1	28.50	8.10	20.50	79.1	5.50	3.7	6.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00	1.0	Surface	1	2	28.50	8.20	20.40	79.9	5.50	3.5	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00	3.6	Bottom	3	1	27.50	7.90	22.50	57.5	4.00	6.6	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS8	11:27:00	3.6	Bottom	3	2	27.60	8.00	22.40	57.9	4.00	6.5	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00	1.0	Surface	1	1	27.70	8.00	21.40	62.5	4.40	8.5	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00	1.0	Surface	1	2	27.80	8.00	21.40	62.5	4.40	8.8	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00	3.1	Bottom	3	1	27.30	7.90	22.90	57.6	4.00	12.5	8.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR4(N)	11:21:00	3.1	Bottom	3	2	27.30	8.00	22.80	56.2	3.90	12.6	7.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00	1.0	Surface	1	1	28.90	8.20	19.30	96.4	6.70	3.6	6.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00	1.0	Surface	1	2	28.90	8.20	19.30	94.3	6.50	4.1	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00		Middle	2	1								

Remarks:

(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

(ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.

(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00	2.1	Bottom	3	1	28.30	8.10	20.60	79.2	5.50	8.5	7.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)9	11:36:00	2.1	Bottom	3	2	28.30	8.20	20.60	81.1	5.60	8.8	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00	1.3	Middle	2	1	28.40	8.10	20.30	80.8	5.60	6.8	4.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00	1.3	Middle	2	2	28.40	8.10	20.20	81.1	5.60	6.3	3.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS7	11:46:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00	1.3	Middle	2	1	28.60	8.10	19.80	89.5	6.20	8.9	12.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00	1.3	Middle	2	2	28.60	8.20	19.90	89.1	6.20	8.6	12.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS(Mf)6	11:55:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	1.0	Surface	1	1	28.40	8.10	20.40	78.8	5.50	5.2	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	1.0	Surface	1	2	28.40	8.20	20.40	79.1	5.50	5.3	5.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	4.7	Middle	2	1	26.90	8.00	26.30	50.5	3.50	10.0	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	4.7	Middle	2	2	26.90	8.00	26.30	50.2	3.50	9.9	5.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	8.3	Bottom	3	1	26.80	8.00	26.90	52.6	3.60	12.7	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	IS5	12:02:00	8.3	Bottom	3	2	26.80	8.00	26.90	51.6	3.50	12.2	6.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00	1.0	Surface	1	1	28.70	8.10	19.70	86.3	6.00	7.3	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00	1.0	Surface	1	2	28.70	8.20	19.60	86.7	6.00	7.8	7.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00	2.6	Bottom	3	1	27.60	8.00	23.00	57.7	4.00	10.7	10.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Ebb	Fine	SR3(N)	12:10:00	2.6	Bottom	3	2	27.70	8.00	22.90	57.5	4.00	10.2	9.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	1.0	Surface	1	1	26.40	8.00	26.40	65.8	4.60	3.1	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	1.0	Surface	1	2	26.50	8.10	26.30	65.9	4.60	3.1	7.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	6.8	Middle	2	1	26.10	8.00	27.60	64.5	4.50	4.5	7.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	6.8	Middle	2	2	26.10	8.10	27.50	64.5	4.50	4.2	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	12.6	Bottom	3	1	25.70	8.00	28.80	63.2	4.40	6.3	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10A(N)	18:52:00	12.6	Bottom	3	2	25.70	8.10	28.80	62.8	4.40	6.6	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	1.0	Surface	1	1	26.20	8.10	28.20	77.2	5.30	5.2	6.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	1.0	Surface	1	2	26.20	8.20	28.10	77.1	5.30	5.2	7.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	3.4	Middle	2	1	26.20	8.10	28.20	76.4	5.30	5.7	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	3.4	Middle	2	2	26.20	8.20	28.10	76.6	5.30	5.3	7.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	5.8	Bottom	3	1	25.70	8.10	29.10	67.2	4.70	8.6	8.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR10B(N2)	18:46:00	5.8	Bottom	3	2	25.70	8.20	29.10	70.8	4.90	9.0	9.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	1.0	Surface	1	1	27.40	8.00	22.30	76.4	5.30	3.1	5.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	1.0	Surface	1	2	27.40	8.10	21.90	76.2	5.30	3.4	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	16.4	Middle	2	1	26.80	8.00	23.70	66.8	4.70	3.9	7.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	16.4	Middle	2	2	26.80	8.10	23.60	67.1	4.70	3.5	7.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	31.8	Bottom	3	1	25.40	8.00	27.70	59.6	4.20	5.7	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CSA	18:07:00	31.8	Bottom	3	2	25.40	8.10	27.40	60.3	4.20	5.1	7.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	1.0	Surface	1	1	27.80	8.00	21.00	71.7	5.00	3.4	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	1.0	Surface	1	2	27.80	8.10	20.70	71.5	5.00	3.4	5.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	4.3	Middle	2	1	26.80	7.90	23.70	56.8	4.00	7.1	6.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	4.3	Middle	2	2	26.80	8.00	23.60	57.1	4.00	7.1	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	7.6	Bottom	3	1	25.90	7.90	26.40	54.3	3.80	10.5	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS6	17:58:00	7.6	Bottom	3	2	25.90	8.00	26.10	54.7	3.80	10.0	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	1.0	Surface	1	1	29.00	7.80	14.80	70.0	5.00	5.0	6.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	1.0	Surface	1	2	29.00	7.90	14.70	69.5	4.90	5.2	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	8.2	Middle	2	1	27.40	7.80	20.70	57.6	4.10	9.7	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	8.2	Middle	2	2	27.40	7.90	20.50	57.5	4.10	9.2	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	15.3	Bottom	3	1	26.00	7.90	25.90	56.7	4.00	14.1	6.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS4	16:58:00	15.3	Bottom	3	2	26.00	8.00	25.70	56.9	4.00	14.3	7.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00	1.0	Surface	1	1	28.20	7.60	15.10	63.8	4.60	6.7	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00	1.0	Surface	1	2	28.20	7.70	15.10	64.3	4.60	6.3	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00	3.4	Bottom	3	1	27.80	7.70	16.90	58.5	4.20	8.4	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR6	16:27:00	3.4	Bottom	3	2	27.80	7.70	16.90	58.2	4.20	8.5	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	1.0	Surface	1	1	29.30	7.70	12.30	73.1	5.20	5.9	5.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	1.0	Surface	1	2	29.30	7.80	12.20	72.6	5.20	5.5	5.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	3.5	Middle	2	1	29.00	7.70	13.40	67.2	4.80	6.2	6.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	3.5	Middle	2	2	29.10	7.80	13.40	66.9	4.80	6.9	6.2	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	6.0	Bottom	3	1	28.30	7.70	16.20	61.7	4.40	7.2	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)3(N)	16:45:00	6.0	Bottom	3	2	28.30	7.80	15.60	61.7	4.40	7.5	7.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	1.0	Surface	1	1	29.20	7.90	13.80	91.0	6.50	4.4	4.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	1.0	Surface	1	2	29.20	8.00	13.80	90.4	6.40	4.4	4.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	4.6	Middle	2	1	28.80	8.10	17.80	92.9	6.50	7.5	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	4.6	Middle	2	2	28.80	8.20	17.80	92.2	6.50	7.7	6.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	8.1	Bottom	3	1	27.90	8.00	20.20	75.3	5.30	9.5	8.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR5(N)	17:18:00	8.1	Bottom	3	2	28.00	8.10	20.10	75.2	5.30	9.4	8.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	1.0	Surface	1	1	29.20	8.00	15.30	92.6	6.50	5.0	5.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	1.0	Surface	1	2	29.20	8.20	15.20	91.8	6.50	5.2	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	6.2	Middle	2	1	28.20	8.00	19.00	74.7	5.30	9.7	5.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	6.2	Middle	2	2	28.20	8.10	18.80	74.3	5.20	9.8	5.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	11.3	Bottom	3	1	26.90	7.90	23.30	65.0	4.60	13.5	7.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS10(N)	17:27:00	11.3	Bottom	3	2	26.90	8.00	23.10	65.2	4.60	13.4	7.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	1.0	Surface	1	1	29.10	7.90	14.70	82.8	5.90	6.7	6.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	1.0	Surface	1	2	29.10	8.10	14.60	82.8	5.90	6.7	6.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	5.5	Middle	2	1	28.70	7.90	16.40	74.0	5.20	12.3	7.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	5.5	Middle	2	2	28.70	8.10	16.30	74.1	5.20	12.8	8.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	9.9	Bottom	3	1	26.90	7.90	22.00	61.1	4.30	14.9	10.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)11	17:32:00	9.9	Bottom	3	2	26.90	8.00	21.90	61.7	4.40	14.9	9.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	1.0	Surface	1	1	27.10	8.10	24.30	72.0	5.00	3.1	6.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	1.0	Surface	1	2	27.10	8.10	24.20	72.3	5.00	3.5	6.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	6.3	Middle	2	1	25.60	8.00	29.00	58.6	4.10	5.7	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	6.3	Middle	2	2	25.60	8.10	29.00	58.5	4.10	5.6	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	11.6	Bottom	3	1	25.20	8.00	29.80	55.6	3.90	8.0	7.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	CS(Mf)5	18:11:00	11.6	Bottom	3	2	25.30	8.10	29.70	54.7	3.80	7.9	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00	1.0	Surface	1	1	28.60	8.00	17.80	82.4	5.80	7.4	5.7	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00	1.0	Surface	1	2	28.60	8.10	17.20	82.7	5.80	7.8	5.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00	3.1	Bottom	3	1	27.60	7.90	21.40	77.5	5.40	15.2	5.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR7	17:39:00	3.1	Bottom	3	2	27.60	8.00	21.20	78.4	5.50	15.9	5.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	1.0	Surface	1	1	27.90	8.00	21.90	78.4	5.50	4.0	10.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	1.0	Surface	1	2	27.90	8.10	21.80	78.7	5.50	4.0	11.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	3.8	Middle	2	1	27.70	8.00	22.20	72.3	5.00	3.8	11.2	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	3.8	Middle	2	2	27.70	8.10	22.20	72.7	5.10	3.6	11.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	6.5	Bottom	3	1	26.70	8.00	25.10	60.2	4.20	8.8	12.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS17	17:51:00	6.5	Bottom	3	2	26.70	8.10	24.90	59.9	4.20	8.4	11.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00	1.0	Surface	1	1	29.00	8.30	20.00	119.9	8.30	6.5	6.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00	1.0	Surface	1	2	29.00	8.40	19.90	120.5	8.30	6.9	7.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00	4.3	Bottom	3	1	27.60	8.00	22.30	72.0	5.00	9.2	9.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)16	17:43:00	4.3	Bottom	3	2	27.70	8.10	22.20	71.8	5.00	9.6	9.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00	1.5	Middle	2	1	28.60	8.10	19.30	92.0	6.40	8.3	8.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00	1.5	Middle	2	2	28.70	8.20	19.20	92.1	6.40	8.5	8.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS8	17:21:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00	1.0	Surface	1	1	28.90	8.20	18.90	101.4	7.00	7.6	6.0	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00	1.0	Surface	1	2	28.90	8.30	18.90	101.6	7.10	7.7	6.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00	2.4	Bottom	3	1	28.90	8.20	19.20	103.8	7.20	9.5	8.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR4(N)	17:27:00	2.4	Bottom	3	2	28.90	8.30	19.10	104.0	7.20	9.8	7.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00	1.3	Middle	2	1	28.50	8.20	20.70	98.1	6.80	12.1	12.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00	1.3	Middle	2	2	28.60	8.30	20.70	98.1	6.80	12.1	13.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)9	17:12:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS7	16:57:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS7	16:57:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS7	16:57:00	1.2	Middle	2	1	28.60	8.30	21.00	111.9	7.70	6.9	14.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS7	16:57:00	1.2	Middle	2	2	28.70	8.40	20.90	111.5	7.70	6.1	15.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS7	16:57:00		Bottom	3	1								

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-07	Mid-Flood	Fine	IS7	16:57:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00	1.0	Middle	2	1	28.70	8.20	20.80	106.6	7.30	9.5	13.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00	1.0	Middle	2	2	28.80	8.30	20.70	106.7	7.40	9.6	13.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS(Mf)6	16:44:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	1.0	Surface	1	1	29.40	8.30	20.00	123.6	8.50	5.2	11.1	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	1.0	Surface	1	2	29.50	8.40	20.00	124.5	8.50	5.9	10.9	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	4.0	Middle	2	1	29.00	8.30	20.70	106.5	7.30	9.9	11.8	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	4.0	Middle	2	2	29.00	8.40	20.60	106.1	7.30	9.8	11.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	7.0	Bottom	3	1	28.20	8.10	22.30	81.7	5.60	15.9	11.6	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	IS5	16:34:00	7.0	Bottom	3	2	28.20	8.20	22.30	81.8	5.60	15.4	11.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00	1.0	Surface	1	1	28.80	8.20	21.00	100.8	6.90	9.4	14.4	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00	1.0	Surface	1	2	28.80	8.30	20.90	101.2	7.00	9.1	14.5	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00	2.9	Bottom	3	1	28.70	8.20	21.30	96.8	6.70	12.4	15.3	
HKBCF	HY/2013/01	2018-09-07	Mid-Flood	Fine	SR3(N)	16:27:00	2.9	Bottom	3	2	28.80	8.30	21.20	96.9	6.70	12.8	15.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	1.0	Surface	1	1	26.60	8.10	26.30	62.8	4.40	4.0	6.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	1.0	Surface	1	2	26.60	8.00	26.40	61.8	4.30	4.1	5.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	6.3	Middle	2	1	26.20	8.10	27.20	59.7	4.10	5.2	5.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	6.3	Middle	2	2	26.20	8.00	27.20	58.5	4.10	5.2	6.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	11.5	Bottom	3	1	26.10	8.10	27.50	59.9	4.20	5.3	6.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10A(N)	13:20:00	11.5	Bottom	3	2	26.10	8.00	27.50	58.5	4.10	5.4	6.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	1.0	Surface	1	1	26.00	8.10	28.00	58.4	4.10	5.9	9.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	1.0	Surface	1	2	25.90	8.00	28.00	58.0	4.00	6.0	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	3.5	Middle	2	1	25.90	8.10	28.30	58.0	4.00	6.5	10.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	3.5	Middle	2	2	25.80	8.00	28.30	57.7	4.00	6.6	11.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	6.0	Bottom	3	1	25.80	8.10	28.40	58.8	4.10	6.8	13.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR10B(N2)	13:14:00	6.0	Bottom	3	2	25.80	8.00	28.50	58.7	4.10	6.9	13.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	1.0	Surface	1	1	26.60	7.90	24.60	60.3	4.20	5.4	6.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	1.0	Surface	1	2	26.60	8.00	24.30	60.4	4.20	5.2	6.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	16.4	Middle	2	1	26.30	7.90	25.10	57.3	4.00	8.9	5.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	16.4	Middle	2	2	26.30	8.00	24.70	57.3	4.00	8.7	6.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	31.7	Bottom	3	1	25.60	7.90	27.30	56.6	4.00	9.3	5.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CSA	13:31:00	31.7	Bottom	3	2	25.60	8.00	27.00	56.7	4.00	9.5	6.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	1.0	Surface	1	1	26.40	7.90	25.00	60.7	4.20	4.0	4.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	1.0	Surface	1	2	26.50	8.00	24.80	60.8	4.30	3.8	5.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	4.7	Middle	2	1	25.90	7.90	26.40	56.8	4.00	4.5	6.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	4.7	Middle	2	2	26.00	8.00	26.00	56.8	4.00	4.2	6.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	8.3	Bottom	3	1	25.60	7.90	27.10	56.8	4.00	8.6	7.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS6	13:22:00	8.3	Bottom	3	2	25.60	8.00	26.90	57.3	4.00	8.9	7.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	1.0	Surface	1	1	26.80	7.90	23.60	62.3	4.40	10.7	8.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	1.0	Surface	1	2	26.80	7.90	23.40	62.4	4.40	10.4	7.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	8.1	Middle	2	1	26.50	7.90	25.40	57.9	4.00	14.1	8.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	8.1	Middle	2	2	26.60	8.00	25.20	58.0	4.00	13.9	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	15.1	Bottom	3	1	26.30	7.90	26.10	56.4	3.90	17.9	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS4	12:30:00	15.1	Bottom	3	2	26.40	7.90	25.80	56.7	4.00	18.0	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00	1.0	Surface	1	1	26.30	7.90	26.80	53.1	3.70	8.5	10.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00	1.0	Surface	1	2	26.30	8.00	26.60	53.3	3.70	8.6	10.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00	3.3	Bottom	3	1	26.10	7.90	27.20	52.0	3.60	9.6	11.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR6	11:57:00	3.3	Bottom	3	2	26.10	8.00	27.00	52.2	3.60	9.3	12.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	1.0	Surface	1	1	26.90	7.90	23.60	60.2	4.20	6.9	9.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	1.0	Surface	1	2	26.90	8.00	23.40	60.1	4.20	6.7	9.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	3.5	Middle	2	1	26.60	7.90	25.00	57.5	4.00	9.9	9.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	3.5	Middle	2	2	26.60	8.00	24.70	57.7	4.00	9.7	9.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	6.0	Bottom	3	1	26.20	7.90	25.90	56.1	3.90	17.0	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:14:00	6.0	Bottom	3	2	26.20	8.00	25.70	56.8	4.00	16.9	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	1.0	Surface	1	1	27.00	7.90	22.90	62.3	4.40	6.2	7.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	1.0	Surface	1	2	27.00	8.00	22.60	62.3	4.40	6.7	7.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	4.6	Middle	2	1	26.50	7.90	25.50	56.5	3.90	11.1	9.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	4.6	Middle	2	2	26.50	8.00	25.20	56.7	4.00	11.2	8.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	8.2	Bottom	3	1	26.50	7.90	25.80	57.9	4.00	15.4	8.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR5(N)	12:45:00	8.2	Bottom	3	2	26.50	8.00	25.50	58.1	4.10	15.2	8.9	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	1.0	Surface	1	1	26.90	7.90	24.10	61.1	4.30	7.9	10.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	1.0	Surface	1	2	26.90	8.00	23.80	61.0	4.30	7.1	9.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	6.1	Middle	2	1	26.80	7.90	25.20	58.4	4.10	12.5	11.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	6.1	Middle	2	2	26.80	8.00	25.00	58.5	4.10	12.4	11.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	11.2	Bottom	3	1	26.70	7.90	25.70	57.8	4.00	16.1	13.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS10(N)	12:52:00	11.2	Bottom	3	2	26.70	8.00	25.50	58.2	4.00	15.9	12.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	1.0	Surface	1	1	26.90	7.90	23.80	61.5	4.30	6.8	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	1.0	Surface	1	2	27.00	8.00	23.60	61.4	4.30	6.2	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	5.6	Middle	2	1	26.80	7.90	25.10	58.9	4.10	13.0	10.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	5.6	Middle	2	2	26.80	8.00	24.70	59.0	4.10	13.9	11.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	10.2	Bottom	3	1	26.40	7.90	25.70	57.4	4.00	18.1	11.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)11	12:57:00	10.2	Bottom	3	2	26.40	8.00	25.40	57.6	4.00	18.3	12.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	1.0	Surface	1	1	26.20	8.10	26.90	55.9	3.90	6.9	7.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	1.0	Surface	1	2	26.20	8.00	27.00	55.5	3.90	7.0	6.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	6.0	Middle	2	1	25.90	8.10	27.90	53.0	3.70	7.8	8.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	6.0	Middle	2	2	25.80	8.00	28.00	52.9	3.70	7.9	8.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	11.0	Bottom	3	1	25.80	8.10	28.10	53.6	3.70	7.5	11.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	CS(Mf)5	12:48:00	11.0	Bottom	3	2	25.80	8.00	28.20	53.7	3.70	7.6	11.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00	1.0	Surface	1	1	27.00	7.90	23.60	62.6	4.40	12.1	6.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00	1.0	Surface	1	2	26.90	8.00	23.50	62.3	4.40	12.8	6.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00	3.4	Bottom	3	1	26.60	7.90	25.40	57.2	4.00	15.4	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR7	13:05:00	3.4	Bottom	3	2	26.60	8.00	25.10	57.6	4.00	15.0	9.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	1.0	Surface	1	1	26.50	8.10	26.70	58.1	4.00	7.6	13.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	1.0	Surface	1	2	26.50	8.00	26.70	58.0	4.00	7.7	13.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	4.7	Middle	2	1	26.40	8.10	26.90	57.3	4.00	7.6	14.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	4.7	Middle	2	2	26.40	8.00	27.00	57.3	4.00	7.7	14.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	8.3	Bottom	3	1	26.40	8.10	27.10	57.4	4.00	7.8	16.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS17	12:36:00	8.3	Bottom	3	2	26.40	8.00	27.10	57.5	4.00	7.9	15.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00	1.0	Surface	1	1	26.40	8.10	26.50	59.6	4.10	4.7	9.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00	1.0	Surface	1	2	26.40	8.00	26.50	59.4	4.10	4.8	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00	4.7	Bottom	3	1	25.90	8.10	27.70	58.0	4.00	3.9	9.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)16	12:27:00	4.7	Bottom	3	2	25.90	8.00	28.00	58.6	4.10	3.9	9.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00	1.0	Surface	1	1	27.30	8.10	24.80	66.5	4.60	4.1	5.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00	1.0	Surface	1	2	27.20	8.00	24.80	66.2	4.60	4.2	5.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00	3.0	Bottom	3	1	27.20	8.10	24.90	64.9	4.50	8.1	8.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS8	12:10:00	3.0	Bottom	3	2	27.20	8.00	25.00	64.8	4.50	8.2	8.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00	1.0	Surface	1	1	26.90	8.10	24.70	62.2	4.30	8.4	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00	1.0	Surface	1	2	26.80	8.00	24.80	62.3	4.30	8.5	9.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00	2.5	Bottom	3	1	26.90	8.00	24.80	63.5	4.40	8.9	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR4(N)	12:15:00	2.5	Bottom	3	2	26.80	8.00	24.90	63.6	4.40	9.0	9.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	1.0	Surface	1	1	27.40	8.10	24.80	68.0	4.70	4.0	5.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	1.0	Surface	1	2	27.30	8.00	24.80	67.8	4.70	4.1	6.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	2.5	Bottom	3	1	27.30	8.10	24.80	66.7	4.60	4.3	8.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03:00	2.5	Bottom	3	2	27.20	8.00	24.80	66.7	4.60	4.4	7.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00	1.4	Middle	2	1	26.90	8.10	24.80	66.5	4.60	10.6	13.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00	1.4	Middle	2	2	26.90	8.00	24.80	66.1	4.60	10.7	14.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS7	11:58:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00	1.3	Middle	2	1	27.30	8.10	25.20	63.7	4.40	12.3	18.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00	1.3	Middle	2	2	27.20	8.00	25.10	64.2	4.40	12.4	18.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS(Mf)6	11:52:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	1.0	Surface	1	1	27.10	8.10	25.70	61.9	4.30	7.4	9.4	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	1.0	Surface	1	2	27.10	8.00	25.80	61.5	4.20	7.6	9.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	4.5	Middle	2	1	26.70	8.10	27.00	55.6	3.80	9.1	10.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	4.5	Middle	2	2	26.60	8.00	27.10	55.4	3.80	9.2	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	8.0	Bottom	3	1	26.60	8.10	27.20	55.0	3.80	10.2	10.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	IS5	11:46:00	8.0	Bottom	3	2	26.60	8.00	27.30	55.2	3.80	10.2	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00	1.0	Surface	1	1	27.20	8.10	25.20	62.5	4.30	8.2	10.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00	1.0	Surface	1	2	27.20	8.00	25.30	62.5	4.30	8.3	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00	2.6	Bottom	3	1	27.10	8.10	25.70	61.8	4.30	7.8	11.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Ebb	Cloudy	SR3(N)	11:41:00	2.6	Bottom	3	2	27.10	8.00	25.80	62.0	4.30	8.0	10.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	1.0	Surface	1	1	26.40	8.10	25.90	60.6	4.20	3.7	6.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	1.0	Surface	1	2	26.40	8.00	26.00	60.3	4.20	3.9	6.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	6.0	Middle	2	1	25.70	8.10	28.20	55.0	3.80	5.0	7.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	6.0	Middle	2	2	25.70	8.00	28.20	54.9	3.80	5.1	7.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	11.0	Bottom	3	1	25.50	8.10	28.80	52.9	3.70	5.7	7.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10A(N)	5:27:00	11.0	Bottom	3	2	25.50	8.00	28.80	52.8	3.70	5.8	7.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	1.0	Surface	1	1	25.10	8.10	30.10	49.8	3.50	8.0	13.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	1.0	Surface	1	2	25.10	8.00	30.10	50.3	3.50	8.1	12.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	3.4	Middle	2	1	25.10	8.10	30.10	49.6	3.50	8.7	14.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	3.4	Middle	2	2	25.10	8.00	30.10	50.4	3.50	8.8	14.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	5.8	Bottom	3	1	25.10	8.10	30.10	49.4	3.40	8.7	15.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR10B(N2)	5:33:00	5.8	Bottom	3	2	25.10	8.00	30.10	50.8	3.50	8.8	14.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	1.0	Surface	1	1	26.40	7.90	24.50	61.3	4.30	5.8	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	1.0	Surface	1	2	26.40	7.90	24.70	60.7	4.30	6.0	9.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	16.7	Middle	2	1	26.40	7.90	24.70	59.5	4.20	5.6	8.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	16.7	Middle	2	2	26.40	7.90	24.90	59.3	4.20	5.8	8.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	32.4	Bottom	3	1	26.30	7.90	25.00	59.8	4.20	6.0	9.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CSA	5:52:00	32.4	Bottom	3	2	26.30	7.90	25.10	59.3	4.20	5.9	9.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	1.0	Surface	1	1	26.60	7.90	24.10	58.9	4.10	6.9	7.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	1.0	Surface	1	2	26.60	7.90	24.20	58.8	4.10	6.1	8.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	4.6	Middle	2	1	26.50	7.90	24.50	58.8	4.10	5.8	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	4.6	Middle	2	2	26.50	7.90	24.70	58.6	4.10	5.8	8.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	8.2	Bottom	3	1	26.40	7.90	24.90	57.2	4.00	5.7	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS6	6:03:00	8.2	Bottom	3	2	26.40	7.90	25.00	57.1	4.00	5.8	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	1.0	Surface	1	1	26.40	8.00	23.70	61.4	4.30	4.7	9.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	1.0	Surface	1	2	26.40	7.90	24.10	60.9	4.30	4.6	10.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	8.1	Middle	2	1	26.30	8.00	24.60	58.0	4.10	6.2	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	8.1	Middle	2	2	26.30	7.90	24.90	57.8	4.10	6.0	9.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	15.2	Bottom	3	1	25.70	8.00	26.60	53.8	3.80	10.9	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS4	7:03:00	15.2	Bottom	3	2	25.70	7.90	26.90	53.5	3.80	10.4	9.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00	1.0	Surface	1	1	26.60	7.90	25.00	55.3	3.90	20.1	27.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00	1.0	Surface	1	2	26.50	7.90	25.20	55.1	3.80	20.0	26.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00	3.5	Bottom	3	1	26.40	7.90	25.50	56.9	4.00	22.1	30.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR6	7:38:00	3.5	Bottom	3	2	26.40	7.80	25.70	56.9	4.00	21.9	30.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	1.0	Surface	1	1	26.90	7.90	22.20	63.3	4.50	17.2	22.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	1.0	Surface	1	2	26.90	7.90	22.40	63.1	4.50	17.4	23.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	3.6	Middle	2	1	26.90	7.90	22.20	62.9	4.40	16.8	25.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	3.6	Middle	2	2	26.90	7.90	22.40	62.8	4.40	18.3	26.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	6.1	Bottom	3	1	26.90	7.90	22.50	62.9	4.40	18.7	28.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)3(N)	7:18:00	6.1	Bottom	3	2	26.90	7.90	22.70	62.8	4.40	18.6	28.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	1.0	Surface	1	1	26.60	8.00	23.90	59.8	4.20	17.8	9.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	1.0	Surface	1	2	26.50	7.90	24.20	59.9	4.20	17.6	9.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	4.6	Middle	2	1	26.50	8.00	24.10	58.5	4.10	19.3	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	4.6	Middle	2	2	26.50	7.90	24.40	58.4	4.10	19.3	10.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	8.2	Bottom	3	1	26.20	8.00	25.10	57.3	4.00	21.3	10.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR5(N)	6:46:00	8.2	Bottom	3	2	26.20	7.90	25.30	57.2	4.00	21.1	10.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	1.0	Surface	1	1	26.70	8.00	23.20	63.3	4.50	5.9	8.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	1.0	Surface	1	2	26.70	7.90	23.20	63.5	4.50	6.0	7.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	6.2	Middle	2	1	26.40	8.00	24.40	58.3	4.10	12.9	8.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	6.2	Middle	2	2	26.40	7.90	24.60	58.3	4.10	13.1	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	11.4	Bottom	3	1	26.20	8.00	25.30	57.0	4.00	17.5	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS10(N)	6:39:00	11.4	Bottom	3	2	26.20	7.90	25.50	56.8	4.00	17.3	8.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	1.0	Surface	1	1	26.70	8.00	23.10	60.9	4.30	10.2	9.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	1.0	Surface	1	2	26.70	7.90	23.20	60.8	4.30	10.0	10.1	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	5.6	Middle	2	1	26.40	8.00	24.60	57.5	4.00	14.3	10.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	5.6	Middle	2	2	26.30	7.90	24.80	57.4	4.00	14.2	10.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	10.1	Bottom	3	1	26.10	8.00	25.40	55.7	3.90	18.2	10.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)11	6:31:00	10.1	Bottom	3	2	26.10	7.90	25.60	55.9	3.90	18.7	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	1.0	Surface	1	1	26.50	8.10	25.20	59.6	4.20	4.5	5.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	1.0	Surface	1	2	26.50	8.00	25.20	59.2	4.10	4.6	6.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	6.3	Middle	2	1	25.50	8.10	28.90	50.7	3.50	8.9	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	6.3	Middle	2	2	25.50	8.00	28.90	50.5	3.50	9.0	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	11.5	Bottom	3	1	25.30	8.10	29.50	50.3	3.50	10.5	9.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	CS(Mf)5	5:59:00	11.5	Bottom	3	2	25.30	8.00	29.50	50.4	3.50	10.6	9.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00	1.0	Surface	1	1	26.60	7.90	23.50	59.4	4.20	11.8	10.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00	1.0	Surface	1	2	26.60	7.90	23.70	59.2	4.20	11.8	9.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00	3.3	Bottom	3	1	26.50	7.90	24.00	59.2	4.20	13.6	12.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR7	6:24:00	3.3	Bottom	3	2	26.50	7.80	24.10	59.0	4.20	13.2	12.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	1.0	Surface	1	1	26.60	8.10	24.60	62.1	4.30	5.9	7.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	1.0	Surface	1	2	26.60	8.00	24.60	61.7	4.30	6.0	7.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	4.5	Middle	2	1	26.50	8.10	25.90	55.6	3.90	6.1	8.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	4.5	Middle	2	2	26.40	8.00	26.00	55.2	3.80	6.2	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	8.0	Bottom	3	1	26.40	8.10	26.00	56.7	3.90	6.2	8.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS17	6:18:00	8.0	Bottom	3	2	26.40	8.00	26.10	56.6	3.90	6.3	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00	1.0	Surface	1	1	26.60	8.10	25.00	60.1	4.20	4.9	5.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00	1.0	Surface	1	2	26.50	8.00	25.00	59.5	4.20	5.0	5.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00	4.6	Bottom	3	1	26.50	8.10	25.60	58.2	4.10	6.7	8.6	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)16	6:25:00	4.6	Bottom	3	2	26.50	8.00	25.70	57.5	4.00	6.8	8.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00	1.0	Surface	1	1	26.60	8.10	24.90	60.5	4.20	6.5	8.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00	1.0	Surface	1	2	26.60	8.00	24.90	60.3	4.20	6.6	8.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00	2.7	Bottom	3	1	26.60	8.10	25.10	59.4	4.10	7.0	10.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS8	6:47:00	2.7	Bottom	3	2	26.50	8.00	25.10	59.3	4.10	7.1	11.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00	1.0	Surface	1	1	26.60	8.10	24.80	60.6	4.20	6.1	12.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00	1.0	Surface	1	2	26.60	8.00	24.80	60.4	4.20	6.2	11.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00	2.3	Bottom	3	1	26.60	8.10	24.80	59.1	4.10	6.7	13.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR4(N)	6:41:00	2.3	Bottom	3	2	26.60	8.00	24.80	59.0	4.10	6.8	13.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00	1.0	Surface	1	1	26.50	8.10	25.30	58.9	4.10	5.5	6.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00	1.0	Surface	1	2	26.50	8.00	25.30	58.9	4.10	5.6	7.1	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00	2.3	Bottom	3	1	26.50	8.10	25.50	58.1	4.10	8.0	8.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)9	6:55:00	2.3	Bottom	3	2	26.50	8.00	25.50	58.3	4.10	8.1	8.7	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00	1.4	Middle	2	1	26.80	8.10	24.90	62.0	4.30	4.9	7.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00	1.4	Middle	2	2	26.80	8.00	24.90	61.4	4.30	5.0	7.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS7	7:03:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00	1.2	Middle	2	1	26.90	8.10	24.80	62.4	4.30	5.0	9.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00	1.2	Middle	2	2	26.80	8.00	24.90	61.9	4.30	5.1	9.8	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS(Mf)6	7:11:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	1.0	Surface	1	1	26.90	8.10	24.70	64.4	4.50	4.5	7.5	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	1.0	Surface	1	2	26.90	8.00	24.70	64.0	4.50	4.6	8.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	4.4	Middle	2	1	26.80	8.10	25.30	61.8	4.30	6.0	10.2	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	4.4	Middle	2	2	26.80	8.00	25.40	61.5	4.30	6.1	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	7.8	Bottom	3	1	26.60	8.10	26.10	55.8	3.90	7.8	10.3	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	IS5	7:16:00	7.8	Bottom	3	2	26.60	8.00	26.10	56.0	3.90	7.9	10.0	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR3(N)	7:24:00	1.0	Surface	1	1	27.00	8.10	24.90	61.9	4.30	6.8	9.9	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR3(N)	7:24:00	1.0	Surface	1	2	26.90	8.00	24.90	61.6	4.30	6.9	10.4	
HKBCF	HY/2013/01	2018-09-10	Mid-Flood	Fine	SR3(N)	7:24:00		Middle	2	1								

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical





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	2018-09-12	Mid-Flood	Fine	SR10A(N)	7:07:00	10.8	Bottom	3	2	26.30	8.10	27.00	61.5	4.30	11.6	14.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	1.0	Surface	1	1	25.80	8.00	28.70	55.4	3.80	8.4	13.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	1.0	Surface	1	2	25.80	8.10	28.60	55.3	3.80	8.3	13.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	3.3	Middle	2	1	25.80	8.00	28.70	55.8	3.90	8.7	15.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	3.3	Middle	2	2	25.80	8.10	28.60	55.6	3.90	8.5	14.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	5.5	Bottom	3	1	25.80	8.00	28.70	56.5	3.90	9.0	16.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR10B(N2)	7:18:00	5.5	Bottom	3	2	25.80	8.10	28.60	56.2	3.90	8.9	16.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	1.0	Surface	1	1	27.00	7.90	22.80	62.5	4.40	5.9	8.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	1.0	Surface	1	2	27.00	7.90	23.00	62.7	4.40	5.6	9.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	16.6	Middle	2	1	26.10	8.00	26.20	57.4	4.00	6.7	12.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	16.6	Middle	2	2	26.10	7.90	26.40	57.3	4.00	6.8	12.5	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	32.2	Bottom	3	1	26.00	8.00	26.60	57.9	4.10	9.3	15.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CSA	7:18:00	32.2	Bottom	3	2	26.00	7.90	26.70	57.7	4.00	9.6	15.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	1.0	Surface	1	1	27.00	7.90	22.90	62.2	4.40	5.4	10.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	1.0	Surface	1	2	27.00	7.90	22.80	62.0	4.40	5.7	10.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	4.9	Middle	2	1	27.00	7.90	23.40	61.5	4.30	5.6	12.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	4.9	Middle	2	2	26.90	7.90	23.50	61.3	4.30	5.4	13.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	8.8	Bottom	3	1	26.90	7.90	23.80	63.3	4.40	7.1	14.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS6	7:26:00	8.8	Bottom	3	2	26.80	7.90	24.00	62.9	4.40	7.7	14.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	1.0	Surface	1	1	27.20	7.90	22.10	65.0	4.60	5.6	10.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	1.0	Surface	1	2	27.10	7.90	22.40	64.9	4.60	5.4	9.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	8.1	Middle	2	1	26.90	7.90	23.30	61.6	4.30	8.4	12.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	8.1	Middle	2	2	26.90	7.90	23.50	61.5	4.30	8.7	12.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	15.2	Bottom	3	1	26.50	7.90	24.70	59.6	4.20	17.3	13.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS4	8:21:00	15.2	Bottom	3	2	26.50	7.90	25.00	59.5	4.20	17.6	14.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00	1.0	Surface	1	1	27.20	7.90	22.40	64.7	4.50	16.2	23.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00	1.0	Surface	1	2	27.20	7.90	22.70	64.9	4.50	19.0	23.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00	3.4	Bottom	3	1	27.20	7.90	22.90	65.0	4.50	20.4	26.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR6	8:55:00	3.4	Bottom	3	2	27.20	7.90	23.20	65.1	4.60	20.0	26.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	1.0	Surface	1	1	27.20	7.90	21.00	64.2	4.50	13.0	22.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	1.0	Surface	1	2	27.20	7.80	21.10	63.9	4.50	13.2	21.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	3.6	Middle	2	1	27.20	7.90	21.00	64.3	4.50	13.5	22.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	3.6	Middle	2	2	27.20	7.80	21.20	64.2	4.50	14.0	9.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	6.1	Bottom	3	1	27.20	7.90	21.00	66.2	4.70	16.4	8.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)3(N)	8:36:00	6.1	Bottom	3	2	27.20	7.80	21.20	66.1	4.70	16.0	9.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	1.0	Surface	1	1	27.10	7.90	22.70	62.7	4.40	13.2	12.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	1.0	Surface	1	2	27.10	7.90	22.90	62.6	4.40	13.6	13.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	4.7	Middle	2	1	27.10	7.90	22.80	62.5	4.40	15.2	15.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	4.7	Middle	2	2	27.10	7.90	23.00	62.5	4.40	15.4	15.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	8.3	Bottom	3	1	27.10	7.90	22.80	64.0	4.50	18.6	18.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR5(N)	8:05:00	8.3	Bottom	3	2	27.00	7.90	23.00	63.9	4.50	18.6	17.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	1.0	Surface	1	1	27.10	7.90	22.50	62.3	4.40	10.6	10.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	1.0	Surface	1	2	27.10	7.90	22.70	62.4	4.40	10.5	11.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	6.2	Middle	2	1	27.00	7.90	22.80	61.2	4.30	14.8	12.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	6.2	Middle	2	2	27.00	7.90	23.10	61.3	4.30	14.1	12.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	11.4	Bottom	3	1	26.80	7.90	23.90	60.8	4.30	17.5	14.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS10(N)	7:59:00	11.4	Bottom	3	2	26.70	7.90	24.20	60.6	4.20	17.5	15.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	1.0	Surface	1	1	27.20	7.90	22.20	64.5	4.50	10.0	14.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	1.0	Surface	1	2	27.20	7.80	22.40	64.4	4.50	10.8	15.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	5.6	Middle	2	1	27.20	7.90	22.50	63.5	4.50	13.5	14.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	5.6	Middle	2	2	27.10	7.90	22.70	63.4	4.40	13.4	13.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	10.2	Bottom	3	1	27.10	7.90	22.70	64.8	4.50	19.0	14.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)11	7:53:00	10.2	Bottom	3	2	27.10	7.90	22.80	64.8	4.50	19.2	13.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	1.0	Surface	1	1	26.80	8.00	25.10	59.2	4.10	13.5	6.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	1.0	Surface	1	2	26.80	8.10	25.00	59.4	4.10	13.4	6.5	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	6.5	Middle	2	1	26.30	8.00	27.00	57.7	4.00	11.6	6.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	6.5	Middle	2	2	26.30	8.10	26.90	57.4	4.00	11.5	6.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	11.9	Bottom	3	1	26.30	8.00	27.30	60.3	4.20	12.0	7.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	CS(Mf)5	7:43:00	11.9	Bottom	3	2	26.30	8.10	27.00	59.9	4.20	11.9	7.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00	1.0	Surface	1	1	27.00	7.90	22.80	62.9	4.40	14.5	16.1	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00	1.0	Surface	1	2	27.00	7.90	23.10	62.9	4.40	14.8	15.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00	3.3	Bottom	3	1	26.90	7.90	23.20	63.4	4.40	18.8	18.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR7	7:45:00	3.3	Bottom	3	2	26.90	7.90	23.40	63.4	4.40	18.8	18.0	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	1.0	Surface	1	1	27.00	8.00	24.10	60.4	4.20	13.3	5.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	1.0	Surface	1	2	27.00	8.00	24.00	63.7	4.40	13.2	5.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	5.0	Middle	2	1	26.70	8.00	25.40	58.8	4.10	12.7	7.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	5.0	Middle	2	2	26.80	8.10	25.30	58.7	4.10	12.6	7.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	8.9	Bottom	3	1	26.60	8.00	25.90	59.9	4.20	10.8	7.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS17	8:02:00	8.9	Bottom	3	2	26.60	8.00	26.10	60.6	4.20	10.7	7.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00	1.0	Surface	1	1	27.10	8.00	23.90	61.5	4.30	12.6	6.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00	1.0	Surface	1	2	27.10	8.00	23.90	61.5	4.30	12.5	7.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00	4.7	Bottom	3	1	27.00	8.00	24.50	62.4	4.30	11.7	9.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)16	8:08:00	4.7	Bottom	3	2	27.00	8.00	24.50	62.9	4.40	11.6	10.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00	1.0	Surface	1	1	27.10	8.00	23.70	61.9	4.30	11.2	7.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00	1.0	Surface	1	2	27.10	8.00	23.70	61.9	4.30	11.1	6.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00	2.8	Bottom	3	1	27.10	8.00	23.80	65.1	4.50	11.0	8.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS8	8:28:00	2.8	Bottom	3	2	27.10	8.00	23.80	64.7	4.50	10.9	9.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00	1.0	Surface	1	1	27.10	8.00	23.80	63.8	4.40	12.3	6.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00	1.0	Surface	1	2	27.10	8.00	23.80	63.6	4.40	12.2	7.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00	2.2	Bottom	3	1	27.00	8.00	23.90	66.2	4.60	12.2	9.7	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR4(N)	8:22:00	2.2	Bottom	3	2	27.10	8.00	23.80	65.6	4.60	12.1	10.0	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00	1.0	Surface	1	1	27.00	8.00	24.40	62.9	4.40	11.9	6.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00	1.0	Surface	1	2	27.00	8.00	24.30	62.6	4.40	11.8	7.5	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00	2.4	Bottom	3	1	27.00	8.00	24.50	64.5	4.50	10.9	7.5	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)9	8:36:00	2.4	Bottom	3	2	27.00	8.00	24.50	64.1	4.50	10.8	7.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00	1.3	Middle	2	1	26.90	8.00	25.00	67.4	4.70	12.7	8.4	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00	1.3	Middle	2	2	26.90	8.00	25.00	66.5	4.60	12.6	8.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS7	8:42:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00	1.2	Middle	2	1	26.90	8.00	25.20	68.2	4.70	4.9	9.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00	1.2	Middle	2	2	27.00	8.00	25.10	67.7	4.70	4.8	9.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS(Mf)6	8:50:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	1.0	Surface	1	1	27.10	8.00	25.00	64.0	4.40	10.7	10.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	1.0	Surface	1	2	27.10	8.00	25.00	64.0	4.40	10.6	11.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	4.5	Middle	2	1	27.10	8.00	25.10	65.3	4.50	10.1	13.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	4.5	Middle	2	2	27.10	8.00	25.00	65.0	4.50	10.0	14.3	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	8.0	Bottom	3	1	27.00	8.00	25.10	67.2	4.70	9.9	14.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	IS5	8:54:00	8.0	Bottom	3	2	27.10	8.00	25.00	66.7	4.60	9.8	13.9	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00	1.0	Surface	1	1	27.10	8.00	25.00	63.0	4.40	11.4	9.8	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00	1.0	Surface	1	2	27.10	8.00	24.90	62.9	4.40	11.3	9.6	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00	2.4	Bottom	3	1	27.10	8.00	25.00	64.2	4.50	11.4	14.2	
HKBCF	HY/2013/01	2018-09-12	Mid-Flood	Fine	SR3(N)	9:01:00	2.4	Bottom	3	2	27.10	8.00	24.90	63.7	4.40	11.3	13.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	1.0	Surface	1	1	27.30	8.00	26.60	72.7	5.00	15.1	7.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	1.0	Surface	1	2	27.30	8.10	26.50	72.5	5.00	15.4	7.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	6.0	Middle	2	1	26.70	8.00	27.30	68.5	4.70	14.6	7.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	6.0	Middle	2	2	26.80	8.10	27.30	68.0	4.70	14.1	7.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	10.9	Bottom	3	1	26.60	8.00	27.60	67.7	4.70	14.3	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10A(N)	16:14:00	10.9	Bottom	3	2	26.60	8.10	27.70	66.9	4.60	14.0	9.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	1.0	Surface	1	1	27.10	8.00	26.90	71.2	4.90	14.3	8.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	1.0	Surface	1	2	27.10	8.10	26.90	70.7	4.80	14.1	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	3.1	Middle	2	1	27.10	8.00	26.90	71.3	4.90	14.6	11.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	3.1	Middle	2	2	27.10	8.10	26.80	70.8	4.90	13.9	10.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	5.2	Bottom	3	1	27.00	8.00	27.00	71.2	4.90	13.1	11.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR10B(N2)	16:09:00	5.2	Bottom	3	2	27.00	8.10	27.00	70.7	4.80	13.8	11.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	1.0	Surface	1	1	27.80	7.90	22.40	77.5	5.40	2.4	5.8	

Remarks:

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(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	1.0	Surface	1	2	27.80	8.00	22.30	77.3	5.40	2.8	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	16.8	Middle	2	1	26.20	7.90	26.80	65.3	4.50	4.3	5.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	16.8	Middle	2	2	26.20	8.10	26.70	65.3	4.50	4.5	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	32.5	Bottom	3	1	26.10	7.90	27.20	65.6	4.60	5.5	7.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CSA	15:58:00	32.5	Bottom	3	2	26.20	8.10	27.00	66.0	4.60	5.1	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	1.0	Surface	1	1	27.30	7.90	23.40	75.1	5.20	3.1	4.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	1.0	Surface	1	2	27.40	8.00	23.30	75.1	5.20	3.2	4.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	4.8	Middle	2	1	27.10	7.90	24.10	74.9	5.20	3.7	5.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	4.8	Middle	2	2	27.10	8.00	24.10	75.0	5.20	3.8	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	8.5	Bottom	3	1	27.00	7.90	24.30	77.3	5.40	4.4	7.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS6	15:50:00	8.5	Bottom	3	2	27.10	8.00	24.20	77.3	5.40	4.3	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	1.0	Surface	1	1	28.20	7.80	21.90	76.5	5.30	3.7	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	1.0	Surface	1	2	28.20	8.00	21.80	76.2	5.30	3.9	5.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	8.6	Middle	2	1	27.10	7.90	23.50	70.7	4.90	7.7	6.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	8.6	Middle	2	2	27.20	8.00	23.40	70.7	4.90	7.2	5.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	16.2	Bottom	3	1	26.80	7.90	24.90	72.8	5.10	8.1	5.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS4	14:57:00	16.2	Bottom	3	2	26.80	8.00	24.70	72.6	5.10	8.1	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00	1.0	Surface	1	1	27.60	7.90	23.90	77.2	5.30	6.0	6.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00	1.0	Surface	1	2	27.60	8.10	23.70	77.1	5.30	6.3	5.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00	3.3	Bottom	3	1	27.40	7.90	24.30	78.7	5.40	7.2	7.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR6	14:27:00	3.3	Bottom	3	2	27.40	8.10	24.00	78.7	5.40	7.1	6.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	1.0	Surface	1	1	27.50	7.80	21.40	72.6	5.10	6.8	6.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	1.0	Surface	1	2	27.60	8.00	21.30	72.6	5.10	6.7	6.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	3.8	Middle	2	1	27.20	7.90	23.00	73.5	5.10	10.7	7.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	3.8	Middle	2	2	27.30	8.00	22.90	73.5	5.10	10.4	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	6.5	Bottom	3	1	27.20	7.90	23.70	76.5	5.30	12.1	9.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)3(N)	14:45:00	6.5	Bottom	3	2	27.30	8.00	23.60	76.5	5.30	12.4	9.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	1.0	Surface	1	1	27.50	7.90	22.20	74.5	5.20	6.9	8.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	1.0	Surface	1	2	27.50	8.00	22.00	74.4	5.20	7.2	7.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	4.7	Middle	2	1	27.20	7.90	23.70	75.3	5.20	9.8	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	4.7	Middle	2	2	27.20	8.00	23.60	75.2	5.20	9.5	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	8.4	Bottom	3	1	27.20	7.90	24.20	77.5	5.40	10.3	10.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR5(N)	15:15:00	8.4	Bottom	3	2	27.20	8.00	24.10	77.6	5.40	10.4	11.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	1.0	Surface	1	1	27.60	7.90	22.10	76.6	5.30	7.8	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	1.0	Surface	1	2	27.60	8.00	21.90	76.5	5.30	7.6	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	6.2	Middle	2	1	27.30	7.90	24.10	77.6	5.40	15.9	7.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	6.2	Middle	2	2	27.40	8.10	23.90	77.4	5.40	15.4	7.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	11.3	Bottom	3	1	27.30	8.00	24.30	79.3	5.50	17.2	9.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS10(N)	15:20:00	11.3	Bottom	3	2	27.30	8.10	24.10	79.4	5.50	17.2	8.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	1.0	Surface	1	1	27.80	7.90	21.80	76.0	5.30	6.3	4.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	1.0	Surface	1	2	27.80	8.00	21.70	76.0	5.30	6.8	4.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	5.7	Middle	2	1	27.40	7.90	24.00	74.7	5.20	11.7	5.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	5.7	Middle	2	2	27.40	8.10	23.80	74.6	5.20	11.7	4.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	10.4	Bottom	3	1	26.90	7.90	24.70	74.2	5.20	16.7	5.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)11	15:24:00	10.4	Bottom	3	2	26.90	8.00	24.50	74.2	5.20	16.4	6.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	1.0	Surface	1	1	27.00	8.00	25.90	69.5	4.80	13.3	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	1.0	Surface	1	2	27.00	8.10	25.80	69.2	4.80	13.9	9.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	6.2	Middle	2	1	26.90	8.00	26.20	68.4	4.70	14.5	8.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	6.2	Middle	2	2	27.00	8.10	26.10	68.1	4.70	14.2	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	11.3	Bottom	3	1	26.20	8.00	28.10	64.5	4.40	11.5	11.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	CS(Mf)5	15:43:00	11.3	Bottom	3	2	26.30	8.10	28.10	63.7	4.40	11.8	11.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00	1.0	Surface	1	1	27.50	7.90	22.90	76.1	5.30	6.9	8.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00	1.0	Surface	1	2	27.50	8.00	22.80	76.1	5.30	6.9	9.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00	3.4	Bottom	3	1	27.30	7.90	23.40	80.4	5.60	8.0	10.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR7	15:32:00	3.4	Bottom	3	2	27.30	8.00	23.20	80.7	5.60	8.2	10.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	1.0	Surface	1	1	27.10	8.00	25.40	69.7	4.80	2.5	10.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	1.0	Surface	1	2	27.20	8.00	25.40	69.4	4.80	2.1	10.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	5.0	Middle	2	1	26.90	8.00	25.90	67.8	4.70	4.1	10.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	5.0	Middle	2	2	26.90	8.00	25.90	67.4	4.70	4.9	10.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	8.9	Bottom	3	1	26.70	8.00	26.40	66.7	4.60	7.3	11.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS17	15:27:00	8.9	Bottom	3	2	26.70	8.00	26.30	66.0	4.60	8.0	10.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00	1.0	Surface	1	1	27.10	8.00	25.60	71.3	4.90	11.0	5.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00	1.0	Surface	1	2	27.20	8.00	25.50	71.0	4.90	11.6	5.6	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00	4.7	Bottom	3	1	26.80	8.00	26.20	69.8	4.80	14.0	8.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)16	15:20:00	4.7	Bottom	3	2	26.90	8.10	26.20	69.2	4.80	14.4	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00	1.0	Surface	1	1	28.10	8.00	24.90	80.9	5.50	15.3	6.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00	1.0	Surface	1	2	28.10	8.10	24.90	80.9	5.50	15.2	6.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00	2.6	Bottom	3	1	27.50	8.00	25.30	78.1	5.40	9.3	6.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS8	14:59:00	2.6	Bottom	3	2	27.60	8.10	25.30	77.8	5.30	9.7	7.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00	1.0	Surface	1	1	27.70	8.00	25.00	77.5	5.30	13.1	8.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00	1.0	Surface	1	2	27.80	8.10	24.90	77.0	5.30	13.7	9.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00	3.2	Bottom	3	1	27.80	8.00	25.00	78.7	5.40	13.7	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR4(N)	15:04:00	3.2	Bottom	3	2	27.80	8.10	25.00	78.1	5.30	14.1	8.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00	1.0	Surface	1	1	27.70	8.00	25.30	80.1	5.50	13.9	5.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00	1.0	Surface	1	2	27.70	8.10	25.30	79.8	5.50	14.0	6.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00	2.3	Bottom	3	1	27.20	8.00	25.40	73.9	5.10	10.7	7.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)9	14:50:00	2.3	Bottom	3	2	27.30	8.00	25.40	73.3	5.00	10.1	7.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00	1.4	Middle	2	1	27.50	8.00	25.30	80.4	5.50	11.6	7.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00	1.4	Middle	2	2	27.60	8.10	25.30	79.3	5.40	11.1	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS7	14:44:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00	1.3	Middle	2	1	27.70	8.10	25.80	83.2	5.70	14.6	7.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00	1.3	Middle	2	2	27.80	8.10	25.70	81.6	5.60	14.1	7.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS(Mf)6	14:37:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	1.0	Surface	1	1	27.30	8.00	26.00	74.6	5.10	12.0	5.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	1.0	Surface	1	2	27.40	8.10	26.00	74.3	5.10	12.4	5.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	4.7	Middle	2	1	27.30	8.00	26.10	73.7	5.10	11.3	6.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	4.7	Middle	2	2	27.30	8.10	26.00	73.4	5.00	11.8	6.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	8.4	Bottom	3	1	27.20	8.00	26.10	72.9	5.00	9.5	7.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	IS5	14:29:00	8.4	Bottom	3	2	27.30	8.10	26.10	72.4	5.00	9.1	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00	1.0	Surface	1	1	27.60	8.10	25.90	76.5	5.20	13.7	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00	1.0	Surface	1	2	27.60	8.10	25.80	76.4	5.20	13.5	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00	2.5	Bottom	3	1	27.30	8.10	26.10	75.0	5.10	10.9	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Ebb	Misty	SR3(N)	14:23:00	2.5	Bottom	3	2	27.40	8.10	26.00	74.4	5.10	10.5	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	1.0	Surface	1	1	26.90	8.00	25.90	69.3	4.80	11.5	5.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	1.0	Surface	1	2	26.80	8.00	25.90	69.6	4.80	11.2	5.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	6.6	Middle	2	1	26.70	8.00	26.40	67.0	4.60	13.7	7.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	6.6	Middle	2	2	26.60	8.00	26.40	67.5	4.70	13.2	7.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	12.1	Bottom	3	1	26.60	8.00	26.60	67.4	4.70	13.6	7.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10A(N)	8:40:00	12.1	Bottom	3	2	26.60	7.90	26.60	68.4	4.70	14.0	7.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	1.0	Surface	1	1	26.20	8.10	28.30	62.8	4.30	6.8	5.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	1.0	Surface	1	2	26.10	8.00	28.30	63.2	4.40	6.5	5.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	3.3	Middle	2	1	26.10	8.10	28.30	62.9	4.30	6.4	6.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	3.3	Middle	2	2	26.10	8.00	28.30	63.4	4.40	6.8	6.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	5.5	Bottom	3	1	26.20	8.10	28.30	63.9	4.40	10.5	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR10B(N2)	8:51:00	5.5	Bottom	3	2	26.10	8.00	28.30	64.5	4.50	10.9	8.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	1.0	Surface	1	1	27.10	7.90	23.80	73.1	5.10	5.8	6.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	1.0	Surface	1	2	27.10	8.00	23.50	73.2	5.10	5.5	6.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	16.7	Middle	2	1	26.70	7.90	25.20	66.6	4.60	9.7	6.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	16.7	Middle	2	2	26.70	8.00	24.90	66.6	4.60	9.6	6.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	32.4	Bottom	3	1	26.30	7.90	26.40	64.4	4.50	9.8	8.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CSA	9:00:00	32.4	Bottom	3	2	26.30	8.00	26.20	64.5	4.50	10.1	8.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	1.0	Surface	1	1	27.00	7.90	24.00	71.6	5.00	10.7	8.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	1.0	Surface	1	2	27.00	8.00	23.70	71.7	5.00	10.8	8.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	4.9	Middle	2	1	26.90	7.90	24.20	72.7	5.10	11.8	9.0	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	4.9	Middle	2	2	27.00	8.00	23.80	72.5	5.10	11.9	8.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	8.7	Bottom	3	1	26.90	7.90	24.40	75.3	5.20	12.7	10.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS6	9:14:00	8.7	Bottom	3	2	26.90	8.00	24.10	75.2	5.20	12.9	10.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	1.0	Surface	1	1	27.30	7.90	23.10	72.1	5.00	4.5	10.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	1.0	Surface	1	2	27.30	8.00	22.90	72.1	5.00	4.4	9.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	8.7	Middle	2	1	27.00	7.90	23.70	70.2	4.90	7.1	10.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	8.7	Middle	2	2	27.00	8.00	23.50	70.5	4.90	7.4	11.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	16.3	Bottom	3	1	26.60	7.90	25.10	71.2	5.00	10.2	10.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS4	10:20:00	16.3	Bottom	3	2	26.70	8.00	25.00	72.0	5.00	10.4	10.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00	1.0	Surface	1	1	27.10	7.90	23.90	73.2	5.10	6.3	9.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00	1.0	Surface	1	2	27.10	8.00	23.80	73.1	5.10	6.7	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00	3.4	Bottom	3	1	27.00	7.90	24.10	74.6	5.20	8.7	11.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR6	10:56:00	3.4	Bottom	3	2	27.00	8.00	23.90	74.7	5.20	8.9	11.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	1.0	Surface	1	1	27.60	7.80	20.80	73.9	5.20	6.5	8.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	1.0	Surface	1	2	27.60	7.90	20.70	73.9	5.20	6.7	9.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	3.7	Middle	2	1	27.50	7.80	21.10	74.4	5.20	11.0	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	3.7	Middle	2	2	27.50	7.90	21.10	74.4	5.20	11.2	9.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	6.3	Bottom	3	1	27.30	7.80	22.30	76.4	5.30	16.7	9.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)3(N)	10:37:00	6.3	Bottom	3	2	27.30	7.90	22.20	76.3	5.30	16.3	8.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	1.0	Surface	1	1	27.40	7.90	23.20	75.3	5.20	13.0	15.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	1.0	Surface	1	2	27.50	8.00	23.00	75.5	5.20	13.2	16.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	4.7	Middle	2	1	27.30	7.90	23.30	76.6	5.30	15.4	16.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	4.7	Middle	2	2	27.40	8.00	23.10	76.6	5.30	15.6	16.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	8.4	Bottom	3	1	27.20	7.90	23.60	80.4	5.60	13.7	17.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR5(N)	9:53:00	8.4	Bottom	3	2	27.20	8.00	23.50	80.2	5.60	13.4	17.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	1.0	Surface	1	1	27.20	7.90	23.60	73.1	5.10	10.3	14.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	1.0	Surface	1	2	27.20	8.00	23.30	73.2	5.10	10.3	15.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	6.3	Middle	2	1	27.00	7.90	24.00	71.1	5.00	11.1	15.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	6.3	Middle	2	2	27.00	8.00	23.70	71.3	5.00	11.4	15.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	11.6	Bottom	3	1	26.90	7.90	24.20	73.5	5.10	12.5	18.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS10(N)	9:46:00	11.6	Bottom	3	2	26.90	8.00	24.00	73.2	5.10	12.6	18.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	1.0	Surface	1	1	27.20	7.90	23.40	73.6	5.10	9.8	12.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	1.0	Surface	1	2	27.20	8.00	23.20	73.8	5.20	9.7	12.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	5.7	Middle	2	1	27.10	7.90	23.70	73.6	5.10	10.1	12.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	5.7	Middle	2	2	27.10	8.00	23.60	74.0	5.20	10.0	12.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	10.3	Bottom	3	1	27.10	7.90	23.80	75.4	5.30	10.4	14.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)11	9:41:00	10.3	Bottom	3	2	27.10	8.00	23.60	75.5	5.30	10.4	13.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	1.0	Surface	1	1	26.90	8.10	25.60	68.2	4.70	14.2	6.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	1.0	Surface	1	2	26.90	8.00	25.70	68.4	4.70	14.9	6.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	6.3	Middle	2	1	26.60	8.10	26.50	65.0	4.50	13.5	7.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	6.3	Middle	2	2	26.60	8.00	26.60	65.5	4.50	13.1	7.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	11.6	Bottom	3	1	26.40	8.10	27.40	64.3	4.40	5.7	9.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	CS(Mf)5	9:16:00	11.6	Bottom	3	2	26.40	8.00	27.40	65.2	4.50	5.0	9.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00	1.0	Surface	1	1	27.20	7.90	23.40	71.4	5.00	15.2	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00	1.0	Surface	1	2	27.20	8.00	23.20	71.8	5.00	15.3	8.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00	3.3	Bottom	3	1	27.10	7.90	23.50	71.0	5.00	15.9	10.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR7	9:33:00	3.3	Bottom	3	2	27.10	8.00	23.30	72.3	5.10	16.1	9.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	1.0	Surface	1	1	27.10	8.10	24.80	69.8	4.80	13.7	6.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	1.0	Surface	1	2	27.10	8.00	24.90	70.0	4.90	13.0	5.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	5.2	Middle	2	1	26.80	8.10	25.60	66.8	4.60	7.4	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	5.2	Middle	2	2	26.80	8.00	25.70	67.2	4.70	7.1	8.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	9.4	Bottom	3	1	26.80	8.10	25.80	67.0	4.60	3.7	8.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS17	9:35:00	9.4	Bottom	3	2	26.80	8.00	25.90	67.6	4.70	3.3	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00	1.0	Surface	1	1	27.20	8.10	24.90	71.2	4.90	14.0	5.8	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00	1.0	Surface	1	2	27.10	8.00	24.90	71.5	5.00	14.0	5.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00	4.9	Bottom	3	1	27.00	8.10	25.40	70.1	4.90	12.4	7.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)16	9:42:00	4.9	Bottom	3	2	26.90	8.00	25.50	71.1	4.90	12.9	8.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS8	10:04:00	1.0	Surface	1	1	27.20	8.10	25.00	72.0	5.00	13.7	7.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS8	10:04:00	1.0	Surface	1	2	27.20	8.00	25.00	72.5	5.00	13.5	7.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS8	10:04:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS8	10:04:00		Middle	2	2								

Remarks:

(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

(ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.

(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-14	Mid-Flood	Fine	IS8	10:04:00	2.7	Bottom	3	1	27.20	8.10	25.00	72.2	5.00	13.8	11.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS8	10:04:00	2.7	Bottom	3	2	27.20	8.00	25.00	72.7	5.00	13.5	11.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00	1.0	Surface	1	1	27.10	8.00	25.10	71.3	4.90	13.0	10.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00	1.0	Surface	1	2	27.10	8.00	25.20	71.5	4.90	12.7	10.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00	3.3	Bottom	3	1	27.10	8.00	25.30	71.0	4.90	12.6	10.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR4(N)	9:58:00	3.3	Bottom	3	2	27.00	8.00	25.30	71.7	5.00	12.5	9.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00	1.0	Surface	1	1	27.20	8.00	25.20	72.0	5.00	14.1	7.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00	1.0	Surface	1	2	27.10	8.00	25.20	72.2	5.00	14.5	7.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00	2.4	Bottom	3	1	27.00	8.00	25.50	70.6	4.90	12.8	9.3	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)9	10:12:00	2.4	Bottom	3	2	27.00	8.00	25.50	71.1	4.90	12.4	8.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00	1.5	Middle	2	1	27.40	8.10	25.40	75.6	5.20	12.9	10.0	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00	1.5	Middle	2	2	27.30	8.00	25.40	76.2	5.20	12.1	10.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS7	10:20:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00	1.3	Middle	2	1	27.60	8.00	25.20	75.9	5.20	13.7	9.4	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00	1.3	Middle	2	2	27.50	8.00	25.30	76.3	5.20	13.2	9.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS(Mf)6	10:28:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	1.0	Surface	1	1	27.40	8.00	25.30	74.2	5.10	13.9	8.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	1.0	Surface	1	2	27.40	8.00	25.30	74.5	5.10	13.7	8.7	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	4.6	Middle	2	1	27.20	8.00	25.50	73.2	5.00	12.6	10.2	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	4.6	Middle	2	2	27.20	8.00	25.50	73.6	5.10	12.6	9.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	8.2	Bottom	3	1	27.00	8.10	26.00	72.0	5.00	9.1	10.9	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	IS5	10:34:00	8.2	Bottom	3	2	27.00	8.00	26.00	72.5	5.00	9.0	10.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00	1.0	Surface	1	1	27.20	8.00	25.50	73.1	5.00	12.7	6.1	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00	1.0	Surface	1	2	27.20	8.00	25.50	73.5	5.10	12.2	6.5	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00	2.3	Bottom	3	1	27.20	8.00	25.50	72.9	5.00	12.1	8.6	
HKBCF	HY/2013/01	2018-09-14	Mid-Flood	Fine	SR3(N)	10:42:00	2.3	Bottom	3	2	27.20	8.00	25.60	73.5	5.10	12.3	9.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	1.0	Surface	1	1	27.30	8.10	24.10	91.6	6.40	15.0	8.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	1.0	Surface	1	2	27.30	8.20	24.10	91.0	6.30	15.4	7.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	7.0	Middle	2	1	27.20	8.10	24.70	91.0	6.30	14.9	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	7.0	Middle	2	2	27.20	8.20	24.70	90.5	6.30	15.3	7.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	12.9	Bottom	3	1	26.90	8.20	27.90	88.1	6.00	14.8	8.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10A(N)	7:50:00	12.9	Bottom	3	2	27.00	8.20	27.80	87.4	6.00	15.0	7.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	1.0	Surface	1	1	27.00	8.10	24.30	88.9	6.20	14.8	6.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	1.0	Surface	1	2	27.10	8.20	24.30	88.4	6.10	14.8	7.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	3.3	Middle	2	1	27.00	8.20	26.00	87.1	6.00	13.8	7.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	3.3	Middle	2	2	27.00	8.20	25.90	86.5	6.00	14.0	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	5.6	Bottom	3	1	26.90	8.20	26.50	85.6	5.90	13.2	5.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR10B(N2)	7:59:00	5.6	Bottom	3	2	27.00	8.30	26.60	85.0	5.80	13.6	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	1.0	Surface	1	1	27.50	8.00	19.90	89.9	6.40	8.0	3.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	1.0	Surface	1	2	27.40	7.90	19.80	90.1	6.40	7.6	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	15.9	Middle	2	1	26.90	8.10	27.40	84.1	5.80	9.0	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	15.9	Middle	2	2	26.90	8.00	27.50	84.2	5.80	9.2	3.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	30.8	Bottom	3	1	26.90	8.10	27.60	84.1	5.80	9.2	4.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CSA	8:17:00	30.8	Bottom	3	2	26.90	8.00	27.60	84.2	5.80	8.8	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	1.0	Surface	1	1	27.50	8.00	20.90	91.8	6.50	8.0	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	1.0	Surface	1	2	27.50	8.00	21.10	91.9	6.50	8.2	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	4.6	Middle	2	1	27.40	8.00	22.70	91.3	6.40	8.2	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	4.6	Middle	2	2	27.40	8.00	22.80	91.2	6.40	8.4	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	8.1	Bottom	3	1	27.00	8.00	25.20	91.1	6.30	8.8	3.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS6	8:34:00	8.1	Bottom	3	2	27.00	8.00	25.40	91.0	6.30	8.6	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	1.0	Surface	1	1	27.70	8.00	15.50	87.8	6.30	9.0	5.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	1.0	Surface	1	2	27.70	7.90	16.10	88.0	6.30	9.4	4.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	8.7	Middle	2	1	27.00	8.10	25.50	87.0	6.00	10.6	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	8.7	Middle	2	2	26.90	8.00	25.70	86.5	6.00	9.6	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	16.4	Bottom	3	1	26.80	8.10	26.90	86.0	5.90	14.3	6.1	

Remarks:

(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

(ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.

(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-19	Mid-Ebb	Fine	CS4	9:43:00	16.4	Bottom	3	2	26.70	8.00	27.10	85.9	5.90	14.0	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00	1.0	Surface	1	1	28.00	7.90	10.90	85.3	6.30	9.6	5.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00	1.0	Surface	1	2	27.90	7.90	10.70	85.5	6.30	9.9	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00	3.2	Bottom	3	1	27.50	7.90	17.00	87.8	6.30	9.2	7.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR6	10:13:00	3.2	Bottom	3	2	27.50	7.90	17.20	88.1	6.30	9.9	6.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	1.0	Surface	1	1	27.80	7.90	13.40	85.1	6.20	10.8	6.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	1.0	Surface	1	2	27.80	7.90	13.90	85.3	6.20	10.2	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	3.7	Middle	2	1	27.00	8.00	22.40	84.4	5.90	10.3	6.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	3.7	Middle	2	2	27.00	7.90	22.60	84.4	5.90	10.9	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	6.4	Bottom	3	1	27.00	8.00	23.10	85.3	6.00	10.9	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)3(N)	9:55:00	6.4	Bottom	3	2	27.00	7.90	23.20	85.2	6.00	10.4	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	1.0	Surface	1	1	27.80	8.00	13.70	86.5	6.30	13.0	4.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	1.0	Surface	1	2	27.80	7.90	13.60	86.9	6.30	13.6	4.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	4.7	Middle	2	1	27.10	8.00	22.20	84.6	6.00	19.1	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	4.7	Middle	2	2	27.10	8.00	22.40	84.7	6.00	18.8	3.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	8.3	Bottom	3	1	26.80	8.00	25.50	84.9	5.90	16.0	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR5(N)	9:18:00	8.3	Bottom	3	2	26.80	8.00	25.80	84.8	5.90	15.4	4.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	1.0	Surface	1	1	27.70	7.90	14.70	86.2	6.30	9.8	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	1.0	Surface	1	2	27.70	7.90	15.10	86.3	6.30	9.6	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	6.6	Middle	2	1	27.10	8.00	22.80	84.3	5.90	12.1	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	6.6	Middle	2	2	27.10	8.00	23.00	84.2	5.90	11.7	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	12.1	Bottom	3	1	26.70	8.00	26.10	83.3	5.80	16.0	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS10(N)	9:13:00	12.1	Bottom	3	2	26.70	8.00	26.30	83.3	5.80	15.7	5.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	1.0	Surface	1	1	27.60	8.00	14.40	86.9	6.30	9.1	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	1.0	Surface	1	2	27.60	7.90	14.50	86.9	6.30	9.3	7.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	5.6	Middle	2	1	27.20	8.00	21.20	85.1	6.00	10.0	6.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	5.6	Middle	2	2	27.10	8.00	21.30	85.1	6.00	10.3	7.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	10.2	Bottom	3	1	27.00	8.00	25.70	87.1	6.00	9.7	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)11	9:05:00	10.2	Bottom	3	2	27.00	7.90	25.90	87.0	6.00	9.2	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	1.0	Surface	1	1	27.30	8.10	21.60	87.7	6.20	5.1	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	1.0	Surface	1	2	27.30	8.20	21.60	87.6	6.20	5.7	3.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	6.6	Middle	2	1	26.90	8.20	26.30	84.6	5.80	6.5	6.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	6.6	Middle	2	2	26.90	8.20	26.30	84.5	5.80	6.4	5.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	12.2	Bottom	3	1	26.80	8.20	29.30	83.0	5.60	7.5	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	CS(Mf)5	8:37:00	12.2	Bottom	3	2	26.80	8.30	29.30	82.4	5.60	7.5	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00	1.0	Surface	1	1	27.70	7.90	14.60	88.9	6.50	8.7	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00	1.0	Surface	1	2	27.70	7.90	14.70	89.0	6.50	8.9	5.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00	3.3	Bottom	3	1	27.60	7.90	16.50	89.4	6.40	8.8	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR7	8:59:00	3.3	Bottom	3	2	27.60	7.90	16.50	89.4	6.40	8.6	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	1.0	Surface	1	1	27.20	8.10	20.60	84.9	6.00	8.9	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	1.0	Surface	1	2	27.30	8.20	20.80	84.6	6.00	8.9	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	4.9	Middle	2	1	27.10	8.10	24.40	84.2	5.80	6.4	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	4.9	Middle	2	2	27.10	8.20	24.40	83.9	5.80	6.4	5.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	8.7	Bottom	3	1	27.00	8.10	26.30	83.6	5.80	9.2	5.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS17	9:04:00	8.7	Bottom	3	2	27.00	8.20	26.30	83.4	5.70	9.6	6.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00	1.0	Surface	1	1	27.30	8.10	22.50	89.0	6.20	7.5	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00	1.0	Surface	1	2	27.30	8.20	22.50	88.8	6.20	7.7	5.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00	4.5	Bottom	3	1	27.10	8.10	26.70	83.2	5.70	6.9	5.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)16	9:11:00	4.5	Bottom	3	2	27.20	8.20	26.60	83.4	5.70	8.4	4.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00	1.0	Surface	1	1	27.40	8.10	24.00	89.8	6.20	3.1	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00	1.0	Surface	1	2	27.40	8.20	24.00	89.6	6.20	3.3	3.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00	3.5	Bottom	3	1	27.50	8.10	24.50	89.5	6.20	6.4	3.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS8	9:33:00	3.5	Bottom	3	2	27.50	8.20	24.50	89.4	6.20	6.2	3.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00	1.0	Surface	1	1	27.50	8.10	21.30	86.7	6.10	9.0	3.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00	1.0	Surface	1	2	27.50	8.20	21.30	86.5	6.10	9.3	3.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00	2.8	Bottom	3	1	27.60	8.00	23.80	78.8	5.40	9.8	1.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR4(N)	9:27:00	2.8	Bottom	3	2	27.60	8.10	23.80	78.3	5.40	9.4	2.1	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00	1.4	Middle	2	1	27.50	8.10	24.20	91.8	6.30	6.7	2.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00	1.4	Middle	2	2	27.50	8.20	24.10	91.5	6.30	6.8	3.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)9	9:40:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00	1.2	Middle	2	1	27.40	8.10	23.70	89.2	6.20	3.0	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00	1.2	Middle	2	2	27.40	8.20	23.50	88.9	6.20	2.8	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS7	9:52:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00	1.1	Middle	2	1	27.60	8.10	25.60	85.2	5.80	9.7	3.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00	1.1	Middle	2	2	27.60	8.20	25.60	84.9	5.80	9.5	4.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS(Mf)6	10:03:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	1.0	Surface	1	1	27.40	8.10	23.90	88.1	6.10	10.8	3.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	1.0	Surface	1	2	27.50	8.10	23.90	88.0	6.10	10.4	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	4.5	Middle	2	1	27.50	8.10	24.80	85.3	5.90	14.9	4.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	4.5	Middle	2	2	27.50	8.10	24.70	85.5	5.90	14.5	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	7.9	Bottom	3	1	27.20	8.10	26.30	81.2	5.60	3.5	3.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	IS5	10:08:00	7.9	Bottom	3	2	27.30	8.00	26.30	80.9	5.50	3.6	3.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00	1.0	Surface	1	1	27.60	8.10	23.70	89.7	6.20	9.9	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00	1.0	Surface	1	2	27.60	8.20	23.70	89.5	6.20	9.5	3.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00	2.7	Bottom	3	1	27.60	8.10	24.30	87.4	6.00	9.1	4.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Ebb	Fine	SR3(N)	10:17:00	2.7	Bottom	3	2	27.60	8.20	24.20	87.1	6.00	8.9	3.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	1.0	Surface	1	1	27.60	8.10	25.20	90.1	6.20	9.7	5.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	1.0	Surface	1	2	27.60	8.10	25.10	90.1	6.20	9.7	7.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	6.8	Middle	2	1	27.00	8.10	28.40	83.8	5.70	5.8	6.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	6.8	Middle	2	2	27.10	8.10	28.40	83.5	5.70	5.6	6.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	12.6	Bottom	3	1	26.90	8.10	29.10	83.1	5.60	11.5	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10A(N)	17:33:00	12.6	Bottom	3	2	26.90	8.10	29.10	82.7	5.60	11.4	6.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	1.0	Surface	1	1	27.30	8.10	27.00	86.3	5.90	9.1	8.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	1.0	Surface	1	2	27.30	8.20	26.90	86.2	5.90	9.0	7.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	3.2	Middle	2	1	27.00	8.20	29.60	81.4	5.50	12.2	7.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	3.2	Middle	2	2	27.00	8.10	29.60	81.0	5.50	12.1	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	5.4	Bottom	3	1	26.90	8.20	30.00	81.5	5.50	10.8	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR10B(N2)	17:28:00	5.4	Bottom	3	2	26.90	8.10	30.00	81.1	5.50	10.9	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	1.0	Surface	1	1	28.00	8.00	19.70	90.8	6.40	8.1	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	1.0	Surface	1	2	28.10	8.00	19.50	91.1	6.40	8.1	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	9.2	Middle	2	1	27.10	8.00	26.30	91.3	6.30	9.2	5.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	9.2	Middle	2	2	27.10	8.10	25.90	91.5	6.30	9.0	6.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	17.4	Bottom	3	1	27.60	8.00	23.00	97.4	6.80	8.4	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CSA	17:06:00	17.4	Bottom	3	2	27.60	8.00	22.80	96.9	6.70	8.0	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	1.0	Surface	1	1	28.50	8.00	18.80	95.3	6.70	7.9	5.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	1.0	Surface	1	2	28.60	8.00	18.70	94.7	6.60	7.5	4.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	4.6	Middle	2	1	27.20	8.00	23.70	87.3	6.10	8.7	4.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	4.6	Middle	2	2	27.30	8.00	23.50	87.5	6.10	8.5	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	8.1	Bottom	3	1	26.90	8.00	26.40	87.8	6.00	9.9	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS6	16:57:00	8.1	Bottom	3	2	26.90	8.10	26.30	87.6	6.00	10.3	5.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	1.0	Surface	1	1	28.70	7.90	14.80	90.2	6.40	10.0	7.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	1.0	Surface	1	2	28.70	8.00	14.60	89.7	6.40	9.4	8.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	9.1	Middle	2	1	27.60	8.00	23.60	89.1	6.20	12.1	7.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	9.1	Middle	2	2	27.70	8.10	23.30	89.3	6.20	12.1	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	17.1	Bottom	3	1	27.30	8.00	25.30	88.7	6.10	13.3	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS4	16:00:00	17.1	Bottom	3	2	27.30	8.10	25.00	88.6	6.10	13.1	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00	1.0	Surface	1	1	28.10	7.80	13.60	84.7	6.10	9.4	7.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00	1.0	Surface	1	2	28.10	7.90	13.70	87.1	6.30	9.9	7.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00	3.3	Bottom	3	1	27.40	7.90	20.30	84.2	6.00	10.9	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR6	15:30:00	3.3	Bottom	3	2	27.40	8.00	19.60	86.5	6.10	11.4	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	1.0	Surface	1	1	29.20	7.90	9.80	89.2	6.50	10.9	7.6	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	1.0	Surface	1	2	29.20	7.90	9.50	90.2	6.60	10.8	6.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	3.5	Middle	2	1	28.40	7.80	11.80	86.0	6.30	11.2	6.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	3.5	Middle	2	2	28.50	7.90	11.40	87.5	6.40	11.7	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	6.0	Bottom	3	1	27.40	7.90	21.60	85.1	6.00	10.4	6.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)3(N)	15:47:00	6.0	Bottom	3	2	27.50	7.90	20.70	87.5	6.20	10.7	5.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	1.0	Surface	1	1	28.70	7.90	13.30	91.8	6.60	9.9	3.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	1.0	Surface	1	2	28.70	7.90	13.40	91.7	6.60	9.1	5.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	4.2	Middle	2	1	27.60	8.00	22.20	86.6	6.00	15.3	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	4.2	Middle	2	2	27.60	8.00	22.00	86.4	6.00	15.8	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	7.4	Bottom	3	1	27.00	8.00	25.10	83.0	5.80	24.2	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR5(N)	16:20:00	7.4	Bottom	3	2	27.00	8.00	24.80	83.1	5.80	26.6	5.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	1.0	Surface	1	1	28.60	8.00	13.90	90.4	6.50	11.4	5.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	1.0	Surface	1	2	28.60	8.00	13.80	90.1	6.50	11.6	4.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	6.4	Middle	2	1	27.00	8.00	25.10	82.9	5.70	20.6	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	6.4	Middle	2	2	27.00	8.00	24.80	82.6	5.70	22.8	6.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	11.8	Bottom	3	1	26.90	8.00	25.70	85.5	5.90	19.8	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS10(N)	16:26:00	11.8	Bottom	3	2	27.00	8.00	25.40	85.9	5.90	21.6	5.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	1.0	Surface	1	1	28.60	8.00	14.30	92.5	6.60	10.1	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	1.0	Surface	1	2	28.60	8.00	14.20	91.8	6.60	9.3	6.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	5.9	Middle	2	1	27.50	8.00	22.90	86.5	6.00	14.3	6.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	5.9	Middle	2	2	27.50	8.00	22.40	86.4	6.00	13.3	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	10.8	Bottom	3	1	27.10	8.00	25.30	88.7	6.10	12.7	5.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)11	16:31:00	10.8	Bottom	3	2	27.10	8.00	25.00	88.6	6.10	13.8	5.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	1.0	Surface	1	1	28.50	8.10	19.10	95.8	6.70	10.7	4.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	1.0	Surface	1	2	28.50	8.10	19.00	95.8	6.70	10.7	5.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	6.4	Middle	2	1	26.80	8.10	28.70	82.3	5.60	10.1	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	6.4	Middle	2	2	26.90	8.10	28.60	82.0	5.60	10.1	4.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	11.8	Bottom	3	1	26.80	8.10	29.40	81.2	5.50	11.3	3.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	CS(Mf)5	16:56:00	11.8	Bottom	3	2	26.80	8.10	29.30	80.8	5.50	11.5	2.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00	1.0	Surface	1	1	29.00	8.00	13.50	90.9	6.50	9.9	4.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00	1.0	Surface	1	2	29.00	8.00	13.50	92.8	6.60	10.3	3.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00	3.2	Bottom	3	1	27.60	8.00	24.60	86.7	6.00	12.6	4.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR7	16:37:00	3.2	Bottom	3	2	27.70	8.00	23.70	88.9	6.10	12.2	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	1.0	Surface	1	1	28.10	8.10	20.40	97.5	6.80	12.3	4.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	1.0	Surface	1	2	28.10	8.10	20.20	97.4	6.80	12.4	4.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	3.9	Middle	2	1	27.20	8.10	24.50	85.2	5.90	14.4	6.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	3.9	Middle	2	2	27.20	8.20	24.50	84.9	5.90	14.9	5.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	6.7	Bottom	3	1	27.00	8.10	26.40	84.3	5.80	14.8	3.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS17	16:38:00	6.7	Bottom	3	2	27.00	8.20	26.30	83.8	5.80	14.7	4.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00	1.0	Surface	1	1	28.30	8.10	19.70	96.5	6.70	10.7	5.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00	1.0	Surface	1	2	28.30	8.20	19.70	96.4	6.70	10.7	4.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00	4.6	Bottom	3	1	27.30	8.10	25.60	84.0	5.80	13.9	3.2	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)16	16:31:00	4.6	Bottom	3	2	27.30	8.20	25.50	83.2	5.70	13.7	3.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00	1.0	Surface	1	1	28.40	8.10	18.70	93.1	6.50	14.6	5.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00	1.0	Surface	1	2	28.40	8.20	18.70	92.8	6.50	14.9	6.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00	2.3	Bottom	3	1	28.00	8.10	24.80	82.1	5.60	15.3	6.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS8	16:09:00	2.3	Bottom	3	2	28.00	8.20	24.40	81.3	5.60	15.2	7.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00	1.0	Surface	1	1	28.70	8.10	17.90	96.6	6.80	13.5	4.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00	1.0	Surface	1	2	28.70	8.20	18.00	96.2	6.70	13.8	4.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00	2.6	Bottom	3	1	28.10	8.10	21.60	93.3	6.50	9.8	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR4(N)	16:16:00	2.6	Bottom	3	2	28.20	8.20	21.30	93.0	6.40	9.9	5.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00	1.5	Middle	2	1	27.90	8.10	23.20	94.7	6.50	7.0	7.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00	1.5	Middle	2	2	28.00	8.10	23.10	94.5	6.50	7.0	7.6	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)9	15:58:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS7	15:49:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS7	15:49:00		Surface	1	2								

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-19	Mid-Flood	Fine	IS7	15:49:00	1.3	Middle	2	1	28.20	8.20	24.40	96.1	6.50	11.7	5.3	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS7	15:49:00	1.3	Middle	2	2	28.30	8.10	24.40	95.7	6.50	11.9	6.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS7	15:49:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS7	15:49:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00	1.2	Middle	2	1	28.50	8.20	22.10	99.8	6.90	14.6	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00	1.2	Middle	2	2	28.50	8.10	22.10	99.5	6.80	14.4	5.1	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS(Mf)6	15:40:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	1.0	Surface	1	1	28.40	8.10	23.10	97.4	6.70	14.3	6.4	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	1.0	Surface	1	2	28.40	8.10	23.10	97.3	6.70	14.2	6.5	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	4.2	Middle	2	1	28.00	8.10	24.00	92.4	6.30	11.3	6.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	4.2	Middle	2	2	28.00	8.10	24.00	92.1	6.30	11.2	7.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	7.4	Bottom	3	1	27.70	8.10	25.00	86.8	5.90	7.4	7.7	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	IS5	15:31:00	7.4	Bottom	3	2	27.90	8.10	24.90	86.5	5.90	7.5	7.8	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR3(N)	15:24:00	1.0	Surface	1	1	28.40	8.00	23.30	96.5	6.60	12.7	6.9	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR3(N)	15:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR3(N)	15:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR3(N)	15:24:00	3.2	Bottom	3	1	27.80	8.00	24.50	89.3	6.10	9.3	7.0	
HKBCF	HY/2013/01	2018-09-19	Mid-Flood	Fine	SR3(N)	15:24:00	3.2	Bottom	3	2	27.80	8.00	24.50	88.9	6.10	9.6	8.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	1.0	Surface	1	1	28.50	8.30	15.20	96.2	6.90	15.6	2.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	1.0	Surface	1	2	28.50	8.30	15.20	96.3	6.90	15.6	2.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	6.8	Middle	2	1	28.20	8.30	19.80	89.9	6.30	15.5	3.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	6.8	Middle	2	2	28.20	8.30	19.80	90.0	6.30	15.5	4.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	12.5	Bottom	3	1	27.40	8.40	28.40	82.0	5.50	15.2	4.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10A(N)	9:49:00	12.5	Bottom	3	2	27.40	8.40	26.50	81.9	5.50	15.3	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	1.0	Surface	1	1	28.10	8.30	20.70	88.1	6.10	14.9	6.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	1.0	Surface	1	2	28.10	8.30	20.70	88.6	6.20	15.0	6.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	3.5	Middle	2	1	27.80	8.40	23.80	85.5	5.90	14.4	7.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	3.5	Middle	2	2	27.80	8.40	23.70	85.6	5.90	14.5	6.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	6.0	Bottom	3	1	27.40	8.40	28.60	80.7	5.40	13.8	7.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR10B(N2)	9:55:00	6.0	Bottom	3	2	27.40	8.40	28.70	80.5	5.40	13.8	7.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	1.0	Surface	1	1	28.60	8.10	14.40	90.0	6.40	7.8	4.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	1.0	Surface	1	2	28.60	8.00	14.50	90.2	6.50	7.3	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	16.9	Middle	2	1	28.00	8.10	20.20	83.2	5.80	7.7	4.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	16.9	Middle	2	2	28.00	8.00	20.30	83.4	5.80	7.3	4.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	32.7	Bottom	3	1	27.40	8.10	27.00	82.0	5.60	8.3	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CSA	9:41:00	32.7	Bottom	3	2	27.40	8.10	27.20	81.9	5.60	8.2	6.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	1.0	Surface	1	1	28.70	8.10	13.70	89.4	6.40	8.4	3.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	1.0	Surface	1	2	28.70	8.00	13.80	90.0	6.50	8.1	3.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	5.2	Middle	2	1	28.00	8.10	19.60	84.2	5.90	7.6	4.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	5.2	Middle	2	2	28.00	8.00	19.60	84.9	6.00	7.1	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	9.3	Bottom	3	1	27.50	8.10	24.90	81.2	5.60	8.3	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS6	9:54:00	9.3	Bottom	3	2	27.50	8.00	25.20	82.1	5.60	8.9	4.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	1.0	Surface	1	1	28.50	8.00	12.30	87.1	6.30	9.6	4.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	1.0	Surface	1	2	28.40	8.00	12.20	87.5	6.40	8.9	5.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	8.3	Middle	2	1	27.80	8.00	21.40	80.8	5.60	8.1	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	8.3	Middle	2	2	27.80	8.00	21.20	80.9	5.70	8.0	6.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	15.5	Bottom	3	1	27.40	8.10	25.40	79.0	5.40	9.3	6.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS4	11:04:00	15.5	Bottom	3	2	27.40	8.00	25.60	79.1	5.40	9.0	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00	1.0	Surface	1	1	28.90	8.10	7.70	92.7	6.90	10.6	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00	1.0	Surface	1	2	28.80	8.00	7.60	93.0	6.90	10.9	4.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00	3.5	Bottom	3	1	27.60	8.00	21.00	76.6	5.40	9.6	5.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR6	11:36:00	3.5	Bottom	3	2	27.60	7.90	21.00	78.0	5.50	9.4	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	1.0	Surface	1	1	28.90	8.10	9.30	94.2	6.90	9.6	4.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	1.0	Surface	1	2	28.90	8.00	9.20	95.1	7.00	9.7	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	3.6	Middle	2	1	28.40	8.00	15.80	84.8	6.00	8.0	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	3.6	Middle	2	2	28.40	8.00	15.60	85.4	6.10	7.9	3.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	6.1	Bottom	3	1	27.70	8.00	21.90	80.1	5.60	8.4	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)3(N)	11:16:00	6.1	Bottom	3	2	27.70	8.00	22.10	80.0	5.60	8.6	3.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	1.0	Surface	1	1	28.70	8.10	12.10	89.5	6.50	9.2	4.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	1.0	Surface	1	2	28.70	8.00	11.90	89.8	6.50	9.3	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	4.7	Middle	2	1	28.00	8.10	19.30	79.5	5.60	10.2	4.4	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	4.7	Middle	2	2	27.90	8.00	19.60	79.3	5.60	10.7	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	8.4	Bottom	3	1	27.40	8.10	24.20	76.6	5.30	12.8	4.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR5(N)	10:40:00	8.4	Bottom	3	2	27.40	8.00	24.40	76.5	5.30	12.7	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	1.0	Surface	1	1	28.70	8.20	12.40	87.6	6.30	8.6	3.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	1.0	Surface	1	2	28.70	8.10	12.40	87.8	6.30	8.4	3.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	6.2	Middle	2	1	27.90	8.10	19.60	80.2	5.60	8.7	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	6.2	Middle	2	2	27.90	8.00	19.80	80.2	5.60	8.5	4.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	11.4	Bottom	3	1	27.30	8.10	24.90	78.0	5.40	8.9	4.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS10(N)	10:33:00	11.4	Bottom	3	2	27.30	8.00	25.10	77.9	5.40	8.5	4.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	1.0	Surface	1	1	28.60	8.20	12.10	87.2	6.30	9.0	2.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	1.0	Surface	1	2	28.60	8.10	12.10	87.5	6.30	9.1	3.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	5.6	Middle	2	1	28.00	8.10	19.70	79.6	5.60	9.1	4.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	5.6	Middle	2	2	28.00	8.10	19.90	80.0	5.60	9.0	5.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	10.2	Bottom	3	1	27.30	8.10	25.20	76.8	5.30	10.2	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)11	10:27:00	10.2	Bottom	3	2	27.30	8.00	25.40	76.6	5.30	9.9	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	1.0	Surface	1	1	28.80	8.30	14.50	91.4	6.50	14.9	3.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	1.0	Surface	1	2	28.80	8.30	14.50	91.5	6.50	14.9	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	6.8	Middle	2	1	27.60	8.30	23.30	79.0	5.50	15.9	4.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	6.8	Middle	2	2	27.70	8.30	23.30	79.4	5.50	15.9	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	12.5	Bottom	3	1	27.20	8.30	30.20	77.4	5.20	14.3	4.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	CS(Mf)5	10:32:00	12.5	Bottom	3	2	27.20	8.30	30.30	77.3	5.20	14.3	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00	1.0	Surface	1	1	28.70	8.10	12.10	91.1	6.60	8.2	5.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00	1.0	Surface	1	2	28.60	8.00	11.60	91.5	6.60	8.0	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00	3.3	Bottom	3	1	28.60	8.00	13.60	90.7	6.50	8.0	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR7	10:20:00	3.3	Bottom	3	2	28.60	8.00	13.60	90.9	6.50	8.1	5.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	1.0	Surface	1	1	28.60	8.30	16.20	96.0	6.80	15.4	5.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	1.0	Surface	1	2	28.60	8.30	16.10	96.3	6.80	15.4	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	4.8	Middle	2	1	27.90	8.30	21.10	84.9	5.90	13.3	7.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	4.8	Middle	2	2	28.10	8.30	21.10	85.1	5.90	14.1	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	8.5	Bottom	3	1	27.20	8.30	27.40	75.1	5.10	9.2	7.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS17	10:57:00	8.5	Bottom	3	2	27.20	8.30	27.50	74.9	5.10	9.1	7.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00	1.0	Surface	1	1	28.90	8.40	16.50	101.6	7.10	15.3	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00	1.0	Surface	1	2	29.00	8.40	16.50	101.8	7.20	15.5	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00	4.6	Bottom	3	1	28.00	8.20	24.20	77.0	5.30	12.8	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)16	11:01:00	4.6	Bottom	3	2	27.90	8.20	24.10	77.1	5.30	12.9	6.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00	1.0	Surface	1	1	29.20	8.30	17.20	101.3	7.10	15.5	7.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00	1.0	Surface	1	2	29.20	8.30	17.20	101.9	7.10	15.5	7.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00	2.8	Bottom	3	1	28.90	8.30	17.70	99.2	6.90	13.6	10.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS8	11:21:00	2.8	Bottom	3	2	28.90	8.30	17.70	99.6	7.00	13.8	10.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00	1.0	Surface	1	1	29.10	8.30	17.60	96.0	6.70	12.7	8.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00	1.0	Surface	1	2	29.20	8.30	17.50	96.3	6.70	12.6	8.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00	2.1	Bottom	3	1	29.10	8.30	18.10	92.5	6.40	13.5	10.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR4(N)	11:16:00	2.1	Bottom	3	2	29.00	8.30	18.10	92.9	6.50	13.5	10.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00	1.5	Middle	2	1	29.00	8.30	16.60	92.7	6.50	15.5	3.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00	1.5	Middle	2	2	29.00	8.30	16.60	93.2	6.50	15.5	3.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)9	11:29:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00	1.3	Middle	2	1	29.00	8.30	17.00	95.1	6.70	15.4	2.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00	1.3	Middle	2	2	29.00	8.30	17.00	95.1	6.70	15.4	2.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS7	11:38:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00	1.2	Middle	2	1	29.40	8.30	16.70	98.2	6.80	15.2	3.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00	1.2	Middle	2	2	29.30	8.30	16.70	98.4	6.90	15.2	4.0	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS(Mf)6	11:47:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	1.0	Surface	1	1	29.00	8.30	16.30	93.1	6.50	14.2	4.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	1.0	Surface	1	2	29.00	8.30	16.30	93.3	6.60	14.7	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	4.4	Middle	2	1	27.20	8.30	27.30	72.1	4.90	8.9	4.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	4.4	Middle	2	2	27.30	8.30	27.30	72.1	4.90	9.1	4.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	7.8	Bottom	3	1	27.20	8.30	27.50	73.0	5.00	8.3	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	IS5	11:55:00	7.8	Bottom	3	2	27.20	8.30	27.60	72.8	5.00	8.1	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00	1.0	Surface	1	1	28.60	8.30	15.70	95.4	6.80	11.1	5.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00	1.0	Surface	1	2	28.70	8.30	15.70	96.0	6.80	11.8	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00	2.7	Bottom	3	1	28.10	8.30	23.20	83.0	5.70	8.4	5.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Ebb	Sunny	SR3(N)	12:01:00	2.7	Bottom	3	2	28.10	8.30	23.10	82.9	5.70	8.3	5.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	1.0	Surface	1	1	27.90	8.30	24.80	84.8	5.80	14.4	4.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	1.0	Surface	1	2	27.90	8.30	24.80	84.9	5.80	14.6	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	6.0	Middle	2	1	27.40	8.30	27.50	77.4	5.30	11.5	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	6.0	Middle	2	2	27.40	8.30	27.40	77.5	5.30	11.6	6.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	11.0	Bottom	3	1	27.30	8.30	29.40	78.1	5.30	9.5	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10A(N)	18:23:00	11.0	Bottom	3	2	27.30	8.30	29.40	77.7	5.20	9.6	7.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	1.0	Surface	1	1	27.70	8.40	27.60	83.4	5.60	12.0	6.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	1.0	Surface	1	2	27.70	8.40	27.60	83.5	5.60	12.0	6.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	3.5	Middle	2	1	27.50	8.40	27.70	82.6	5.60	8.8	6.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	3.5	Middle	2	2	27.50	8.40	27.80	82.8	5.60	8.9	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	6.0	Bottom	3	1	27.40	8.40	29.70	78.7	5.30	5.6	7.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR10B(N2)	18:17:00	6.0	Bottom	3	2	27.40	8.40	29.70	78.7	5.30	5.7	7.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	1.0	Surface	1	1	28.80	8.20	16.30	94.6	6.70	8.3	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	1.0	Surface	1	2	28.80	8.10	16.50	94.7	6.70	7.8	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	16.6	Middle	2	1	27.70	8.20	24.50	82.1	5.60	10.2	6.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	16.6	Middle	2	2	27.70	8.10	24.70	82.0	5.60	10.3	5.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	32.2	Bottom	3	1	27.40	8.20	27.10	80.5	5.50	12.9	6.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CSA	18:09:00	32.2	Bottom	3	2	27.40	8.10	27.30	80.5	5.50	12.6	6.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	1.0	Surface	1	1	28.30	8.10	18.60	85.3	6.00	7.9	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	1.0	Surface	1	2	28.30	8.00	18.40	85.3	6.00	7.6	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	4.4	Middle	2	1	27.70	8.10	23.00	81.0	5.60	9.1	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	4.4	Middle	2	2	27.70	8.00	23.00	81.0	5.60	9.7	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	7.8	Bottom	3	1	27.50	8.10	26.20	80.0	5.50	13.2	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS6	17:58:00	7.8	Bottom	3	2	27.40	8.00	26.20	79.9	5.50	13.7	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	1.0	Surface	1	1	29.20	8.10	12.10	96.1	6.90	5.7	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	1.0	Surface	1	2	29.20	8.00	12.10	96.4	6.90	5.0	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	8.1	Middle	2	1	28.80	8.10	17.90	92.7	6.50	8.4	5.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	8.1	Middle	2	2	28.70	8.00	17.90	92.9	6.50	8.5	5.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	15.2	Bottom	3	1	28.50	8.10	18.90	89.6	6.30	8.3	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS4	16:53:00	15.2	Bottom	3	2	28.50	8.00	18.90	90.0	6.30	8.5	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00	1.0	Surface	1	1	28.70	8.00	13.20	86.8	6.20	5.8	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00	1.0	Surface	1	2	28.70	7.90	13.20	87.1	6.30	5.3	6.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00	3.4	Bottom	3	1	28.20	8.00	16.50	81.8	5.80	9.9	7.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR6	16:22:00	3.4	Bottom	3	2	28.20	7.90	16.50	81.7	5.80	9.2	7.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	1.0	Surface	1	1	29.80	8.10	7.70	97.9	7.10	6.2	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	1.0	Surface	1	2	29.70	8.00	7.60	98.6	7.20	6.5	3.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	3.5	Middle	2	1	29.20	8.10	10.90	89.3	6.50	8.8	5.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	3.5	Middle	2	2	29.20	8.00	10.80	89.7	6.50	8.1	5.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	6.0	Bottom	3	1	28.00	8.00	18.30	83.4	5.90	11.6	5.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)3(N)	16:36:00	6.0	Bottom	3	2	28.00	7.90	18.20	83.5	5.90	11.9	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	1.0	Surface	1	1	29.40	8.20	12.90	104.6	7.40	5.6	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	1.0	Surface	1	2	29.40	8.10	12.80	105.5	7.50	5.7	5.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	4.7	Middle	2	1	29.20	8.20	15.20	95.0	6.70	10.3	6.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	4.7	Middle	2	2	29.20	8.10	15.30	96.0	6.80	10.4	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	8.3	Bottom	3	1	27.90	8.10	21.80	75.7	5.30	16.7	7.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR5(N)	17:16:00	8.3	Bottom	3	2	27.90	8.00	21.90	77.3	5.40	16.4	6.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	1.0	Surface	1	1	29.50	8.30	12.20	105.0	7.50	9.6	3.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	1.0	Surface	1	2	29.50	8.20	12.20	106.0	7.60	9.7	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	6.2	Middle	2	1	28.20	8.10	21.00	90.0	6.30	11.7	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	6.2	Middle	2	2	28.20	8.00	21.20	90.3	6.30	11.2	4.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	11.3	Bottom	3	1	27.50	8.10	24.00	79.4	5.50	13.7	4.8	

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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	2018-09-21	Mid-Flood	Sunny	IS10(N)	17:24:00	11.3	Bottom	3	2	27.50	8.00	24.10	79.3	5.50	13.9	5.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	1.0	Surface	1	1	29.60	8.30	10.80	106.5	7.60	5.1	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	1.0	Surface	1	2	29.60	8.20	10.90	107.1	7.70	5.4	4.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	5.6	Middle	2	1	29.20	8.20	15.00	93.1	6.60	8.4	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	5.6	Middle	2	2	29.20	8.10	14.80	93.5	6.60	8.2	6.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	10.1	Bottom	3	1	27.60	8.10	23.20	77.9	5.40	15.3	6.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)11	17:30:00	10.1	Bottom	3	2	27.60	8.00	23.40	77.6	5.40	15.4	7.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	1.0	Surface	1	1	29.40	8.50	15.60	110.4	7.70	15.5	2.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	1.0	Surface	1	2	29.40	8.50	15.60	111.0	7.80	15.6	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	6.0	Middle	2	1	27.30	8.30	28.90	76.4	5.20	9.4	3.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	6.0	Middle	2	2	27.30	8.30	28.80	76.3	5.20	9.5	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	11.0	Bottom	3	1	27.30	8.30	29.70	77.2	5.20	9.0	3.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	CS(Mf)5	17:45:00	11.0	Bottom	3	2	27.30	8.30	29.70	77.1	5.20	9.1	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00	1.0	Surface	1	1	29.50	8.20	11.80	100.9	7.20	8.5	5.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00	1.0	Surface	1	2	29.50	8.10	12.10	101.3	7.20	8.8	5.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00	3.1	Bottom	3	1	28.60	8.10	17.90	92.3	6.50	10.5	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR7	17:37:00	3.1	Bottom	3	2	28.50	8.00	18.20	92.5	6.50	10.9	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	1.0	Surface	1	1	29.00	8.40	15.10	104.9	7.40	15.1	3.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	1.0	Surface	1	2	29.10	8.40	15.10	105.2	7.40	15.2	2.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	4.9	Middle	2	1	28.10	8.30	19.00	88.8	6.20	14.6	3.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	4.9	Middle	2	2	28.20	8.30	19.00	88.9	6.20	14.7	2.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	8.8	Bottom	3	1	27.80	8.20	24.90	80.7	5.50	13.3	4.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS17	17:28:00	8.8	Bottom	3	2	27.70	8.20	24.90	80.4	5.50	13.4	3.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00	1.0	Surface	1	1	29.70	8.50	15.60	127.0	8.90	15.0	3.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00	1.0	Surface	1	2	29.70	8.50	15.50	127.3	8.90	15.2	3.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00	4.5	Bottom	3	1	28.90	8.30	18.20	98.4	6.90	12.0	4.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)16	17:19:00	4.5	Bottom	3	2	28.80	8.30	18.20	98.3	6.90	12.0	4.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00	1.0	Surface	1	1	29.40	8.40	15.00	110.1	7.70	12.0	4.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00	1.0	Surface	1	2	29.40	8.50	15.00	110.5	7.80	12.0	4.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00	2.2	Bottom	3	1	29.40	8.40	15.40	107.0	7.50	10.6	4.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS8	17:00:00	2.2	Bottom	3	2	29.40	8.40	15.30	107.8	7.60	10.7	5.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00	1.0	Surface	1	1	29.80	8.50	14.90	113.8	8.00	12.7	3.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00	1.0	Surface	1	2	29.70	8.50	14.80	114.0	8.00	12.9	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00	2.2	Bottom	3	1	29.80	8.50	15.00	112.4	7.90	7.8	4.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR4(N)	17:05:00	2.2	Bottom	3	2	29.80	8.50	15.00	112.7	7.90	7.9	5.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00	1.4	Middle	2	1	29.60	8.50	15.90	116.7	8.10	11.8	5.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00	1.4	Middle	2	2	29.60	8.50	15.90	115.1	8.00	11.9	5.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)9	16:53:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS7	16:45:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS7	16:45:00	1.2	Middle	2	1	30.10	8.50	16.30	120.4	8.30	15.2	2.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS7	16:45:00	1.2	Middle	2	2	30.10	8.50	16.30	120.0	8.30	15.3	2.5	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS7	16:45:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS7	16:45:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00	1.1	Middle	2	1	29.80	8.50	16.70	116.5	8.10	15.2	3.3	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00	1.1	Middle	2	2	29.80	8.50	16.70	116.2	8.00	15.3	2.9	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS(Mf)6	16:34:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	1.0	Surface	1	1	29.80	8.50	16.80	117.0	8.10	14.6	3.6	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	1.0	Surface	1	2	29.80	8.50	16.80	116.8	8.10	14.7	4.1	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	4.2	Middle	2	1	29.10	8.40	19.40	103.6	7.20	7.4	5.7	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	4.2	Middle	2	2	29.00	8.40	19.40	103.4	7.20	7.5	5.8	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	7.3	Bottom	3	1	28.30	8.40	23.20	85.5	5.90	10.7	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	IS5	16:27:00	7.3	Bottom	3	2	28.30	8.40	23.20	85.4	5.90	10.7	6.0	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00	1.0	Surface	1	1	29.70	8.60	17.60	117.8	8.10	9.6	6.2	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00	1.0	Surface	1	2	29.70	8.60	17.60	117.5	8.10	9.7	6.4	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00	2.2	Bottom	3	1	29.60	8.60	17.90	116.2	8.00	7.7	6.0	
HKBCF	HY/2013/01	2018-09-21	Mid-Flood	Sunny	SR3(N)	16:22:00	2.2	Bottom	3	2	29.60	8.60	17.90	116.1	8.00	7.9	5.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	1.0	Surface	1	1	28.50	8.20	22.10	93.5	6.40	2.8	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	1.0	Surface	1	2	28.40	8.20	22.00	93.5	6.40	2.7	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	6.0	Middle	2	1	28.40	8.20	22.70	91.1	6.30	3.5	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	6.0	Middle	2	2	28.30	8.20	22.60	91.3	6.30	3.6	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	11.0	Bottom	3	1	28.30	8.20	22.70	90.6	6.20	3.5	3.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10A(N)	13:00:00	11.0	Bottom	3	2	28.30	8.20	22.70	90.8	6.20	3.6	3.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	1.0	Surface	1	1	28.30	8.20	22.50	92.4	6.40	3.8	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	1.0	Surface	1	2	28.30	8.20	22.50	92.6	6.40	3.8	3.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	3.6	Middle	2	1	28.30	8.20	22.60	92.3	6.30	4.1	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	3.6	Middle	2	2	28.30	8.20	22.50	92.4	6.40	3.9	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	6.2	Bottom	3	1	28.30	8.20	22.60	91.9	6.30	4.1	5.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR10B(N2)	12:53:00	6.2	Bottom	3	2	28.30	8.20	22.50	92.0	6.30	4.0	6.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	1.0	Surface	1	1	28.60	8.20	19.20	83.4	5.80	3.5	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	1.0	Surface	1	2	28.60	8.10	19.40	83.3	5.80	3.5	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	16.7	Middle	2	1	28.00	8.10	23.70	77.9	5.30	3.9	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	16.7	Middle	2	2	28.00	8.10	24.00	78.1	5.40	4.5	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	32.3	Bottom	3	1	27.80	8.10	25.70	75.9	5.20	4.2	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CSA	12:20:00	32.3	Bottom	3	2	27.80	8.10	26.00	76.5	5.20	4.6	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	1.0	Surface	1	1	28.70	8.10	18.90	87.6	6.10	2.5	2.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	1.0	Surface	1	2	28.70	8.10	19.20	87.4	6.10	2.3	2.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	4.8	Middle	2	1	28.30	8.10	22.50	82.3	5.70	3.7	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	4.8	Middle	2	2	28.30	8.10	22.70	82.4	5.70	3.6	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	8.6	Bottom	3	1	28.10	8.10	23.90	78.9	5.40	4.2	5.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS6	12:12:00	8.6	Bottom	3	2	28.10	8.10	24.10	79.0	5.40	4.3	5.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	1.0	Surface	1	1	28.70	8.00	18.40	80.1	5.60	4.2	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	1.0	Surface	1	2	28.70	8.00	18.50	80.5	5.60	4.1	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	8.2	Middle	2	1	28.30	8.10	22.20	75.8	5.20	6.5	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	8.2	Middle	2	2	28.30	8.10	22.40	75.9	5.20	6.8	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	15.3	Bottom	3	1	28.10	8.10	24.50	72.5	5.00	7.5	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS4	11:21:00	15.3	Bottom	3	2	28.10	8.00	24.80	72.0	4.90	7.9	5.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00	1.0	Surface	1	1	28.40	8.10	16.20	84.1	6.00	4.2	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00	1.0	Surface	1	2	28.40	8.10	16.30	84.1	6.00	4.4	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00	3.3	Bottom	3	1	28.10	8.10	22.80	76.6	5.30	9.2	6.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR6	10:54:00	3.3	Bottom	3	2	28.10	8.00	22.90	76.7	5.30	9.6	6.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	1.0	Surface	1	1	28.50	8.00	16.50	75.4	5.30	3.2	2.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	1.0	Surface	1	2	28.50	8.00	16.80	75.1	5.30	3.1	2.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	3.5	Middle	2	1	28.60	8.00	17.90	73.7	5.20	3.9	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	3.5	Middle	2	2	28.60	8.00	18.00	73.2	5.10	3.7	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	6.0	Bottom	3	1	28.50	8.00	19.80	71.3	5.00	5.6	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)3(N)	11:07:00	6.0	Bottom	3	2	28.50	7.90	19.90	70.9	4.90	5.2	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	1.0	Surface	1	1	28.60	8.00	16.50	81.3	5.80	4.3	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	1.0	Surface	1	2	28.60	8.00	16.70	81.1	5.70	4.1	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	4.6	Middle	2	1	28.50	8.00	19.10	78.6	5.50	9.4	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	4.6	Middle	2	2	28.50	8.00	19.40	78.8	5.50	9.5	4.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	8.2	Bottom	3	1	28.40	8.10	21.20	75.0	5.20	13.9	5.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR5(N)	11:37:00	8.2	Bottom	3	2	28.40	8.10	21.40	75.3	5.20	13.5	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	1.0	Surface	1	1	28.50	8.00	17.30	82.0	5.80	5.1	4.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	1.0	Surface	1	2	28.50	8.00	17.50	82.1	5.80	5.4	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	6.2	Middle	2	1	28.40	8.10	19.40	78.0	5.40	11.9	4.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	6.2	Middle	2	2	28.40	8.10	19.60	78.2	5.50	11.9	5.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	11.3	Bottom	3	1	28.10	8.10	23.70	70.7	4.80	14.1	6.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS10(N)	11:43:00	11.3	Bottom	3	2	28.10	8.10	23.90	71.2	4.90	14.9	6.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	1.0	Surface	1	1	28.50	8.10	18.10	83.2	5.80	7.5	3.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	1.0	Surface	1	2	28.50	8.10	18.30	83.1	5.80	7.1	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	5.6	Middle	2	1	28.40	8.20	19.90	81.4	5.70	10.0	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	5.6	Middle	2	2	28.40	8.10	20.10	81.1	5.60	10.4	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	10.2	Bottom	3	1	28.20	8.10	23.10	73.6	5.10	14.9	5.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)11	11:47:00	10.2	Bottom	3	2	28.20	8.10	23.30	73.4	5.00	14.9	5.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	1.0	Surface	1	1	28.50	8.20	21.10	85.4	5.90	6.9	5.1	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	1.0	Surface	1	2	28.40	8.10	21.00	85.4	5.90	6.8	5.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	5.6	Middle	2	1	28.20	8.20	23.50	82.1	5.60	8.1	6.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	5.6	Middle	2	2	28.20	8.10	23.40	82.0	5.60	8.7	6.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	10.1	Bottom	3	1	27.90	8.20	26.30	76.6	5.20	16.1	6.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	CS(Mf)5	12:23:00	10.1	Bottom	3	2	27.90	8.10	26.20	76.7	5.20	16.2	7.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00	1.0	Surface	1	1	28.50	8.10	17.80	81.4	5.70	4.3	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00	1.0	Surface	1	2	28.50	8.00	17.90	81.5	5.70	4.2	4.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00	3.1	Bottom	3	1	28.50	8.10	19.30	77.7	5.40	5.9	6.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR7	11:54:00	3.1	Bottom	3	2	28.50	8.00	19.50	77.7	5.40	6.0	5.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	1.0	Surface	1	1	28.50	8.20	20.80	86.2	6.00	5.6	6.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	1.0	Surface	1	2	28.40	8.10	20.80	86.1	6.00	5.2	7.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	5.5	Middle	2	1	28.20	8.20	23.80	80.1	5.50	9.6	6.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	5.5	Middle	2	2	28.20	8.10	23.70	80.3	5.50	9.5	6.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	9.9	Bottom	3	1	28.00	8.20	26.10	79.9	5.40	8.1	9.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS17	12:07:00	9.9	Bottom	3	2	28.00	8.10	26.00	80.0	5.40	8.4	9.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00	1.0	Surface	1	1	28.40	8.20	23.00	84.3	5.80	6.0	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00	1.0	Surface	1	2	28.40	8.10	22.90	84.4	5.80	5.4	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00	4.8	Bottom	3	1	28.10	8.20	24.90	82.0	5.60	4.6	5.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)16	11:59:00	4.8	Bottom	3	2	28.10	8.10	24.80	82.1	5.60	4.6	5.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00	1.0	Surface	1	1	28.60	8.20	20.40	95.4	6.60	6.0	5.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00	1.0	Surface	1	2	28.60	8.20	20.30	95.2	6.60	6.1	4.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00	3.7	Bottom	3	1	28.50	8.20	21.80	88.8	6.10	15.2	5.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS8	11:35:00	3.7	Bottom	3	2	28.50	8.10	21.70	88.7	6.10	15.2	6.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00	1.0	Surface	1	1	28.60	8.10	20.50	83.7	5.80	7.7	8.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00	1.0	Surface	1	2	28.60	8.10	20.40	83.8	5.80	7.3	8.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00	4.0	Bottom	3	1	28.50	8.10	21.80	76.5	5.30	17.3	9.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR4(N)	11:42:00	4.0	Bottom	3	2	28.50	8.10	21.80	76.5	5.30	17.8	9.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00	1.0	Surface	1	1	28.70	8.20	20.70	92.1	6.40	3.9	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00	1.0	Surface	1	2	28.70	8.10	20.60	92.0	6.40	3.9	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00	3.6	Bottom	3	1	28.60	8.20	21.50	83.0	5.70	8.9	4.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)9	11:27:00	3.6	Bottom	3	2	28.60	8.10	21.40	83.2	5.70	8.8	5.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00	1.0	Surface	1	1	28.50	8.20	20.00	93.9	6.50	2.5	2.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00	1.0	Surface	1	2	28.50	8.20	20.00	93.9	6.50	2.6	2.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00	2.8	Bottom	3	1	28.30	8.20	23.50	80.0	5.50	13.1	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS7	11:16:00	2.8	Bottom	3	2	28.30	8.10	23.50	80.5	5.50	14.8	5.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00	1.0	Surface	1	1	28.50	8.20	20.80	87.9	6.10	6.3	5.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00	1.0	Surface	1	2	28.50	8.10	20.70	88.0	6.10	6.5	5.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00	2.4	Bottom	3	1	28.50	8.20	21.00	87.0	6.00	7.1	6.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS(Mf)6	11:09:00	2.4	Bottom	3	2	28.40	8.10	20.90	87.1	6.00	7.1	6.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	1.0	Surface	1	1	28.50	8.20	20.90	87.5	6.00	7.0	6.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	1.0	Surface	1	2	28.50	8.20	20.80	87.5	6.10	7.0	6.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	4.9	Middle	2	1	28.50	8.20	21.40	85.4	5.90	9.5	6.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	4.9	Middle	2	2	28.50	8.20	21.40	85.3	5.90	9.7	7.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	8.8	Bottom	3	1	28.40	8.20	22.50	82.3	5.70	23.2	9.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	IS5	11:02:00	8.8	Bottom	3	2	28.40	8.10	22.40	82.4	5.70	22.3	9.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00	1.0	Surface	1	1	28.50	8.20	20.30	92.1	6.40	5.5	3.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00	1.0	Surface	1	2	28.50	8.20	20.20	92.3	6.40	5.3	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00	4.5	Bottom	3	1	28.50	8.20	20.80	92.4	6.40	6.3	4.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Ebb	Cloudy	SR3(N)	10:54:00	4.5	Bottom	3	2	28.50	8.20	20.50	92.9	6.40	6.2	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	1.0	Surface	1	1	28.50	7.90	21.00	88.2	6.10	2.0	2.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	1.0	Surface	1	2	28.50	7.90	20.90	88.0	6.10	2.4	2.0	

Remarks:

(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

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(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	6.3	Middle	2	1	28.40	7.90	23.30	87.3	6.00	3.5	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	6.3	Middle	2	2	28.40	7.90	23.20	87.1	6.00	3.0	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	11.6	Bottom	3	1	27.80	7.90	27.60	79.9	5.40	4.3	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10A(N)	5:04:00	11.6	Bottom	3	2	27.80	7.90	27.60	80.0	5.40	4.6	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	1.0	Surface	1	1	27.80	7.90	26.90	79.1	5.40	4.5	2.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	1.0	Surface	1	2	27.80	7.90	26.90	79.0	5.30	5.0	2.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	3.4	Middle	2	1	27.50	7.90	29.60	75.3	5.00	9.2	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	3.4	Middle	2	2	27.50	7.90	29.60	75.3	5.10	9.7	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	5.7	Bottom	3	1	27.40	7.90	30.00	75.6	5.10	10.1	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR10B(N2)	5:10:00	5.7	Bottom	3	2	27.40	7.90	30.00	75.8	5.10	10.2	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	1.0	Surface	1	1	28.60	8.10	19.30	84.5	5.90	2.4	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	1.0	Surface	1	2	28.60	8.00	19.20	83.9	5.80	2.9	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	16.8	Middle	2	1	28.50	8.10	20.90	80.1	5.50	3.6	3.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	16.8	Middle	2	2	28.50	8.00	20.70	79.7	5.50	3.6	3.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	32.6	Bottom	3	1	28.00	8.10	25.40	74.4	5.10	3.8	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CSA	5:27:00	32.6	Bottom	3	2	28.00	8.00	25.10	74.5	5.10	3.8	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	1.0	Surface	1	1	28.60	8.10	16.50	85.2	6.00	7.4	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	1.0	Surface	1	2	28.60	8.00	16.40	85.1	6.00	7.8	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	4.6	Middle	2	1	28.70	8.10	20.40	83.5	5.80	4.9	3.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	4.6	Middle	2	2	28.70	8.00	20.20	83.4	5.80	4.9	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	8.2	Bottom	3	1	28.30	8.00	23.00	75.0	5.10	15.1	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS6	5:39:00	8.2	Bottom	3	2	28.30	8.00	22.70	75.2	5.20	15.8	4.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	1.0	Surface	1	1	28.70	8.00	16.20	78.2	5.50	2.8	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	1.0	Surface	1	2	28.70	8.00	16.20	77.9	5.50	3.2	3.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	8.2	Middle	2	1	28.40	8.10	21.30	77.7	5.40	4.9	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	8.2	Middle	2	2	28.50	8.10	21.10	77.9	5.40	5.0	2.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	15.3	Bottom	3	1	28.20	8.10	22.90	74.5	5.10	7.9	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS4	6:31:00	15.3	Bottom	3	2	28.30	8.10	22.50	74.4	5.10	7.5	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00	1.0	Surface	1	1	28.50	8.10	18.40	79.6	5.60	5.5	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00	1.0	Surface	1	2	28.50	8.10	18.30	79.5	5.60	5.4	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00	3.4	Bottom	3	1	28.20	8.10	22.00	74.1	5.10	11.1	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR6	7:02:00	3.4	Bottom	3	2	28.20	8.10	21.80	73.8	5.10	11.5	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	1.0	Surface	1	1	28.60	8.00	16.00	78.4	5.60	3.2	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	1.0	Surface	1	2	28.60	8.00	15.80	78.4	5.60	3.3	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	3.6	Middle	2	1	28.70	8.00	17.20	77.7	5.50	6.3	4.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	3.6	Middle	2	2	28.70	8.00	17.10	77.6	5.50	6.1	4.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	6.1	Bottom	3	1	28.60	8.10	19.20	75.9	5.30	12.6	5.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)3(N)	6:44:00	6.1	Bottom	3	2	28.70	8.10	19.00	75.8	5.30	12.3	4.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	1.0	Surface	1	1	28.70	8.10	18.40	89.7	6.30	6.6	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	1.0	Surface	1	2	28.70	8.20	18.20	89.2	6.20	6.9	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	4.7	Middle	2	1	28.50	8.10	20.40	81.6	5.70	12.9	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	4.7	Middle	2	2	28.50	8.10	20.10	81.3	5.60	12.5	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	8.4	Bottom	3	1	28.40	8.10	21.60	76.0	5.20	16.2	4.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR5(N)	6:15:00	8.4	Bottom	3	2	28.40	8.10	21.40	75.3	5.20	16.8	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	1.0	Surface	1	1	28.50	8.10	20.00	84.1	5.80	5.4	3.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	1.0	Surface	1	2	28.50	8.10	19.70	84.1	5.90	5.1	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	6.3	Middle	2	1	28.30	8.10	22.30	77.6	5.30	13.5	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	6.3	Middle	2	2	28.30	8.10	22.00	77.4	5.30	13.9	4.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	11.5	Bottom	3	1	28.20	8.10	22.90	72.0	4.90	15.5	5.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS10(N)	6:09:00	11.5	Bottom	3	2	28.30	8.10	22.70	71.8	4.90	15.6	5.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	1.0	Surface	1	1	28.60	8.10	19.00	84.0	5.90	4.7	3.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	1.0	Surface	1	2	28.60	8.10	18.30	83.8	5.90	5.0	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	5.6	Middle	2	1	28.50	8.10	20.70	79.8	5.50	11.6	4.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	5.6	Middle	2	2	28.50	8.10	20.30	79.6	5.50	11.8	3.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	10.1	Bottom	3	1	28.20	8.10	23.60	73.7	5.00	19.2	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)11	6:04:00	10.1	Bottom	3	2	28.20	8.10	23.40	73.5	5.00	19.7	5.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	1.0	Surface	1	1	28.70	8.10	19.20	86.7	6.00	2.0	1.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	1.0	Surface	1	2	28.70	8.10	19.20	86.6	6.00	2.5	1.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	6.3	Middle	2	1	28.30	8.10	24.10	82.6	5.60	3.8	2.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	6.3	Middle	2	2	28.20	8.10	24.00	82.4	5.60	3.5	2.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	11.5	Bottom	3	1	27.90	8.10	27.10	79.8	5.40	15.9	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	CS(Mf)5	5:38:00	11.5	Bottom	3	2	27.90	8.10	27.00	79.7	5.40	15.3	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR7	5:58:00	1.0	Surface	1	1	28.70	8.00	18.50	80.2	5.60	3.0	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR7	5:58:00	1.0	Surface	1	2	28.70	8.00	18.30	79.9	5.60	2.8	2.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR7	5:58:00		Middle	2	1								

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-24	Mid-Flood	Fine	SR7	5:58:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR7	5:58:00	3.3	Bottom	3	1	28.50	8.00	20.50	72.4	5.00	4.3	4.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR7	5:58:00	3.3	Bottom	3	2	28.50	8.00	20.30	73.0	5.10	4.5	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	1.0	Surface	1	1	28.70	8.20	20.10	95.5	6.60	2.5	2.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	1.0	Surface	1	2	28.70	8.20	20.10	95.4	6.60	2.8	2.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	5.8	Middle	2	1	28.60	8.20	21.10	93.3	6.40	3.9	2.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	5.8	Middle	2	2	28.60	8.20	21.00	92.9	6.40	3.6	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	10.6	Bottom	3	1	28.40	8.20	22.80	83.2	5.70	4.3	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS17	5:55:00	10.6	Bottom	3	2	28.40	8.20	22.80	83.3	5.70	4.2	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00	1.0	Surface	1	1	28.60	8.20	20.50	93.5	6.50	2.4	2.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00	1.0	Surface	1	2	28.60	8.20	20.40	93.4	6.50	2.9	2.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00	4.9	Bottom	3	1	28.60	8.20	21.60	90.7	6.20	5.1	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)16	6:03:00	4.9	Bottom	3	2	28.60	8.20	21.50	90.7	6.20	5.2	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00	1.0	Surface	1	1	28.60	8.20	19.70	89.3	6.20	3.5	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00	1.0	Surface	1	2	28.60	8.20	19.70	89.2	6.20	3.3	2.8	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00	3.4	Bottom	3	1	28.60	8.20	20.80	88.2	6.10	4.2	3.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS8	6:24:00	3.4	Bottom	3	2	28.60	8.20	20.80	88.2	6.10	4.1	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00	1.0	Surface	1	1	28.60	8.10	19.40	86.9	6.00	3.9	2.7	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00	1.0	Surface	1	2	28.60	8.10	19.40	86.8	6.00	3.5	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00	3.2	Bottom	3	1	28.50	8.10	20.90	82.7	5.70	5.3	2.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR4(N)	6:18:00	3.2	Bottom	3	2	28.50	8.10	20.80	82.5	5.70	5.4	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00	1.0	Surface	1	1	28.60	8.20	20.30	91.5	6.30	3.8	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00	1.0	Surface	1	2	28.60	8.20	20.30	91.6	6.30	3.8	3.1	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00	2.3	Bottom	3	1	28.60	8.20	21.50	90.8	6.20	6.1	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)9	6:31:00	2.3	Bottom	3	2	28.60	8.20	21.40	90.5	6.20	6.4	3.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00	1.4	Middle	2	1	28.60	8.20	20.60	97.4	6.70	3.5	3.5	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00	1.4	Middle	2	2	28.60	8.20	20.50	97.0	6.70	3.2	3.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS7	6:38:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00	1.3	Middle	2	1	28.60	8.20	20.60	94.0	6.50	3.4	4.0	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00	1.3	Middle	2	2	28.50	8.20	20.50	94.0	6.50	3.3	4.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS(Mf)6	6:45:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	1.0	Surface	1	1	28.60	8.20	20.70	95.8	6.60	2.5	3.4	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	1.0	Surface	1	2	28.60	8.20	20.70	95.7	6.60	3.0	3.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	4.4	Middle	2	1	28.70	8.20	20.80	93.9	6.50	3.2	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	4.4	Middle	2	2	28.70	8.20	20.80	93.6	6.50	3.3	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	7.8	Bottom	3	1	28.50	8.10	22.90	85.1	5.80	7.1	4.3	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	IS5	6:52:00	7.8	Bottom	3	2	28.40	8.10	22.80	85.2	5.80	7.3	4.6	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00	1.0	Surface	1	1	28.60	8.20	21.80	90.2	6.20	5.3	4.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00	1.0	Surface	1	2	28.60	8.20	21.70	90.3	6.20	5.3	3.9	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00	3.0	Bottom	3	1	28.60	8.20	22.10	88.5	6.10	6.6	6.2	
HKBCF	HY/2013/01	2018-09-24	Mid-Flood	Fine	SR3(N)	6:59:00	3.0	Bottom	3	2	28.60	8.20	22.00	88.4	6.10	6.3	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	1.0	Surface	1	1	28.10	8.10	24.10	80.9	5.50	6.6	6.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	1.0	Surface	1	2	28.10	7.90	24.10	80.8	5.50	6.7	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	6.3	Middle	2	1	28.10	8.10	24.10	81.1	5.60	5.7	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	6.3	Middle	2	2	28.10	7.90	24.10	81.1	5.50	5.7	6.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	11.6	Bottom	3	1	28.10	8.10	24.10	80.6	5.50	5.7	6.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10A(N)	13:41:00	11.6	Bottom	3	2	28.10	7.90	24.10	80.6	5.50	5.8	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	1.0	Surface	1	1	28.10	8.10	24.30	81.5	5.60	4.9	5.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	1.0	Surface	1	2	28.10	7.90	24.30	81.5	5.60	5.0	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	3.1	Middle	2	1	28.10	8.10	24.50	80.3	5.50	4.9	6.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	3.1	Middle	2	2	28.10	7.90	24.50	80.2	5.50	5.0	6.6	

Remarks:

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- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	5.2	Bottom	3	1	28.00	8.10	24.90	80.6	5.50	5.1	8.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR10B(N2)	13:35:00	5.2	Bottom	3	2	28.10	7.90	24.70	81.0	5.50	5.3	8.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	1.0	Surface	1	1	28.30	8.10	21.30	80.7	5.60	3.8	5.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	1.0	Surface	1	2	28.30	8.20	21.00	79.9	5.50	3.2	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	16.1	Middle	2	1	27.60	8.10	27.10	72.4	4.90	4.5	5.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	16.1	Middle	2	2	27.60	8.20	26.70	71.9	4.90	4.9	5.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	31.2	Bottom	3	1	27.60	8.10	27.20	72.5	4.90	5.0	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CSA	13:29:00	31.2	Bottom	3	2	27.60	8.20	26.90	74.3	5.00	4.9	5.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	1.0	Surface	1	1	28.30	8.10	22.10	81.7	5.60	4.1	7.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	1.0	Surface	1	2	28.30	8.20	21.80	81.1	5.60	4.1	6.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	5.3	Middle	2	1	28.20	8.10	23.60	79.6	5.50	4.9	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	5.3	Middle	2	2	28.20	8.20	23.30	79.0	5.40	4.4	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	9.5	Bottom	3	1	28.10	8.10	24.30	80.8	5.50	5.5	7.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS6	13:22:00	9.5	Bottom	3	2	28.10	8.20	23.90	80.8	5.50	5.6	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	1.0	Surface	1	1	28.70	8.00	19.80	81.4	5.60	5.2	3.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	1.0	Surface	1	2	28.80	8.10	19.50	80.8	5.60	5.5	3.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	8.2	Middle	2	1	28.10	8.10	22.40	77.5	5.40	11.4	4.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	8.2	Middle	2	2	28.10	8.20	22.10	77.0	5.30	11.4	4.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	15.4	Bottom	3	1	28.00	8.10	24.30	77.2	5.30	7.0	4.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS4	12:30:00	15.4	Bottom	3	2	28.00	8.20	24.00	76.7	5.30	7.8	4.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00	1.0	Surface	1	1	28.20	8.10	21.70	82.1	5.70	8.8	4.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00	1.0	Surface	1	2	28.20	8.10	21.30	82.1	5.70	8.7	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00	3.4	Bottom	3	1	28.00	8.10	23.00	83.9	5.80	13.3	5.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR6	11:57:00	3.4	Bottom	3	2	28.00	8.20	22.70	83.1	5.70	13.2	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	1.0	Surface	1	1	28.60	8.00	18.60	78.7	5.50	6.1	3.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	1.0	Surface	1	2	28.70	8.10	18.30	78.1	5.50	6.3	3.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	3.5	Middle	2	1	28.40	8.00	20.30	78.6	5.50	8.7	5.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	3.5	Middle	2	2	28.40	8.10	20.10	77.9	5.40	8.9	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	5.9	Bottom	3	1	28.20	8.00	21.70	79.0	5.50	15.5	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)3(N)	12:13:00	5.9	Bottom	3	2	28.20	8.10	21.40	78.5	5.40	15.6	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	1.0	Surface	1	1	28.60	8.00	19.00	80.8	5.60	7.5	3.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	1.0	Surface	1	2	28.60	8.10	18.70	80.3	5.60	7.9	3.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	4.7	Middle	2	1	28.20	8.10	22.50	78.9	5.40	13.8	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	4.7	Middle	2	2	28.20	8.20	22.20	78.4	5.40	13.5	5.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	8.4	Bottom	3	1	28.10	8.10	23.30	79.2	5.40	16.3	5.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR5(N)	12:47:00	8.4	Bottom	3	2	28.10	8.20	23.00	78.9	5.40	16.1	5.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	1.0	Surface	1	1	28.50	8.00	19.90	80.7	5.60	10.3	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	1.0	Surface	1	2	28.50	8.10	19.60	80.2	5.60	10.1	5.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	6.3	Middle	2	1	28.10	8.10	22.60	77.4	5.30	23.1	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	6.3	Middle	2	2	28.10	8.20	22.30	77.2	5.30	22.6	5.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	11.5	Bottom	3	1	27.80	8.10	25.50	75.5	5.10	20.6	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS10(N)	12:53:00	11.5	Bottom	3	2	27.90	8.20	25.20	75.5	5.20	20.2	5.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	1.0	Surface	1	1	28.20	8.10	22.00	79.6	5.50	12.5	3.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	1.0	Surface	1	2	28.20	8.20	21.70	78.9	5.50	12.2	2.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	5.6	Middle	2	1	28.10	8.10	22.70	77.7	5.40	17.8	4.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	5.6	Middle	2	2	28.10	8.20	22.40	76.8	5.30	17.2	4.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	10.2	Bottom	3	1	27.90	8.10	24.70	75.7	5.20	16.6	5.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)11	12:58:00	10.2	Bottom	3	2	27.90	8.20	24.30	75.3	5.20	16.6	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	1.0	Surface	1	1	28.10	8.10	24.60	81.3	5.50	6.4	5.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	1.0	Surface	1	2	28.10	7.90	24.60	81.1	5.50	6.4	5.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	6.2	Middle	2	1	27.90	8.10	25.80	80.5	5.50	11.6	6.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	6.2	Middle	2	2	27.90	7.90	25.80	80.0	5.40	11.7	5.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	11.4	Bottom	3	1	27.90	8.10	25.90	82.7	5.60	15.2	7.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	CS(Mf)5	13:09:00	11.4	Bottom	3	2	27.90	7.90	25.90	82.9	5.60	15.3	8.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00	1.0	Surface	1	1	28.30	8.10	22.00	80.5	5.60	12.8	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00	1.0	Surface	1	2	28.30	8.20	21.50	80.5	5.60	12.6	4.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00	3.6	Bottom	3	1	28.10	8.10	22.80	82.1	5.70	16.0	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR7	13:05:00	3.6	Bottom	3	2	28.10	8.20	22.50	82.0	5.70	16.0	7.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	1.0	Surface	1	1	28.20	8.10	23.20	83.3	5.70	10.0	4.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	1.0	Surface	1	2	28.20	7.90	23.10	83.0	5.70	10.1	4.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	4.0	Middle	2	1	28.00	8.10	24.50	84.9	5.80	13.9	4.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	4.0	Middle	2	2	28.00	7.90	24.50	84.3	5.80	14.0	3.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	6.9	Bottom	3	1	28.00	8.10	24.90	87.3	6.00	13.9	5.4	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-26	Mid-Ebb	Cloudy	IS17	12:53:00	6.9	Bottom	3	2	28.00	7.90	25.00	86.6	5.90	14.0	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00	1.0	Surface	1	1	28.10	8.10	24.20	82.9	5.70	6.6	4.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00	1.0	Surface	1	2	28.20	7.90	24.20	82.5	5.60	6.7	4.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00	4.9	Bottom	3	1	27.90	8.10	25.70	82.7	5.60	7.4	8.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)16	12:47:00	4.9	Bottom	3	2	27.90	7.90	25.60	84.0	5.70	7.4	7.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00	1.0	Surface	1	1	28.20	8.10	23.30	85.1	5.80	6.5	7.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00	1.0	Surface	1	2	28.20	7.90	23.30	84.7	5.80	6.6	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00	3.2	Bottom	3	1	28.10	8.10	23.80	86.9	6.00	9.7	8.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS8	12:28:00	3.2	Bottom	3	2	28.10	7.90	23.70	86.0	5.90	9.8	8.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00	1.0	Surface	1	1	28.10	8.10	22.70	84.6	5.80	6.0	8.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00	1.0	Surface	1	2	28.20	7.90	22.70	84.3	5.80	6.1	8.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00	2.9	Bottom	3	1	28.10	8.10	23.10	87.4	6.00	8.4	9.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR4(N)	12:35:00	2.9	Bottom	3	2	28.20	7.90	23.10	88.3	6.10	8.5	8.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00	1.0	Surface	1	1	28.30	8.10	23.20	88.8	6.10	3.1	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00	1.0	Surface	1	2	28.30	7.90	23.20	88.6	6.10	3.2	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00	2.7	Bottom	3	1	28.30	8.10	23.30	91.1	6.20	3.0	8.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)9	12:22:00	2.7	Bottom	3	2	28.30	7.90	23.30	91.5	6.30	3.1	7.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00	1.4	Middle	2	1	28.20	8.10	23.30	90.8	6.20	4.7	8.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00	1.4	Middle	2	2	28.20	7.90	23.30	91.3	6.30	4.7	9.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS7	12:17:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00	1.3	Middle	2	1	28.10	8.10	23.10	84.0	5.80	12.0	10.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00	1.3	Middle	2	2	28.10	7.90	23.10	83.6	5.70	12.1	11.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS(Mf)6	12:11:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	1.0	Surface	1	1	28.10	8.10	23.20	83.9	5.80	10.0	7.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	1.0	Surface	1	2	28.10	7.90	23.20	83.5	5.70	10.0	7.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	4.8	Middle	2	1	28.10	8.10	23.20	85.2	5.90	10.6	8.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	4.8	Middle	2	2	28.10	7.90	23.20	84.8	5.80	10.7	8.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	8.6	Bottom	3	1	28.10	8.10	23.20	87.4	6.00	12.6	8.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	IS5	12:05:00	8.6	Bottom	3	2	28.10	7.90	23.20	88.2	6.10	12.7	9.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00	1.0	Surface	1	1	28.10	8.10	23.10	84.9	5.80	6.1	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00	1.0	Surface	1	2	28.10	8.00	23.10	84.2	5.80	6.2	6.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00	3.4	Bottom	3	1	28.10	8.10	23.10	86.4	5.90	6.3	7.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Ebb	Cloudy	SR3(N)	11:57:00	3.4	Bottom	3	2	28.10	8.00	23.10	85.8	5.90	6.3	7.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	1.0	Surface	1	1	28.00	8.10	24.30	80.1	5.50	3.7	4.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	1.0	Surface	1	2	28.00	8.00	24.30	80.1	5.50	3.8	5.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	6.5	Middle	2	1	27.90	8.10	25.30	78.5	5.40	4.7	5.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	6.5	Middle	2	2	27.90	8.00	25.20	78.3	5.30	4.9	4.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	12.0	Bottom	3	1	27.80	8.10	26.70	76.5	5.20	7.5	4.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10A(N)	6:15:00	12.0	Bottom	3	2	27.80	8.00	26.70	76.3	5.20	7.7	5.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	1.0	Surface	1	1	27.60	8.10	28.30	74.0	5.00	11.2	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	1.0	Surface	1	2	27.60	7.90	28.30	73.7	5.00	11.3	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	3.2	Middle	2	1	27.60	8.10	28.30	74.6	5.00	11.5	8.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	3.2	Middle	2	2	27.60	7.90	28.30	74.3	5.00	11.7	7.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	5.3	Bottom	3	1	27.60	8.10	28.30	76.0	5.10	11.4	10.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR10B(N2)	6:22:00	5.3	Bottom	3	2	27.60	7.90	28.30	75.6	5.10	11.4	10.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	1.0	Surface	1	1	28.10	8.20	22.50	78.6	5.40	11.8	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	1.0	Surface	1	2	28.10	8.10	22.80	79.5	5.50	11.8	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	16.1	Middle	2	1	27.80	8.20	25.80	73.8	5.00	17.3	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	16.1	Middle	2	2	27.80	8.10	26.10	74.3	5.00	17.2	6.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	31.2	Bottom	3	1	27.80	8.20	26.10	73.5	5.00	16.8	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CSA	6:33:00	31.2	Bottom	3	2	27.80	8.10	26.40	73.8	5.00	16.9	7.3	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	1.0	Surface	1	1	28.10	8.20	21.70	80.6	5.60	11.0	4.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	1.0	Surface	1	2	28.10	8.10	21.90	81.5	5.60	11.2	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	4.9	Middle	2	1	28.20	8.20	22.00	80.0	5.50	11.5	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	4.9	Middle	2	2	28.20	8.10	22.30	80.7	5.60	10.9	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	8.7	Bottom	3	1	28.20	8.20	22.90	79.8	5.50	13.7	6.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS6	6:48:00	8.7	Bottom	3	2	28.20	8.10	23.30	80.2	5.50	12.7	7.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	1.0	Surface	1	1	28.10	8.20	21.60	79.2	5.50	11.5	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	1.0	Surface	1	2	28.10	8.10	21.90	79.8	5.50	11.6	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	8.5	Middle	2	1	28.10	8.20	22.10	78.4	5.40	12.3	8.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	8.5	Middle	2	2	28.10	8.10	22.50	78.8	5.40	12.7	7.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	16.0	Bottom	3	1	27.90	8.20	24.90	74.3	5.10	10.6	9.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS4	7:47:00	16.0	Bottom	3	2	27.90	8.10	25.30	74.7	5.10	10.2	8.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00	1.0	Surface	1	1	28.10	8.10	21.10	80.4	5.60	17.1	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00	1.0	Surface	1	2	28.10	8.10	21.40	80.9	5.60	17.5	5.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00	3.5	Bottom	3	1	28.10	8.10	22.00	80.3	5.60	22.6	6.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR6	8:21:00	3.5	Bottom	3	2	28.10	8.10	22.30	81.0	5.60	21.2	6.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	1.0	Surface	1	1	28.20	8.10	18.10	78.8	5.60	10.7	5.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	1.0	Surface	1	2	28.20	8.00	18.30	79.4	5.60	10.4	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	3.6	Middle	2	1	28.30	8.10	19.50	78.9	5.50	12.6	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	3.6	Middle	2	2	28.30	8.00	19.80	79.5	5.60	12.8	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	6.2	Bottom	3	1	28.30	8.10	20.30	79.3	5.50	18.2	5.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)3(N)	8:02:00	6.2	Bottom	3	2	28.20	8.10	20.50	80.2	5.60	18.6	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	1.0	Surface	1	1	28.10	8.20	22.40	79.3	5.50	19.4	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	1.0	Surface	1	2	28.10	8.10	22.70	79.8	5.50	17.6	5.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	4.8	Middle	2	1	28.10	8.20	22.40	78.8	5.40	15.0	6.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	4.8	Middle	2	2	28.10	8.10	22.70	79.5	5.50	14.3	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	8.6	Bottom	3	1	28.00	8.20	22.80	79.4	5.50	14.8	9.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR5(N)	7:31:00	8.6	Bottom	3	2	28.00	8.10	23.00	80.4	5.50	14.7	9.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	1.0	Surface	1	1	28.10	8.20	21.90	78.8	5.50	15.2	4.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	1.0	Surface	1	2	28.10	8.10	22.10	79.3	5.50	15.8	5.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	6.4	Middle	2	1	28.10	8.20	22.60	76.8	5.30	22.0	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	6.4	Middle	2	2	28.00	8.10	22.90	77.6	5.30	21.5	6.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	11.8	Bottom	3	1	28.00	8.20	23.30	75.8	5.20	15.7	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS10(N)	7:22:00	11.8	Bottom	3	2	28.00	8.10	23.60	76.5	5.30	15.6	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	1.0	Surface	1	1	28.10	8.20	21.80	79.3	5.50	18.2	9.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	1.0	Surface	1	2	28.10	8.10	22.10	79.8	5.50	18.5	9.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	5.5	Middle	2	1	28.10	8.20	22.50	77.8	5.40	15.0	10.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	5.5	Middle	2	2	28.10	8.10	22.80	78.4	5.40	15.5	10.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	9.9	Bottom	3	1	28.00	8.20	23.20	77.2	5.30	18.1	12.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)11	7:15:00	9.9	Bottom	3	2	28.00	8.10	23.50	77.7	5.30	18.4	12.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	1.0	Surface	1	1	28.00	8.10	23.60	79.7	5.50	4.5	5.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	1.0	Surface	1	2	28.00	7.90	23.60	79.5	5.50	4.6	4.8	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	6.6	Middle	2	1	27.90	8.10	25.60	76.6	5.20	7.4	6.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	6.6	Middle	2	2	27.90	7.90	25.60	76.3	5.20	7.5	5.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	12.2	Bottom	3	1	27.70	8.10	27.00	76.4	5.20	10.7	7.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	CS(Mf)5	6:51:00	12.2	Bottom	3	2	27.80	7.90	27.00	75.9	5.10	10.8	7.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00	1.0	Surface	1	1	28.10	8.20	21.80	80.9	5.60	13.1	5.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00	1.0	Surface	1	2	28.00	8.10	22.10	81.2	5.60	13.4	4.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00	3.6	Bottom	3	1	28.00	8.20	22.00	82.5	5.70	16.9	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR7	7:08:00	3.6	Bottom	3	2	28.00	8.10	22.40	82.7	5.70	16.6	7.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	1.0	Surface	1	1	28.00	8.10	23.60	80.7	5.50	4.7	5.7	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	1.0	Surface	1	2	28.00	7.90	23.60	80.6	5.50	4.8	6.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	4.6	Middle	2	1	28.00	8.10	24.00	78.2	5.40	8.0	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	4.6	Middle	2	2	28.00	7.90	24.00	78.0	5.30	8.0	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	8.1	Bottom	3	1	27.90	8.10	25.40	77.6	5.30	9.7	7.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS17	7:10:00	8.1	Bottom	3	2	27.90	7.90	25.40	77.1	5.30	9.7	8.0	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00	1.0	Surface	1	1	28.00	8.10	23.70	80.5	5.50	5.2	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00	1.0	Surface	1	2	28.00	7.90	23.70	80.2	5.50	5.3	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00	4.4	Bottom	3	1	28.00	8.10	24.00	81.9	5.60	8.0	5.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)16	7:18:00	4.4	Bottom	3	2	28.00	7.90	24.00	80.7	5.50	8.1	5.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00	1.0	Surface	1	1	28.00	8.10	23.30	82.3	5.70	8.9	6.0	

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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	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00	1.0	Surface	1	2	28.00	7.90	23.30	81.9	5.60	8.9	6.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00	2.7	Bottom	3	1	28.00	8.10	23.40	83.3	5.70	10.4	7.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS8	7:41:00	2.7	Bottom	3	2	28.00	7.90	23.40	82.5	5.70	10.5	8.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00	1.0	Surface	1	1	28.00	8.10	23.30	81.1	5.60	8.8	6.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00	1.0	Surface	1	2	28.00	7.90	23.30	80.8	5.60	8.9	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00	2.2	Bottom	3	1	28.00	8.10	23.30	82.1	5.70	8.6	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR4(N)	7:36:00	2.2	Bottom	3	2	28.00	7.90	23.30	81.4	5.60	8.7	7.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00	1.0	Surface	1	1	27.90	8.10	23.40	82.3	5.70	4.7	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00	1.0	Surface	1	2	28.00	7.90	23.50	82.0	5.60	4.8	6.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00	2.3	Bottom	3	1	27.90	8.10	23.50	83.0	5.70	5.2	7.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)9	7:49:00	2.3	Bottom	3	2	28.00	7.90	23.50	82.6	5.70	5.2	7.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00	1.4	Middle	2	1	28.10	8.10	23.20	85.1	5.90	5.8	6.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00	1.4	Middle	2	2	28.00	7.90	23.20	83.8	5.80	5.9	6.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS7	7:57:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00		Surface	1	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00		Surface	1	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00	1.2	Middle	2	1	28.10	8.10	23.20	84.5	5.80	5.7	6.5	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00	1.2	Middle	2	2	28.10	7.90	23.20	83.8	5.80	5.8	6.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00		Bottom	3	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS(Mf)6	8:04:00		Bottom	3	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	1.0	Surface	1	1	28.00	8.10	23.10	81.6	5.60	5.0	5.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	1.0	Surface	1	2	28.10	7.90	23.20	81.4	5.60	5.0	5.6	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	4.4	Middle	2	1	28.10	8.10	23.30	80.8	5.60	5.0	6.1	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	4.4	Middle	2	2	28.10	7.90	23.30	80.5	5.50	5.1	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	7.8	Bottom	3	1	28.10	8.10	24.00	80.6	5.50	8.0	6.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	IS5	8:09:00	7.8	Bottom	3	2	28.10	7.90	24.00	80.0	5.50	8.1	6.4	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00	1.0	Surface	1	1	28.10	8.10	23.10	84.0	5.80	11.9	3.9	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00	1.0	Surface	1	2	28.10	7.90	23.10	83.6	5.80	12.0	4.2	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00	2.4	Bottom	3	1	28.10	8.10	23.10	86.1	5.90	14.5	4.3	
HKBCF	HY/2013/01	2018-09-26	Mid-Flood	Cloudy	SR3(N)	8:16:00	2.4	Bottom	3	2	28.10	7.90	23.10	85.1	5.90	14.6	4.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	1.0	Surface	1	1	28.40	7.70	22.80	77.8	5.30	7.9	10.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	1.0	Surface	1	2	28.40	7.70	22.90	78.1	5.30	7.6	10.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	5.9	Middle	2	1	28.30	7.70	23.30	75.9	5.20	6.9	12.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	5.9	Middle	2	2	28.30	7.70	23.40	76.2	5.20	6.8	12.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	10.8	Bottom	3	1	28.00	7.70	25.60	70.6	4.80	7.4	13.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10A(N)	15:32:00	10.8	Bottom	3	2	28.00	7.70	25.70	70.3	4.80	7.2	13.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	1.0	Surface	1	1	28.40	7.70	23.00	77.2	5.30	7.2	11.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	1.0	Surface	1	2	28.40	7.70	23.00	77.6	5.30	7.5	12.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	3.6	Middle	2	1	28.30	7.70	23.30	76.5	5.20	6.8	11.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	3.6	Middle	2	2	28.30	7.70	23.40	76.7	5.20	6.9	12.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	6.2	Bottom	3	1	28.30	7.70	23.40	76.5	5.20	6.8	12.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR10B(N2)	15:28:00	6.2	Bottom	3	2	28.30	7.70	23.50	76.6	5.20	6.8	13.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	1.0	Surface	1	1	28.40	8.10	22.40	77.1	5.30	3.7	5.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	1.0	Surface	1	2	28.40	8.10	22.00	77.0	5.30	3.7	5.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	16.7	Middle	2	1	28.10	8.10	23.80	74.4	5.10	4.3	6.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	16.7	Middle	2	2	28.10	8.20	23.40	74.4	5.10	4.2	6.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	32.4	Bottom	3	1	27.80	8.10	26.20	74.1	5.00	5.7	7.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CSA	14:35:00	32.4	Bottom	3	2	27.80	8.20	25.80	74.3	5.10	6.0	7.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	1.0	Surface	1	1	28.70	8.10	22.10	81.1	5.60	3.0	6.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	1.0	Surface	1	2	28.70	8.10	21.80	80.6	5.50	2.6	6.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	4.6	Middle	2	1	28.50	8.10	22.80	78.7	5.40	3.5	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	4.6	Middle	2	2	28.50	8.10	22.50	78.3	5.40	3.3	9.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	8.2	Bottom	3	1	27.80	8.10	25.60	72.4	4.90	4.4	9.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS6	14:26:00	8.2	Bottom	3	2	27.80	8.10	25.20	72.5	5.00	4.4	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	1.0	Surface	1	1	28.60	8.00	19.50	81.8	5.70	4.0	7.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	1.0	Surface	1	2	28.60	8.10	19.30	81.5	5.70	4.1	7.6	

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	8.1	Middle	2	1	28.30	8.00	20.60	78.0	5.40	7.0	7.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	8.1	Middle	2	2	28.30	8.10	20.30	77.9	5.40	7.5	6.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	15.1	Bottom	3	1	28.10	8.10	21.90	77.5	5.40	8.6	9.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS4	13:36:00	15.1	Bottom	3	2	28.10	8.10	21.60	77.5	5.40	9.1	9.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00	1.0	Surface	1	1	28.20	8.10	21.60	81.1	5.60	10.0	9.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00	1.0	Surface	1	2	28.20	8.10	21.20	80.6	5.60	9.8	9.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00	3.3	Bottom	3	1	27.90	8.10	23.40	76.7	5.30	15.7	11.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR6	13:06:00	3.3	Bottom	3	2	28.00	8.20	23.00	76.4	5.30	15.9	12.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	1.0	Surface	1	1	28.80	7.90	17.20	80.8	5.70	5.7	7.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	1.0	Surface	1	2	28.80	8.00	16.90	80.3	5.60	6.1	8.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	3.5	Middle	2	1	28.40	8.00	19.60	75.8	5.30	5.8	9.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	3.5	Middle	2	2	28.40	8.00	19.30	75.7	5.30	6.2	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	6.0	Bottom	3	1	28.20	8.00	20.90	78.3	5.40	7.5	11.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)3(N)	13:22:00	6.0	Bottom	3	2	28.20	8.10	20.60	78.1	5.40	7.7	12.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	1.0	Surface	1	1	28.50	8.10	19.10	81.2	5.70	6.0	6.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	1.0	Surface	1	2	28.50	8.10	18.90	80.9	5.70	6.7	7.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	4.6	Middle	2	1	28.30	8.10	21.30	79.5	5.50	8.1	7.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	4.6	Middle	2	2	28.30	8.20	21.00	79.2	5.50	8.6	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	8.1	Bottom	3	1	28.20	8.10	22.10	77.3	5.30	11.7	10.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR5(N)	13:52:00	8.1	Bottom	3	2	28.20	8.20	21.80	77.1	5.30	11.8	10.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	1.0	Surface	1	1	28.60	8.10	19.40	82.5	5.80	6.8	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	1.0	Surface	1	2	28.60	8.10	19.10	82.3	5.70	7.2	8.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	6.1	Middle	2	1	28.40	8.10	20.90	80.3	5.60	9.9	9.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	6.1	Middle	2	2	28.40	8.20	20.60	80.2	5.60	9.9	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	11.2	Bottom	3	1	28.20	8.10	22.20	77.6	5.40	14.3	9.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS10(N)	13:57:00	11.2	Bottom	3	2	28.20	8.20	21.80	77.9	5.40	14.0	10.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	1.0	Surface	1	1	28.60	8.10	19.40	83.1	5.80	6.1	10.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	1.0	Surface	1	2	28.60	8.20	19.10	82.9	5.80	5.9	9.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	5.4	Middle	2	1	28.50	8.10	20.50	79.2	5.50	8.6	13.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	5.4	Middle	2	2	28.50	8.20	20.30	78.7	5.50	9.0	13.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	9.8	Bottom	3	1	28.20	8.10	22.10	77.5	5.30	10.5	16.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)11	14:02:00	9.8	Bottom	3	2	28.30	8.20	21.80	77.4	5.40	10.4	16.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	1.0	Surface	1	1	28.40	7.70	22.80	77.9	5.30	7.3	10.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	1.0	Surface	1	2	28.40	7.70	22.90	78.1	5.30	7.2	9.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	6.4	Middle	2	1	28.30	7.70	23.60	75.7	5.20	6.5	10.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	6.4	Middle	2	2	28.30	7.70	23.70	75.8	5.20	6.8	10.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	11.8	Bottom	3	1	28.30	7.70	23.70	75.3	5.10	6.7	12.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	CS(Mf)5	15:00:00	11.8	Bottom	3	2	28.30	7.70	23.70	75.4	5.20	6.8	12.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00	1.0	Surface	1	1	28.50	8.10	20.30	81.5	5.70	6.4	6.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00	1.0	Surface	1	2	28.50	8.20	20.00	81.3	5.60	6.0	7.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00	3.1	Bottom	3	1	28.50	8.10	20.60	82.6	5.70	6.9	9.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR7	14:09:00	3.1	Bottom	3	2	28.50	8.20	20.30	82.7	5.70	6.7	10.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	1.0	Surface	1	1	28.40	7.70	22.30	78.9	5.40	7.6	10.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	1.0	Surface	1	2	28.40	7.70	22.30	79.0	5.40	7.9	10.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	4.0	Middle	2	1	28.30	7.70	22.80	77.6	5.30	11.3	11.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	4.0	Middle	2	2	28.40	7.70	22.90	77.6	5.30	11.0	11.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	6.9	Bottom	3	1	28.20	7.70	23.50	76.2	5.20	12.5	12.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS17	14:44:00	6.9	Bottom	3	2	28.20	7.70	23.50	75.8	5.20	12.6	12.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00	1.0	Surface	1	1	28.30	7.70	22.80	73.9	5.10	6.8	7.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00	1.0	Surface	1	2	28.30	7.70	22.90	74.4	5.10	7.2	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00	4.8	Bottom	3	1	27.90	7.70	25.50	70.4	4.80	4.9	10.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)16	14:36:00	4.8	Bottom	3	2	27.90	7.70	25.50	70.4	4.80	5.0	9.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00	1.0	Surface	1	1	28.60	7.70	21.90	82.6	5.70	6.4	4.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00	1.0	Surface	1	2	28.60	7.70	21.90	83.0	5.70	6.8	4.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00	3.3	Bottom	3	1	28.40	7.70	22.10	79.6	5.50	7.4	8.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS8	14:13:00	3.3	Bottom	3	2	28.50	7.70	22.10	79.2	5.40	7.2	8.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00	1.0	Surface	1	1	28.90	7.70	21.20	85.8	5.90	6.3	5.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00	1.0	Surface	1	2	29.00	7.70	21.20	86.1	5.90	6.5	6.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00		Middle	2	1								

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(i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.

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(iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical



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	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00	3.6	Bottom	3	1	28.30	7.70	21.70	73.5	5.10	6.2	7.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR4(N)	14:20:00	3.6	Bottom	3	2	28.30	7.60	21.80	73.0	5.00	6.1	7.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)9	14:06:00	1.0	Surface	1	1	28.70	7.70	21.70	82.9	5.70	5.7	8.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)9	14:06:00	1.0	Surface	1	2	28.70	7.70	21.70	83.0	5.70	5.2	8.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)9	14:06:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)9	14:06:00	2.5	Bottom	3	1	28.60	7.70	21.80	82.4	5.70	5.9	10.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)9	14:06:00	2.5	Bottom	3	2	28.60	7.70	21.90	82.7	5.70	5.6	11.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00	1.0	Surface	1	1	28.40	7.70	22.10	77.9	5.40	6.6	8.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00	1.0	Surface	1	2	28.40	7.60	22.10	78.0	5.40	6.6	8.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00	2.2	Bottom	3	1	28.30	7.70	22.30	77.8	5.40	10.9	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS7	13:59:00	2.2	Bottom	3	2	28.40	7.60	22.30	77.6	5.30	10.4	8.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00	1.0	Surface	1	1	28.40	7.70	22.30	77.4	5.30	13.6	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00	1.0	Surface	1	2	28.50	7.70	22.40	77.5	5.30	13.8	9.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00	2.1	Bottom	3	1	28.40	7.70	22.30	77.2	5.30	16.5	14.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS(Mf)6	13:50:00	2.1	Bottom	3	2	28.40	7.70	22.40	77.1	5.30	16.3	14.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	1.0	Surface	1	1	28.30	7.70	22.20	77.2	5.30	12.4	14.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	1.0	Surface	1	2	28.30	7.70	22.30	77.4	5.30	12.6	13.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	4.9	Middle	2	1	28.30	7.70	22.20	77.1	5.30	12.9	16.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	4.9	Middle	2	2	28.30	7.70	22.20	77.2	5.30	12.7	16.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	8.8	Bottom	3	1	28.30	7.70	22.20	76.4	5.30	13.0	16.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	IS5	13:15:00	8.8	Bottom	3	2	28.30	7.70	22.30	76.3	5.30	12.9	16.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00	1.0	Surface	1	1	28.70	7.90	22.20	80.2	5.50	7.6	9.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00	1.0	Surface	1	2	28.70	7.80	22.30	80.3	5.50	7.9	8.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00	3.5	Bottom	3	1	28.40	7.90	22.30	75.5	5.20	9.1	9.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Ebb	Cloudy	SR3(N)	13:06:00	3.5	Bottom	3	2	28.40	7.80	22.30	75.3	5.20	9.0	10.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	1.0	Surface	1	1	28.10	7.80	23.30	74.1	5.10	4.6	8.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	1.0	Surface	1	2	28.10	7.70	23.30	74.7	5.10	5.0	7.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	5.8	Middle	2	1	27.80	7.80	25.90	71.0	4.80	9.2	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	5.8	Middle	2	2	27.80	7.70	25.90	71.2	4.80	9.1	8.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	10.6	Bottom	3	1	27.70	7.80	26.50	71.7	4.90	9.3	9.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10A(N)	7:36:00	10.6	Bottom	3	2	27.70	7.70	26.60	71.5	4.90	9.4	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00	1.0	Surface	1	1	27.50	7.80	28.10	68.4	4.60	15.5	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00	1.0	Surface	1	2	27.50	7.70	28.20	68.6	4.60	15.4	9.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00	4.7	Bottom	3	1	27.50	7.80	28.20	69.1	4.70	16.2	12.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR10B(N2)	8:00:00	4.7	Bottom	3	2	27.50	7.70	28.20	69.0	4.70	16.2	11.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	1.0	Surface	1	1	28.20	8.10	20.70	77.0	5.40	4.8	5.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	1.0	Surface	1	2	28.20	8.10	20.40	76.8	5.40	4.8	6.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	17.0	Middle	2	1	28.10	8.10	23.10	73.3	5.00	6.0	5.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	17.0	Middle	2	2	28.20	8.10	22.80	73.2	5.00	6.0	5.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	32.9	Bottom	3	1	27.90	8.10	25.20	72.7	5.00	7.7	7.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CSA	7:50:00	32.9	Bottom	3	2	27.90	8.10	24.90	72.7	5.00	7.7	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	1.0	Surface	1	1	28.20	8.00	20.80	77.8	5.40	6.8	4.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	1.0	Surface	1	2	28.20	8.10	20.50	77.4	5.40	6.5	5.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	4.6	Middle	2	1	28.20	8.00	21.80	75.7	5.20	16.2	6.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	4.6	Middle	2	2	28.20	8.10	21.50	75.3	5.20	16.6	6.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	8.1	Bottom	3	1	28.10	8.10	23.90	74.2	5.10	23.3	7.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS6	8:01:00	8.1	Bottom	3	2	28.10	8.10	23.50	74.1	5.10	24.3	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	1.0	Surface	1	1	28.20	8.00	20.00	79.2	5.50	4.9	6.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	1.0	Surface	1	2	28.20	8.10	19.70	79.1	5.50	4.9	5.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	8.2	Middle	2	1	28.20	8.00	20.80	78.0	5.40	5.5	5.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	8.2	Middle	2	2	28.20	8.10	20.50	78.0	5.40	5.1	6.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	15.3	Bottom	3	1	28.20	8.00	21.10	78.6	5.50	6.2	6.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS4	8:57:00	15.3	Bottom	3	2	28.20	8.10	20.80	78.6	5.50	6.8	6.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR6	9:29:00	1.0	Surface	1	1	28.20	8.10	20.50	77.4	5.40	13.5	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR6	9:29:00	1.0	Surface	1	2	28.20	8.10	20.20	77.3	5.40	13.8	9.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR6	9:29:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR6	9:29:00		Middle	2	2								

Remarks:

- (i) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (ii) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (iii) There are construction activities of work bridge near SR4(N), the water quality monitoring team were unable to access station SR4(N) during September 2018 due to safety reason. The water quality monitoring for SR4(N) were conducted at the nearest location of SR4(N) as much as practical

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	2018-09-28	Mid-Flood	Fine	SR6	9:29:00	3.4	Bottom	3	1	28.10	8.10	22.70	75.5	5.20	20.6	12.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR6	9:29:00	3.4	Bottom	3	2	28.10	8.10	22.30	75.6	5.20	20.9	12.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	1.0	Surface	1	1	28.30	8.00	17.70	79.4	5.60	7.4	4.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	1.0	Surface	1	2	28.30	8.10	17.50	79.3	5.60	7.8	5.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	3.6	Middle	2	1	28.30	8.00	18.30	78.4	5.50	9.0	5.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	3.6	Middle	2	2	28.30	8.10	18.00	78.3	5.50	9.1	5.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	6.2	Bottom	3	1	28.40	8.00	19.00	78.0	5.50	12.7	6.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)3(N)	9:10:00	6.2	Bottom	3	2	28.40	8.10	18.80	77.9	5.50	12.6	6.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	1.0	Surface	1	1	28.20	8.00	20.70	78.4	5.50	8.4	6.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	1.0	Surface	1	2	28.20	8.10	20.40	78.3	5.50	8.5	6.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	4.8	Middle	2	1	28.20	8.10	21.40	75.8	5.30	18.1	7.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	4.8	Middle	2	2	28.20	8.10	21.10	75.5	5.20	18.8	8.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	8.5	Bottom	3	1	28.20	8.10	21.60	76.3	5.30	24.3	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR5(N)	8:39:00	8.5	Bottom	3	2	28.20	8.10	21.30	76.2	5.30	24.7	9.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	1.0	Surface	1	1	28.20	8.00	20.40	77.5	5.40	8.4	8.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	1.0	Surface	1	2	28.20	8.10	20.20	77.2	5.40	8.8	8.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	6.2	Middle	2	1	28.20	8.00	21.50	74.9	5.20	15.3	8.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	6.2	Middle	2	2	28.20	8.10	21.20	74.6	5.20	15.3	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	11.4	Bottom	3	1	28.10	8.10	22.40	74.3	5.10	25.6	11.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS10(N)	8:33:00	11.4	Bottom	3	2	28.10	8.10	22.10	74.3	5.10	25.7	11.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	1.0	Surface	1	1	28.20	8.00	20.70	75.8	5.30	15.1	8.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	1.0	Surface	1	2	28.20	8.10	20.40	75.6	5.30	14.9	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	5.6	Middle	2	1	28.20	8.00	21.60	74.5	5.20	21.7	7.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	5.6	Middle	2	2	28.20	8.10	21.40	74.2	5.10	21.6	8.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	10.2	Bottom	3	1	28.20	8.00	22.20	74.1	5.10	23.3	9.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)11	8:27:00	10.2	Bottom	3	2	28.20	8.10	21.90	74.1	5.10	23.3	10.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	1.0	Surface	1	1	28.10	7.70	22.00	76.5	5.30	4.9	7.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	1.0	Surface	1	2	28.10	7.70	22.00	76.9	5.30	4.6	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	6.3	Middle	2	1	27.70	7.70	26.90	69.2	4.70	8.6	10.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	6.3	Middle	2	2	27.70	7.70	27.00	69.1	4.70	8.9	9.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	11.5	Bottom	3	1	27.60	7.70	27.70	71.4	4.80	16.9	10.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	CS(Mf)5	8:28:00	11.5	Bottom	3	2	27.70	7.70	27.80	70.1	4.70	16.7	10.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00	1.0	Surface	1	1	28.20	8.00	20.60	77.7	5.40	6.9	6.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00	1.0	Surface	1	2	28.20	8.10	20.30	77.7	5.40	6.4	7.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00	3.3	Bottom	3	1	28.20	8.00	21.30	77.6	5.40	8.6	11.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR7	8:20:00	3.3	Bottom	3	2	28.20	8.10	21.00	77.2	5.40	8.8	11.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	1.0	Surface	1	1	28.20	7.70	21.40	77.5	5.40	5.0	7.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	1.0	Surface	1	2	28.20	7.70	21.50	77.7	5.40	5.1	7.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	4.6	Middle	2	1	28.20	7.70	22.30	74.0	5.10	5.2	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	4.6	Middle	2	2	28.20	7.70	22.40	74.2	5.10	5.7	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	8.2	Bottom	3	1	28.00	7.70	24.30	71.6	4.90	10.6	10.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS17	8:45:00	8.2	Bottom	3	2	28.00	7.60	24.40	71.6	4.90	10.6	10.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00	1.0	Surface	1	1	28.20	7.70	21.10	78.0	5.40	7.4	9.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00	1.0	Surface	1	2	28.20	7.60	21.20	78.2	5.40	7.5	8.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00	4.8	Bottom	3	1	28.20	7.70	22.10	74.2	5.10	10.2	12.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)16	8:53:00	4.8	Bottom	3	2	28.20	7.60	22.20	74.1	5.10	10.4	12.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00	1.0	Surface	1	1	28.10	7.70	21.10	77.7	5.40	7.3	7.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00	1.0	Surface	1	2	28.20	7.60	21.20	77.8	5.40	7.1	7.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00	2.8	Bottom	3	1	28.10	7.60	21.60	76.7	5.30	7.7	8.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS8	9:16:00	2.8	Bottom	3	2	28.10	7.60	21.30	77.0	5.30	7.7	9.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00	1.0	Surface	1	1	28.20	7.70	21.10	77.2	5.40	10.7	8.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00	1.0	Surface	1	2	28.20	7.60	21.20	77.5	5.40	10.5	8.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00	3.1	Bottom	3	1	28.20	7.60	21.20	78.1	5.40	12.2	11.2	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR4(N)	9:10:00	3.1	Bottom	3	2	28.20	7.60	21.30	78.1	5.40	12.3	10.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00	1.0	Surface	1	1	28.20	7.70	21.40	77.7	5.40	5.6	5.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00	1.0	Surface	1	2	28.20	7.60	21.40	78.1	5.40	5.4	5.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00	2.5	Bottom	3	1	28.10	7.70	21.90	75.8	5.20	11.0	8.1	

Remarks:

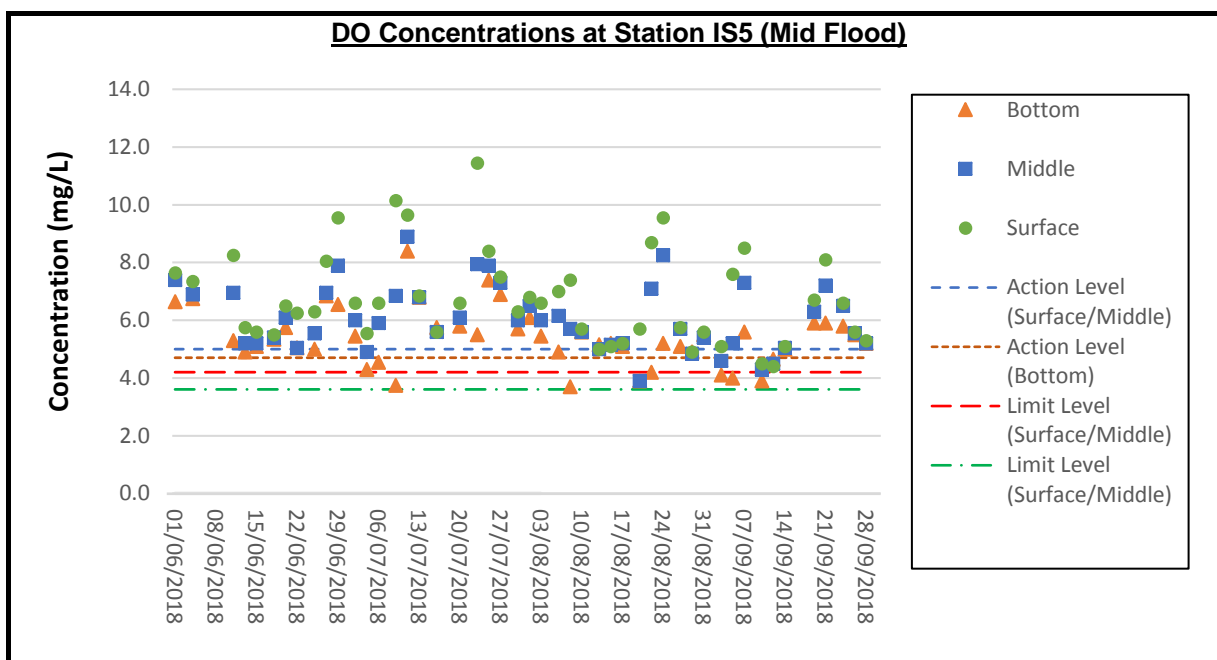
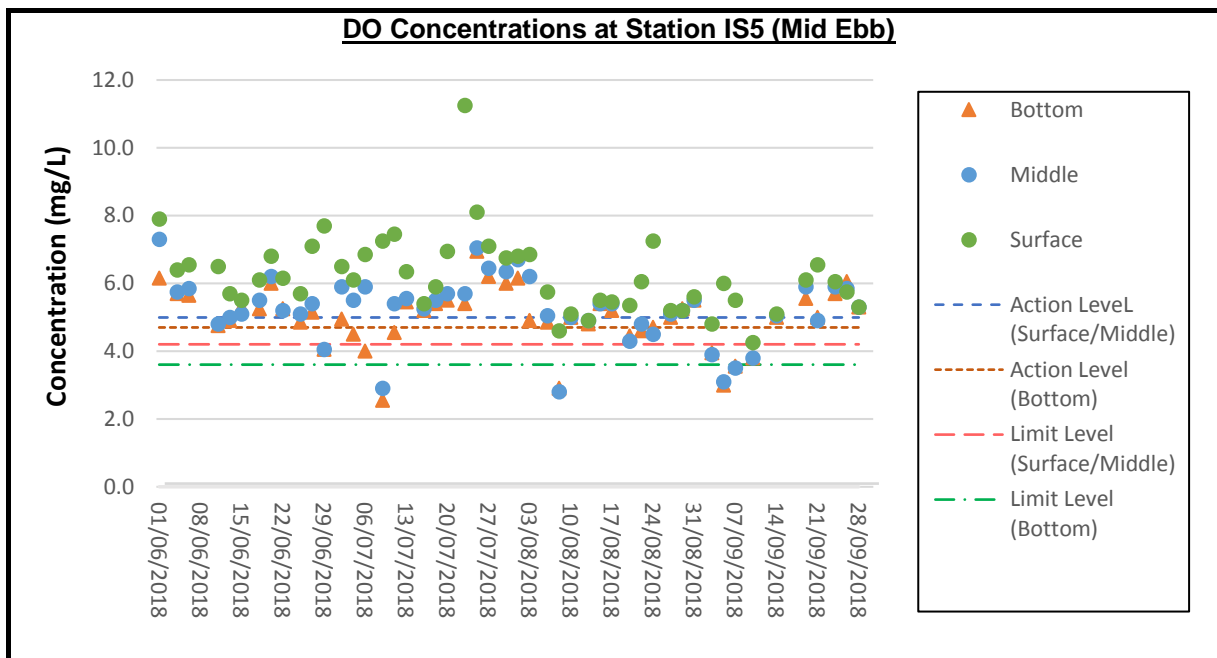
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Water Quality Monitoring Data

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	2018-09-28	Mid-Flood	Fine	IS(Mf)9	9:24:00	2.5	Bottom	3	2	28.20	7.60	22.00	75.8	5.20	10.6	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00	1.0	Surface	1	1	28.20	7.70	21.90	77.5	5.40	7.1	6.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00	1.0	Surface	1	2	28.20	7.60	22.00	77.5	5.40	6.9	6.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00	2.4	Bottom	3	1	28.20	7.70	22.00	78.1	5.40	7.3	8.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS7	9:32:00	2.4	Bottom	3	2	28.20	7.60	22.10	77.9	5.40	7.2	8.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)6	9:39:00	1.0	Surface	1	1	28.10	7.60	22.00	77.7	5.40	6.2	4.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)6	9:39:00	1.0	Surface	1	2	28.20	7.70	22.10	77.7	5.40	6.1	4.3	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)6	9:39:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)6	9:39:00	2.2	Bottom	3	1	28.10	7.60	22.10	78.5	5.40	7.5	6.0	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS(Mf)6	9:39:00	2.2	Bottom	3	2	28.20	7.60	22.20	78.3	5.40	7.6	5.7	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	1.0	Surface	1	1	28.20	7.60	22.10	77.2	5.30	6.2	6.1	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	1.0	Surface	1	2	28.30	7.70	22.20	77.4	5.30	6.1	6.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	4.8	Middle	2	1	28.20	7.60	22.30	75.2	5.20	6.6	7.8	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	4.8	Middle	2	2	28.20	7.60	22.30	75.3	5.20	6.8	8.4	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	8.6	Bottom	3	1	28.20	7.60	22.80	75.2	5.20	10.8	8.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	IS5	9:45:00	8.6	Bottom	3	2	28.20	7.60	22.90	75.1	5.20	10.9	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00	1.0	Surface	1	1	28.20	7.60	22.20	76.6	5.30	9.9	7.6	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00	1.0	Surface	1	2	28.30	7.60	22.30	76.6	5.30	10.0	7.5	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00		Middle	2	1								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00		Middle	2	2								
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00	3.2	Bottom	3	1	28.20	7.60	22.20	77.9	5.40	10.2	8.9	
HKBCF	HY/2013/01	2018-09-28	Mid-Flood	Fine	SR3(N)	9:54:00	3.2	Bottom	3	2	28.20	7.60	22.30	77.7	5.40	10.6	9.4	

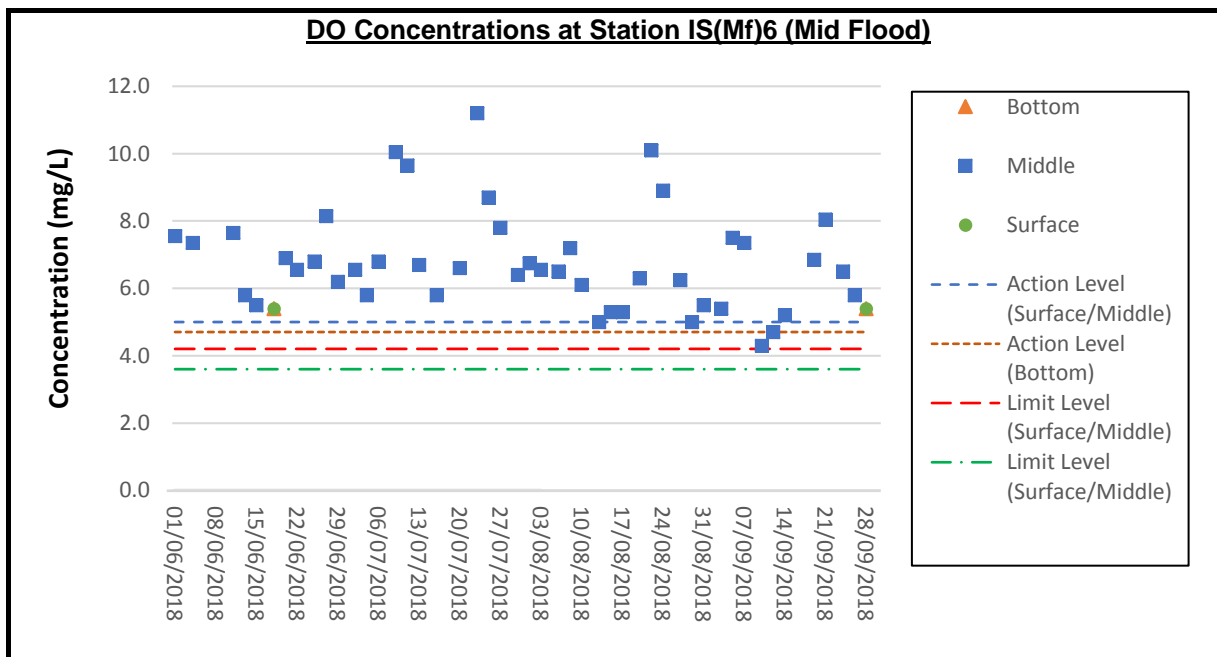
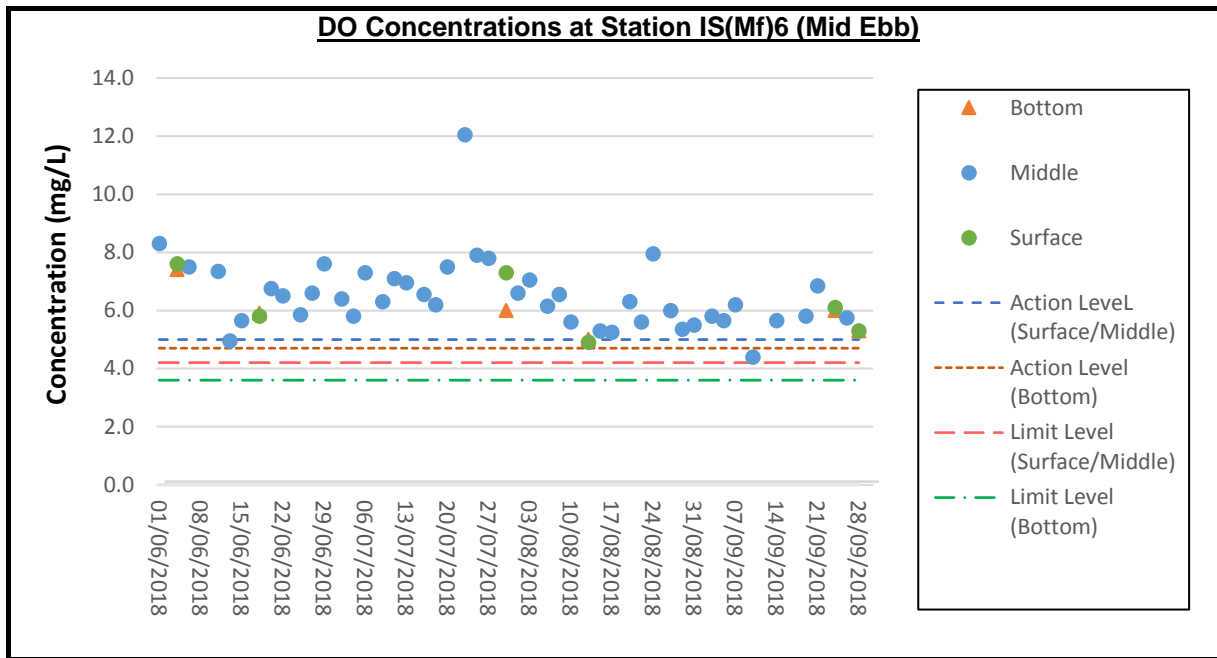
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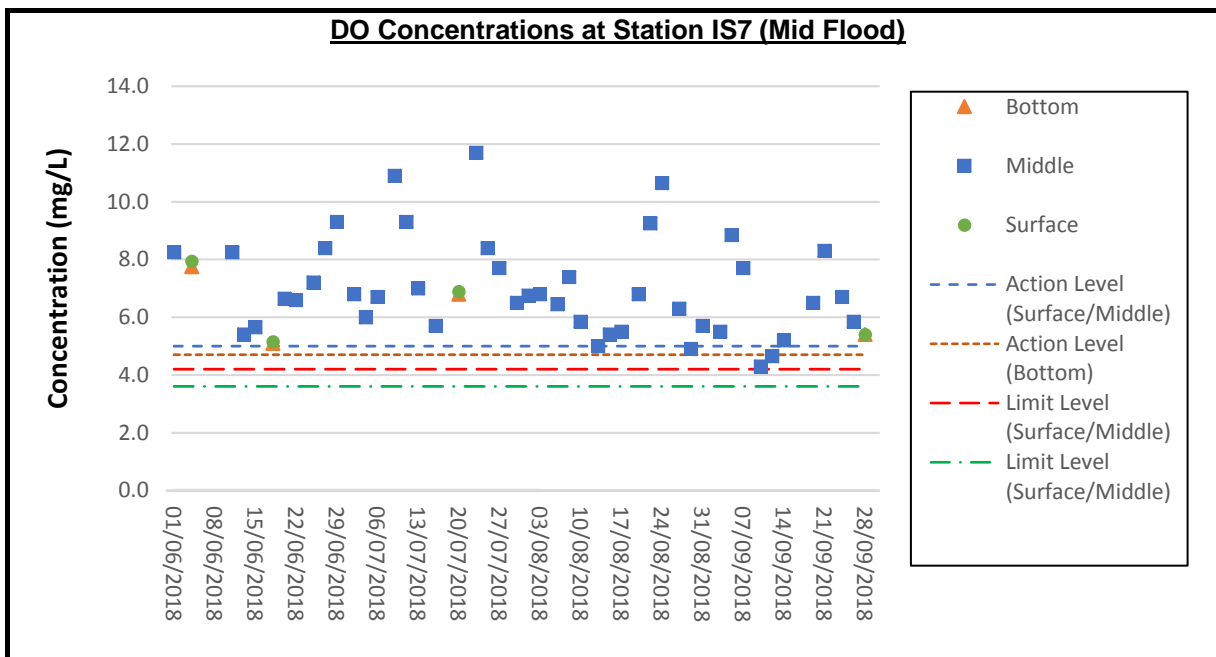
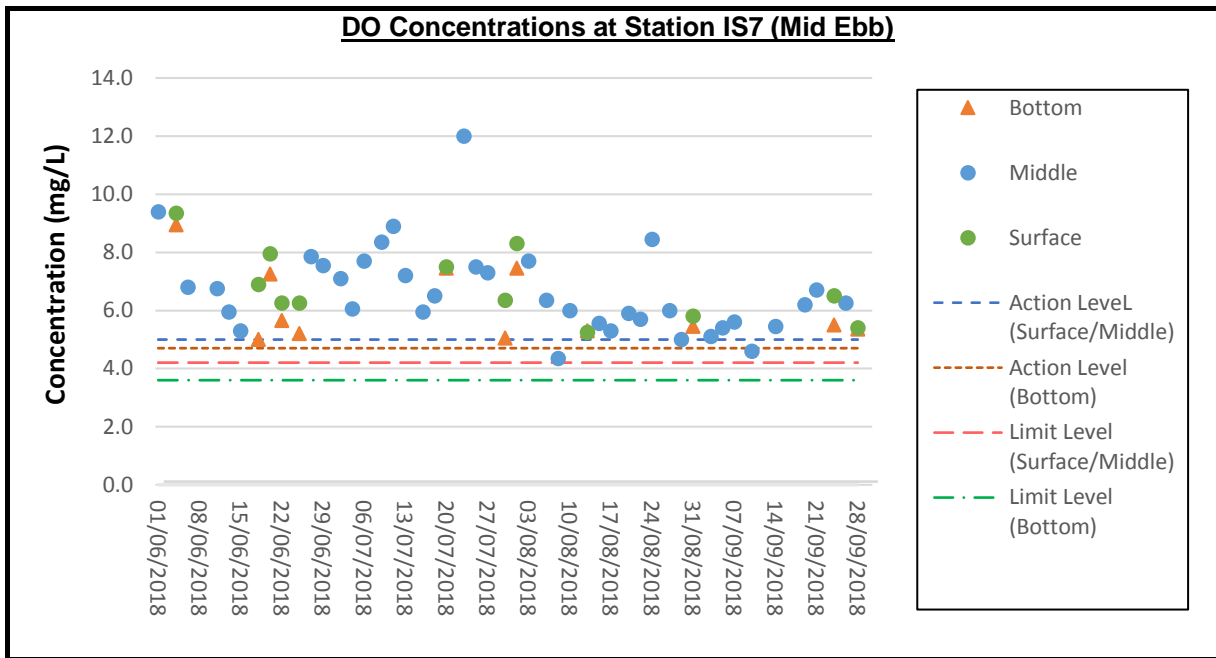
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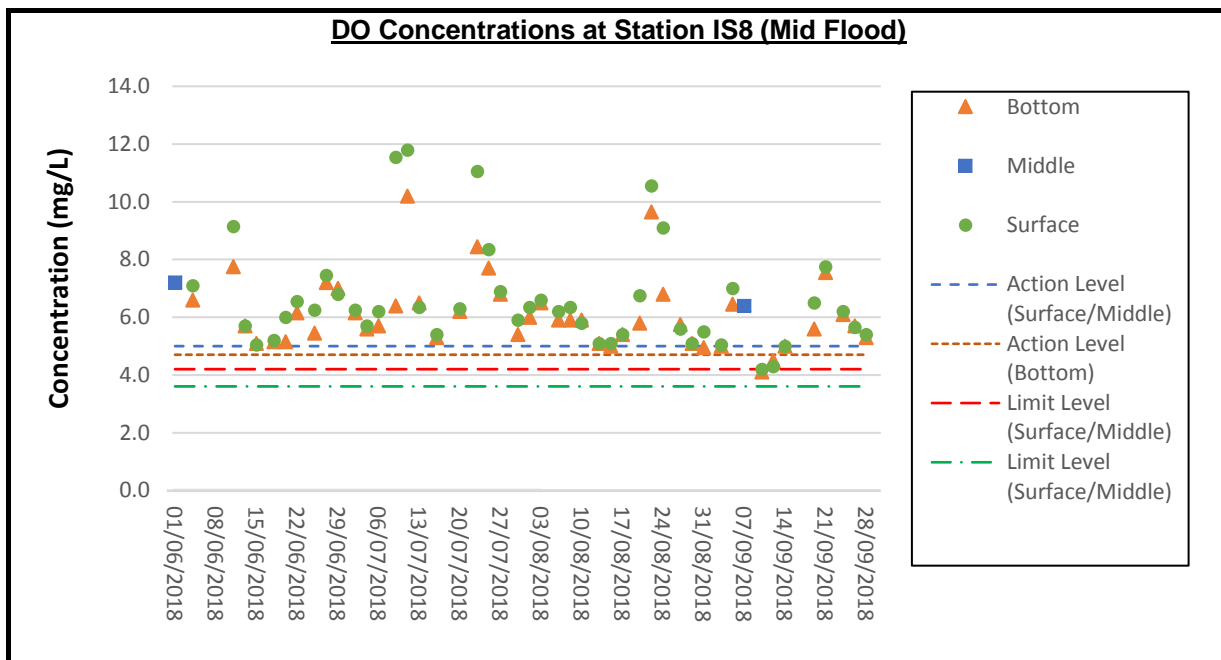
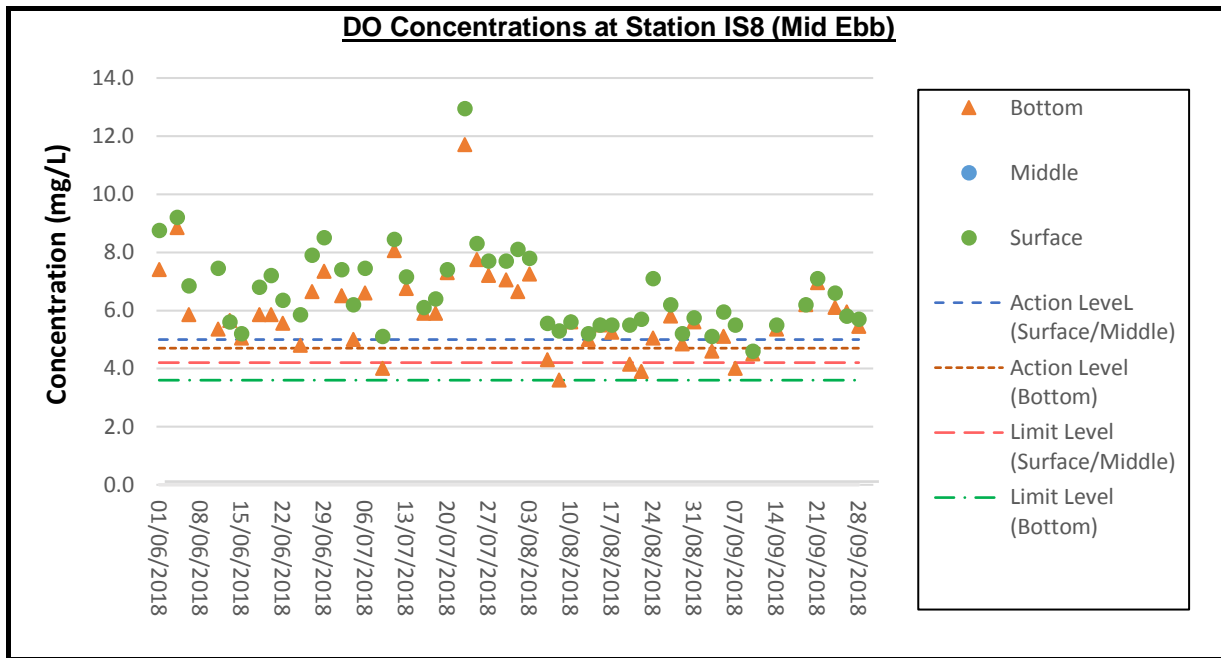
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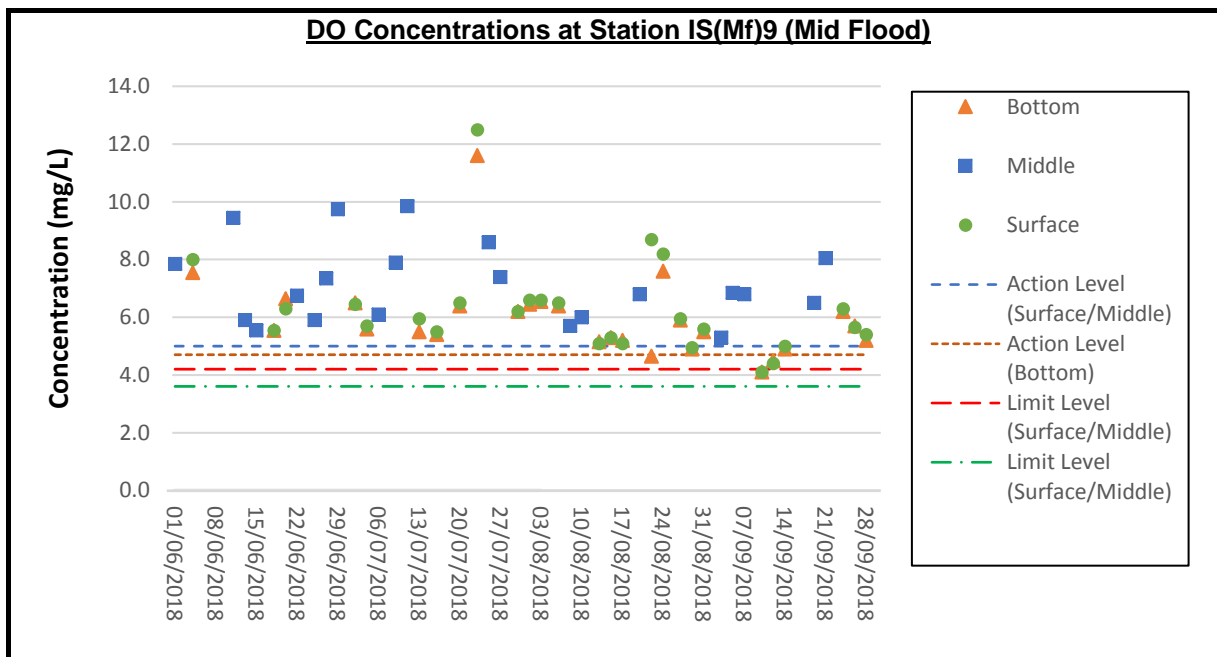
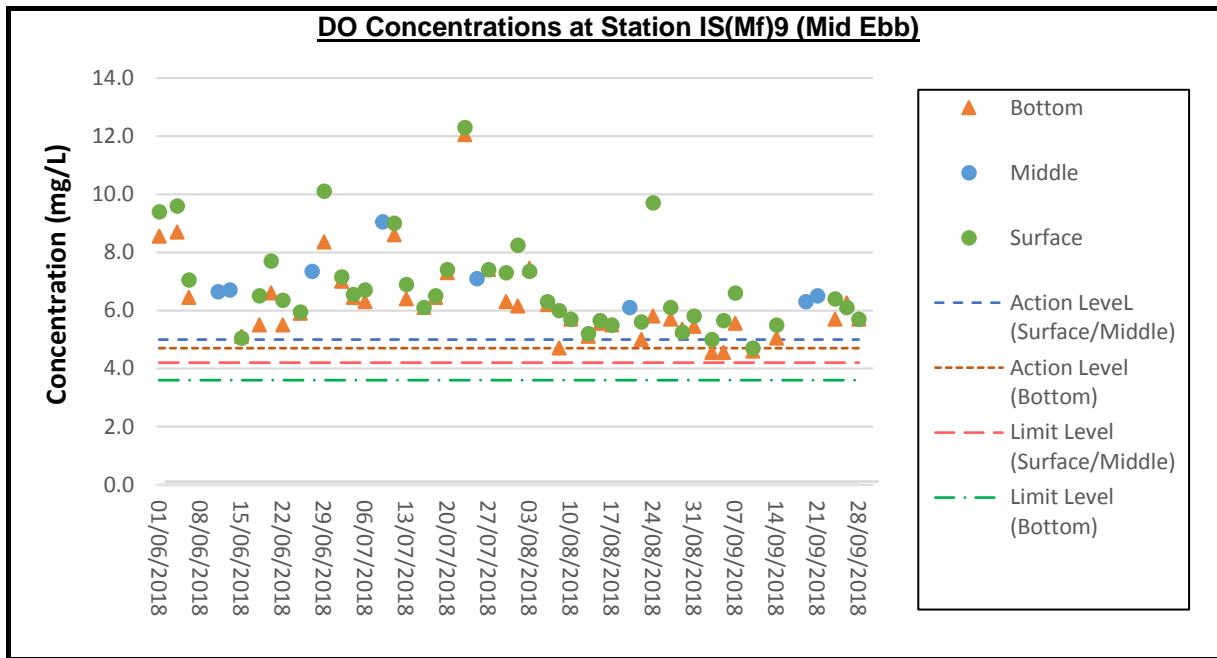
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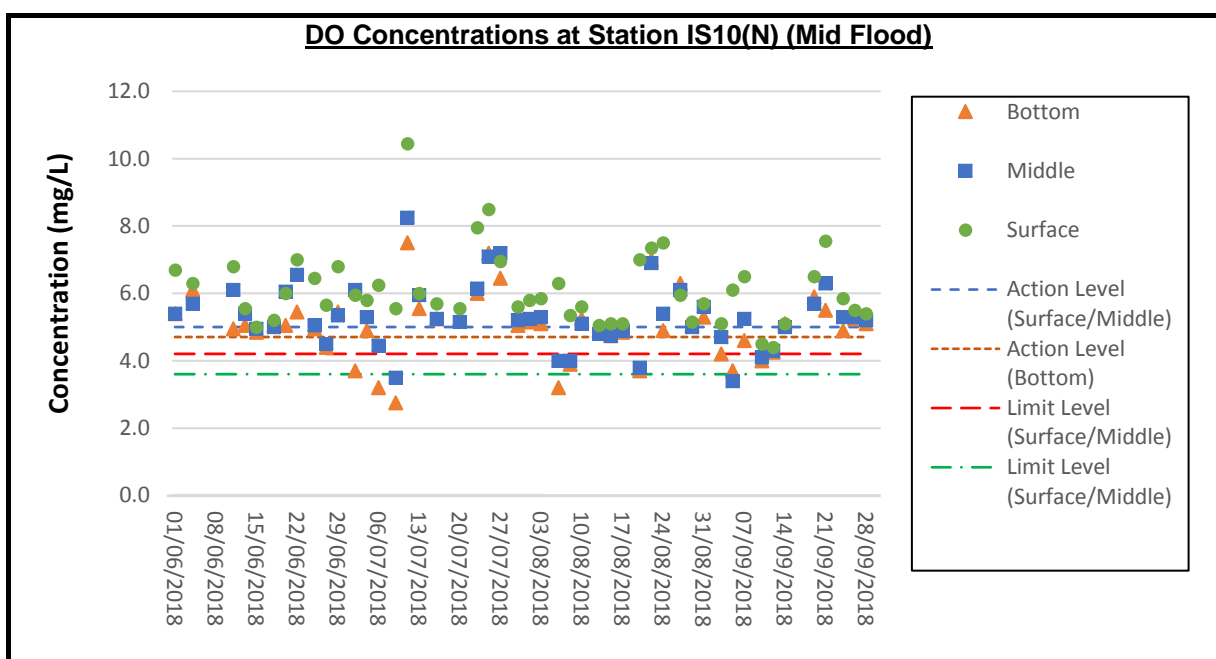
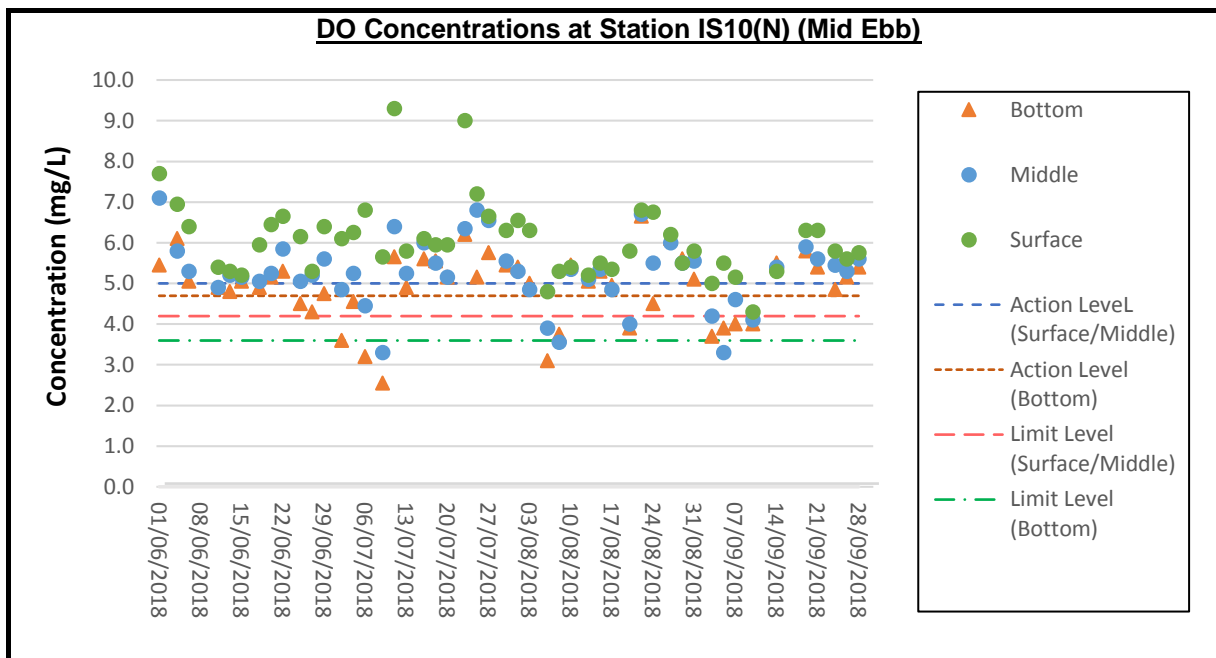
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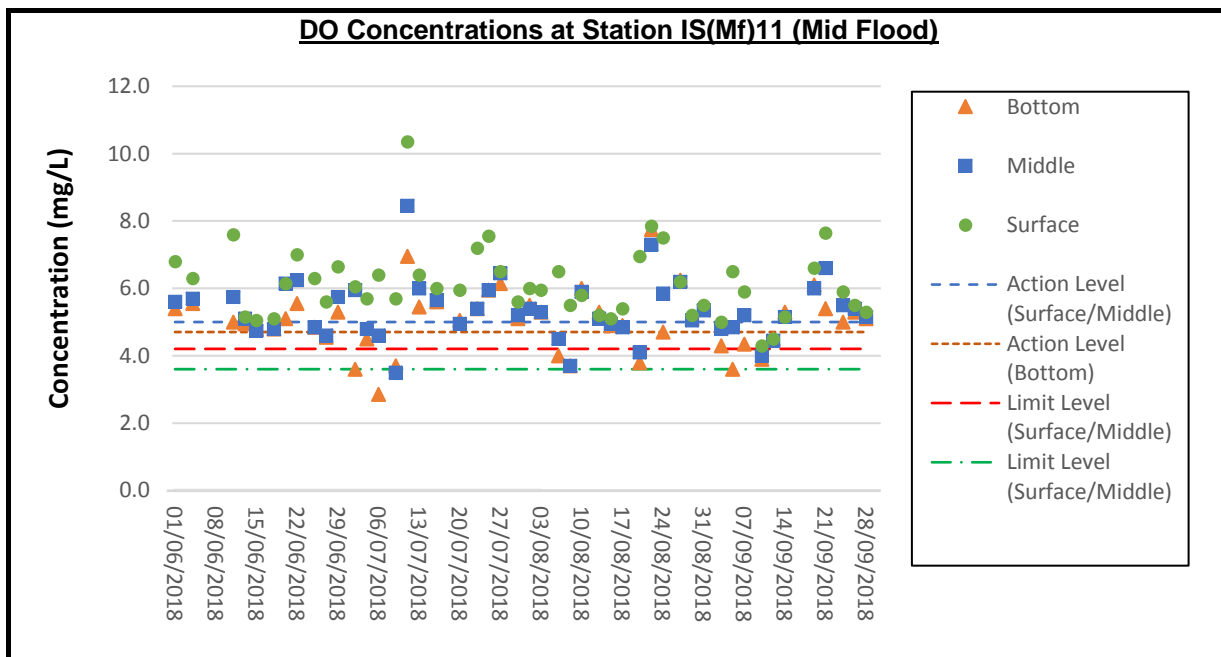
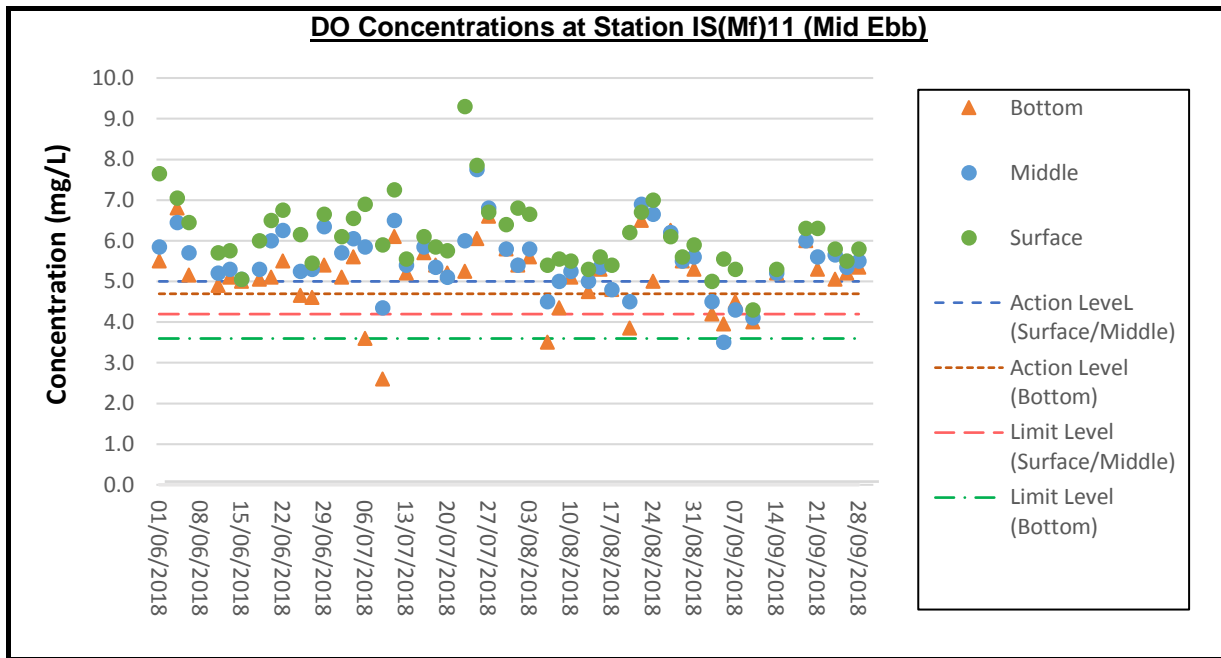
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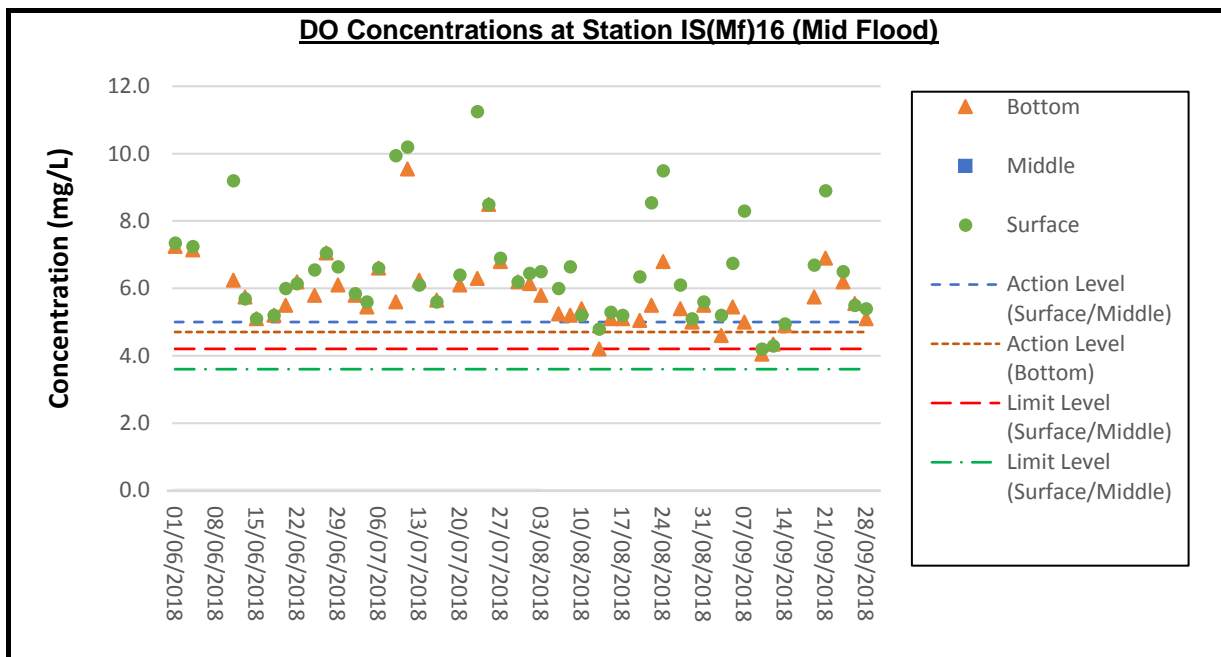
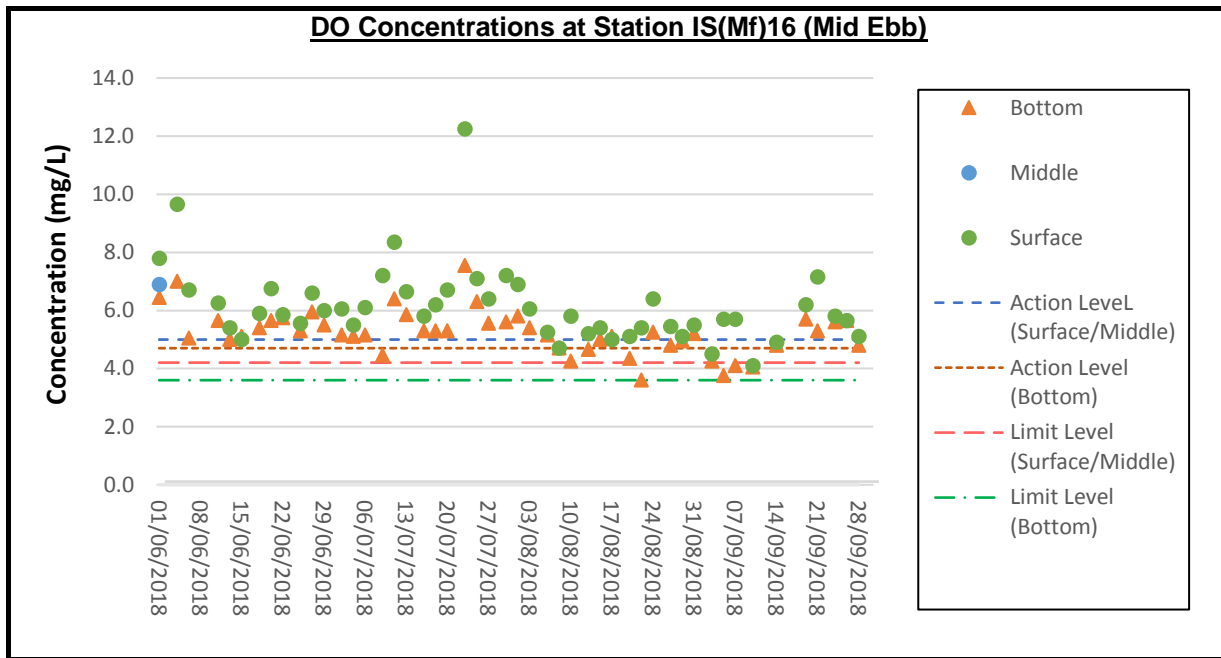
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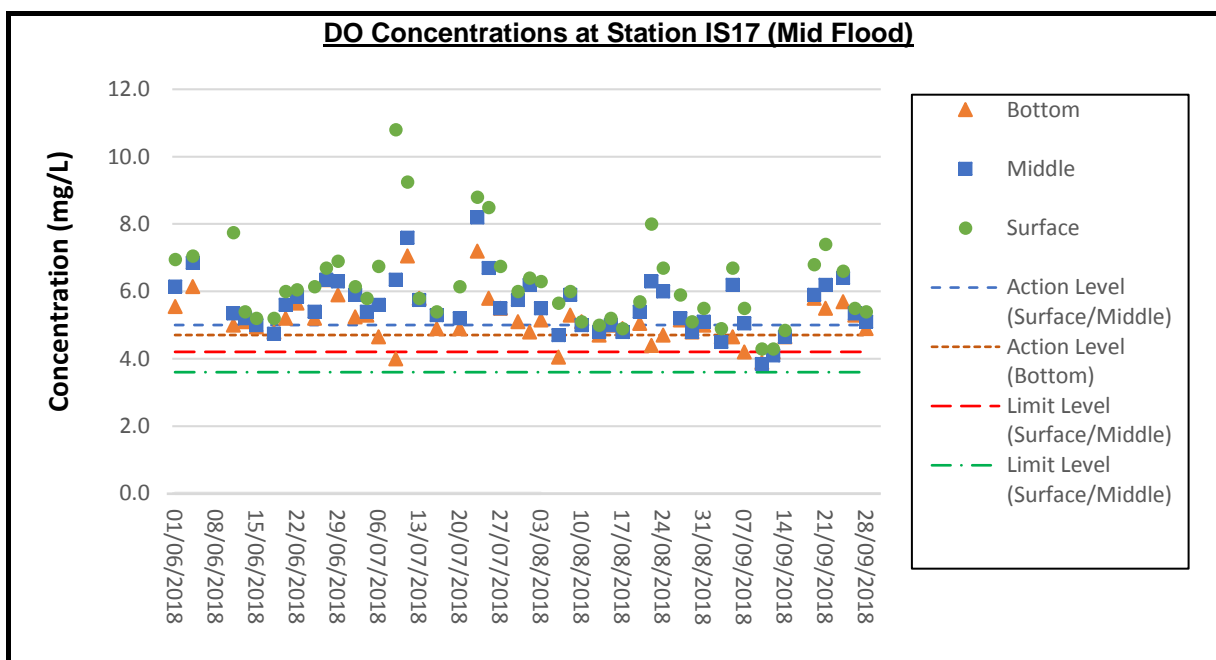
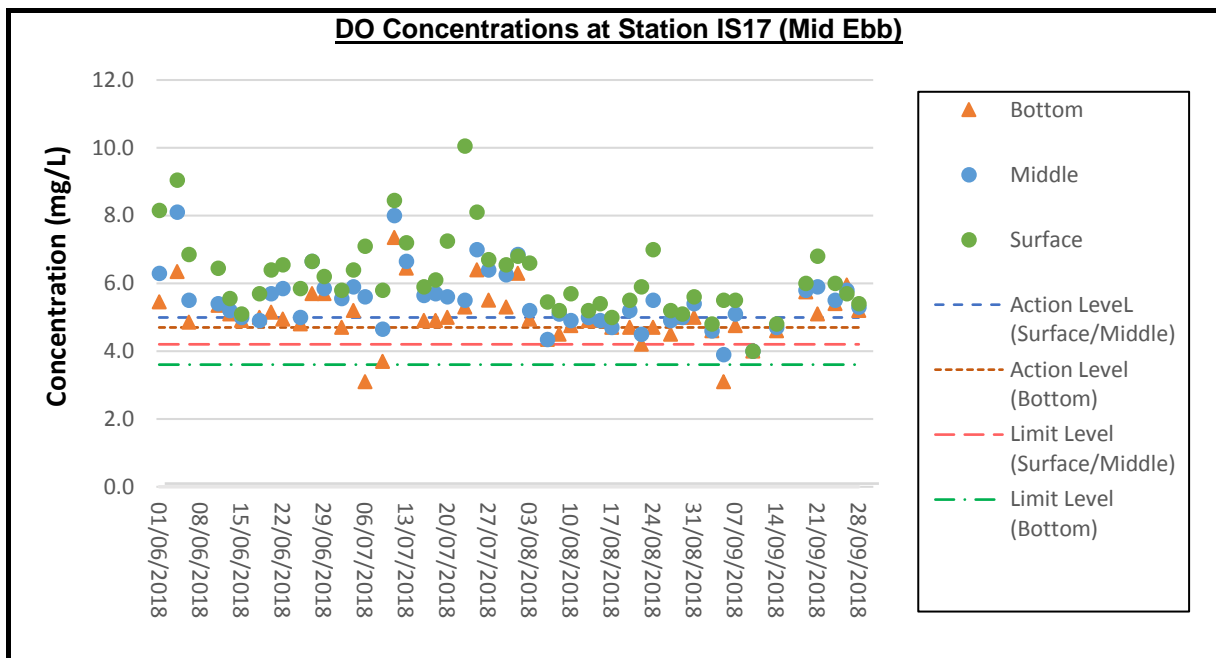
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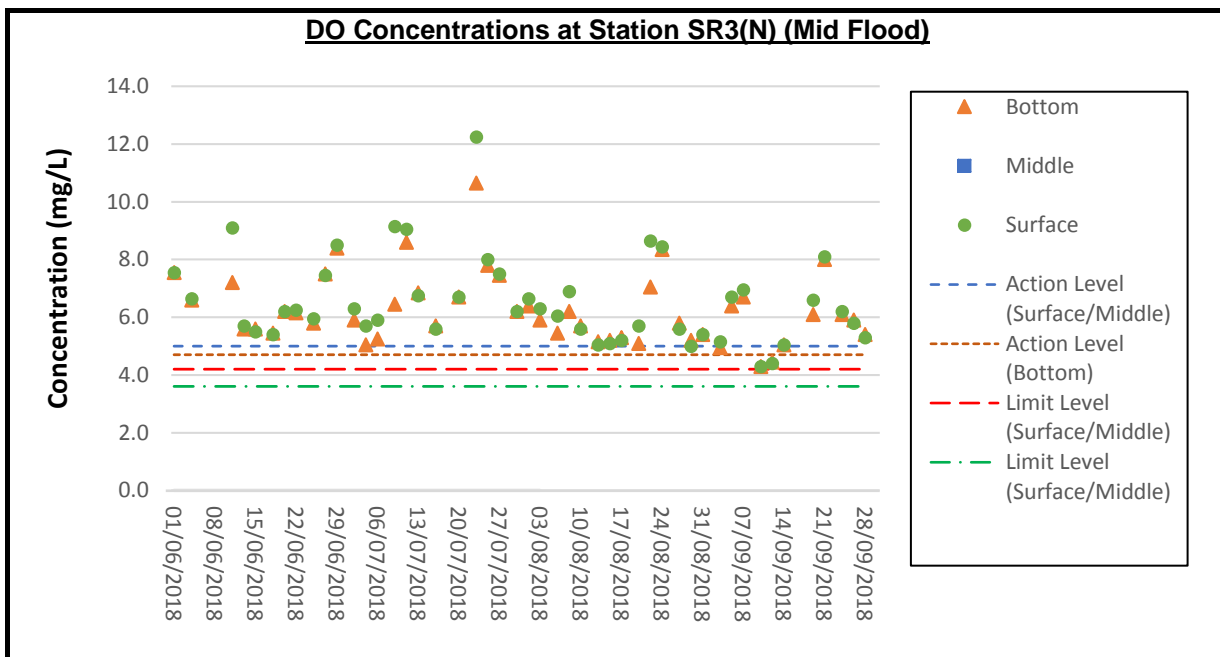
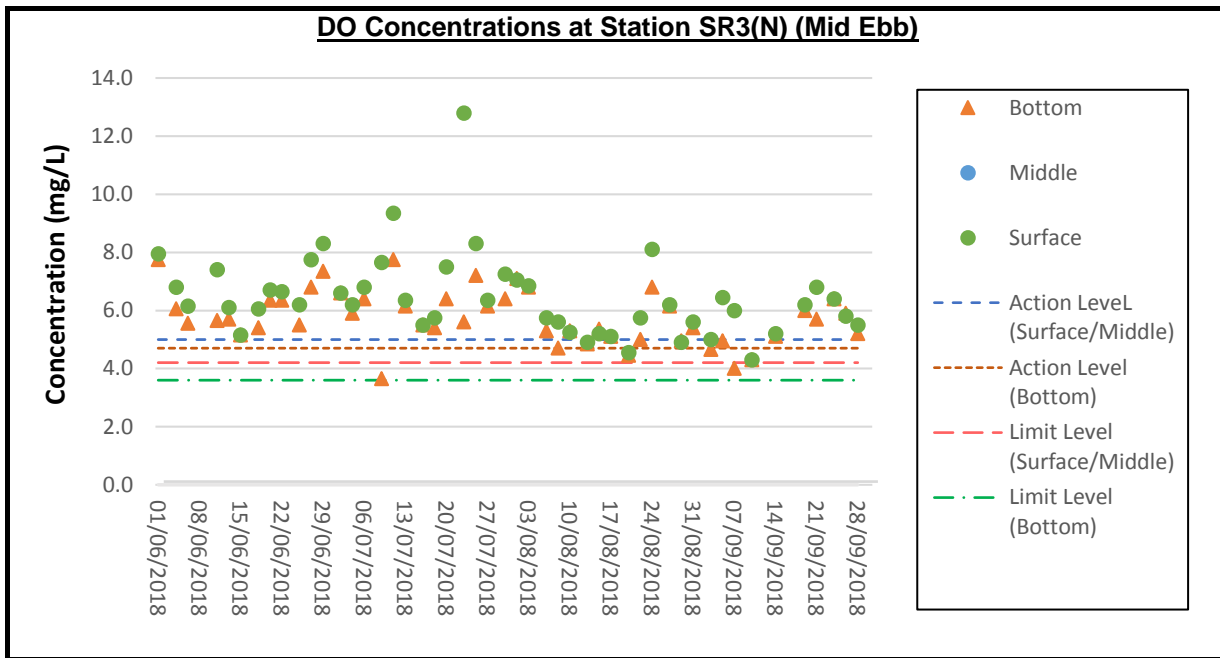
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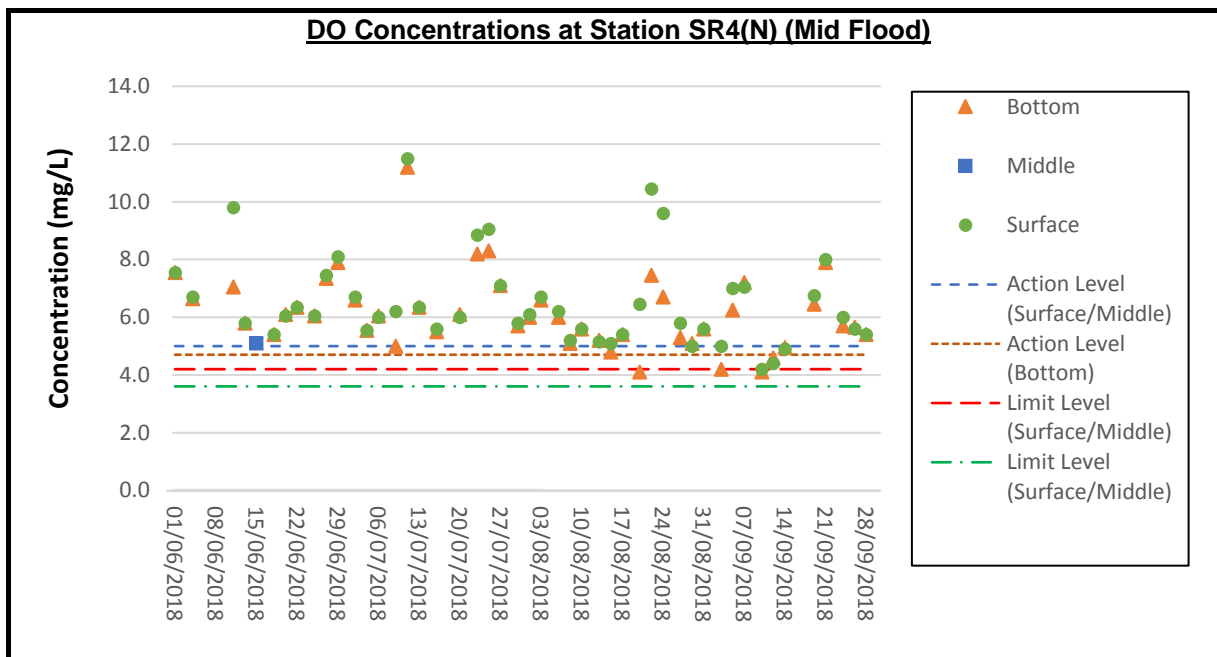
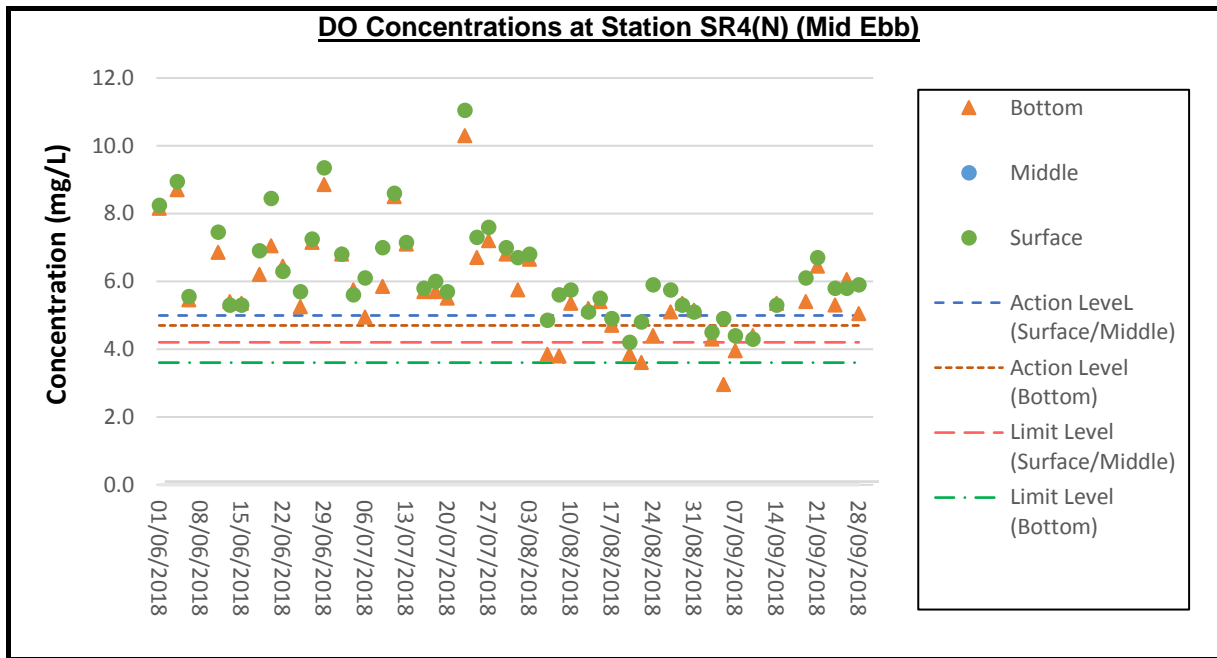
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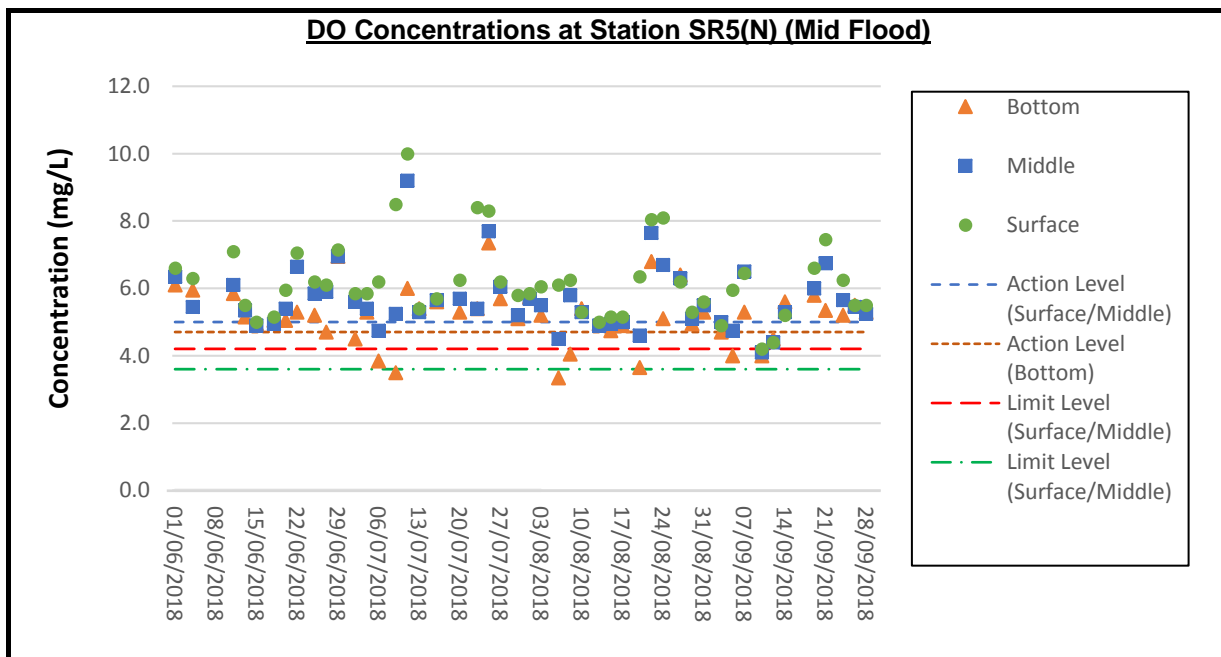
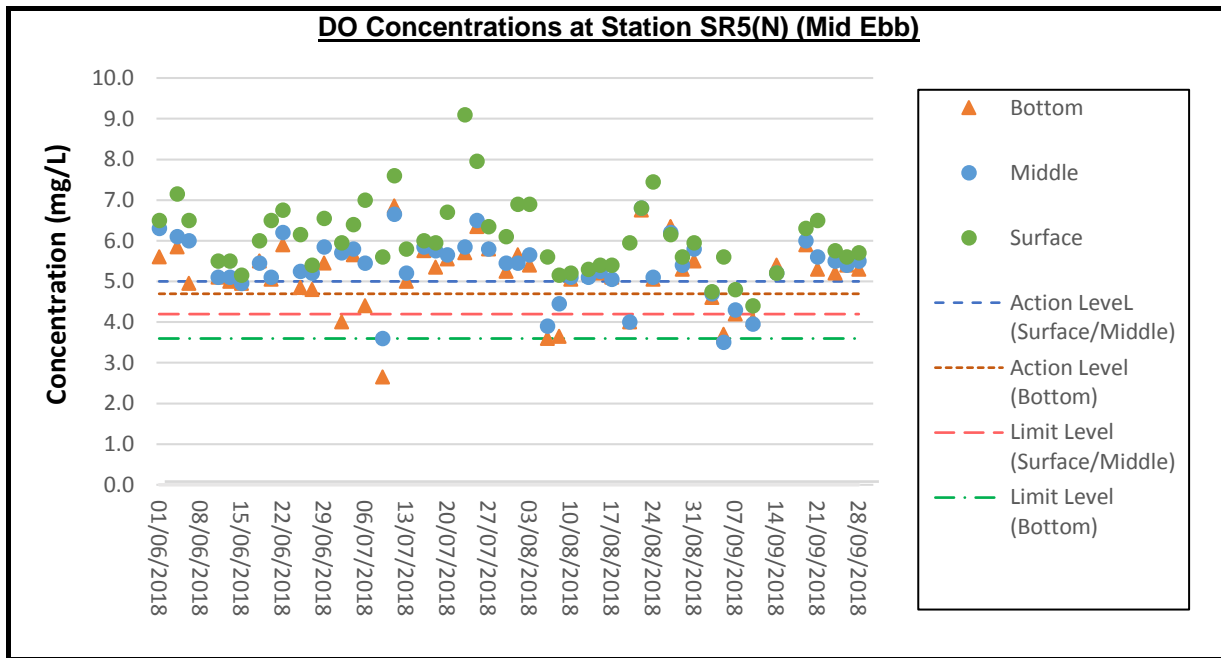
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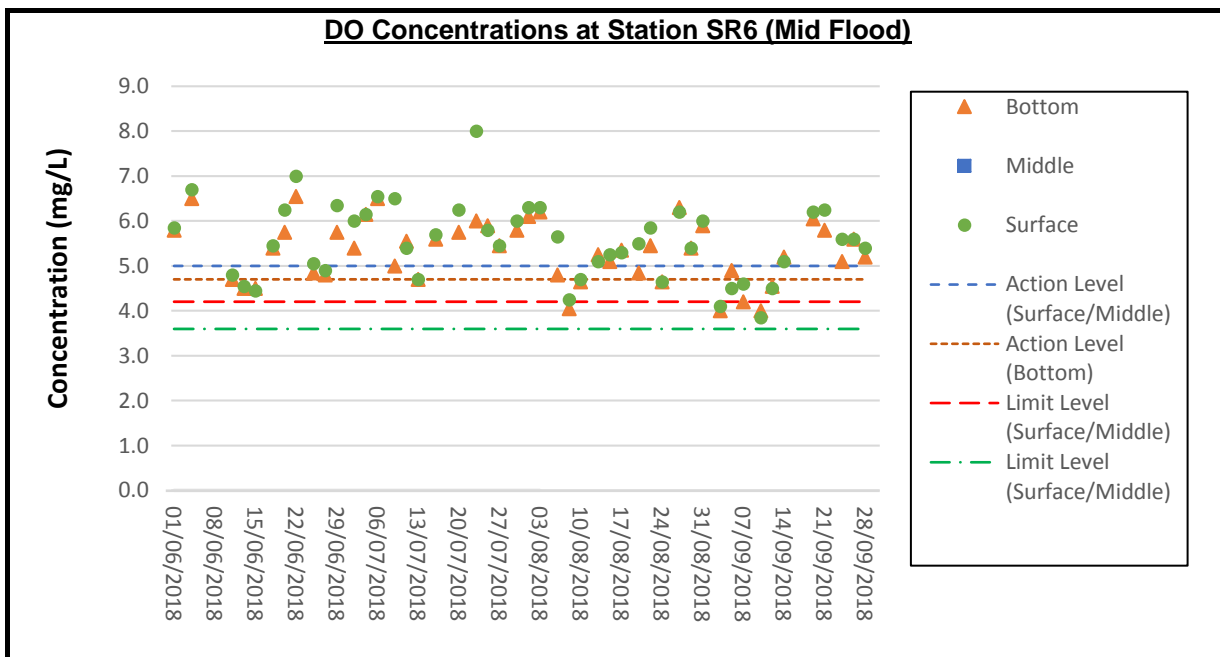
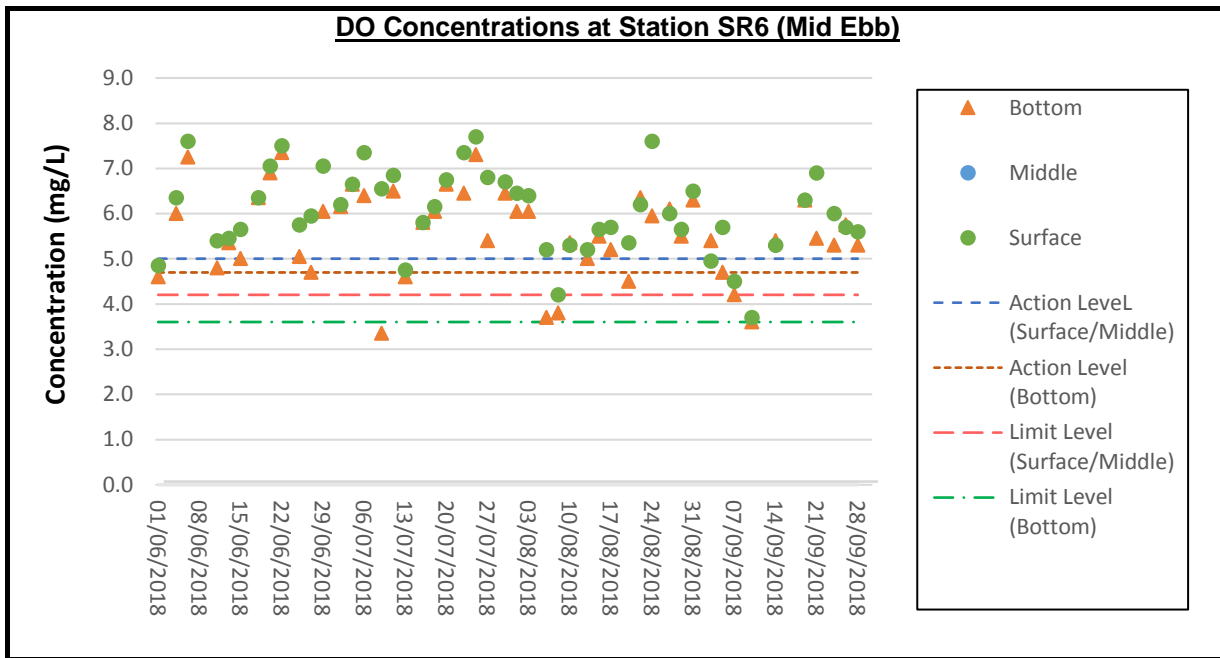
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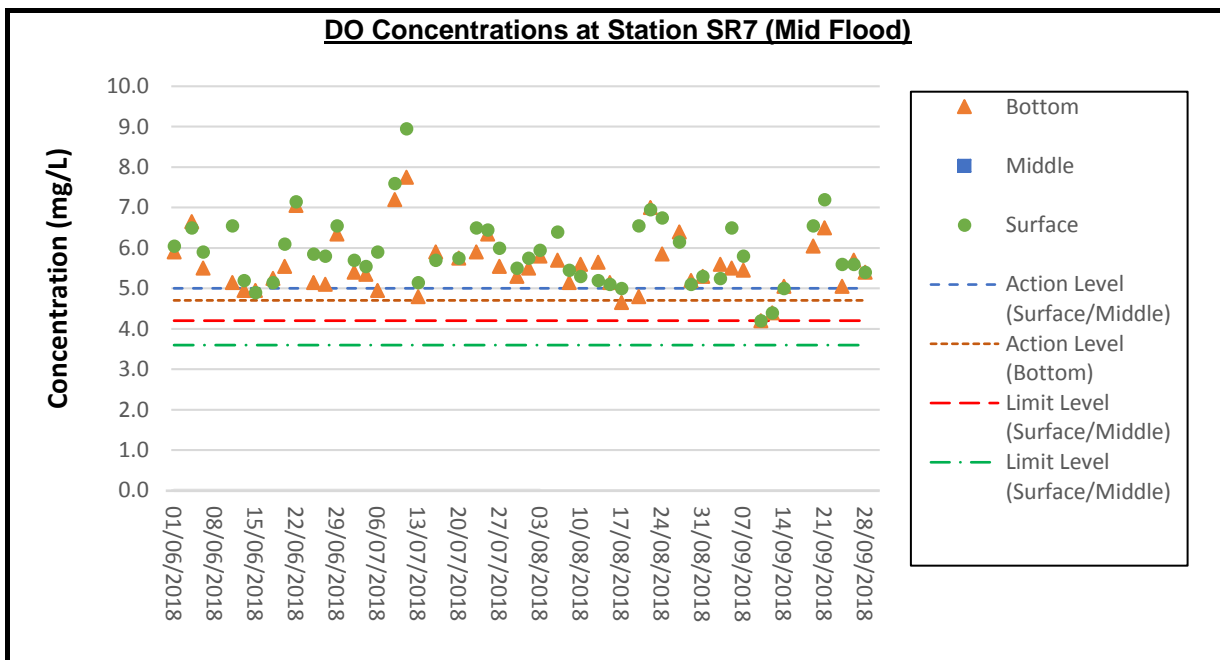
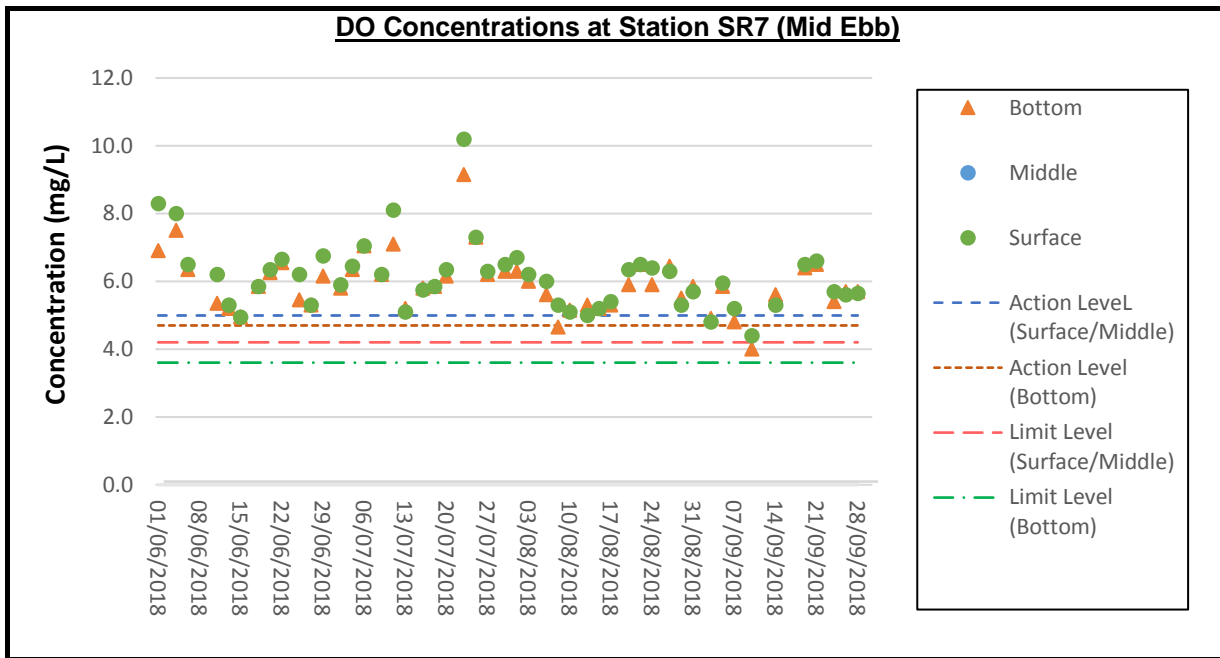
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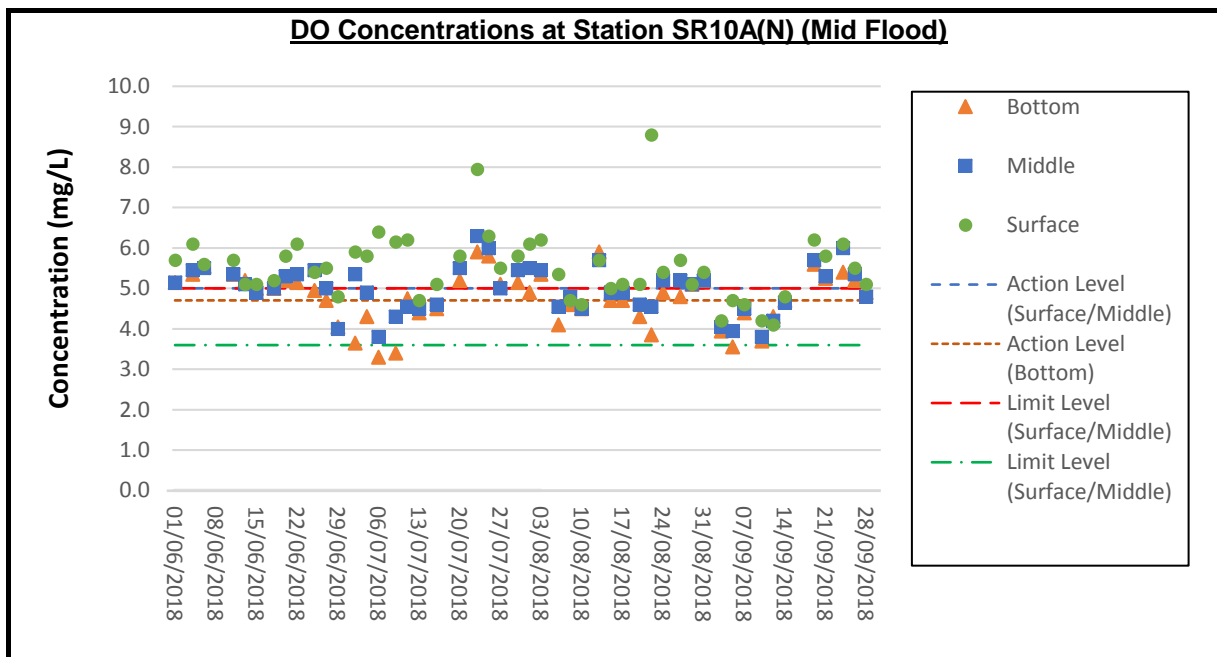
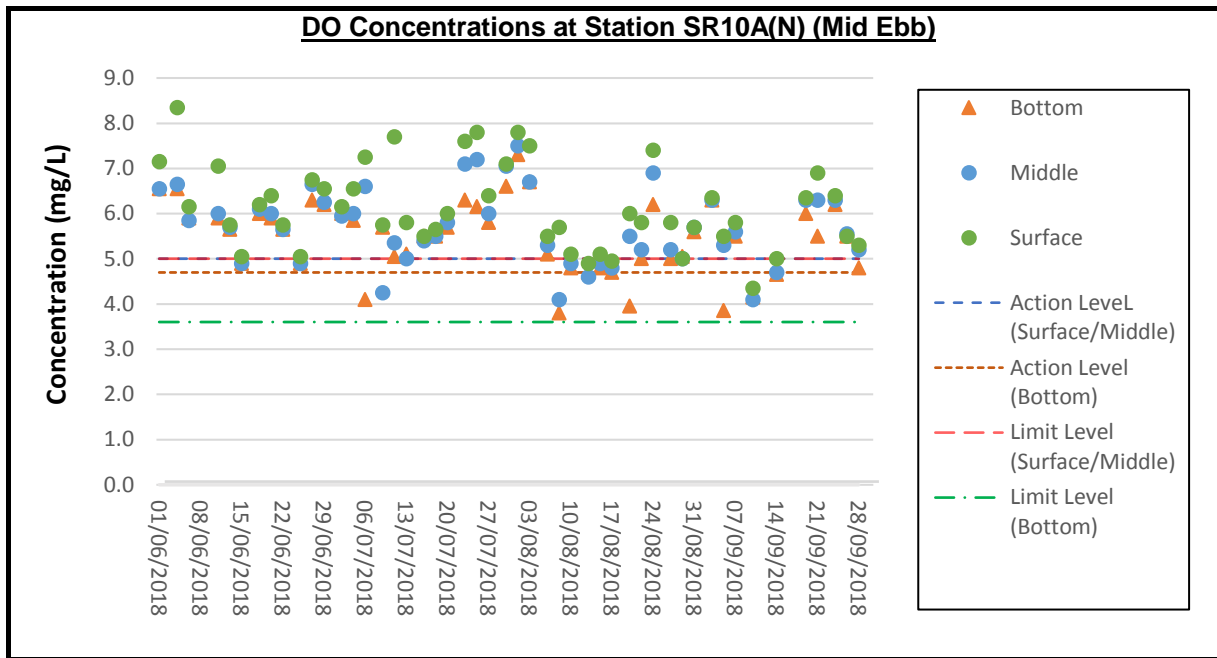
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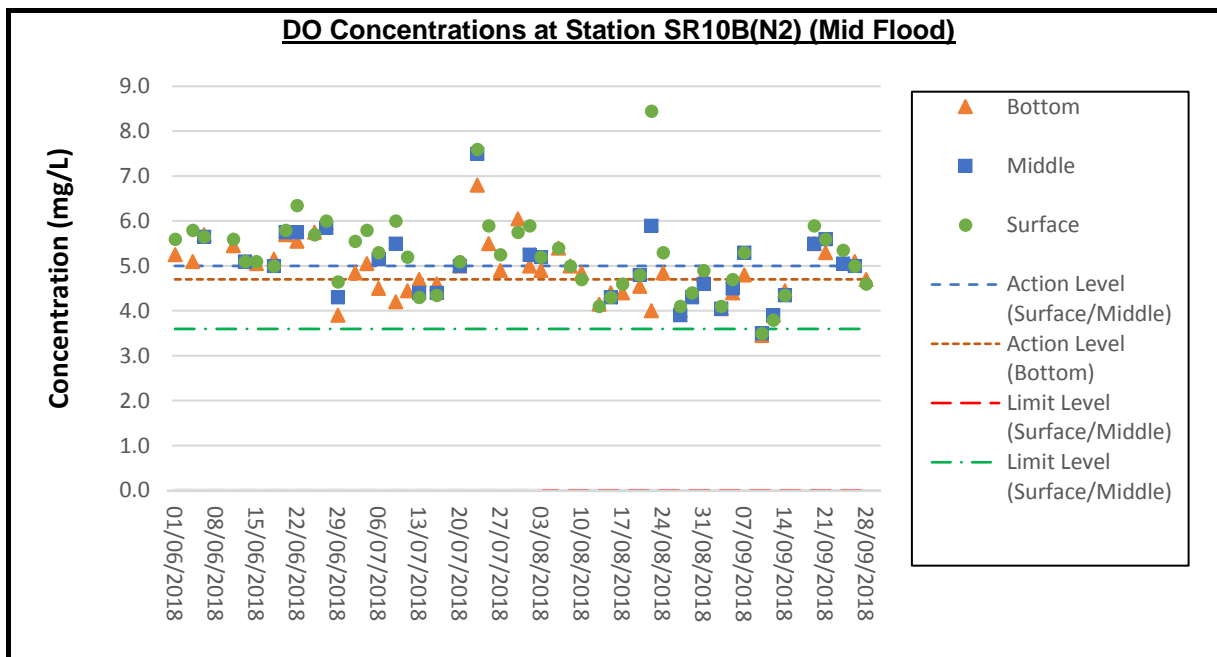
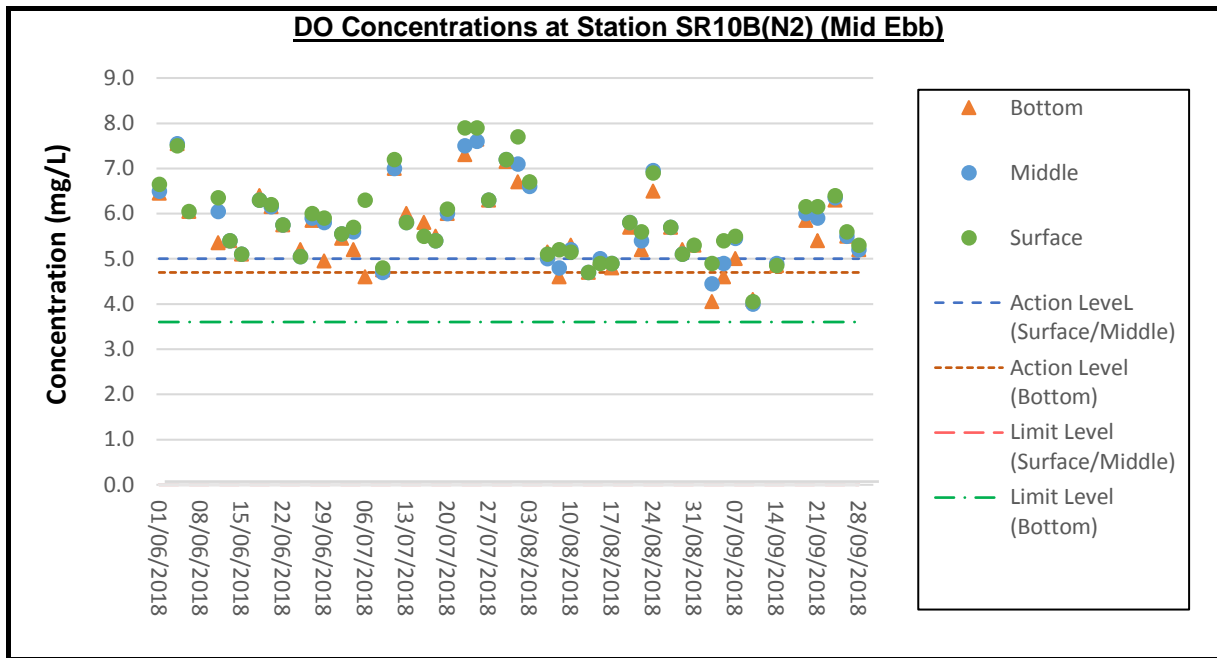
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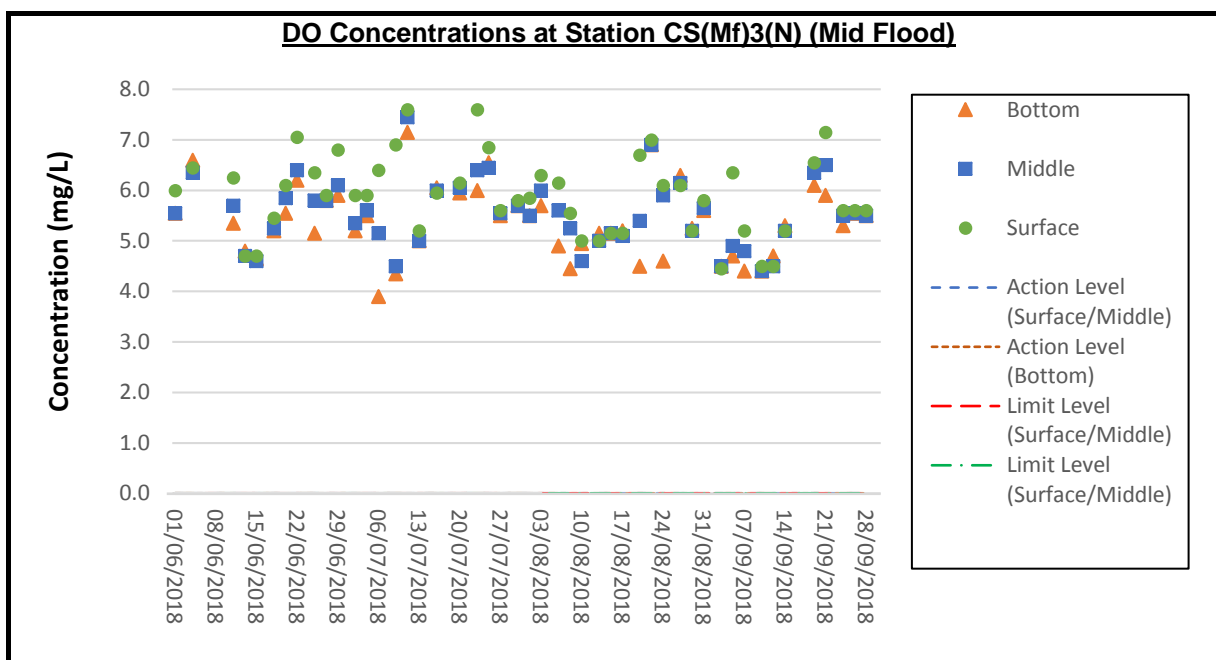
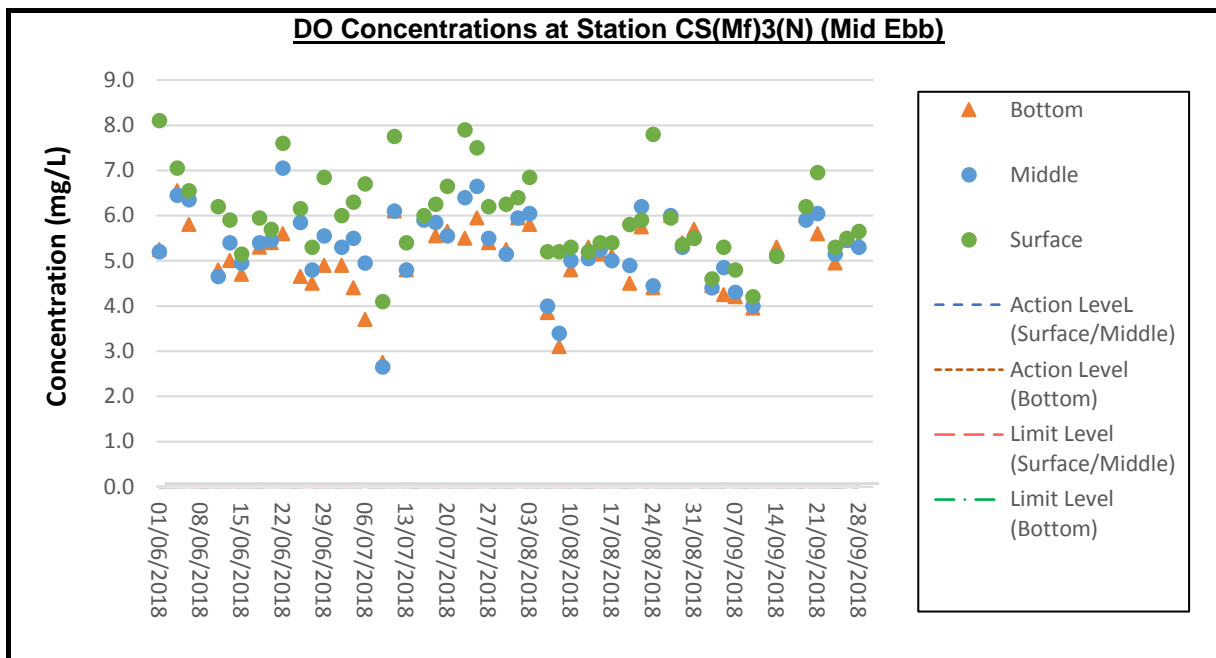
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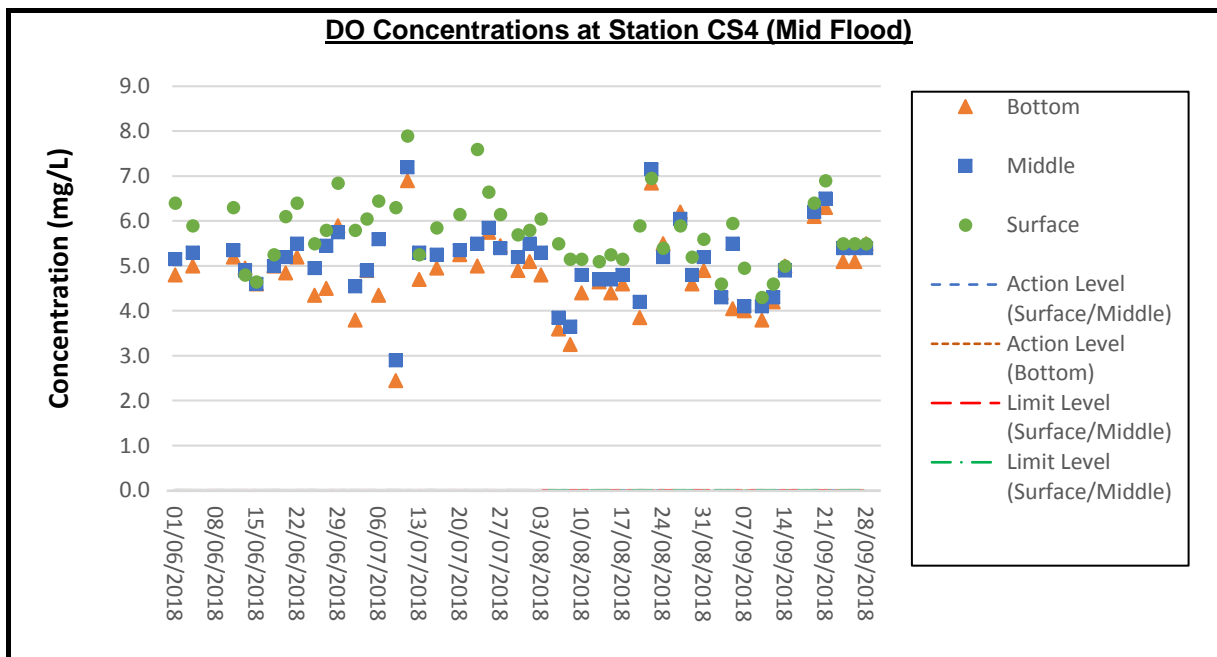
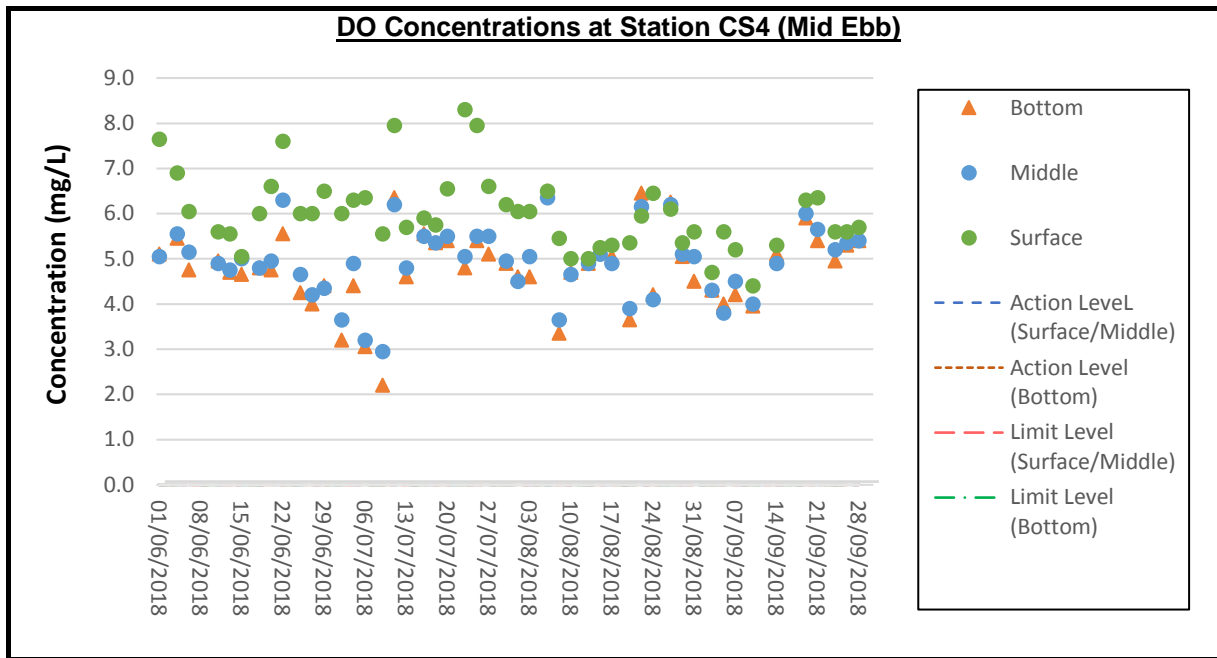
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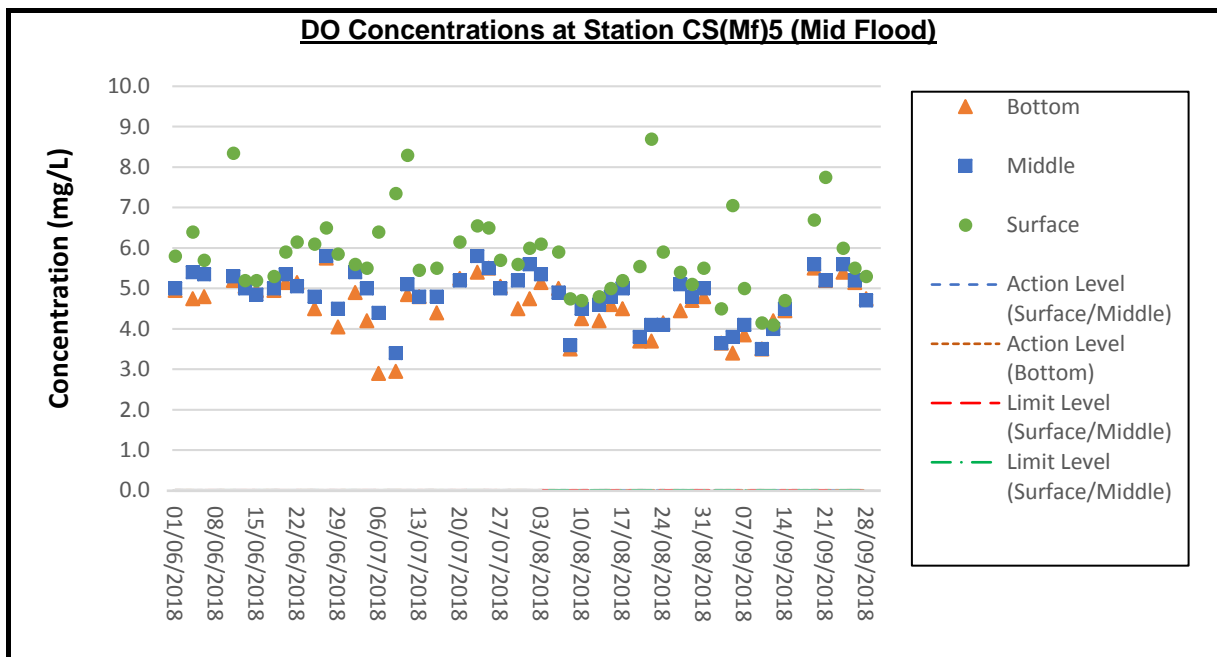
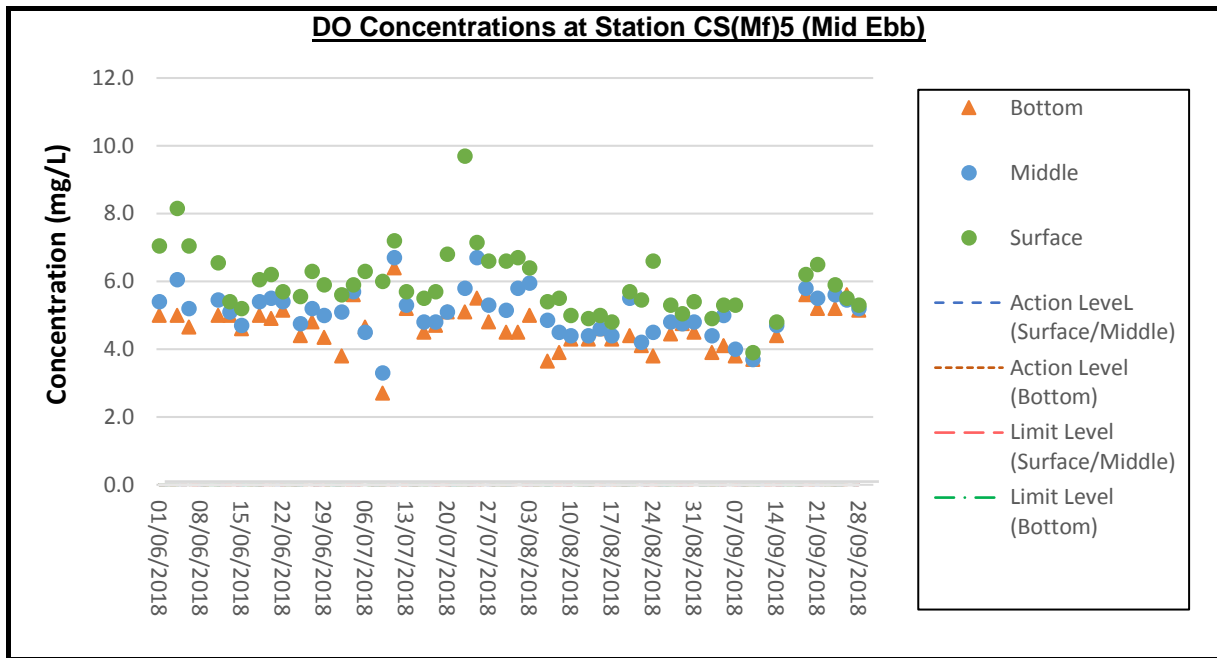
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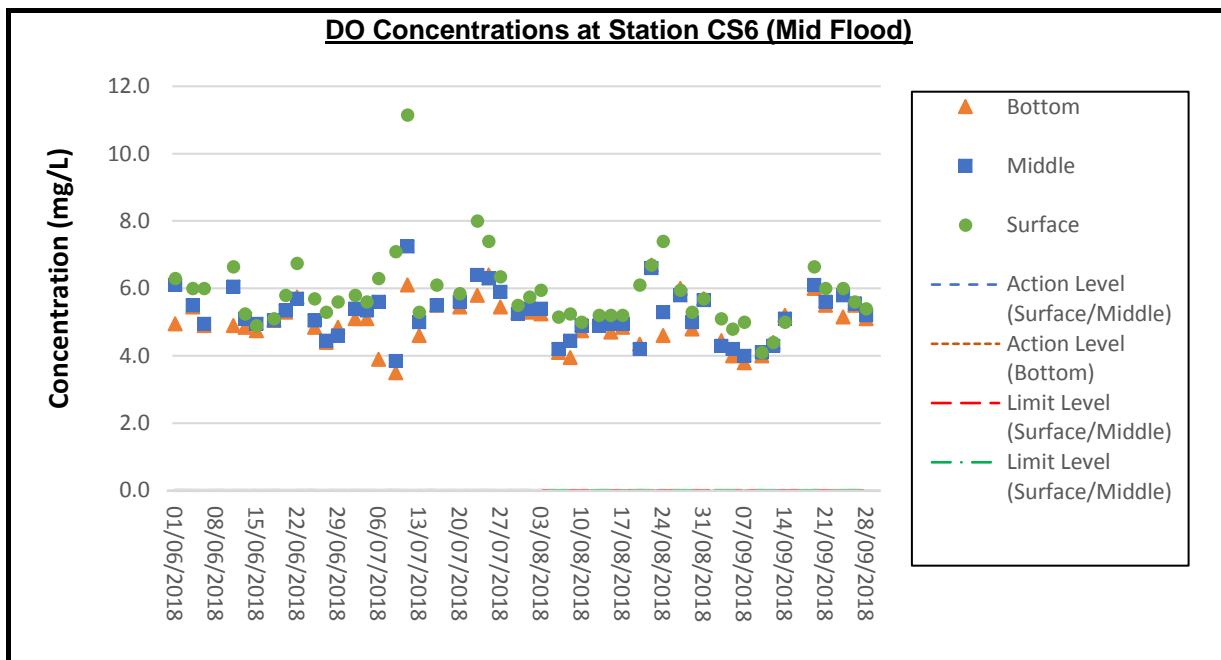
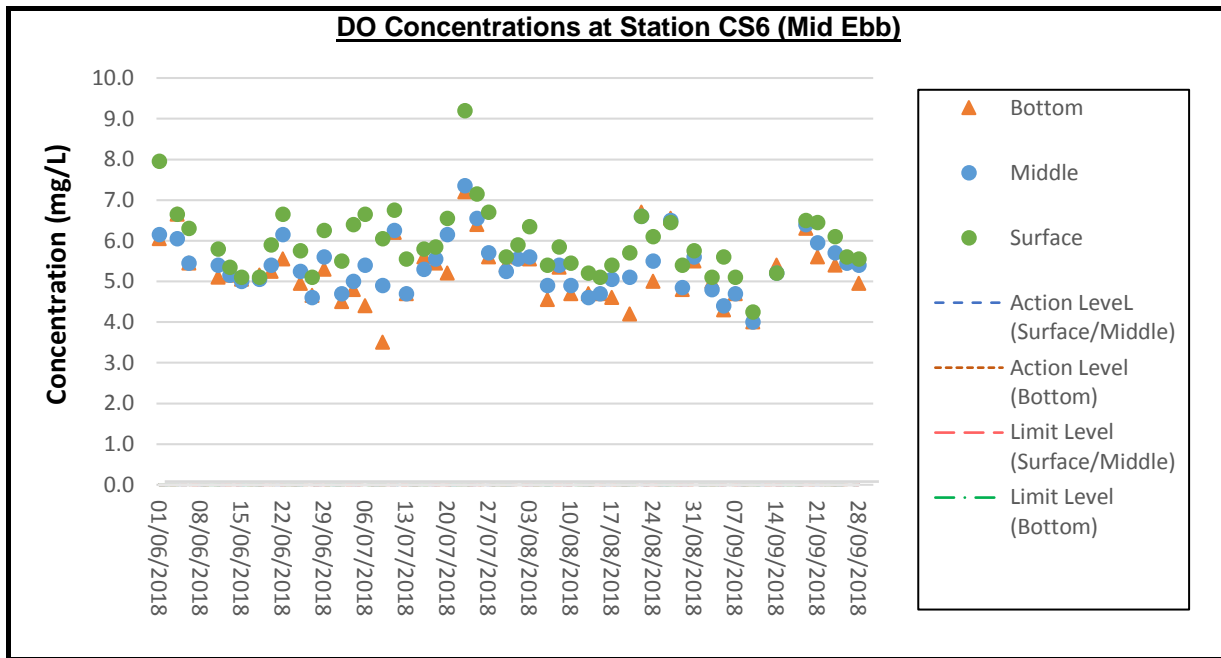
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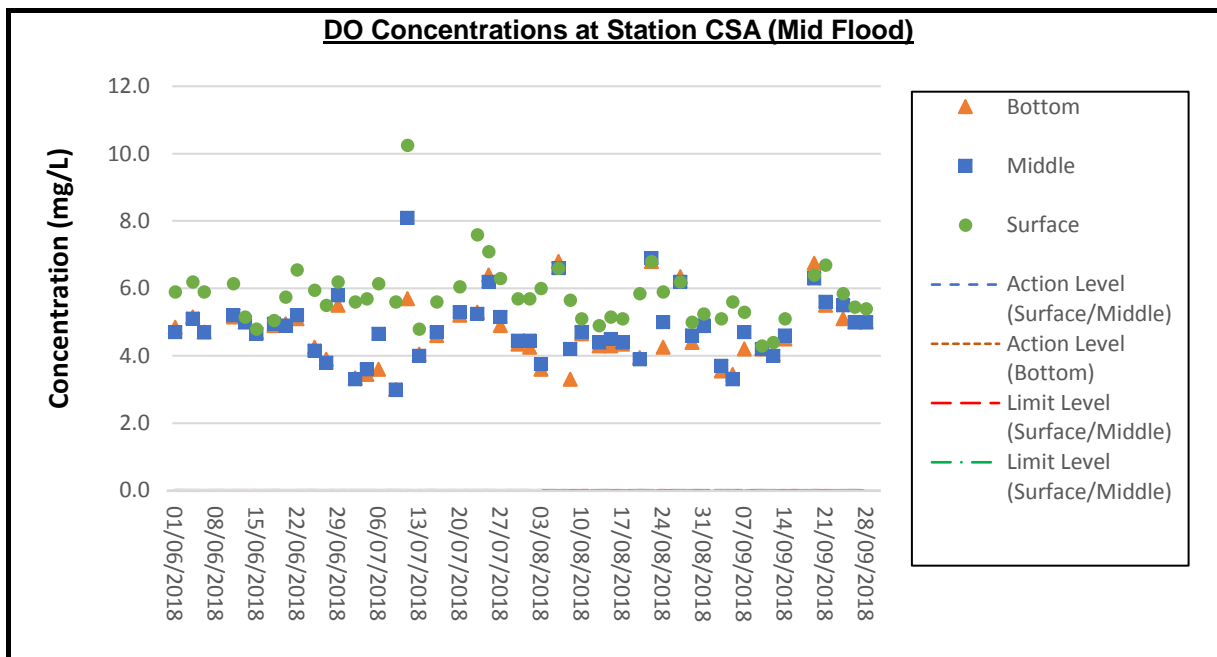
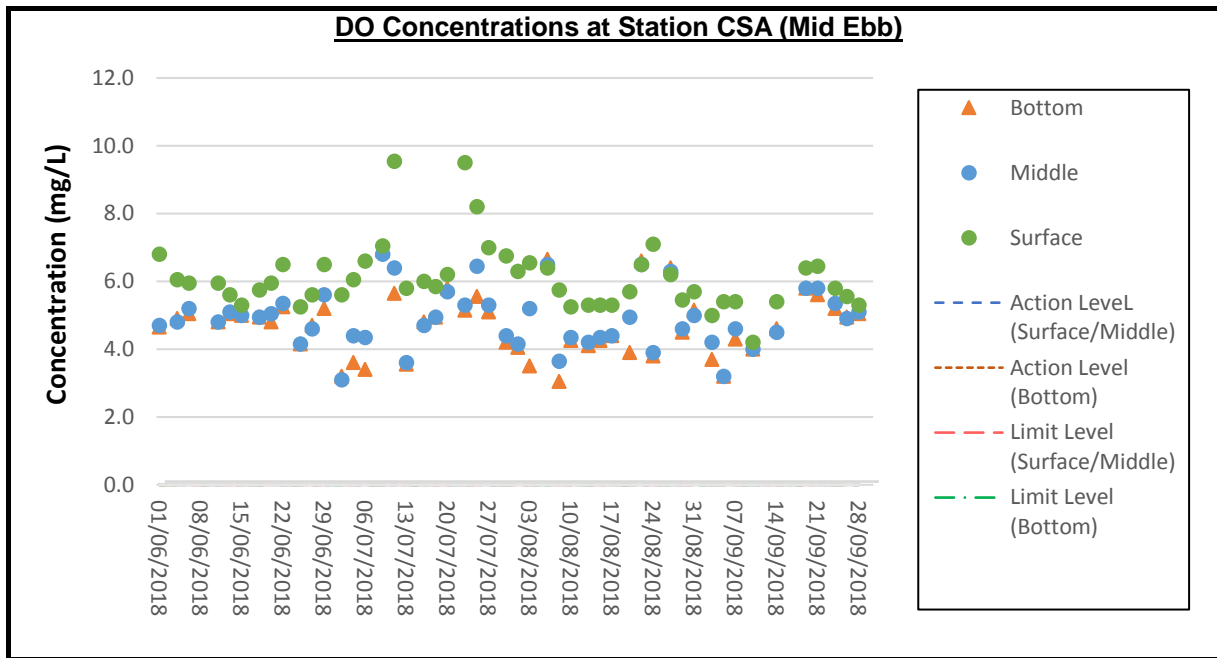
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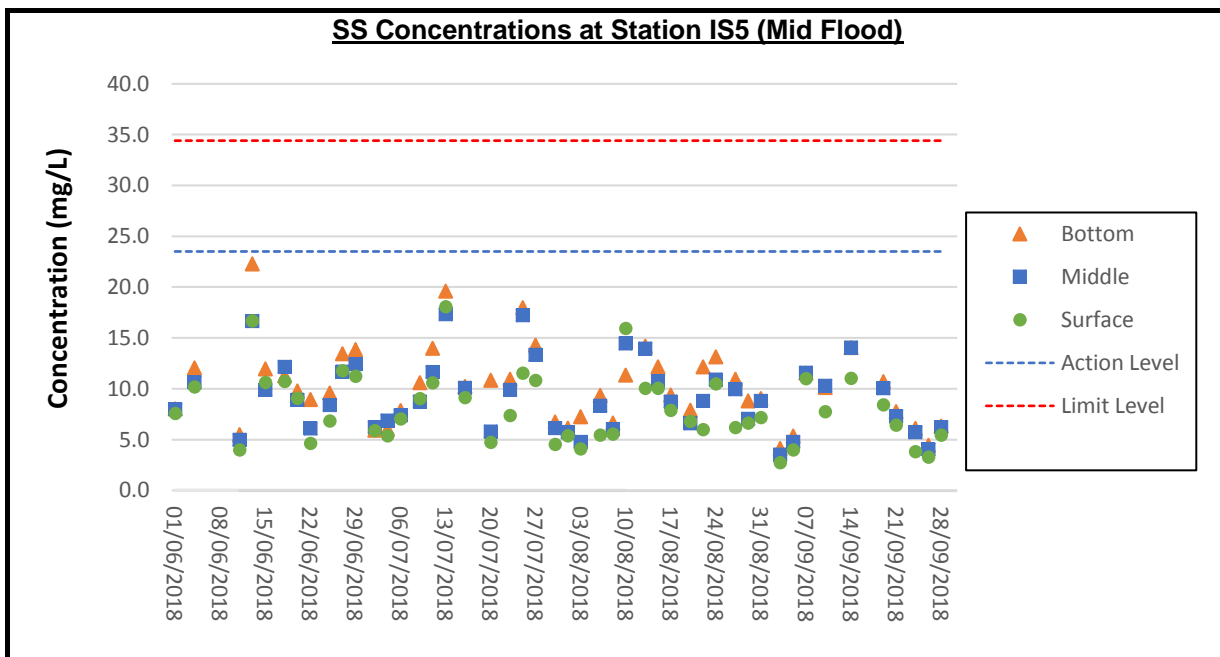
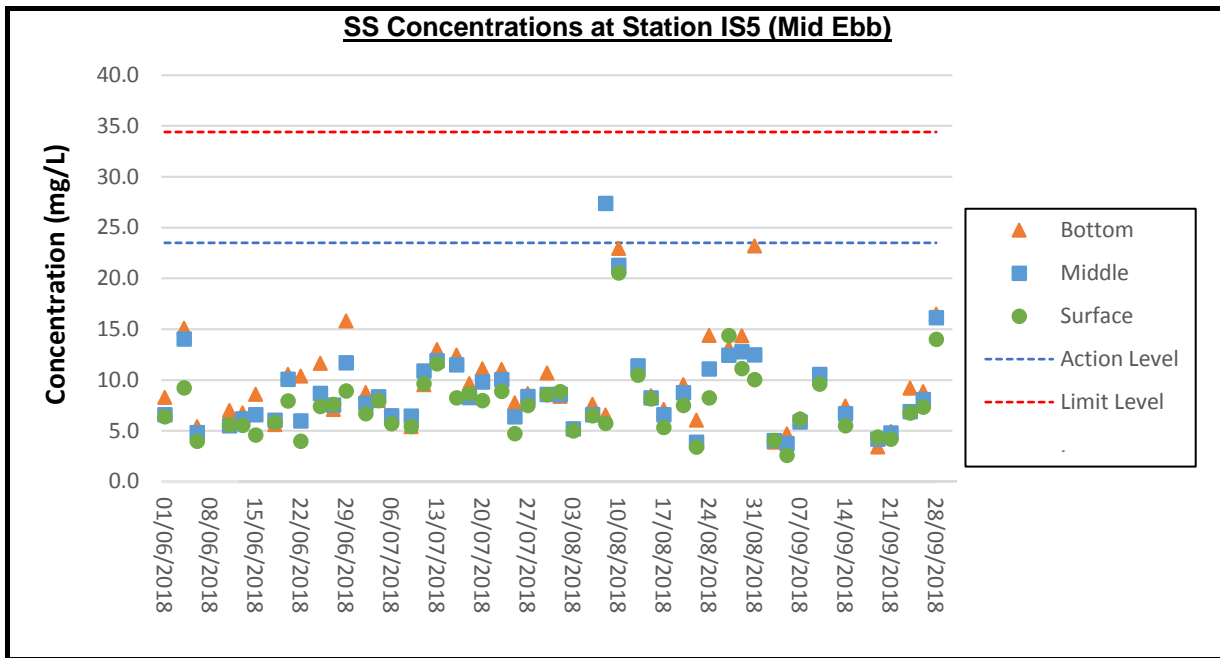
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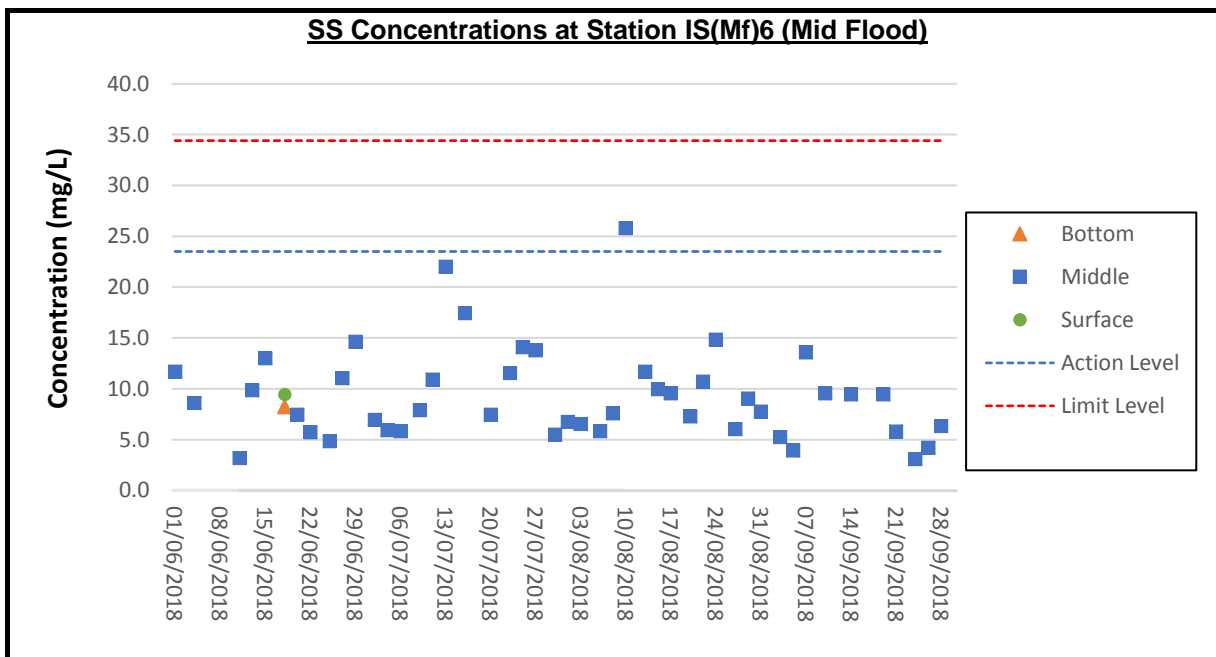
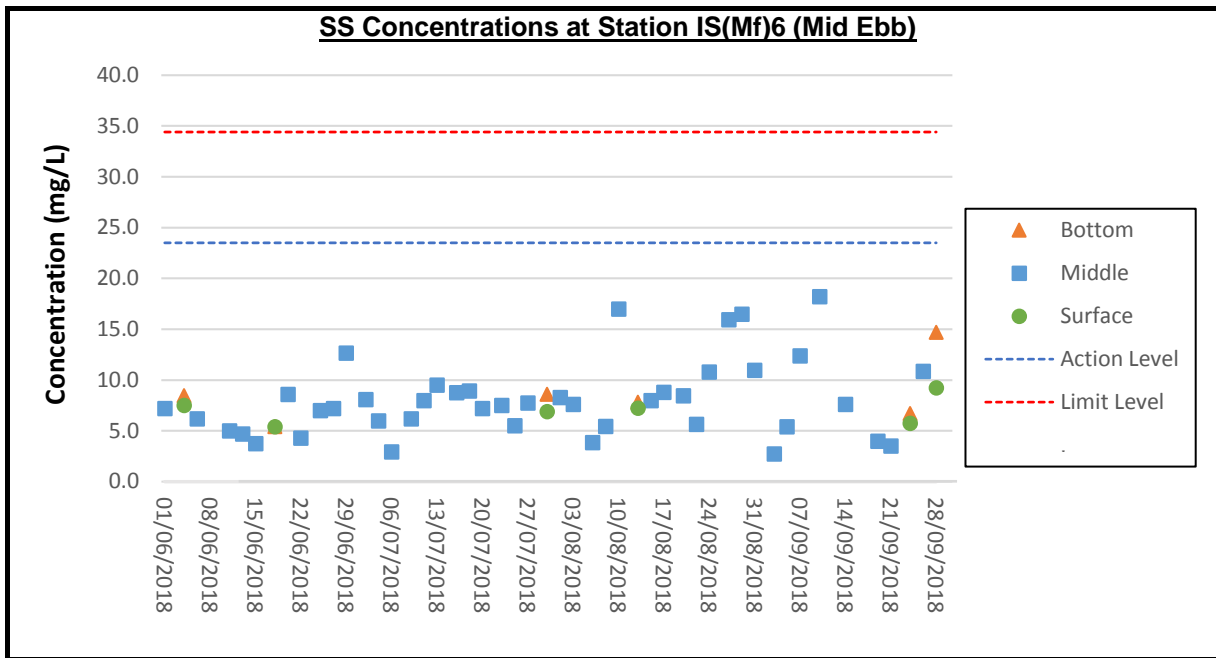
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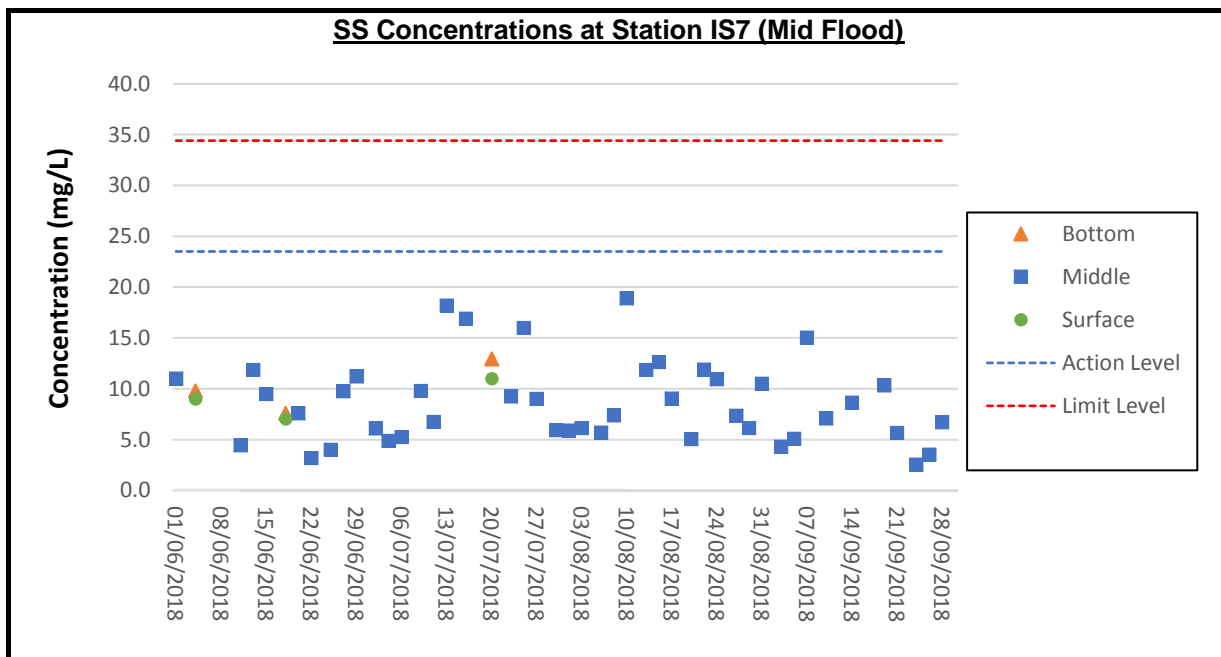
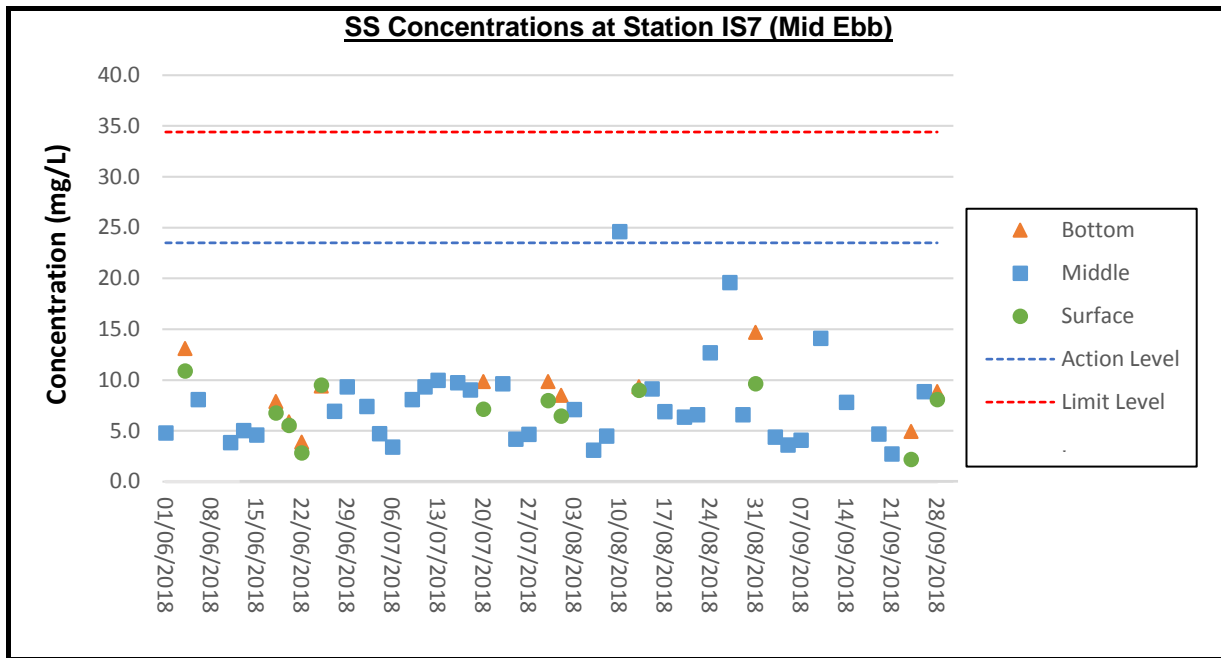
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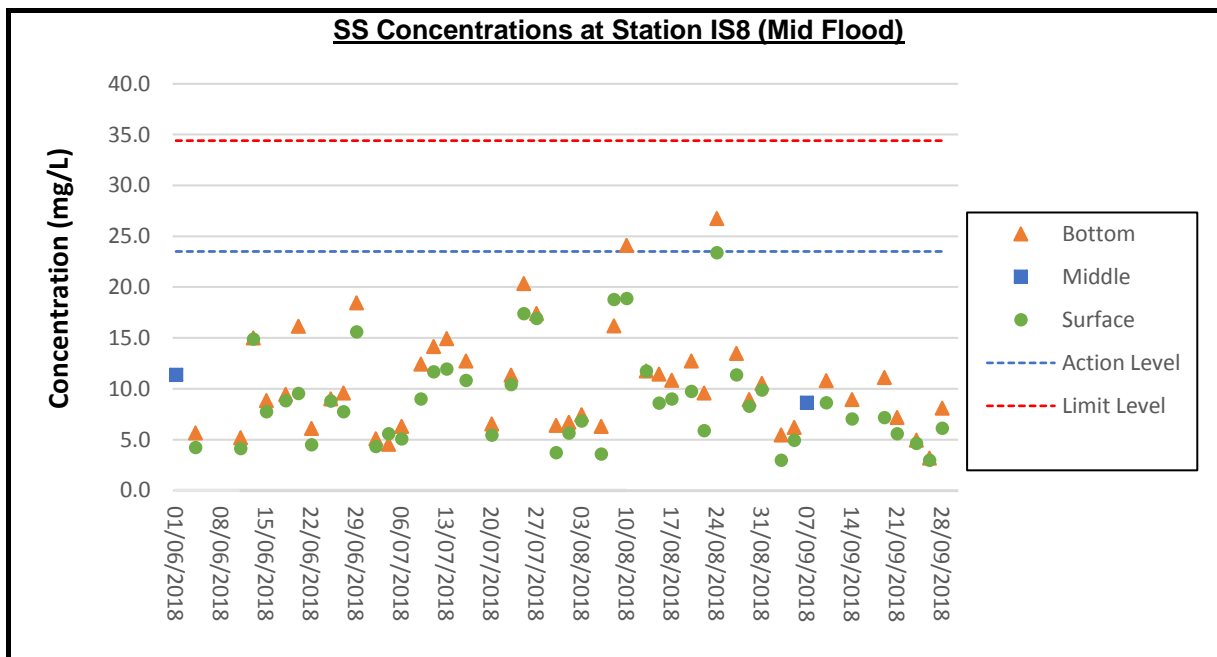
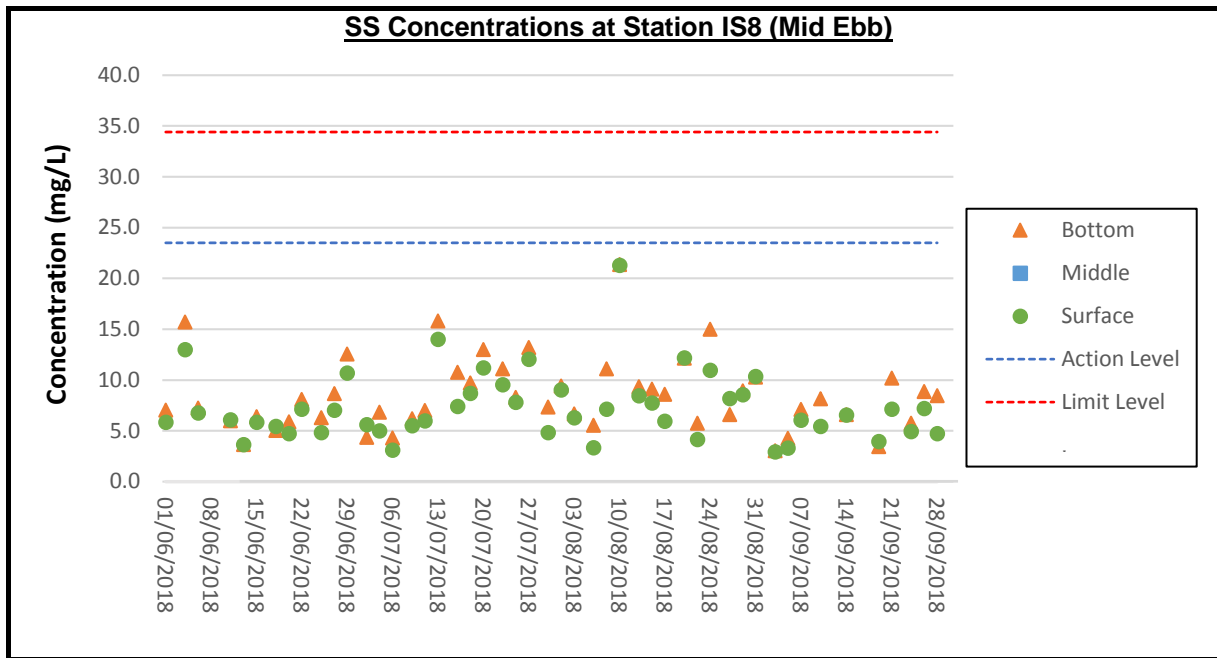
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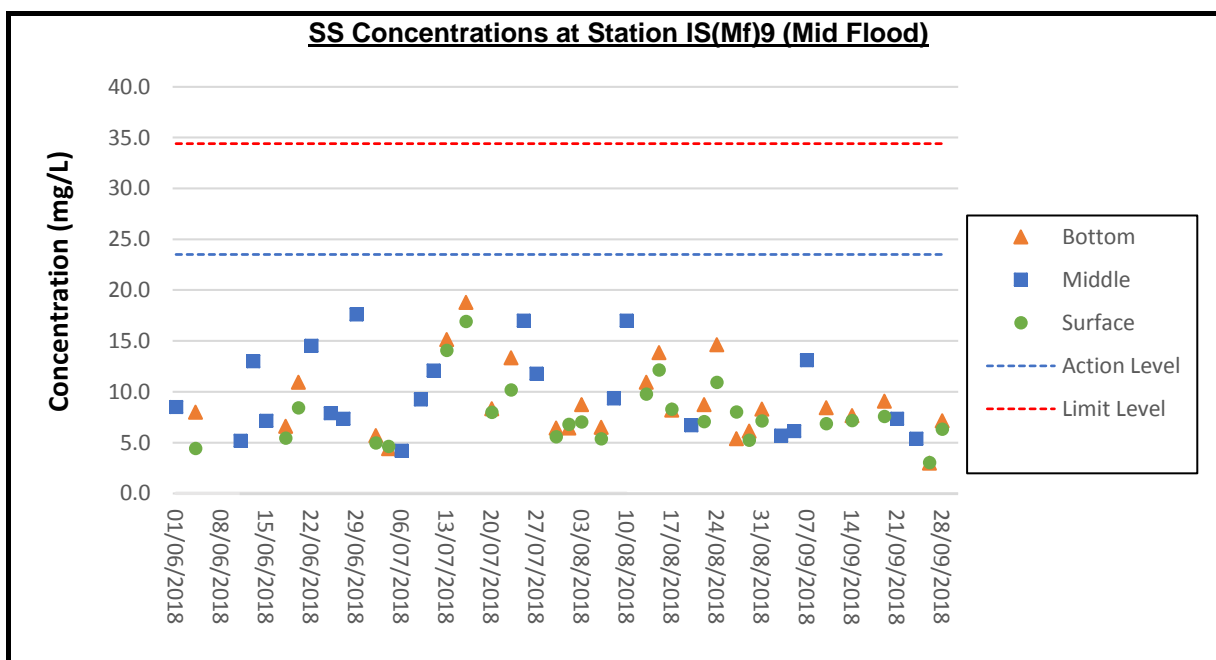
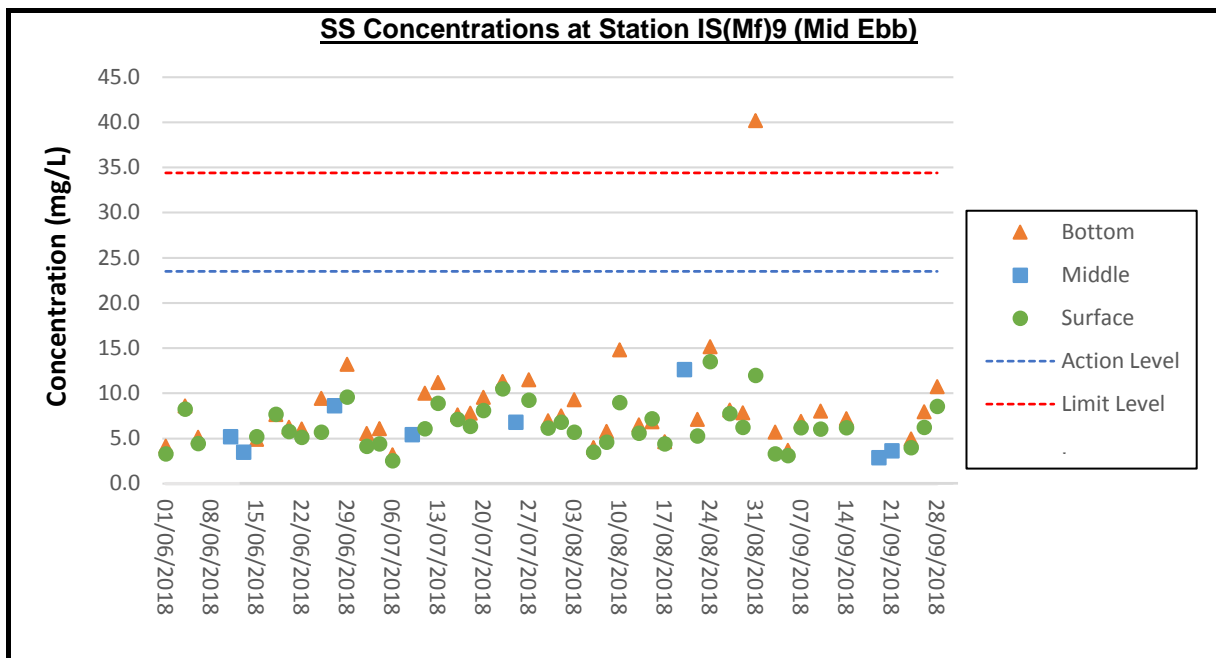
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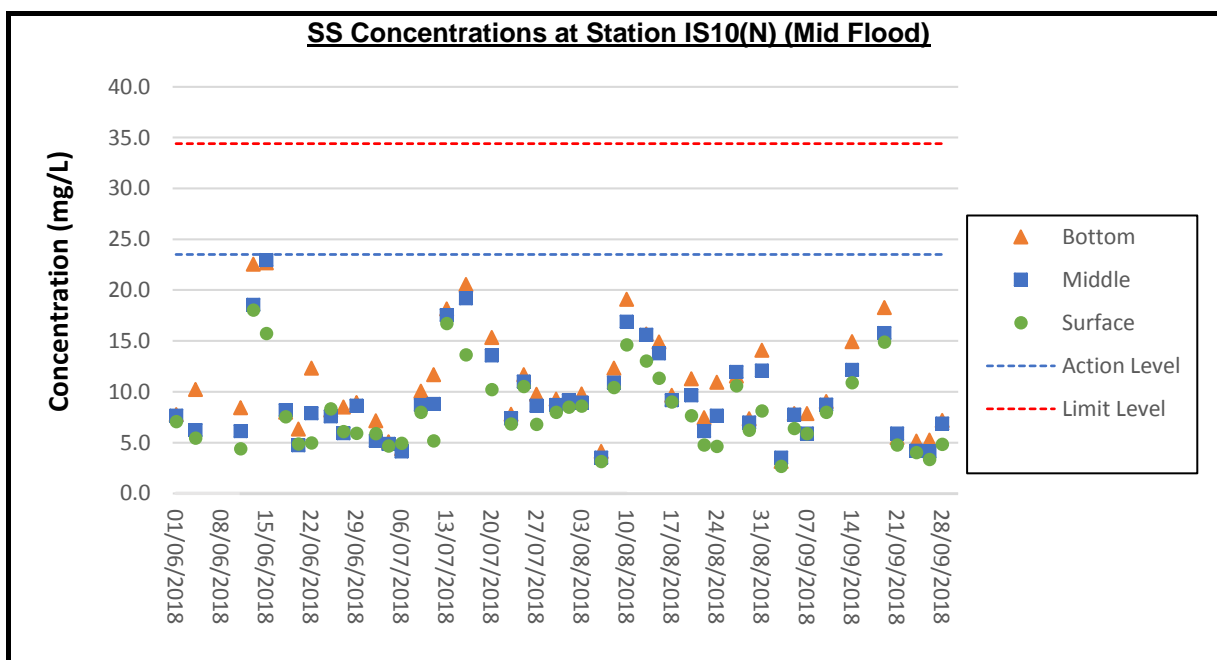
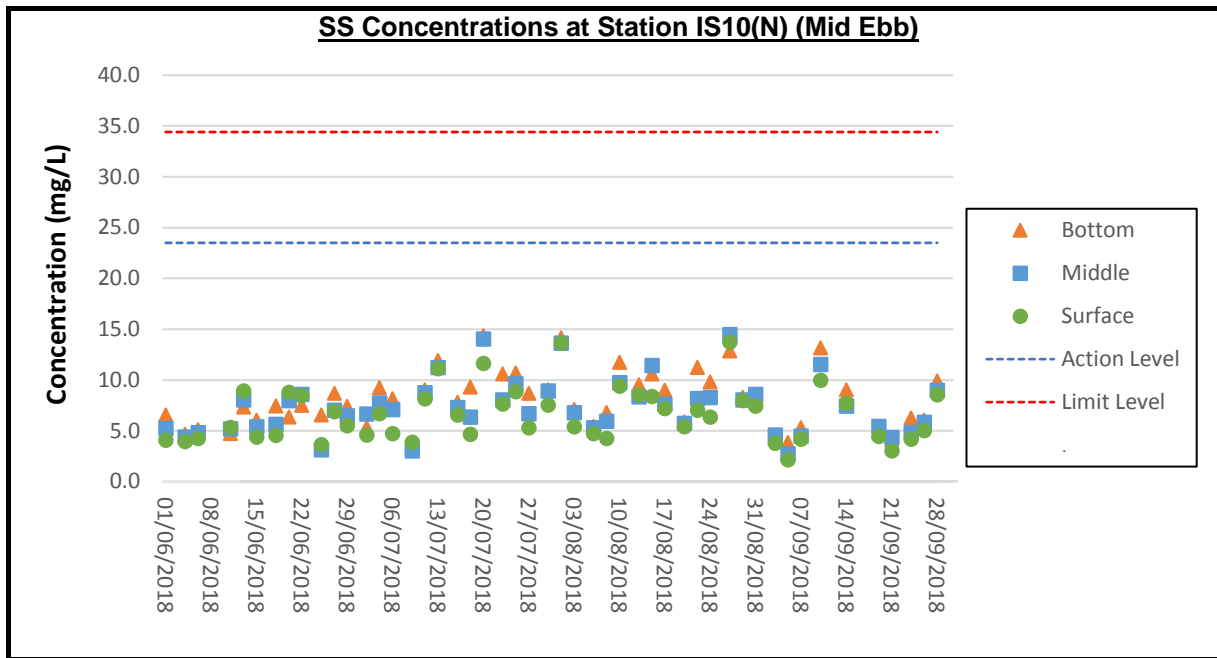
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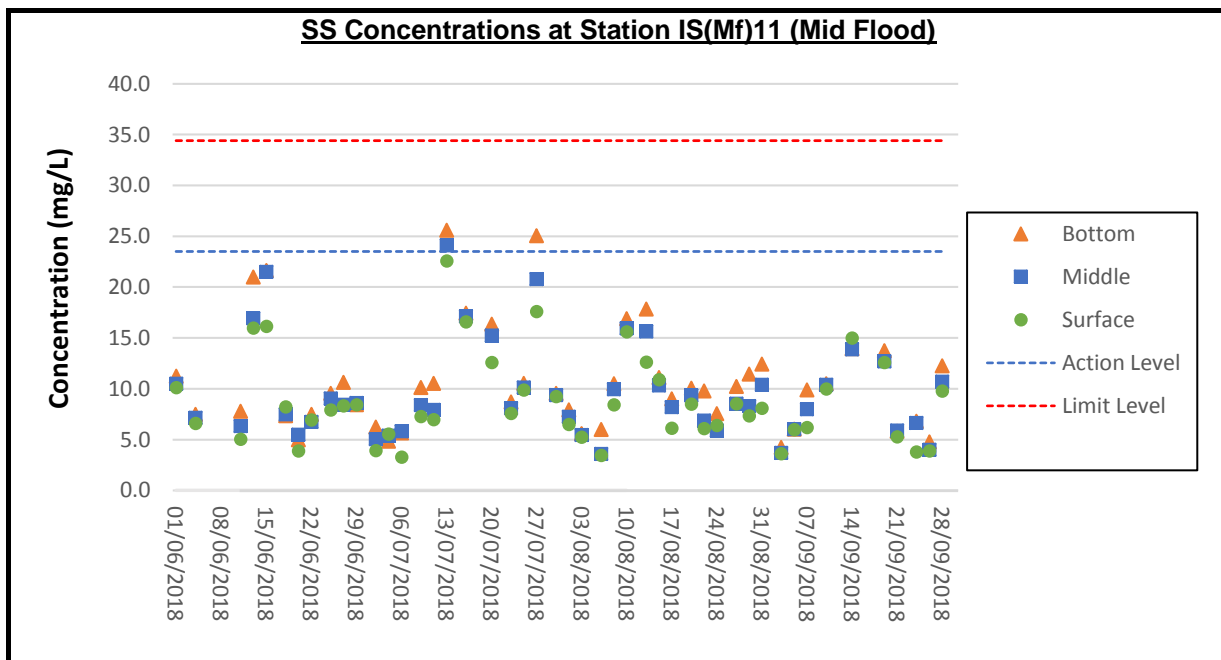
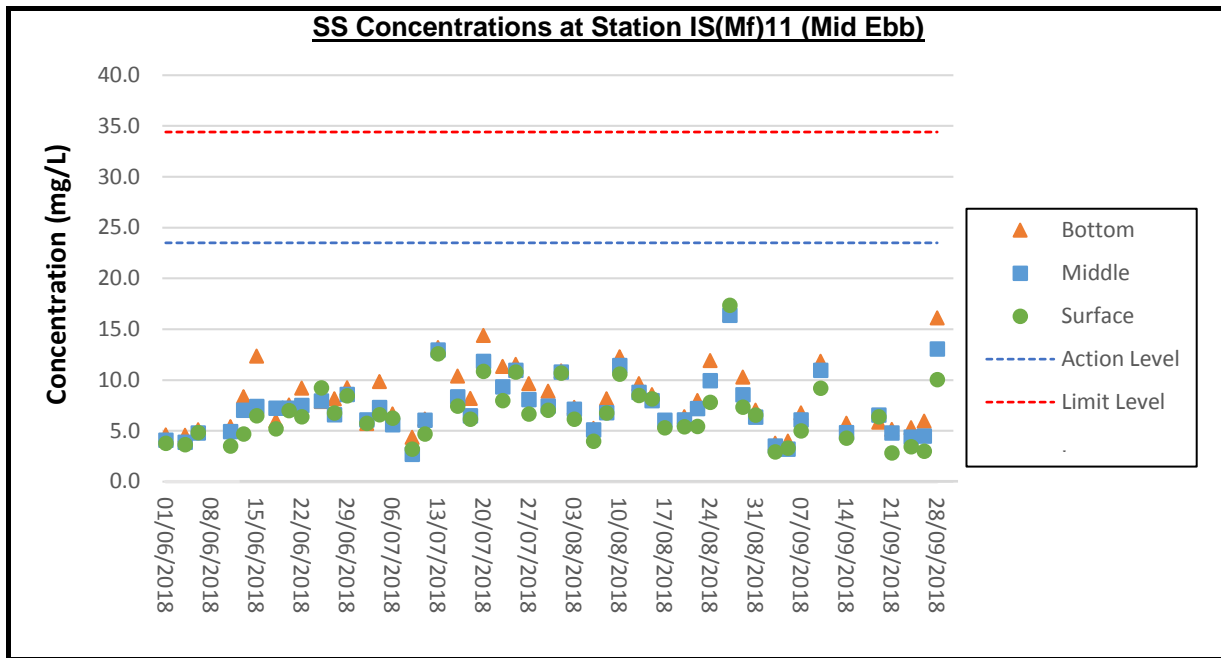
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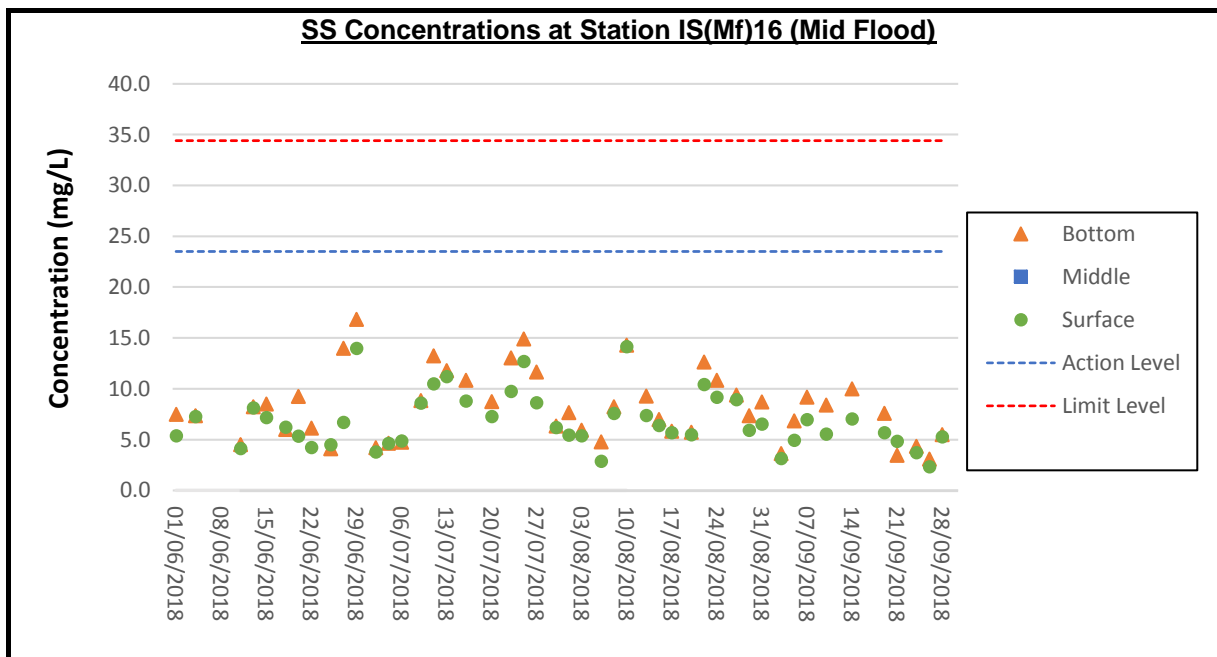
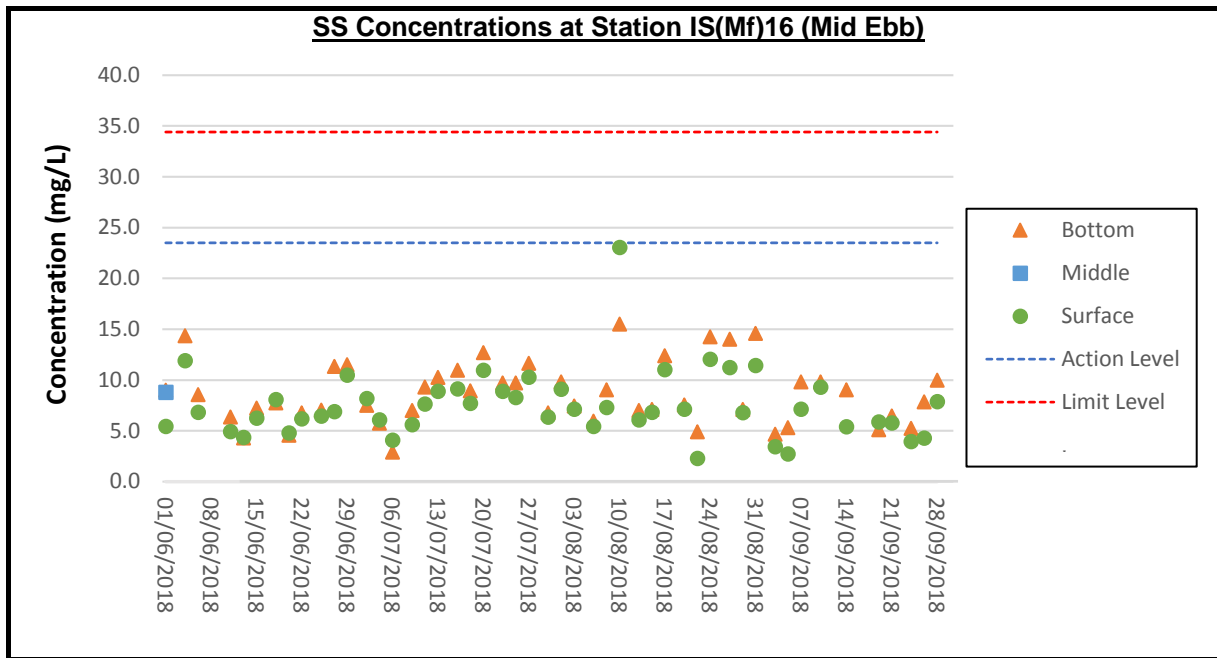
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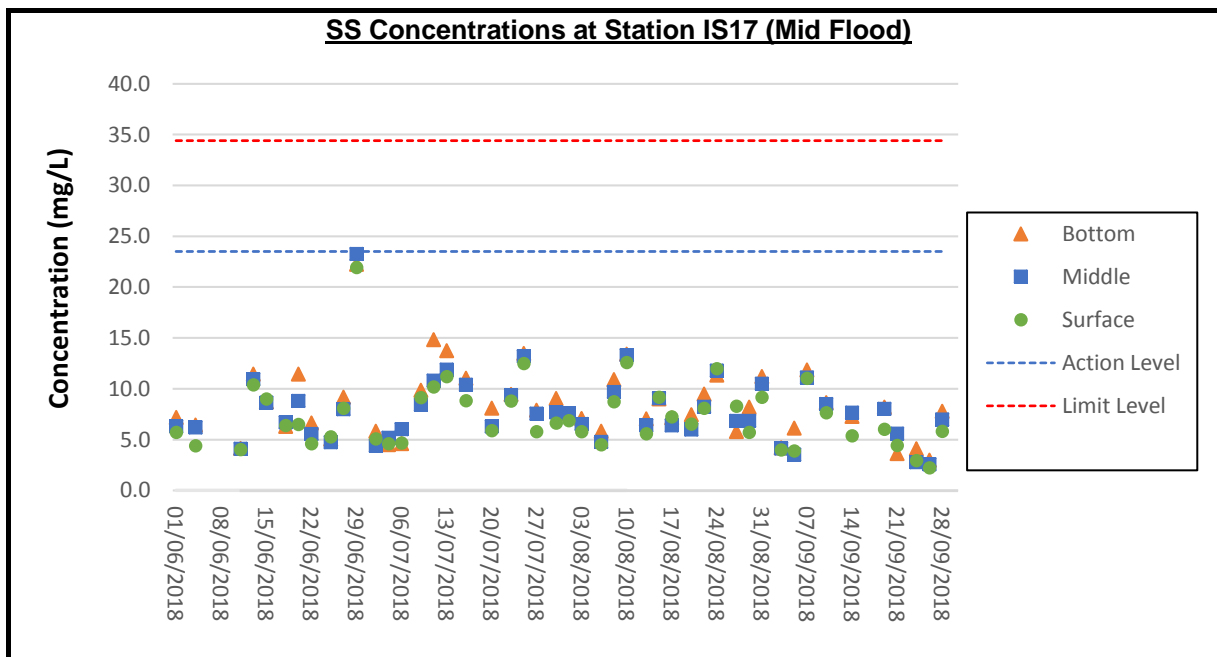
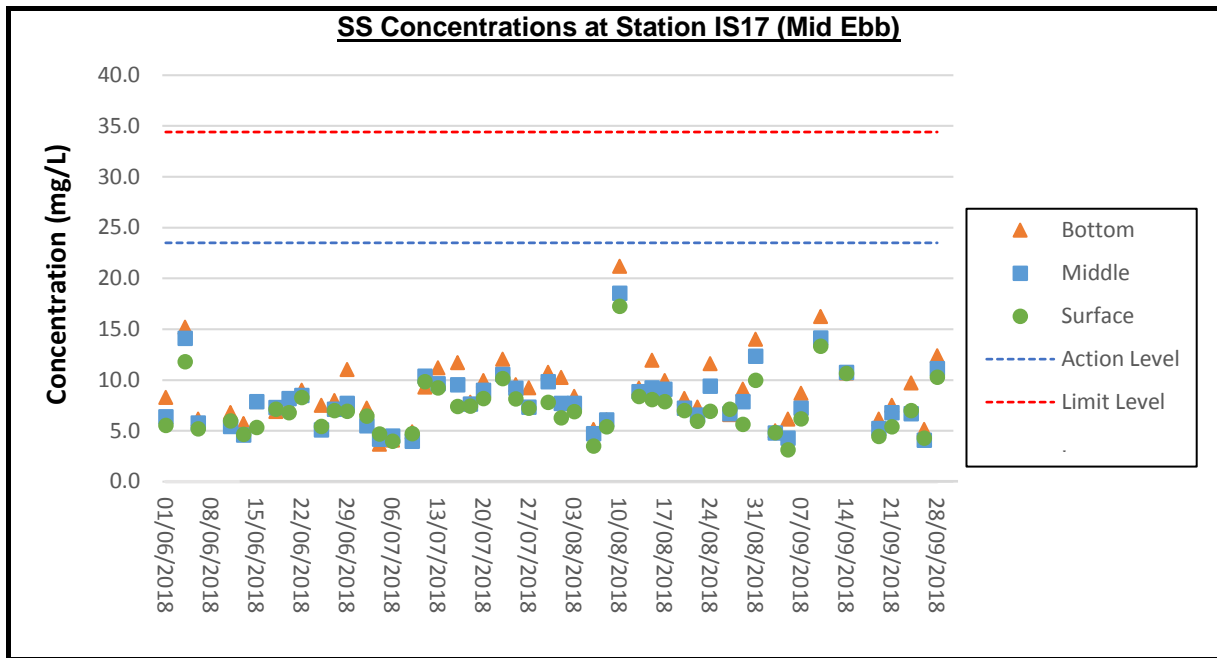
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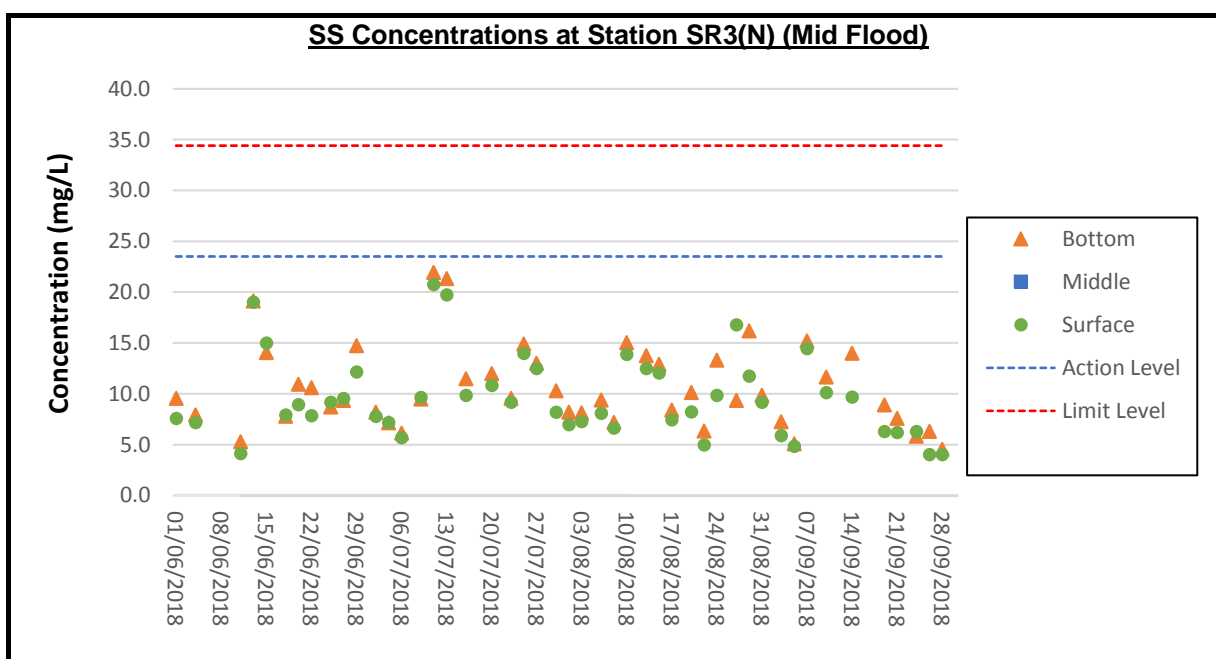
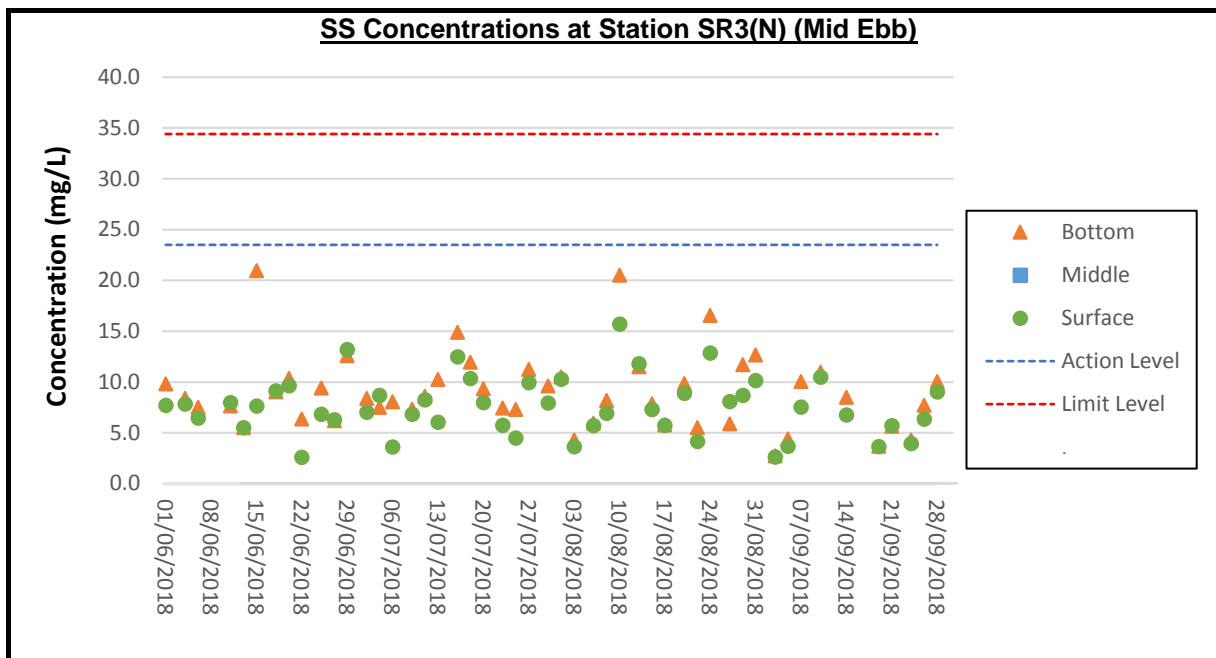
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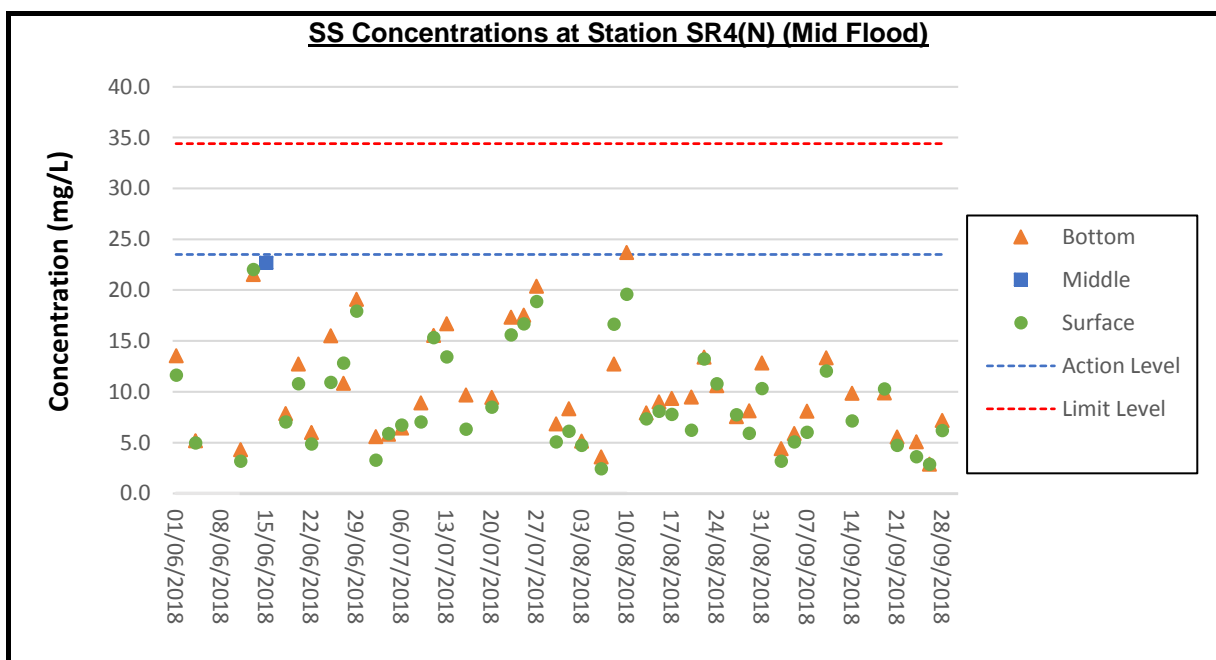
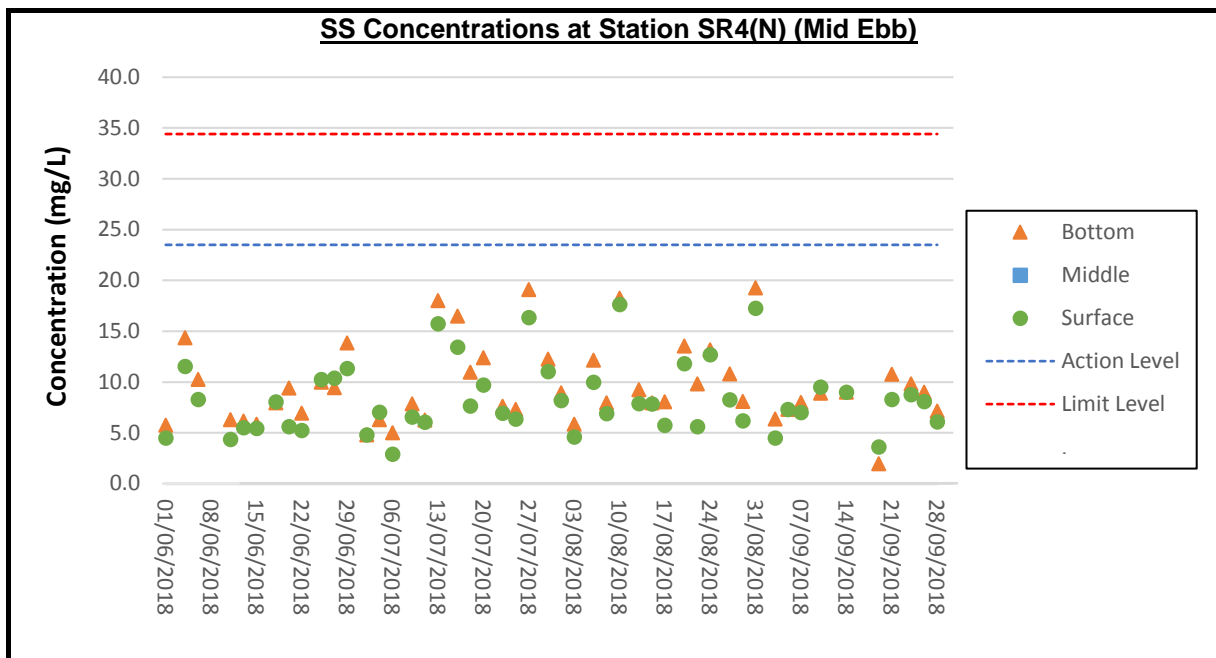
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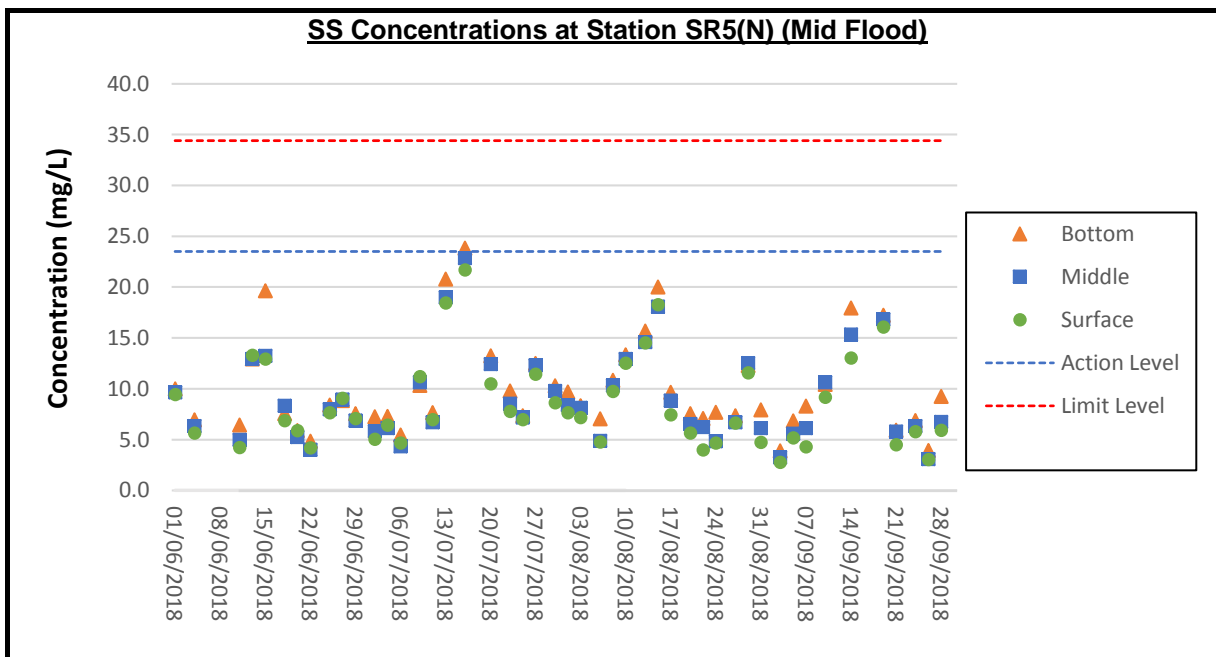
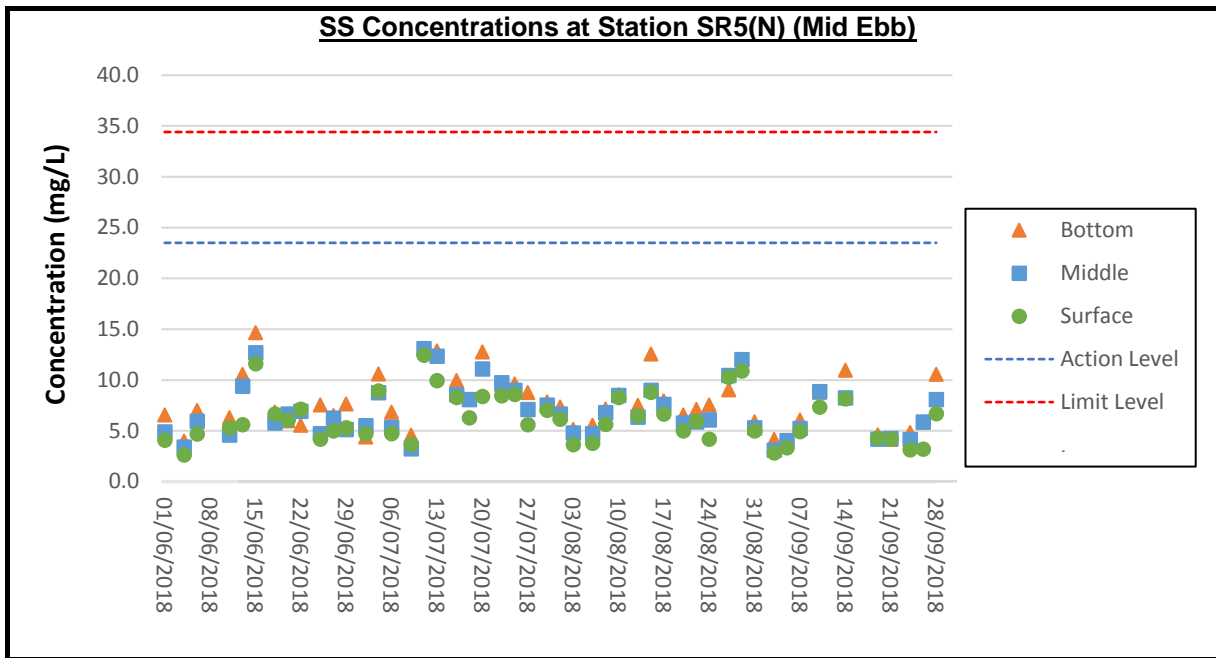
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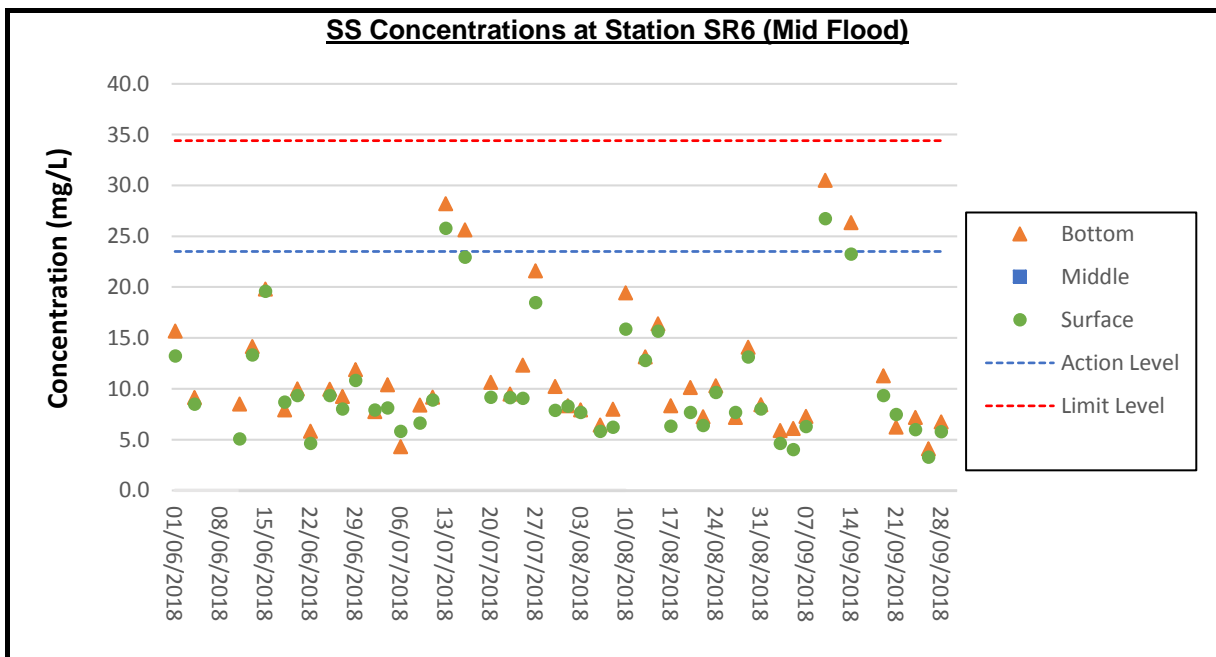
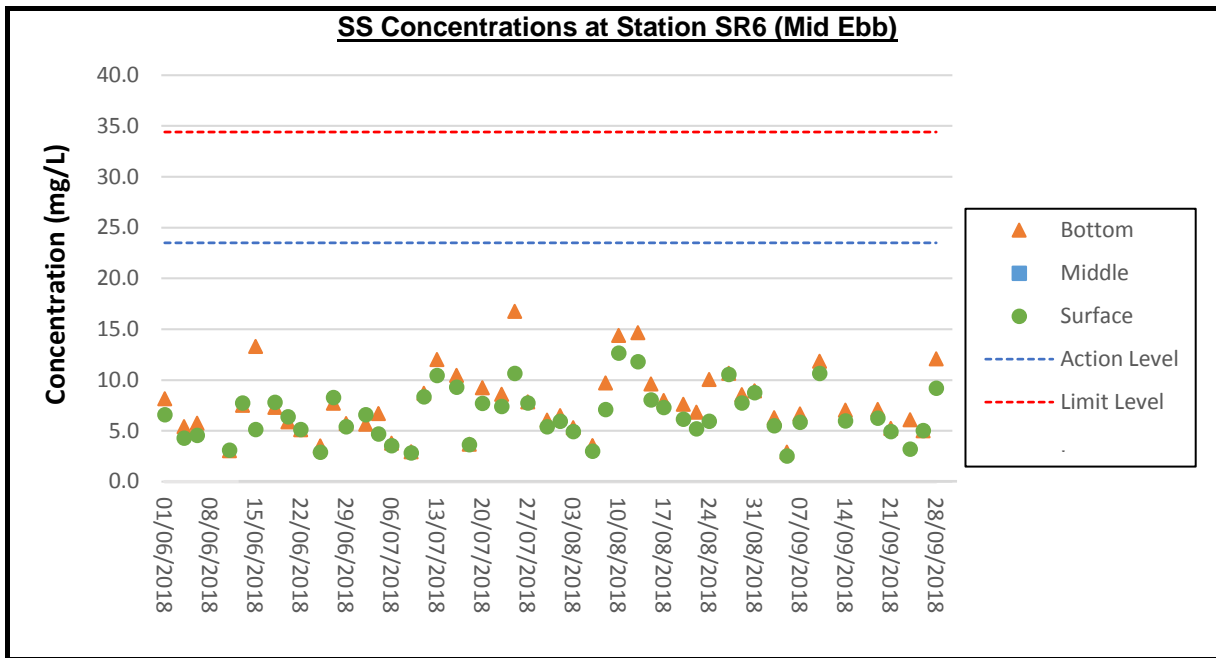
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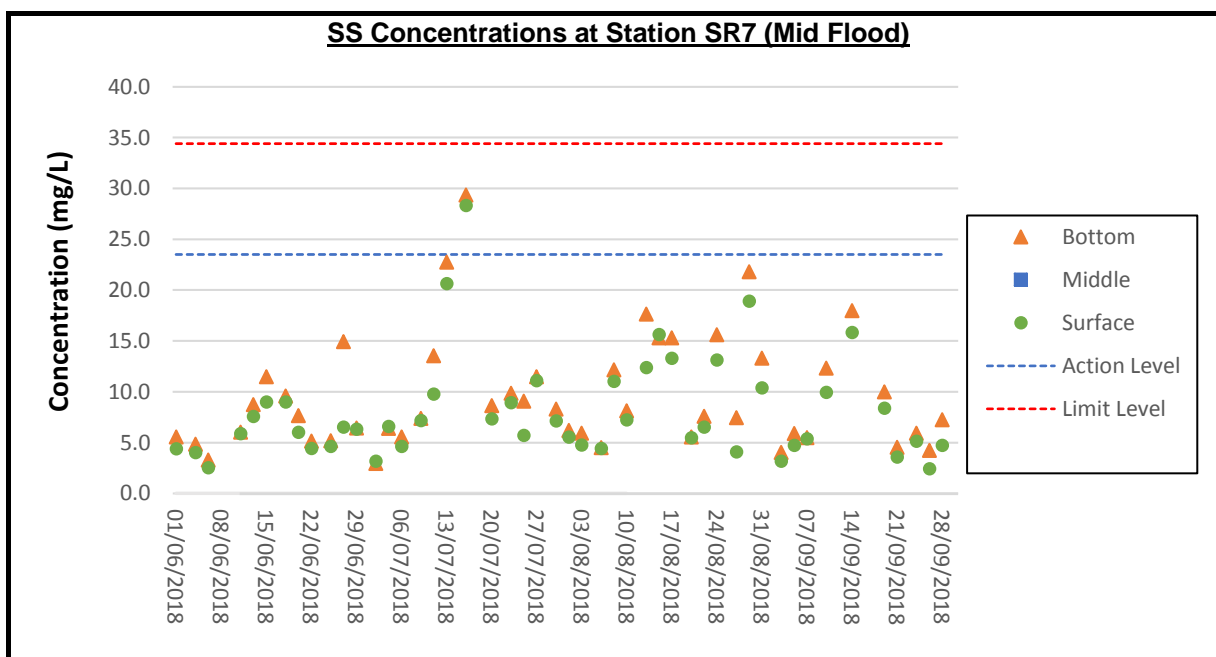
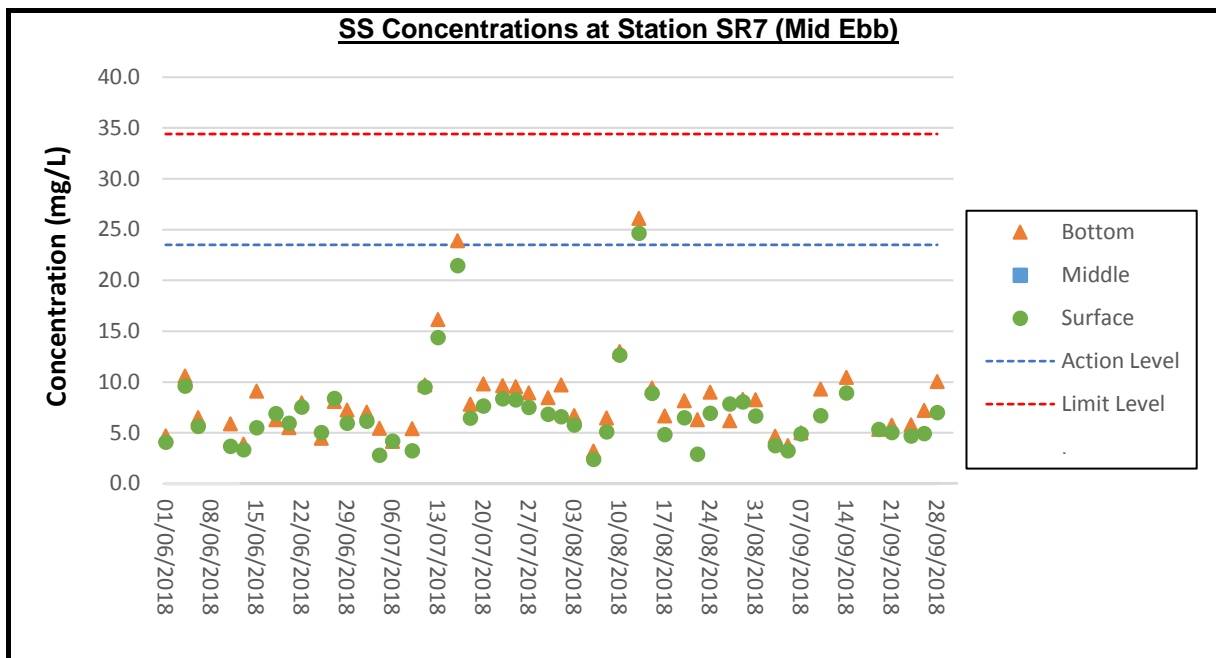
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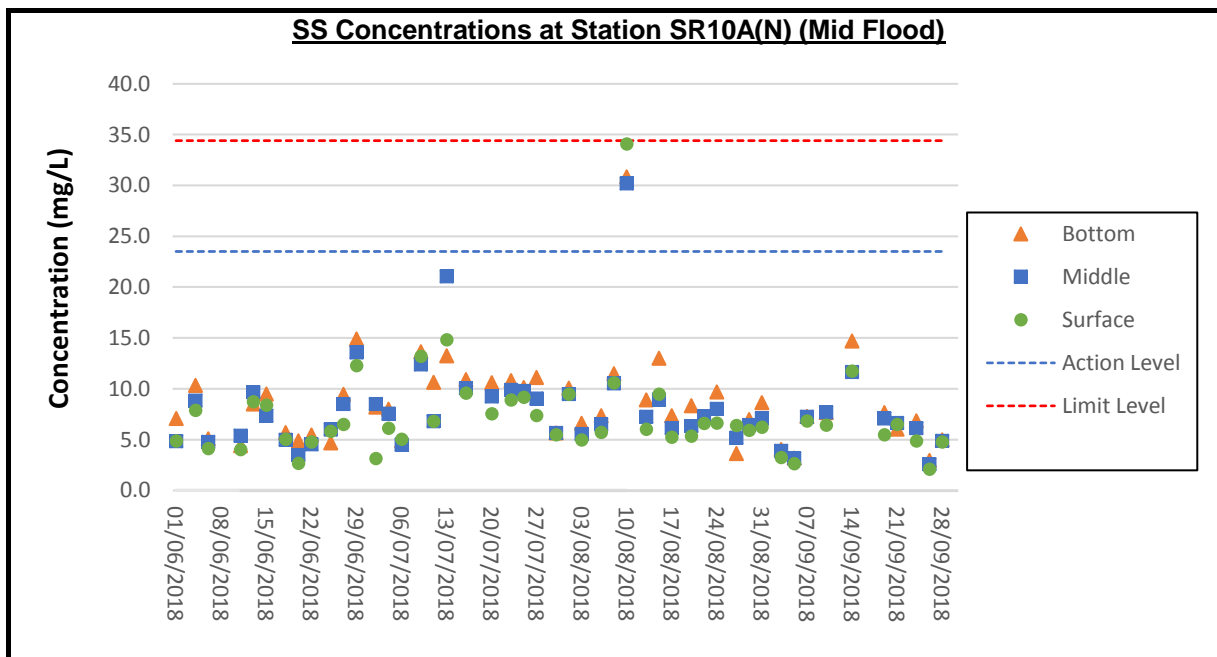
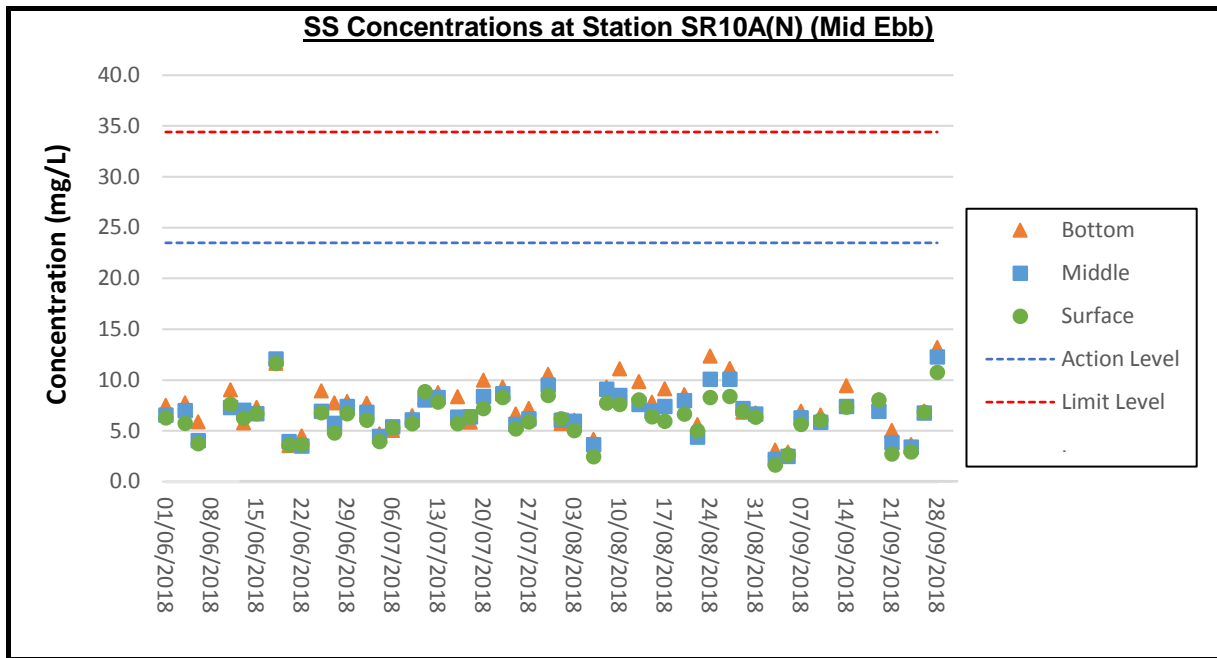
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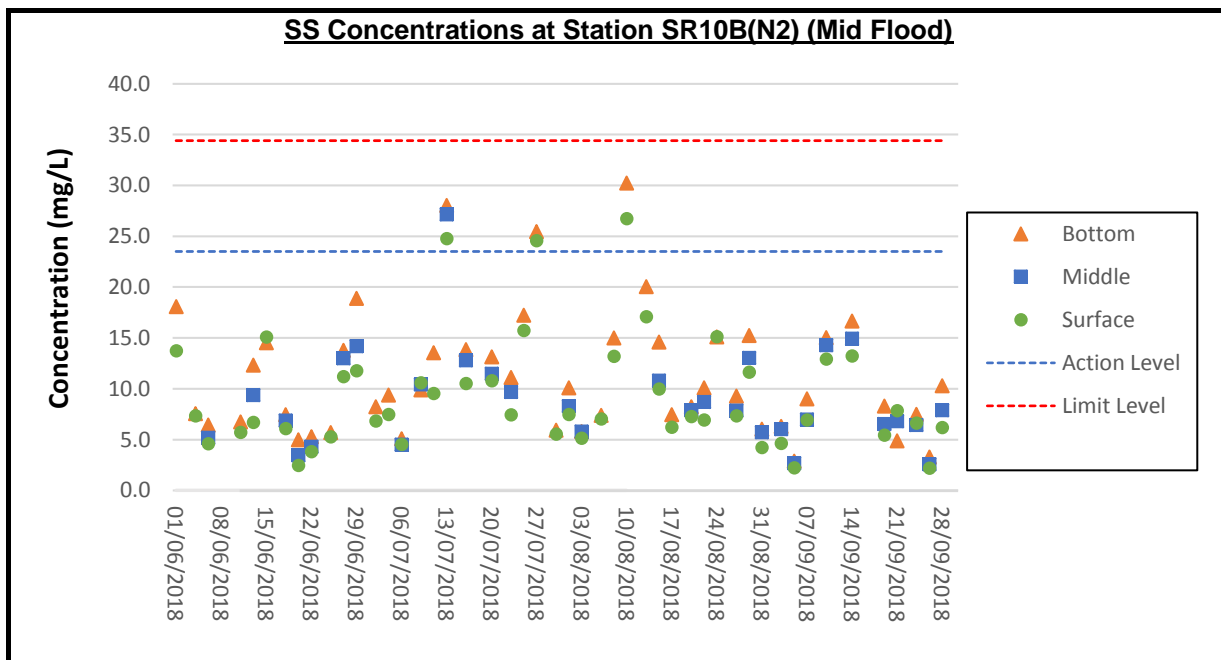
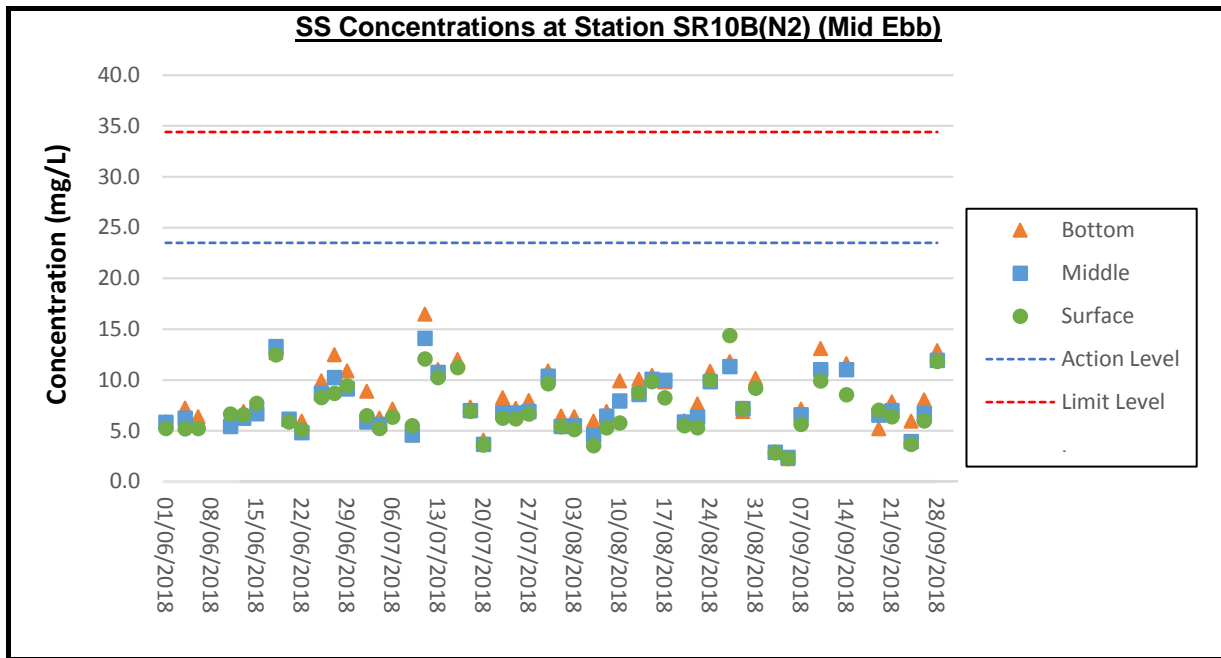
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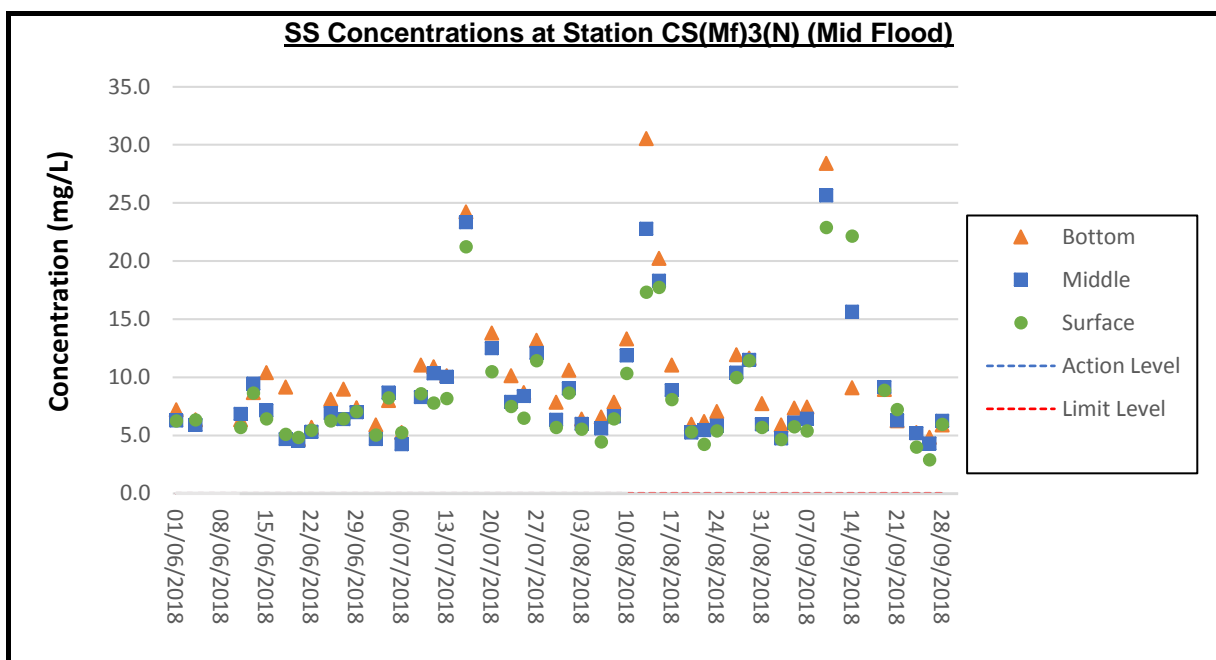
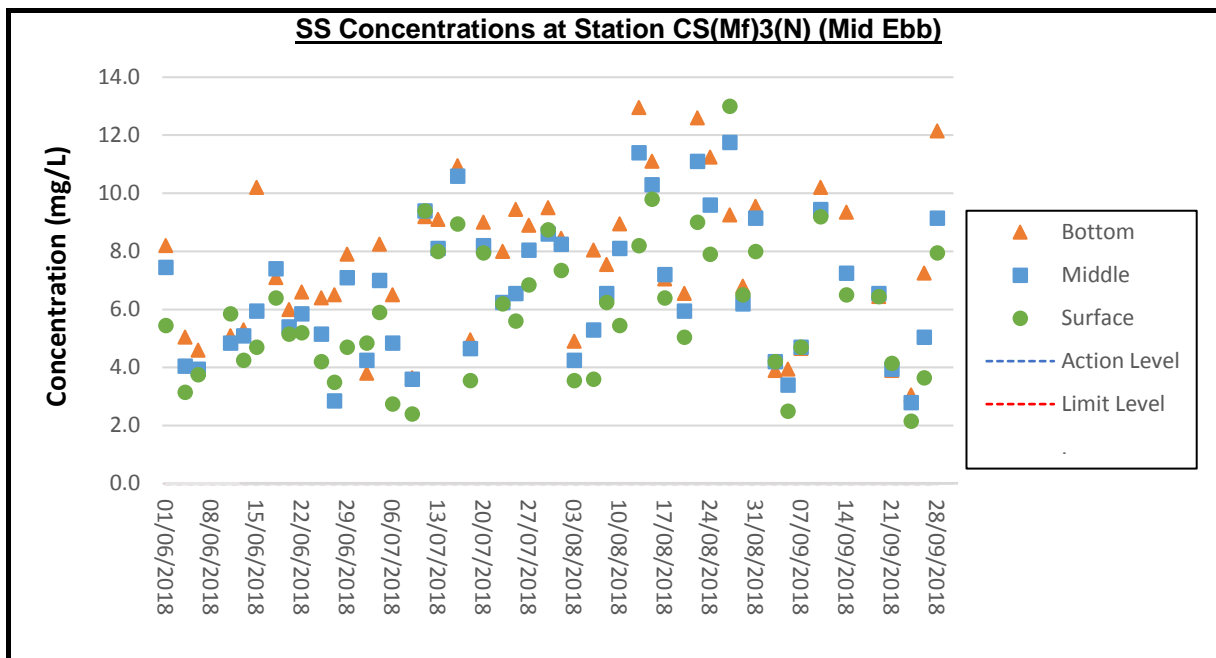
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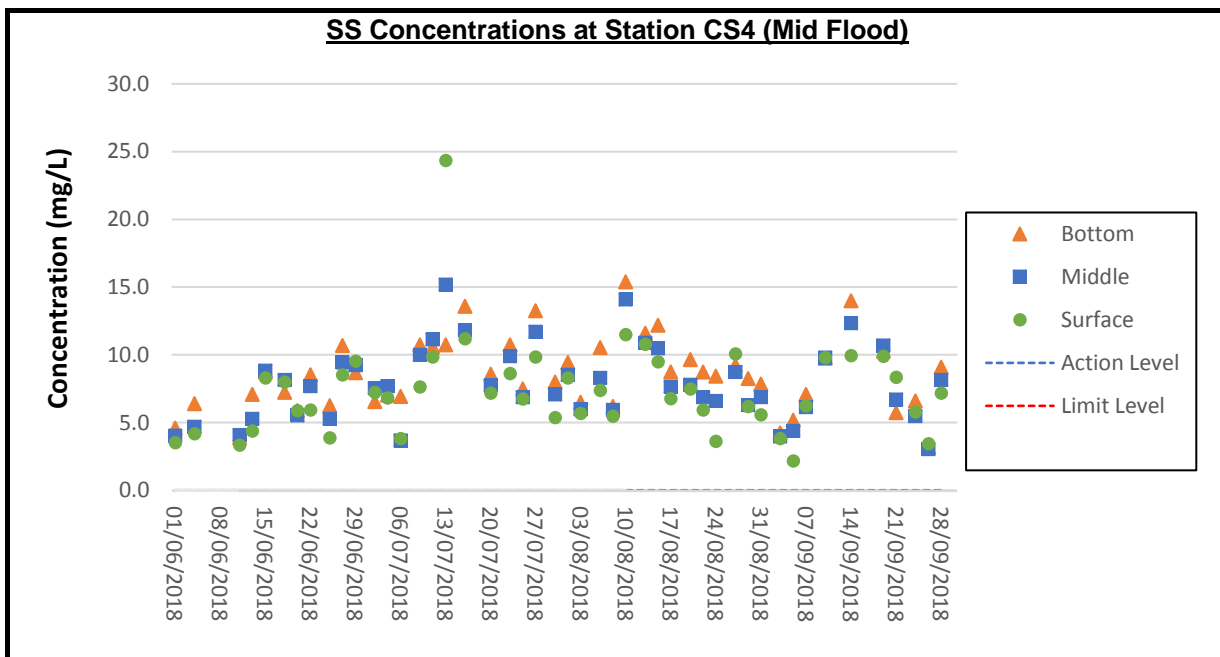
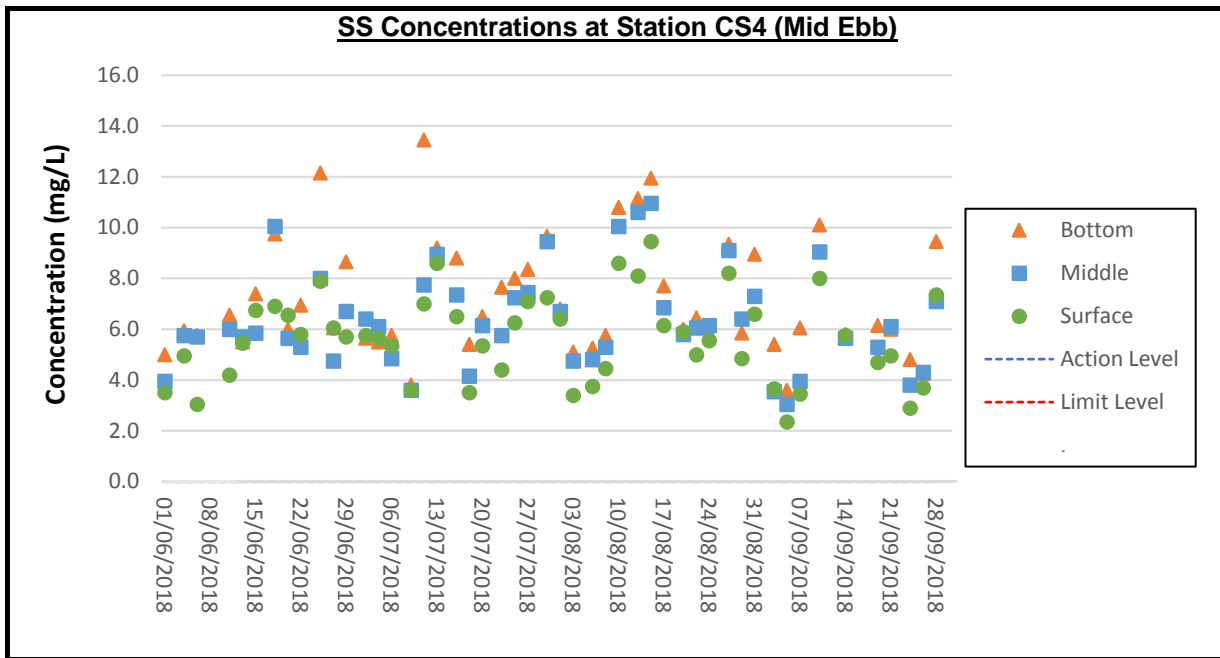
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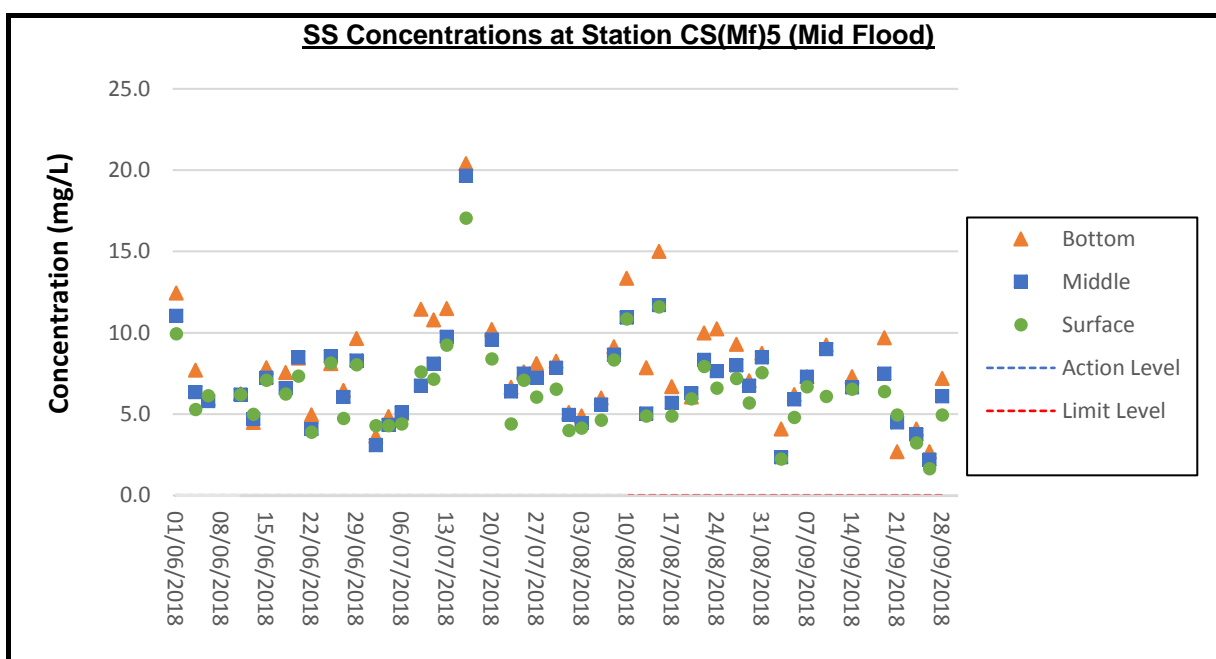
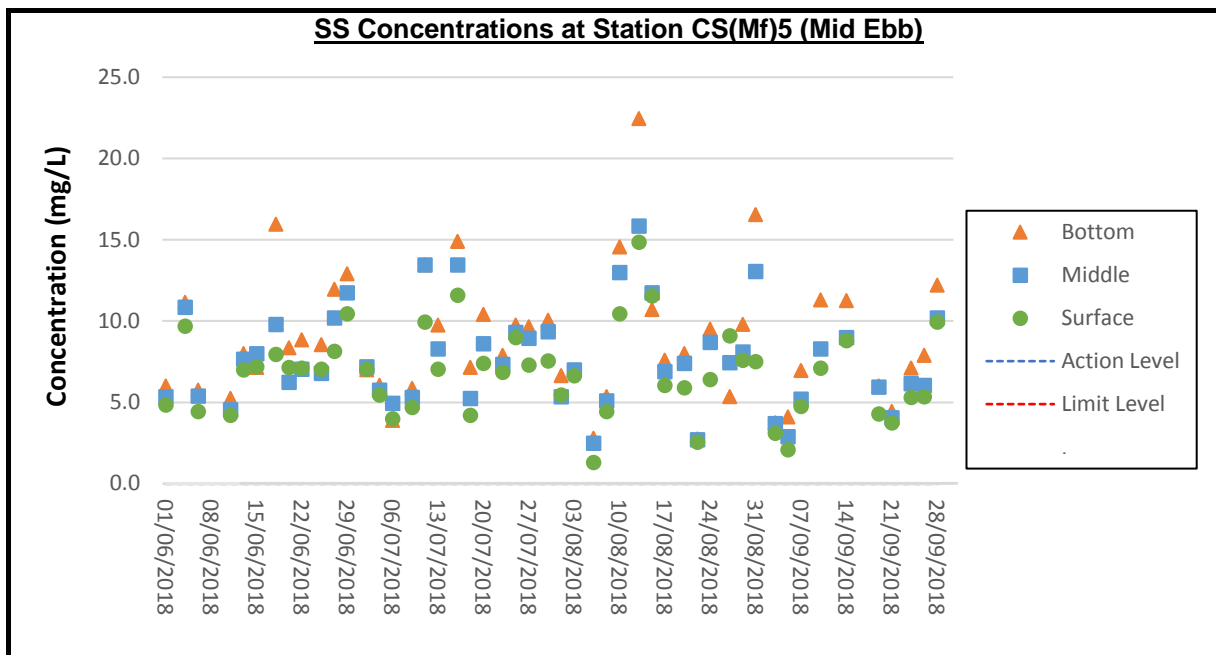
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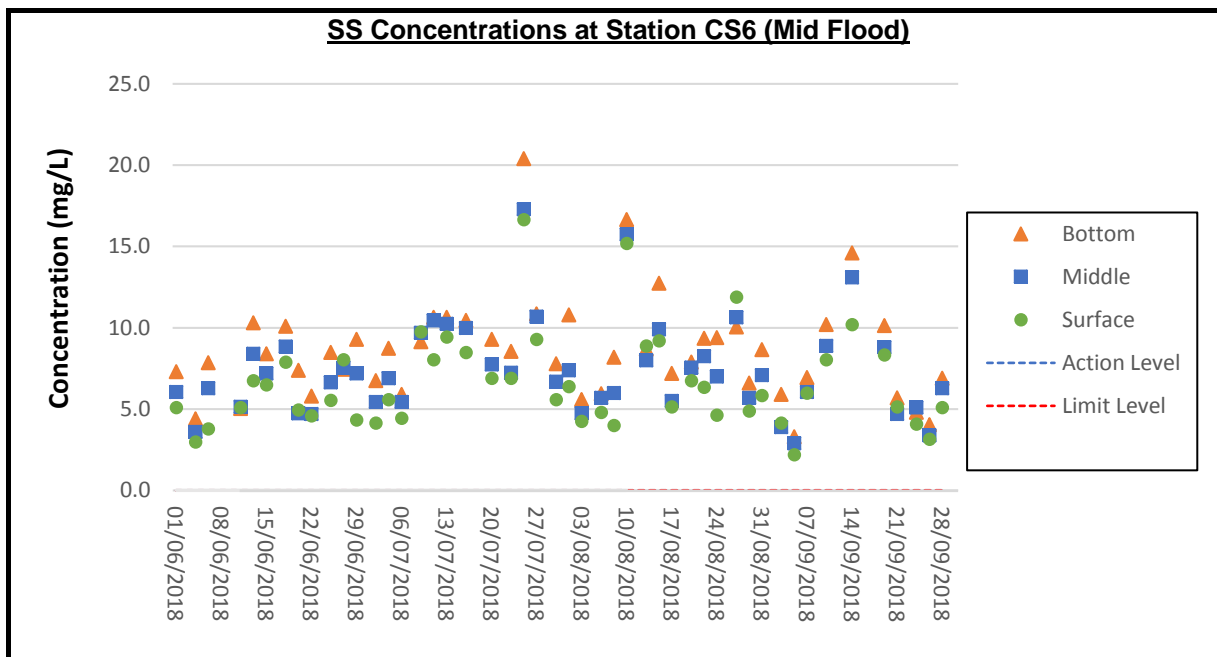
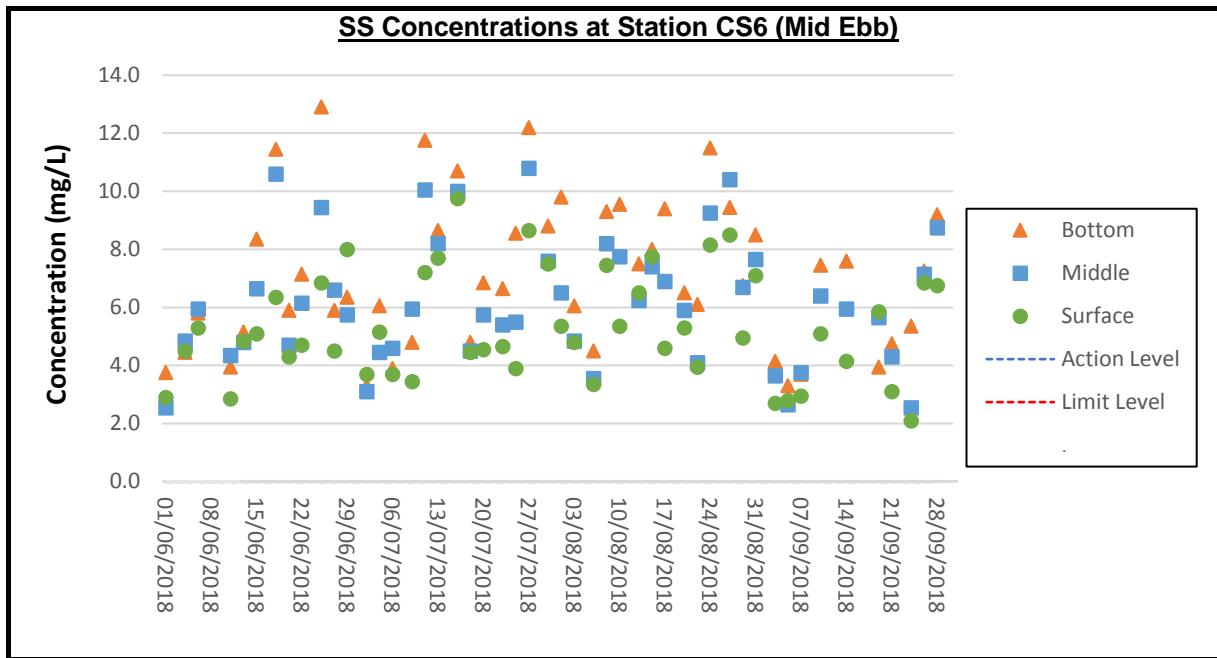
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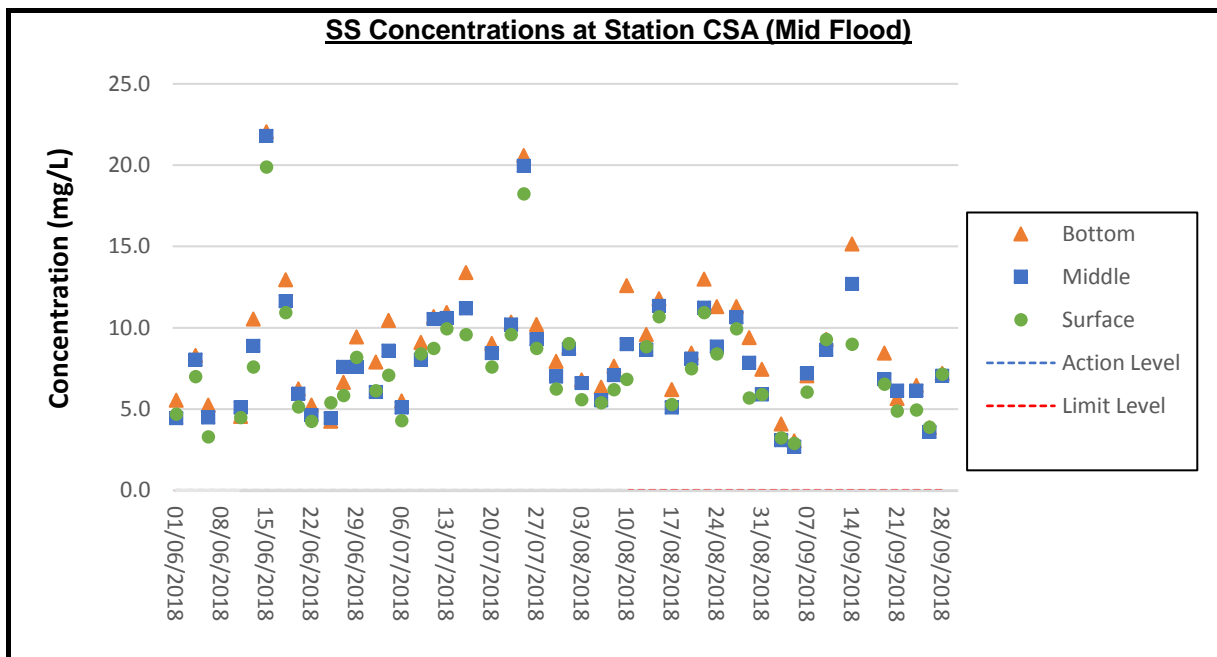
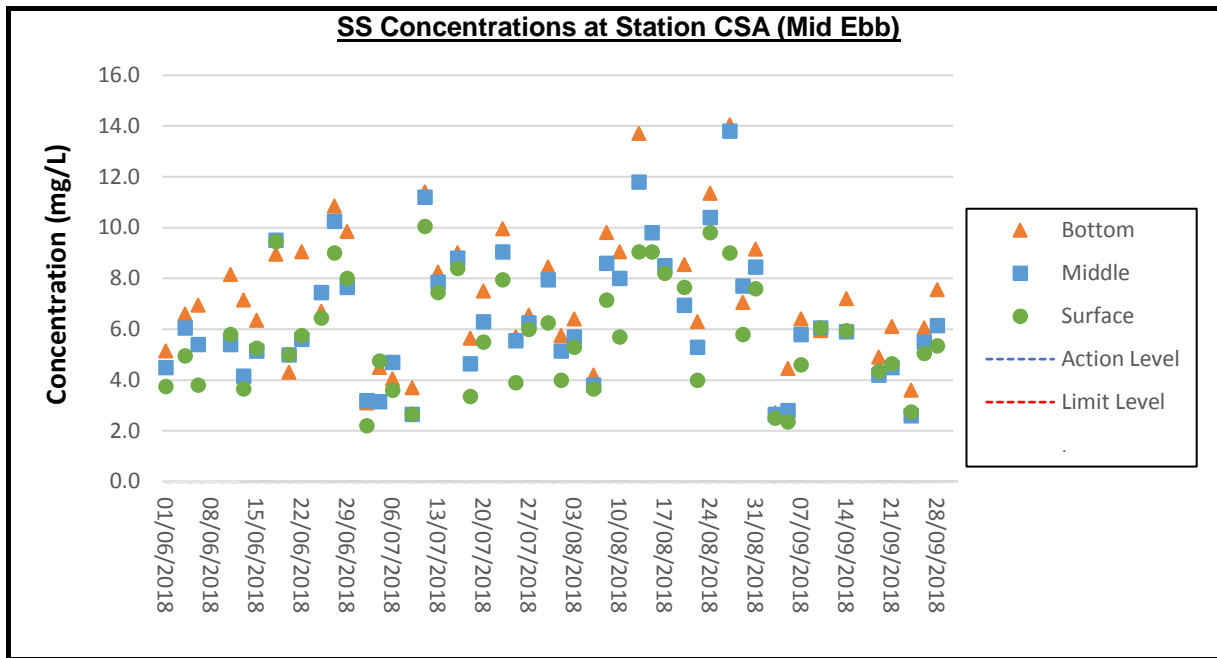
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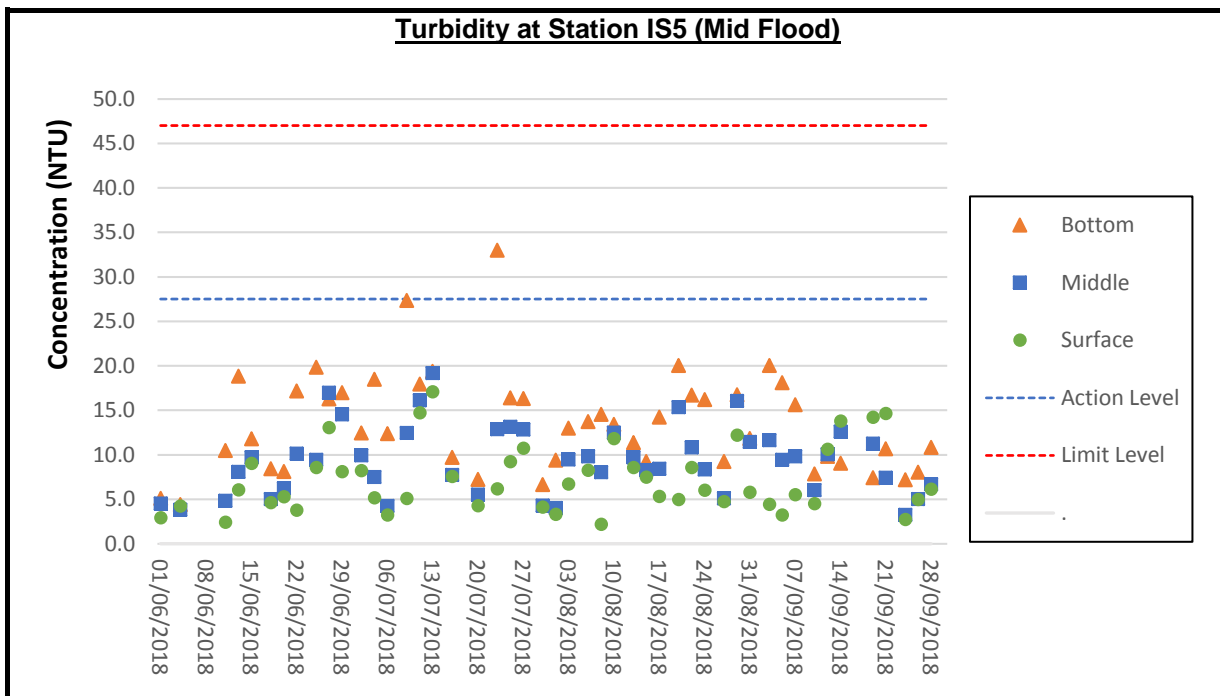
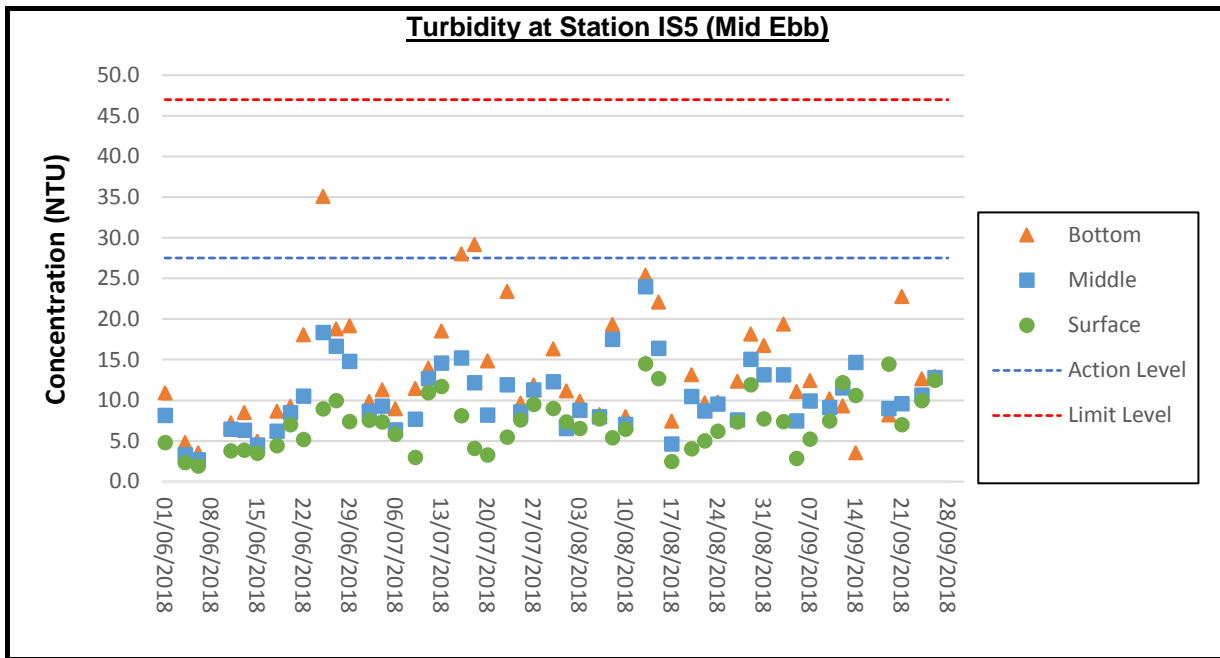
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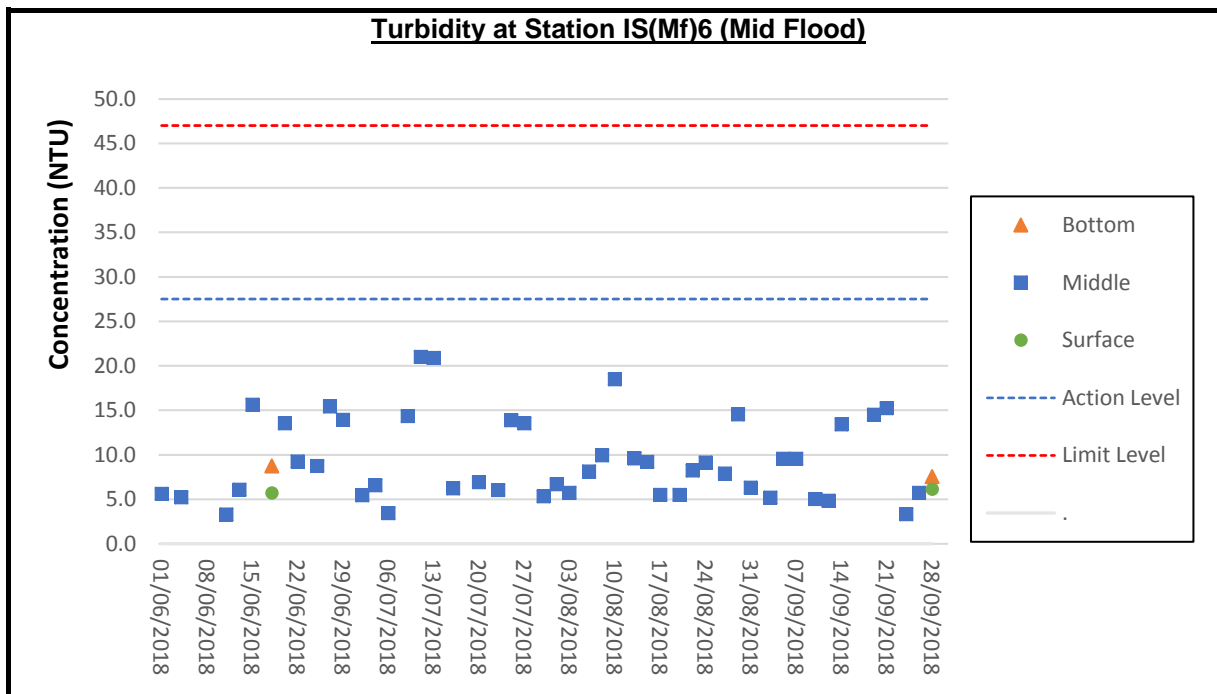
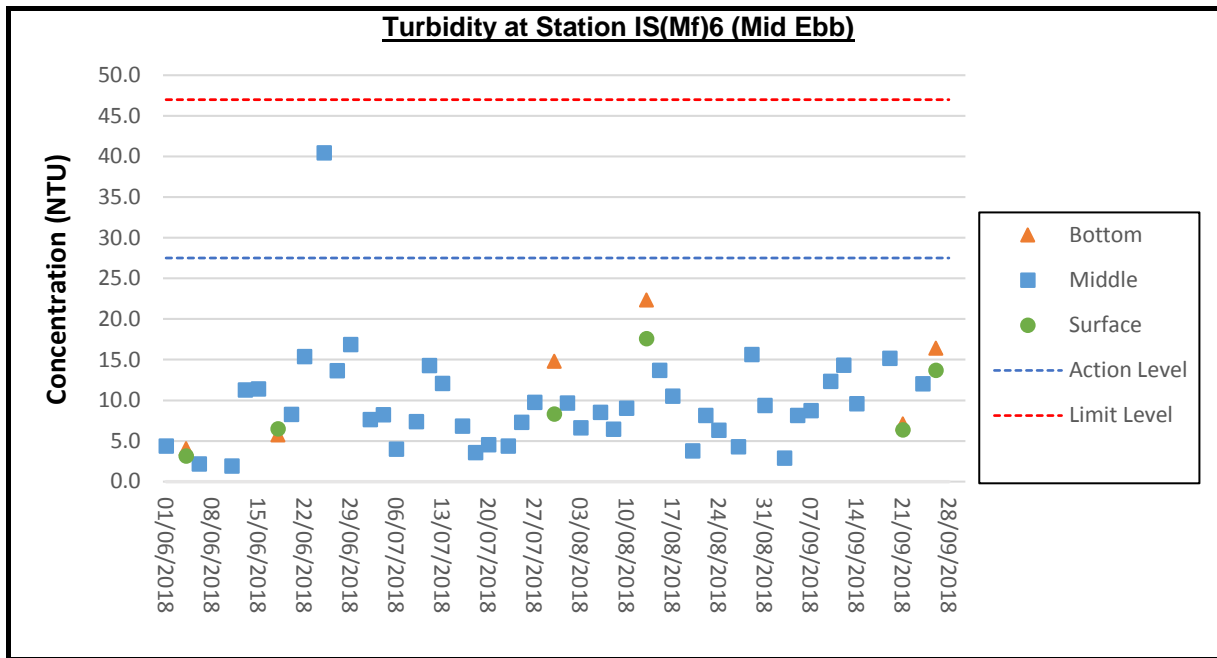
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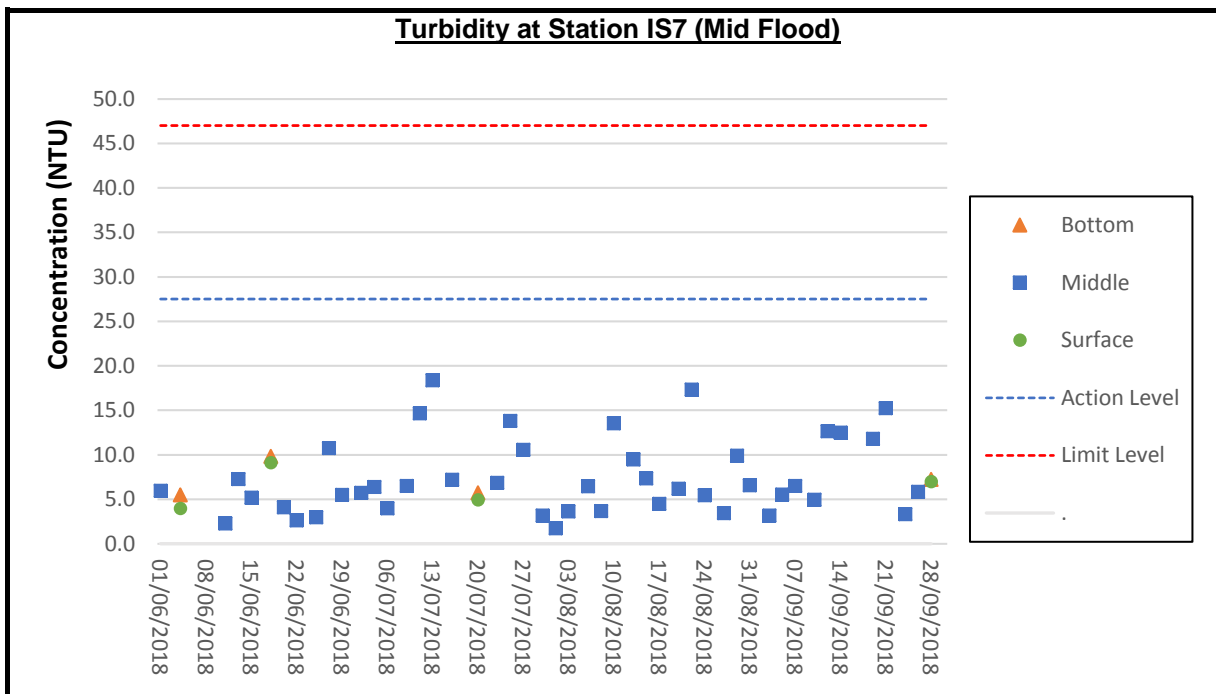
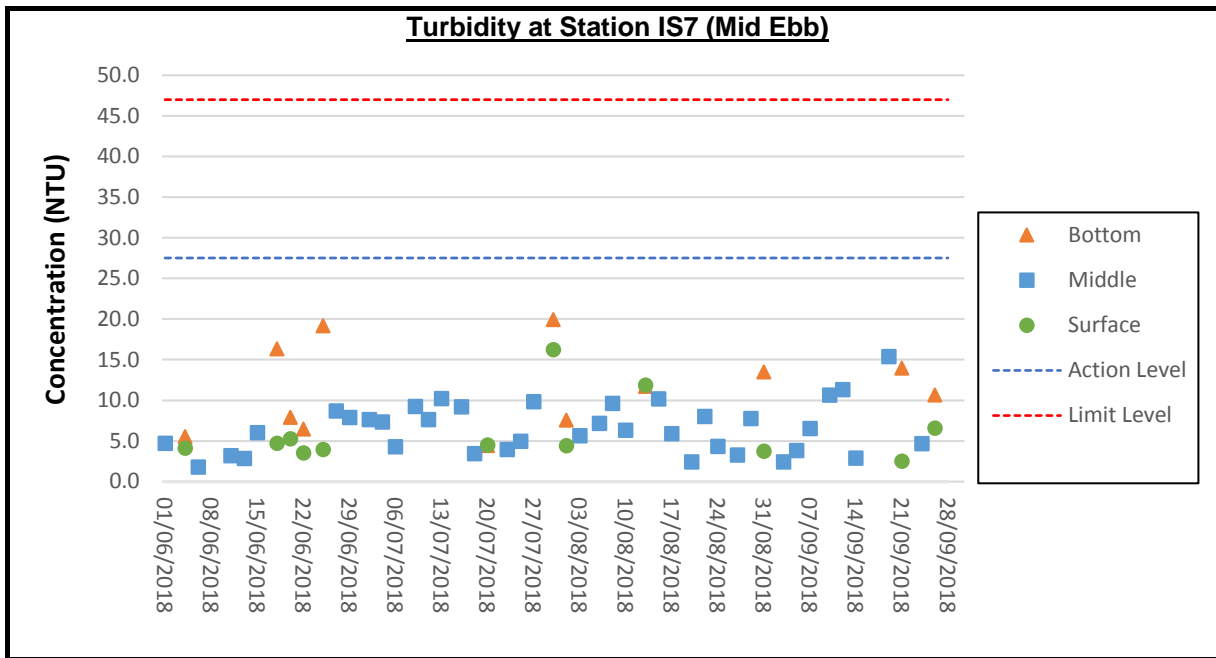
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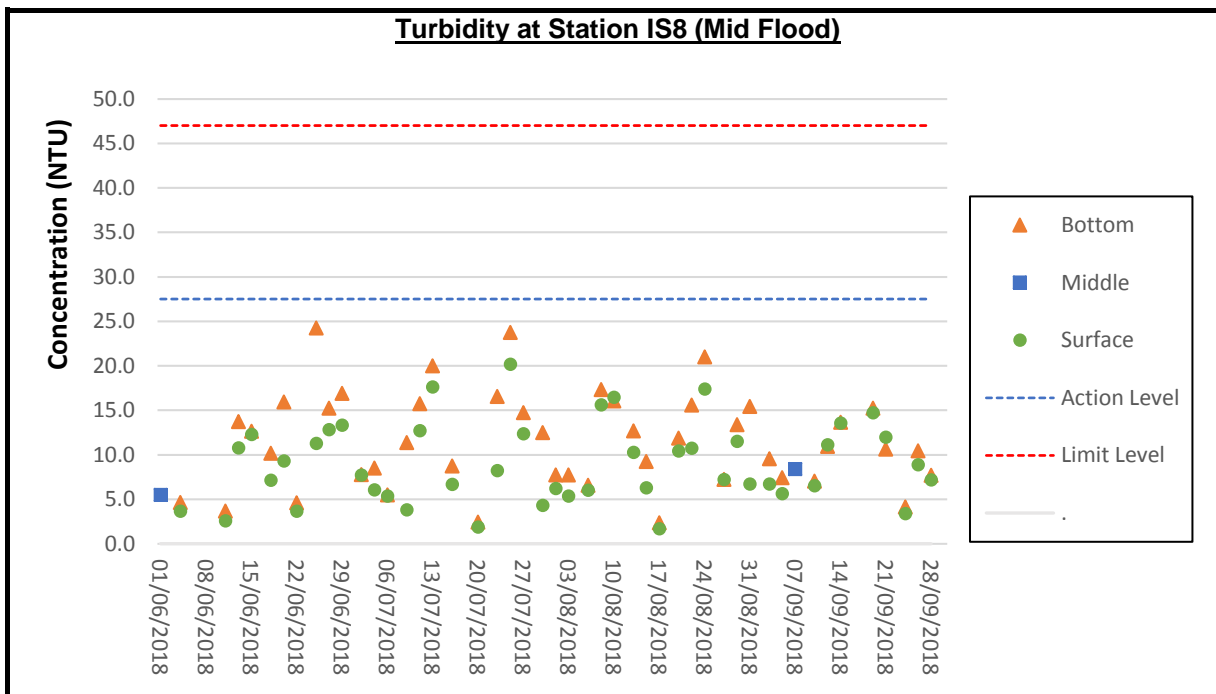
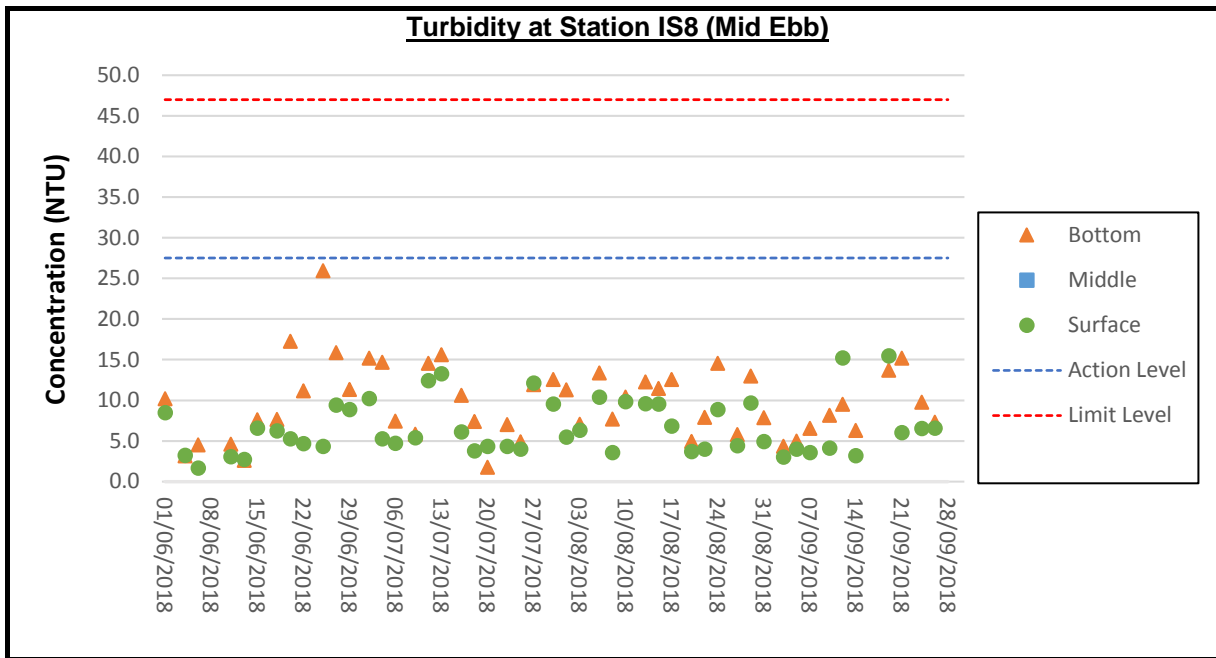
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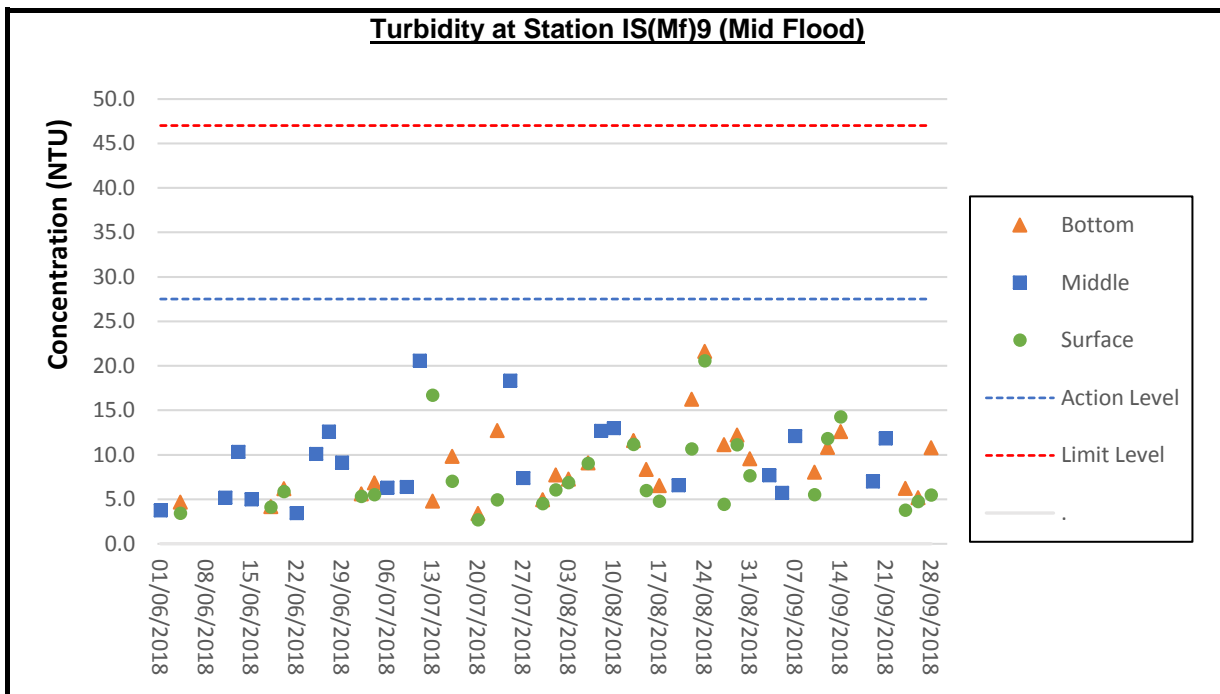
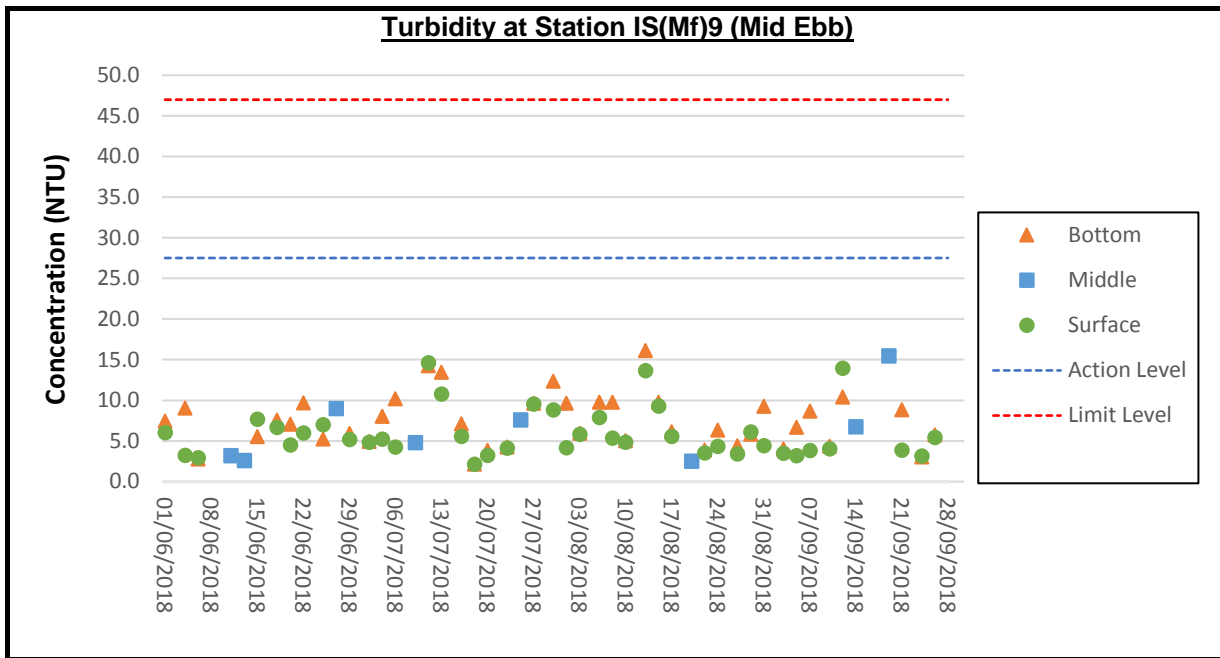
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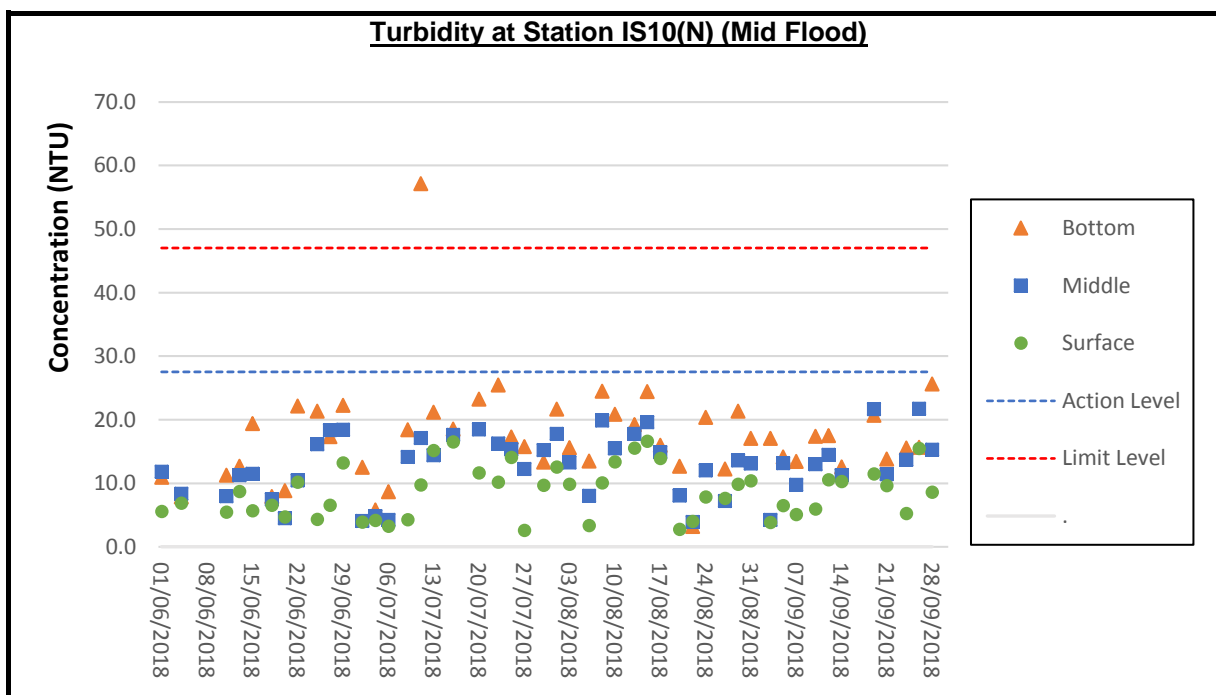
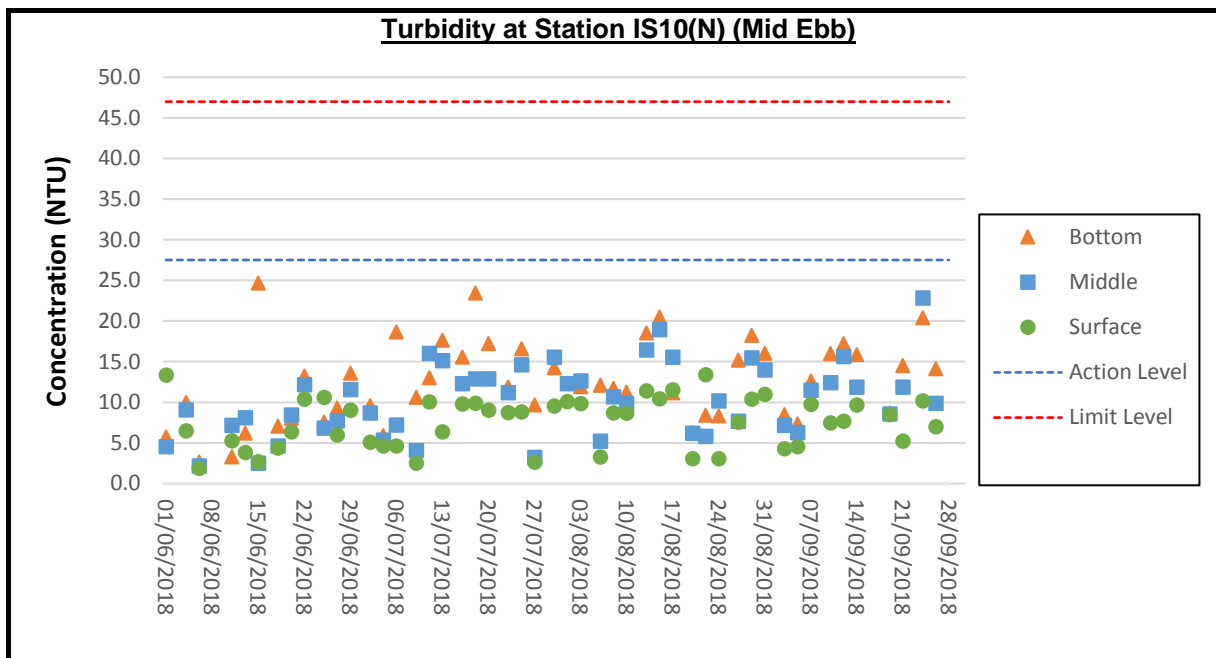
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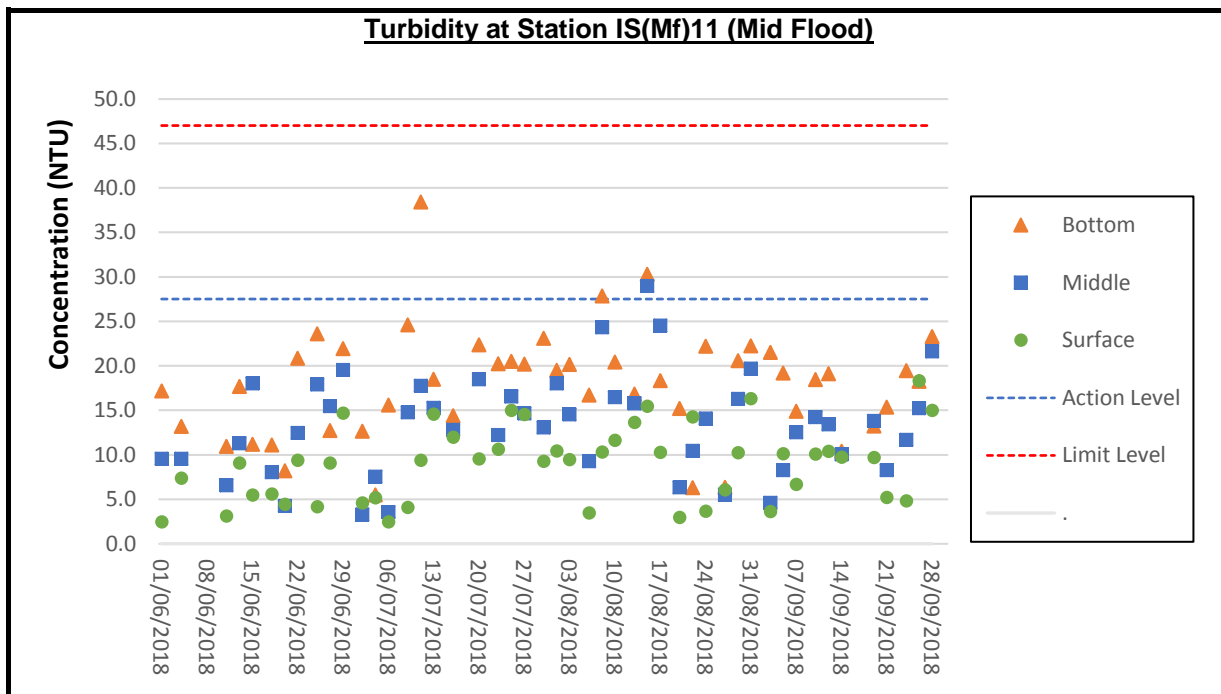
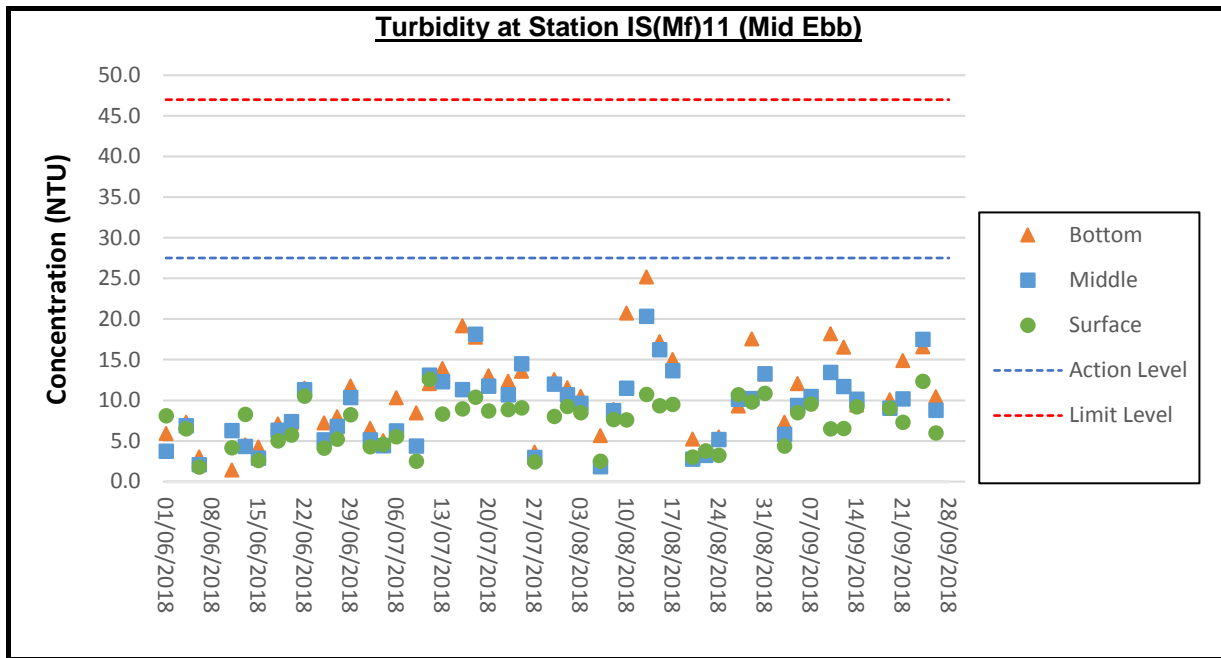
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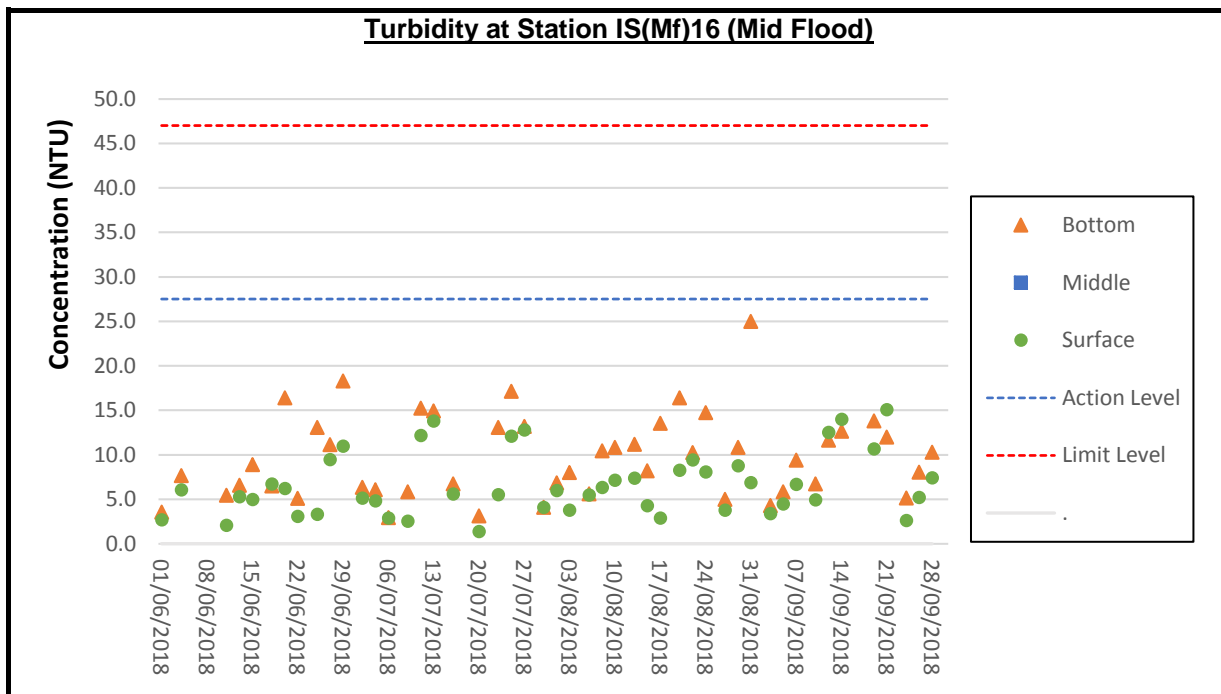
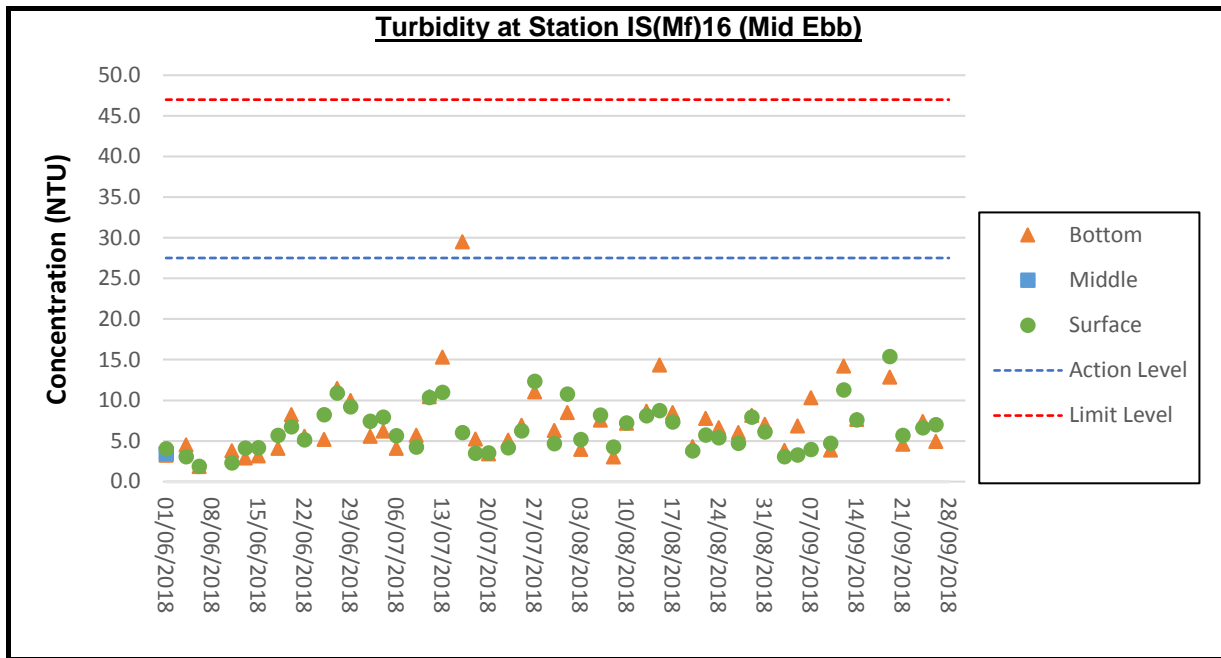
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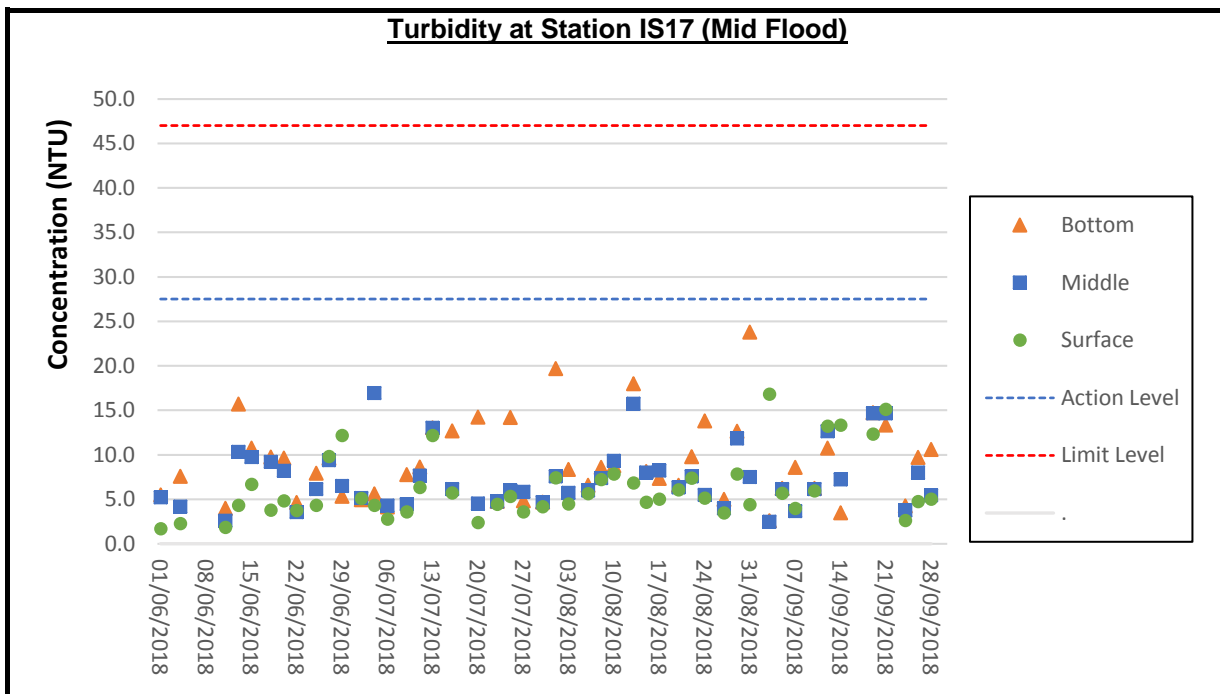
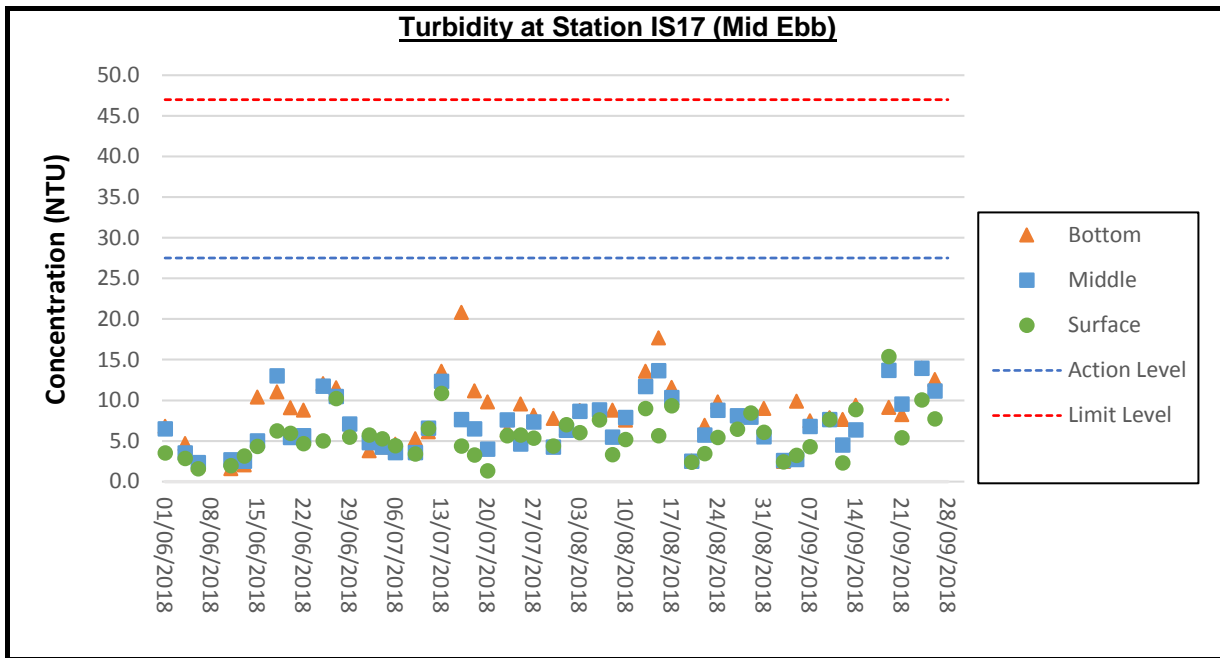
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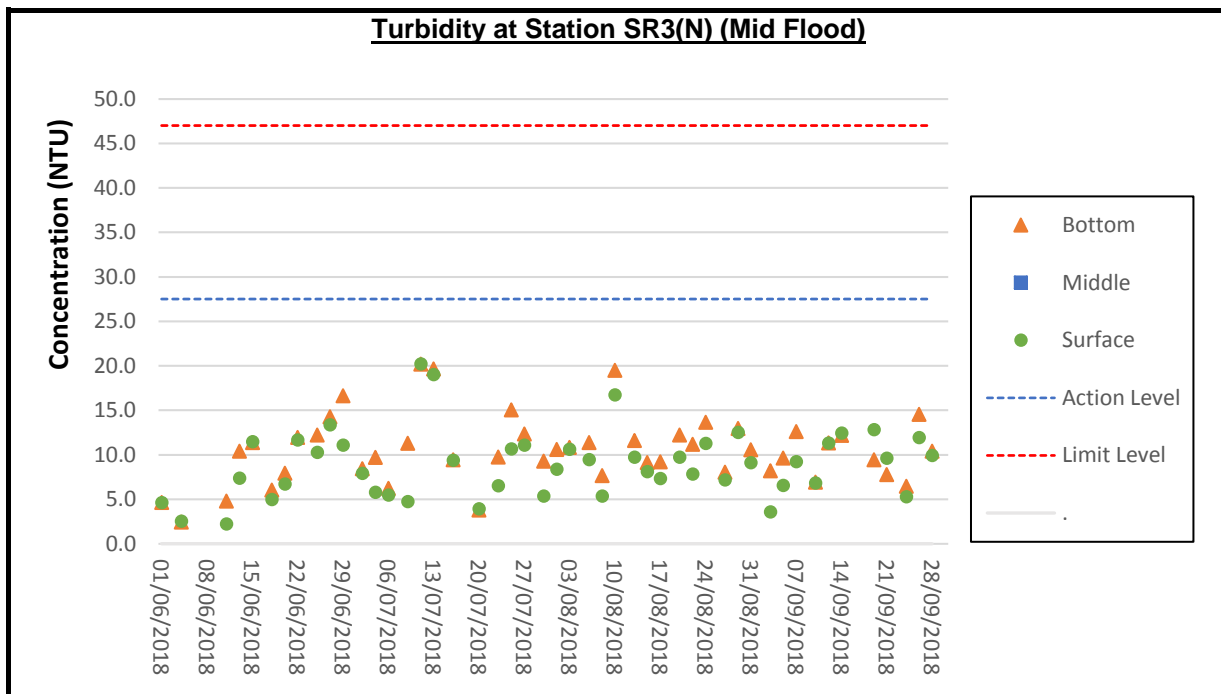
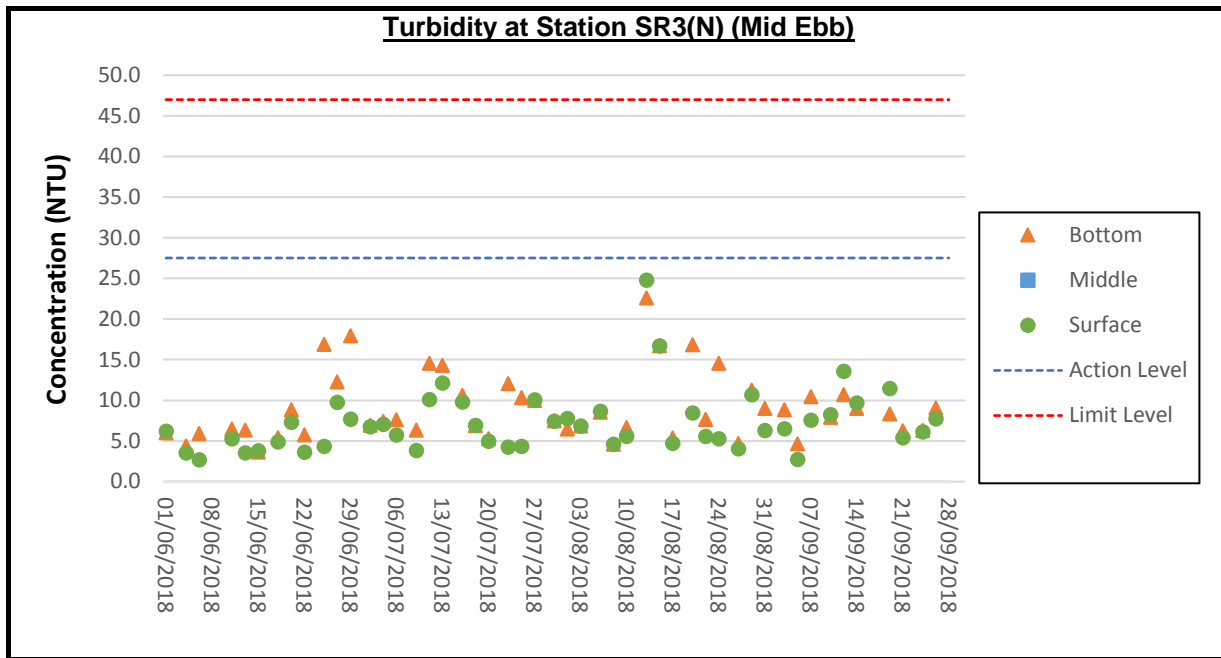
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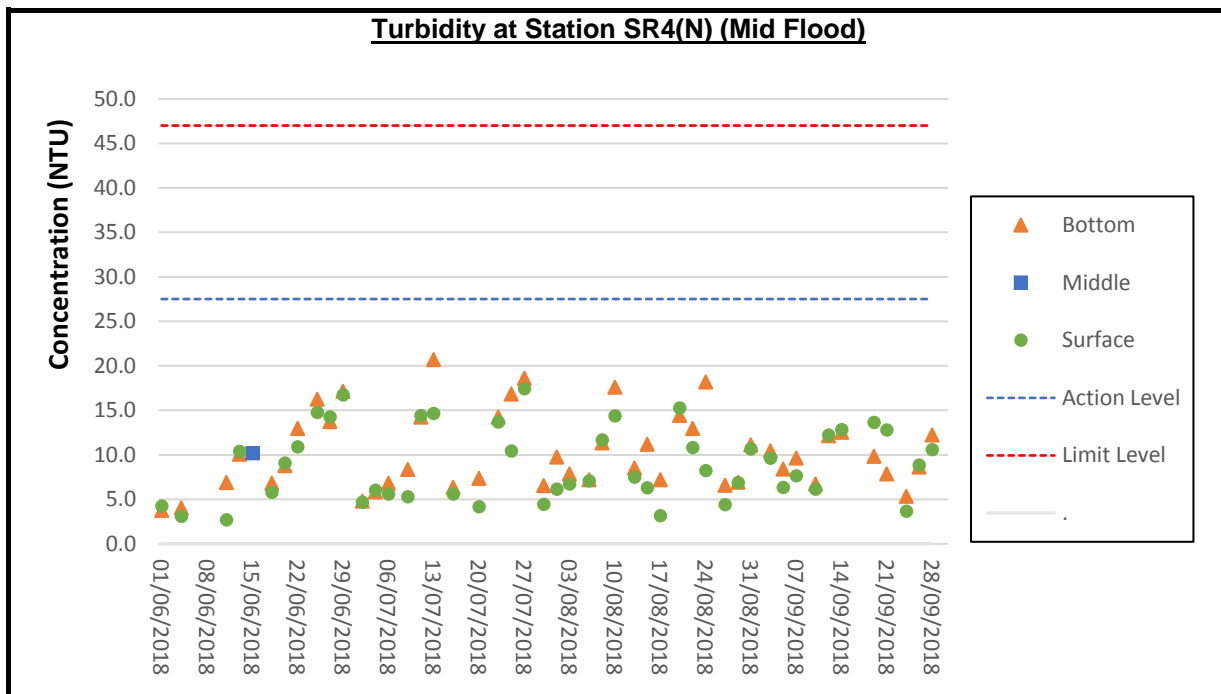
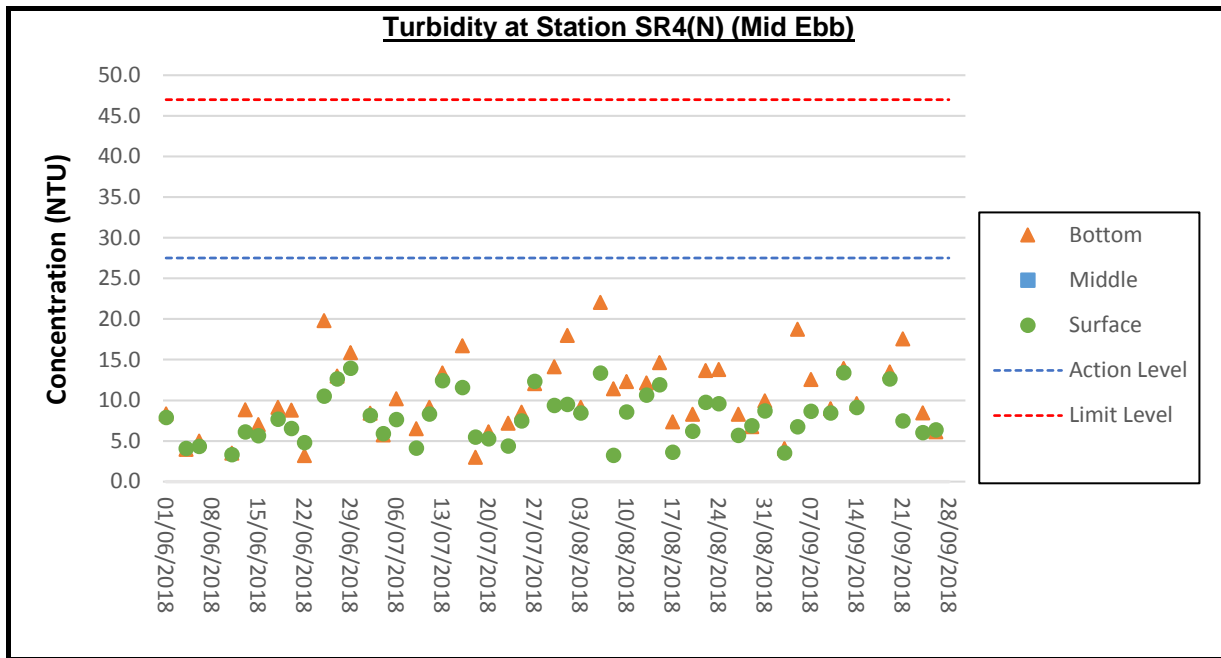
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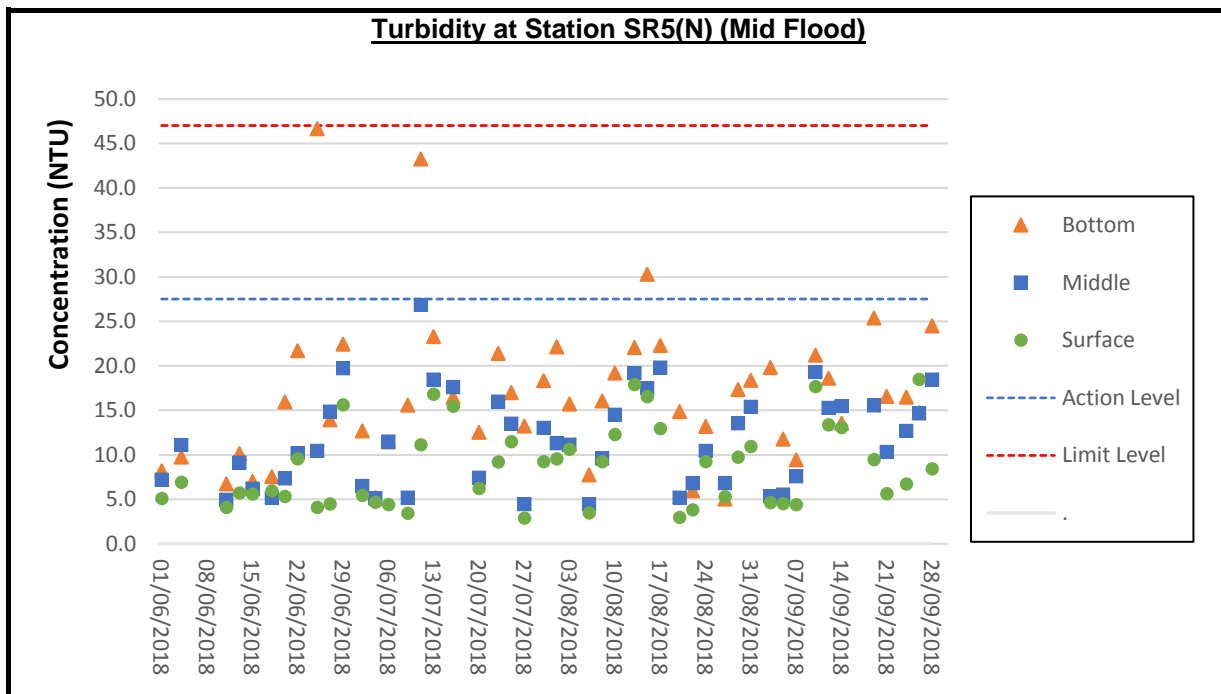
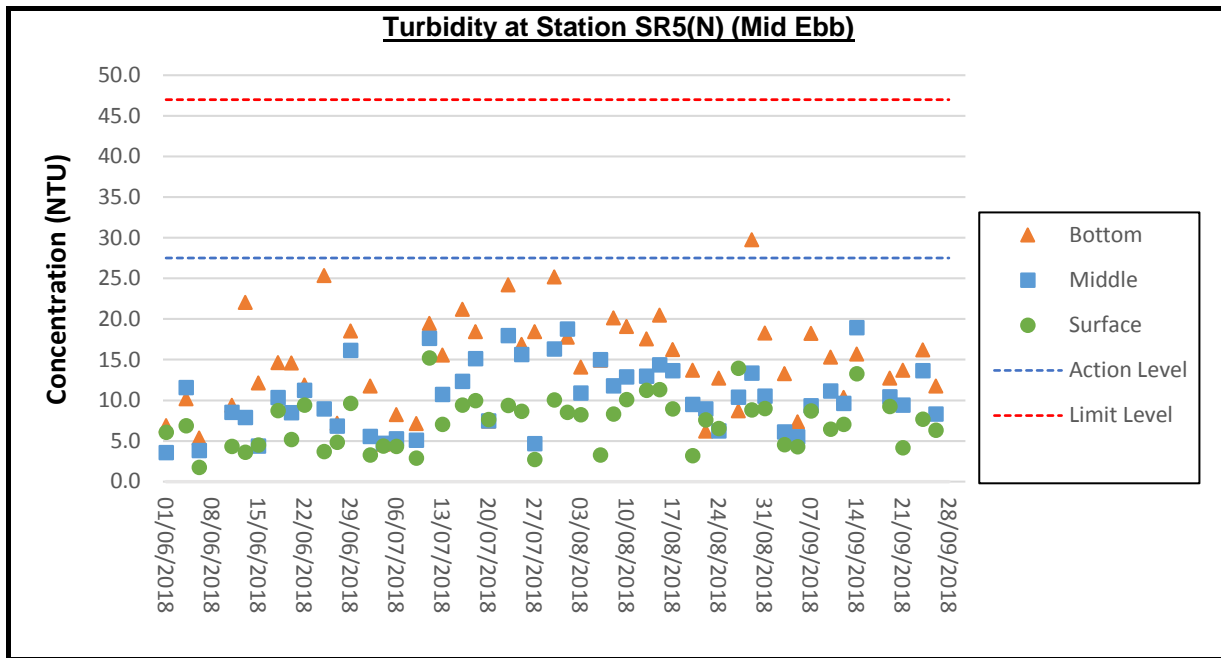
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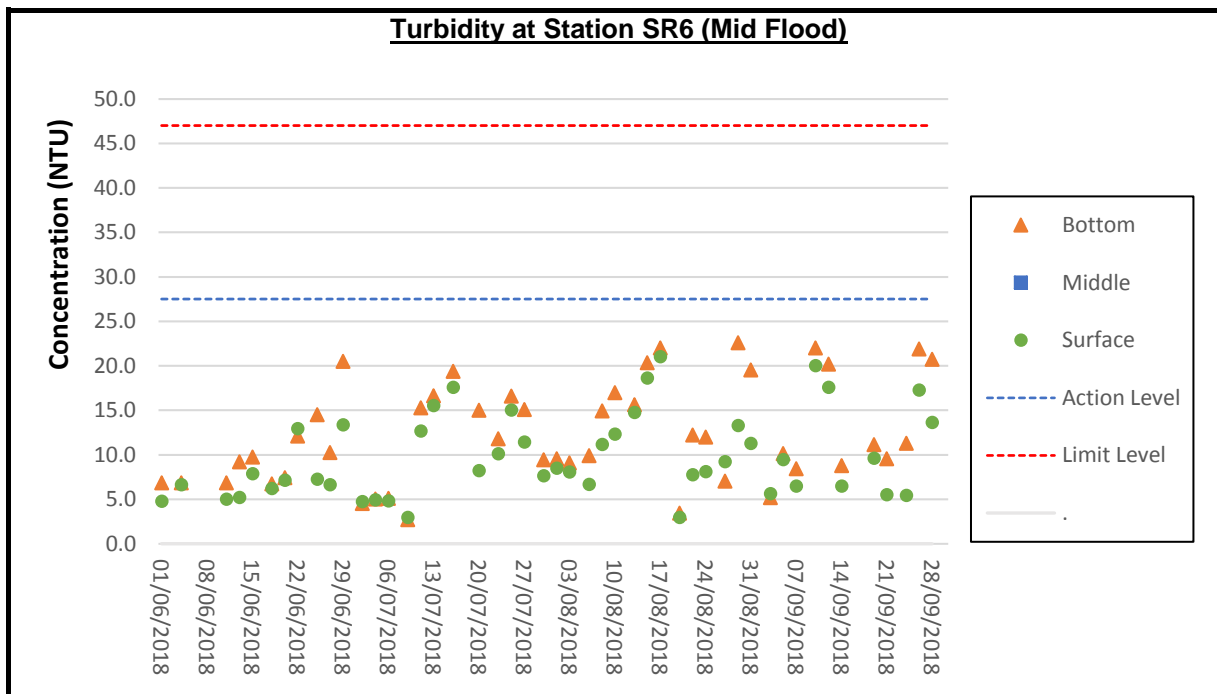
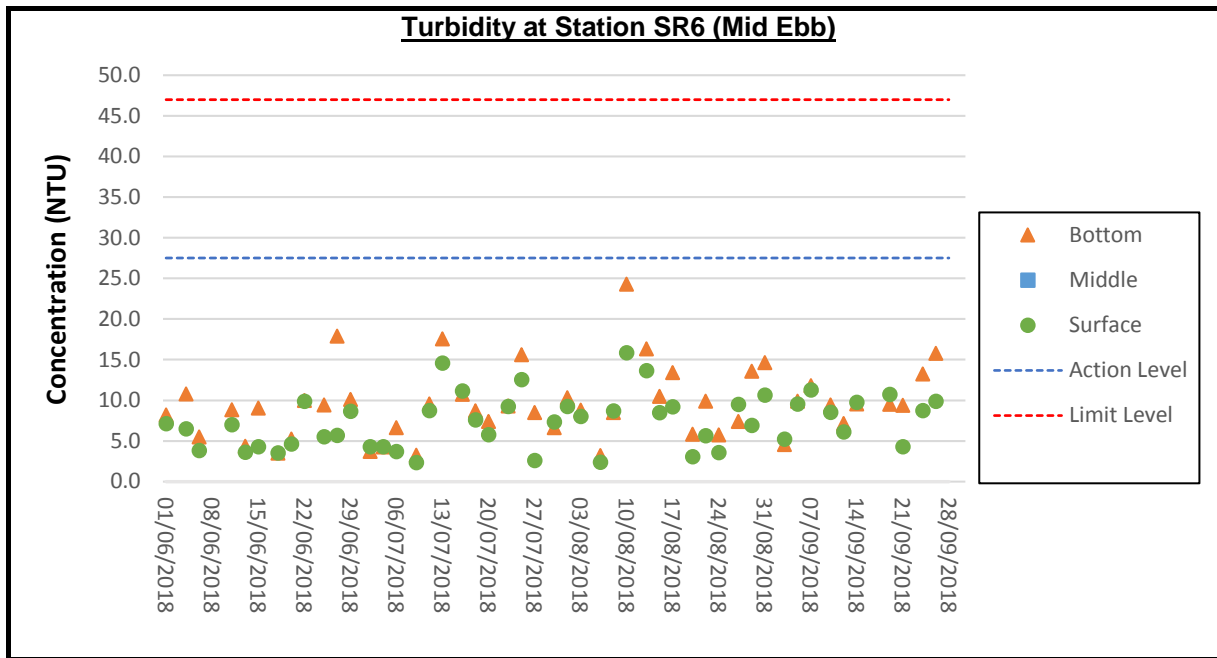
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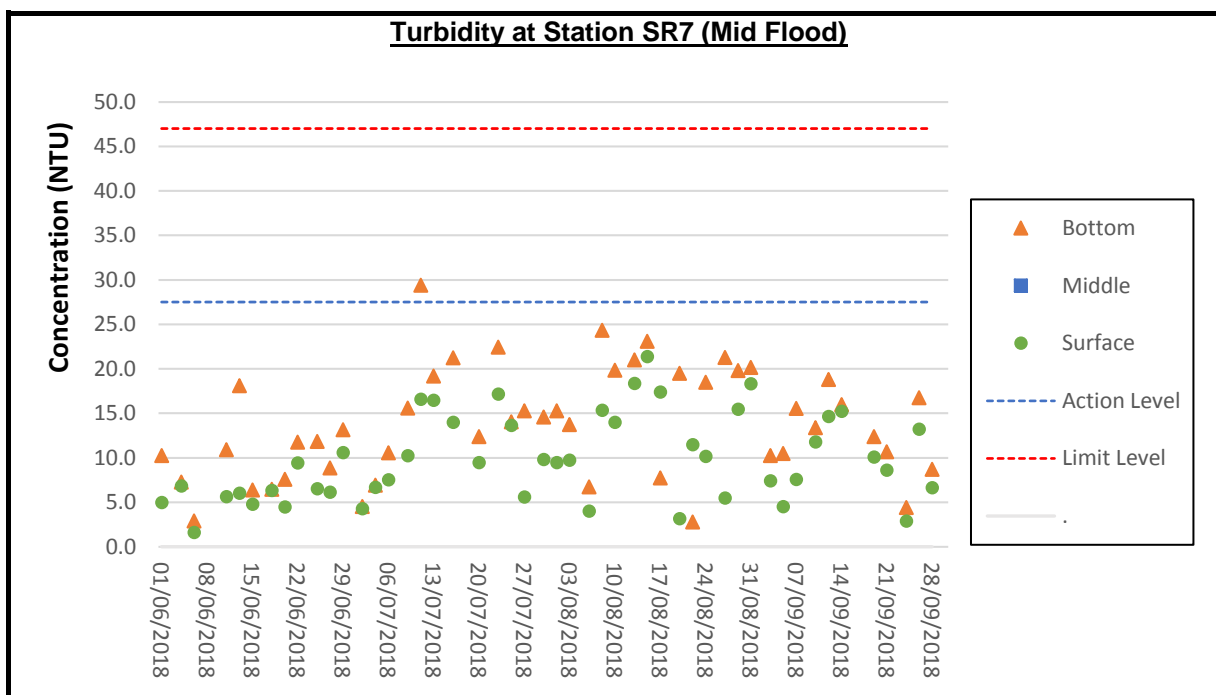
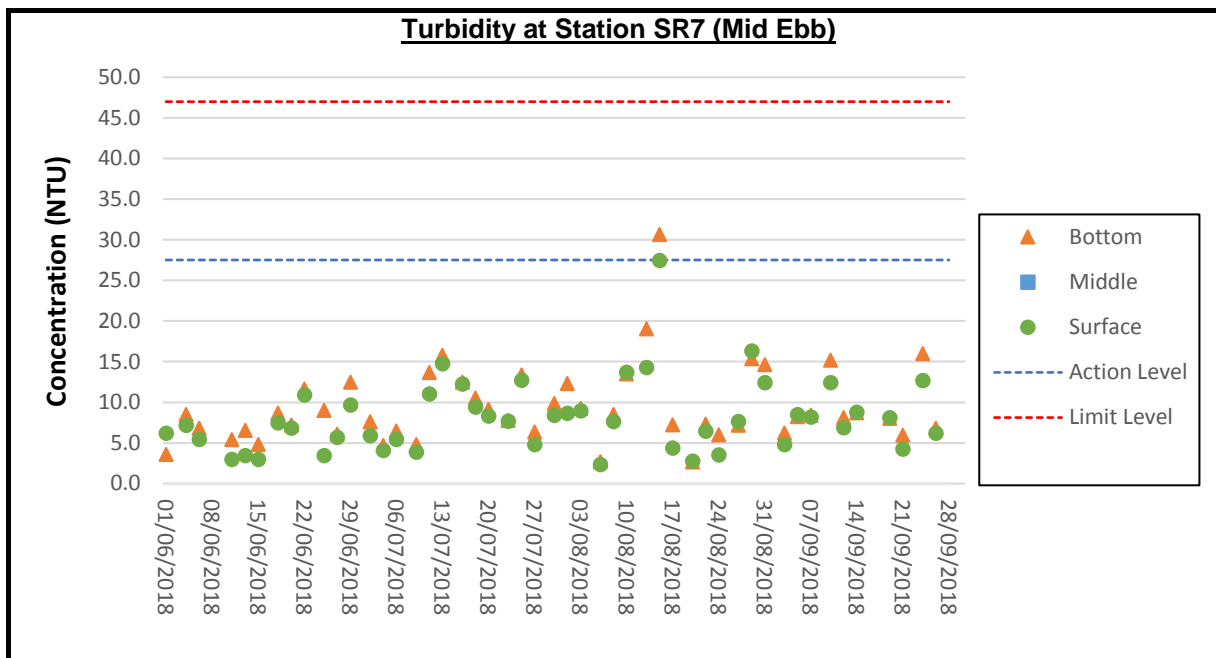
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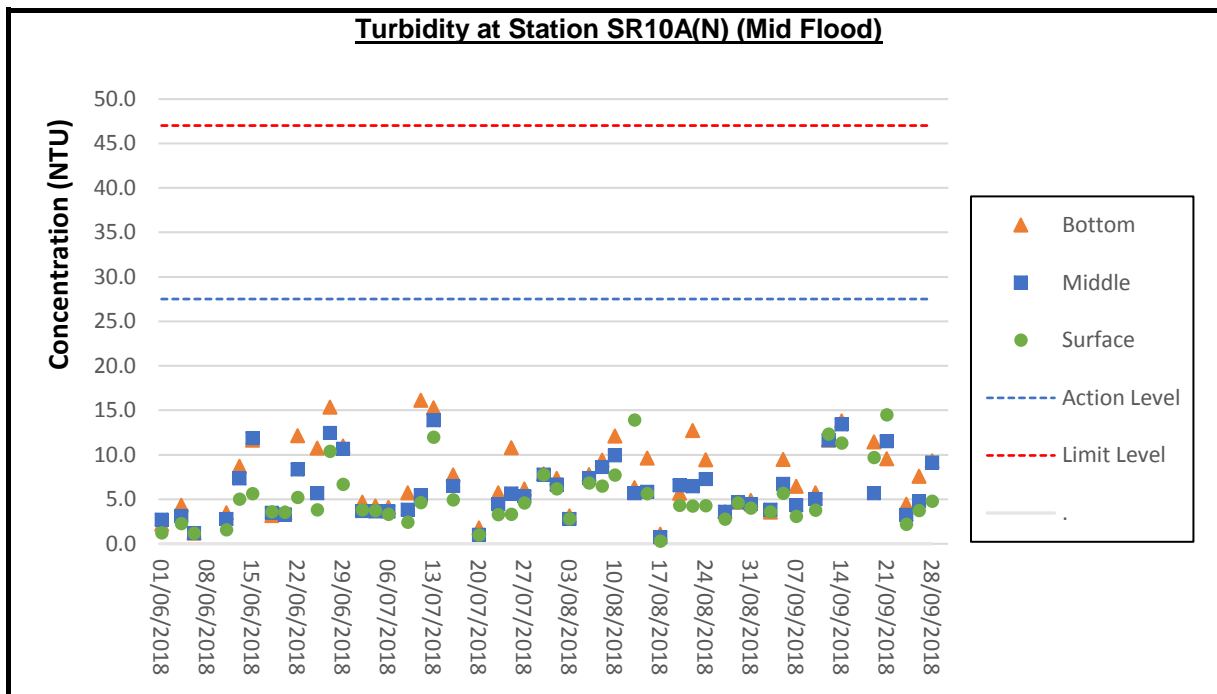
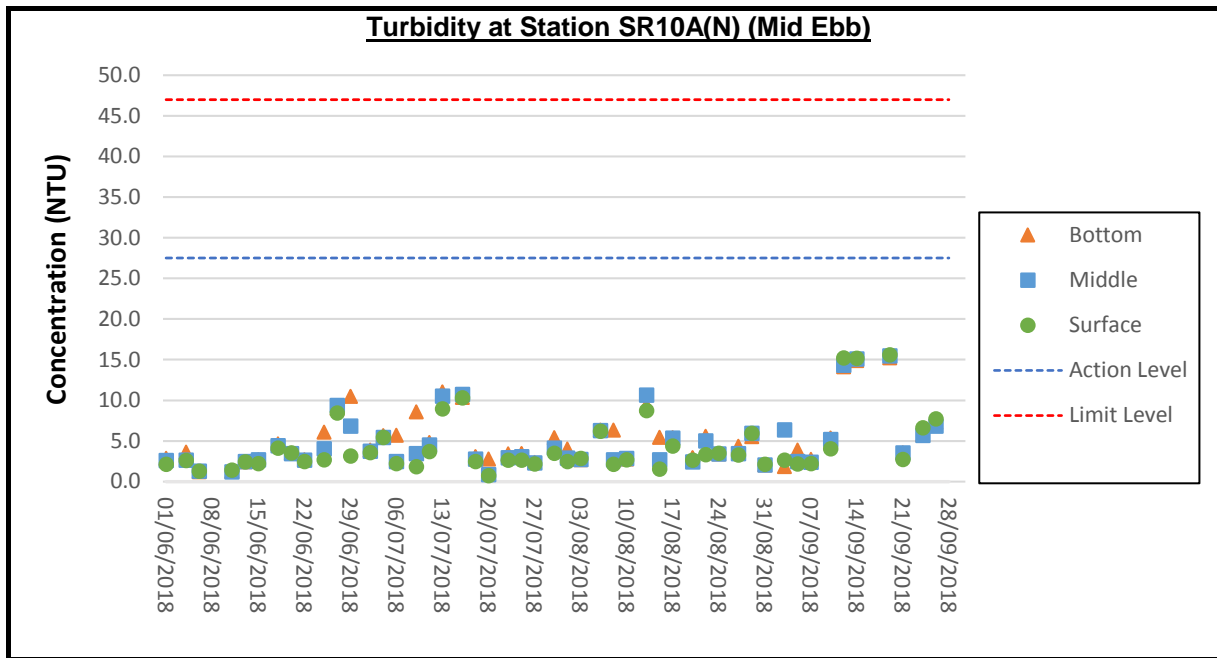
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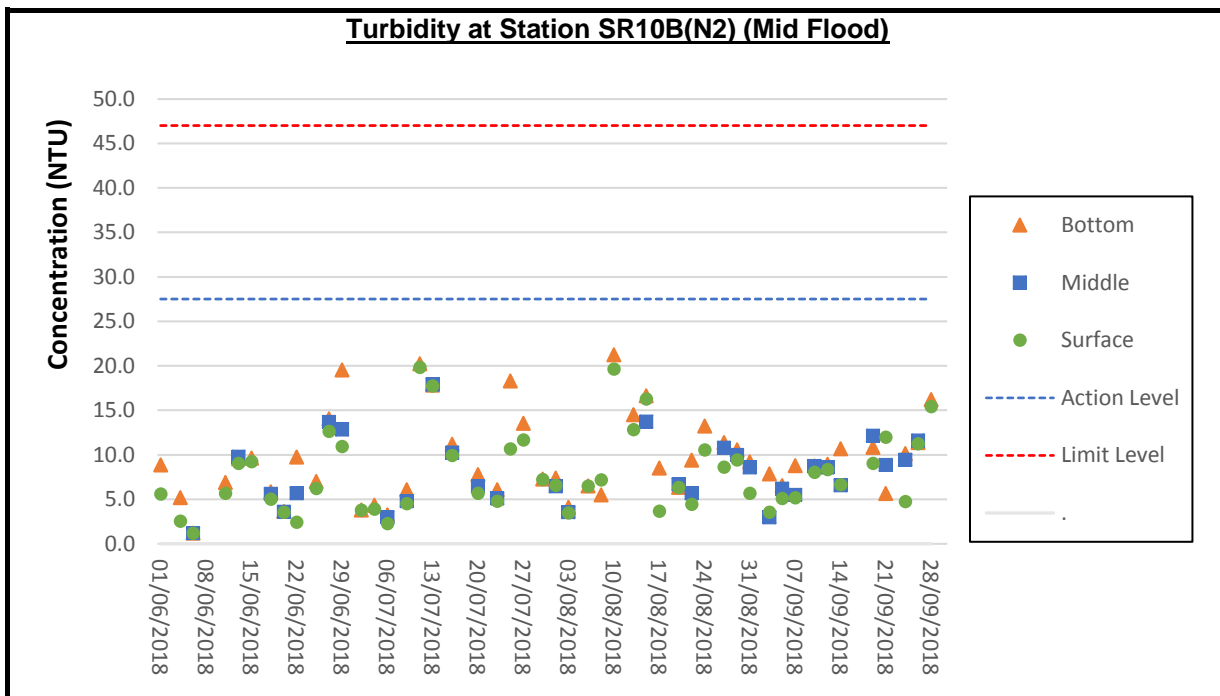
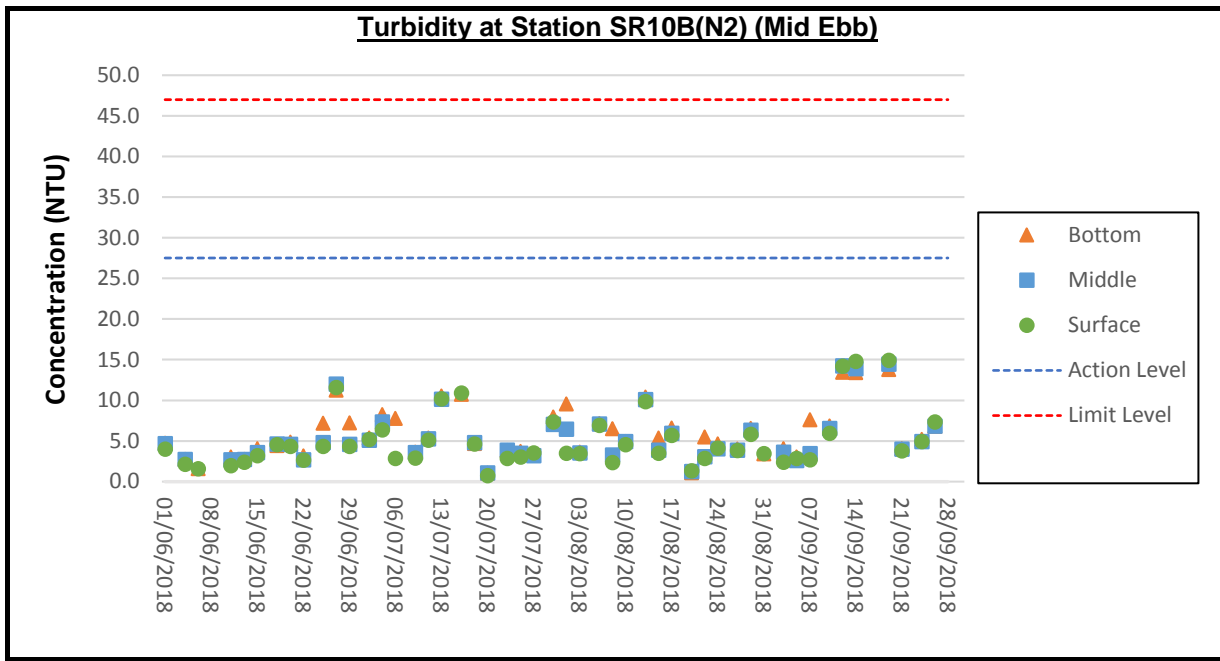
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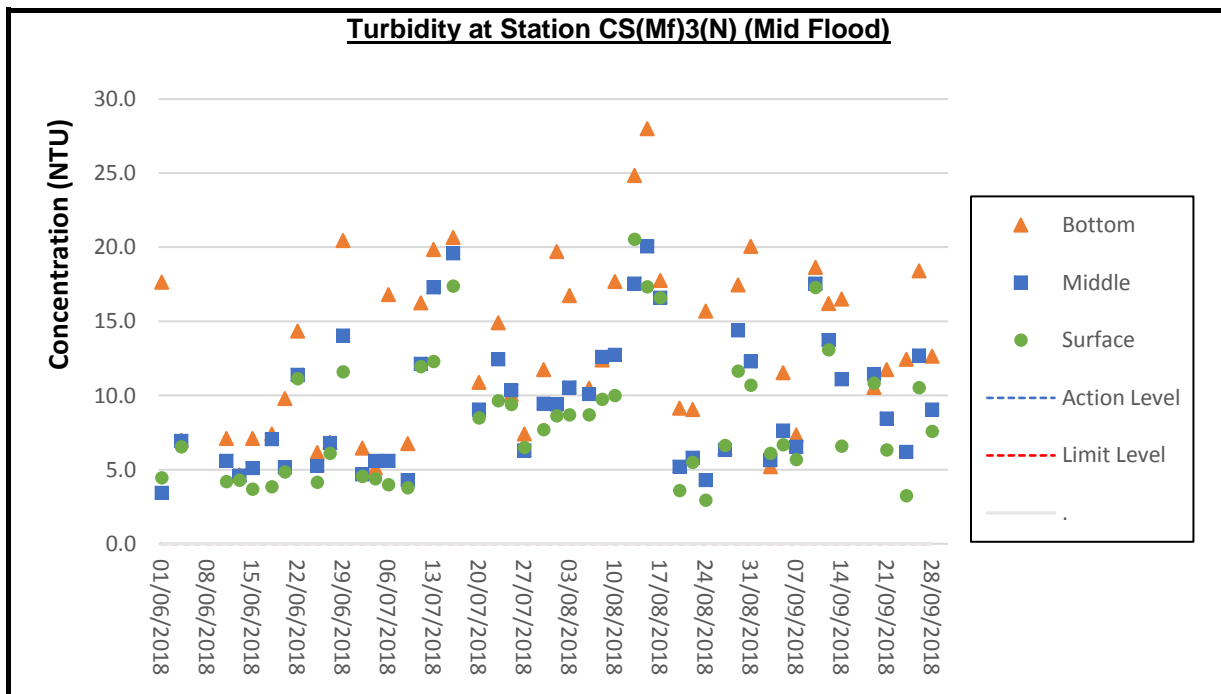
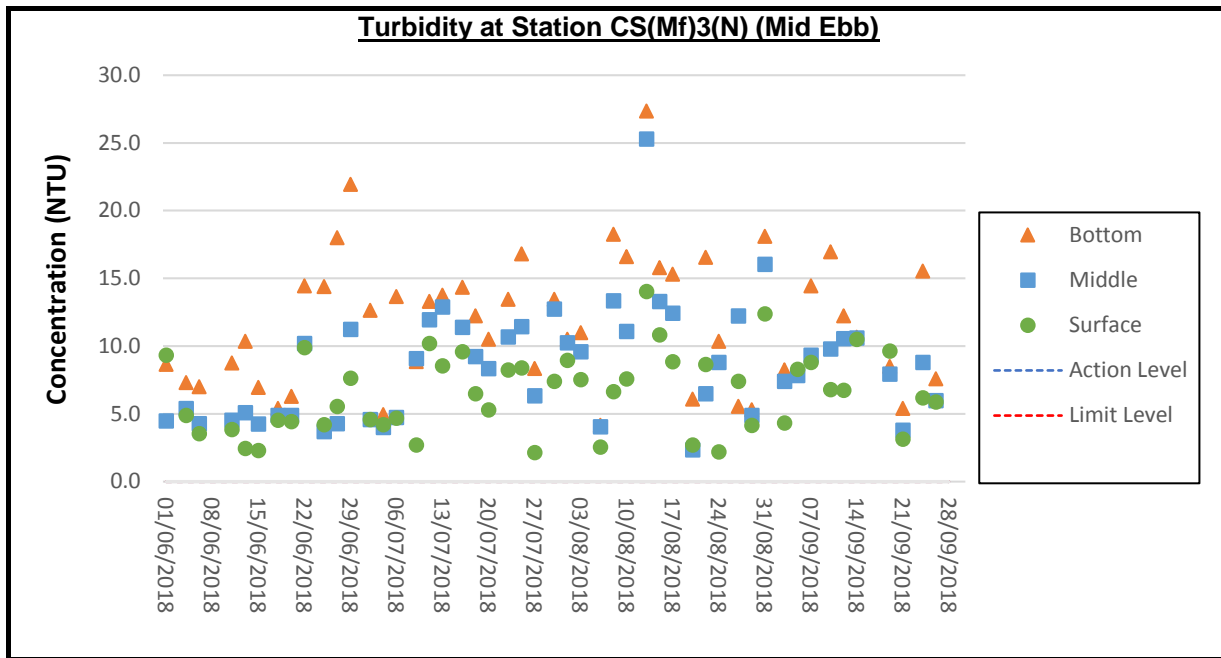
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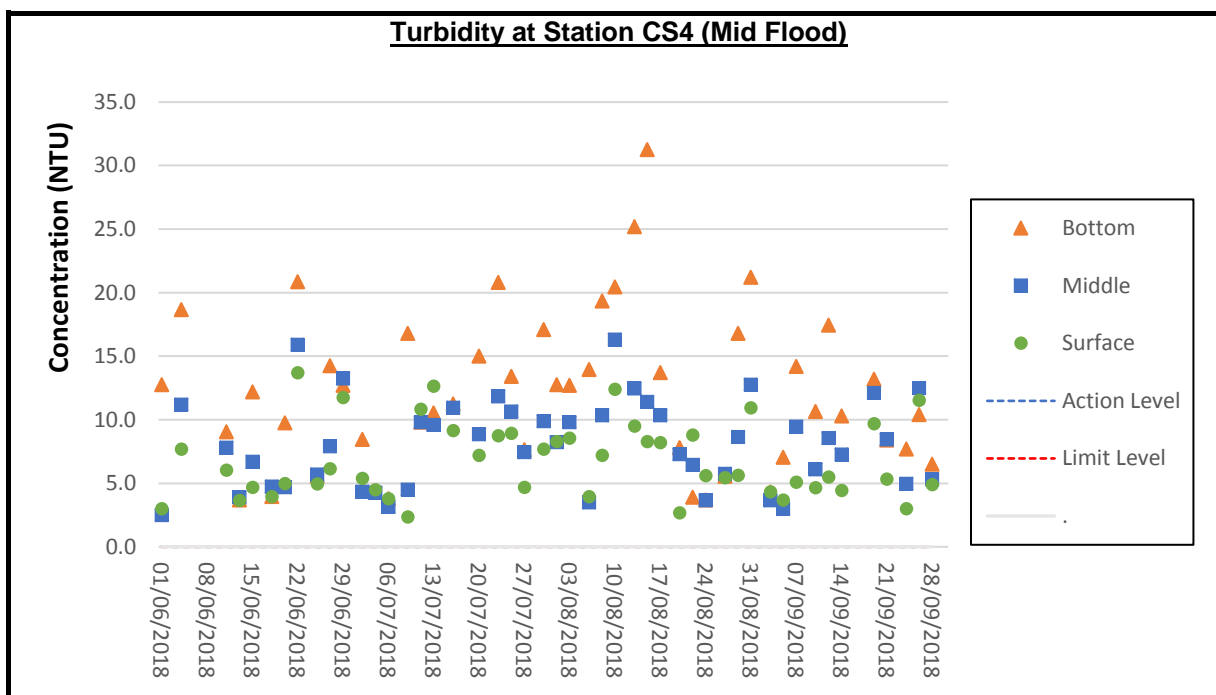
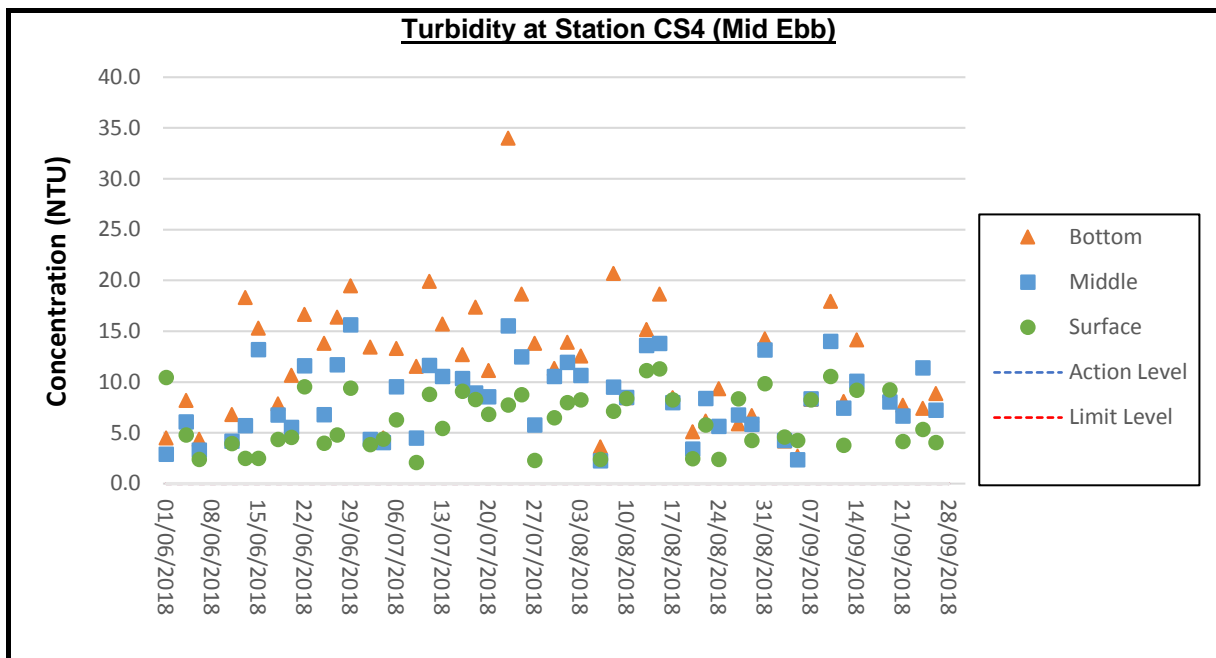
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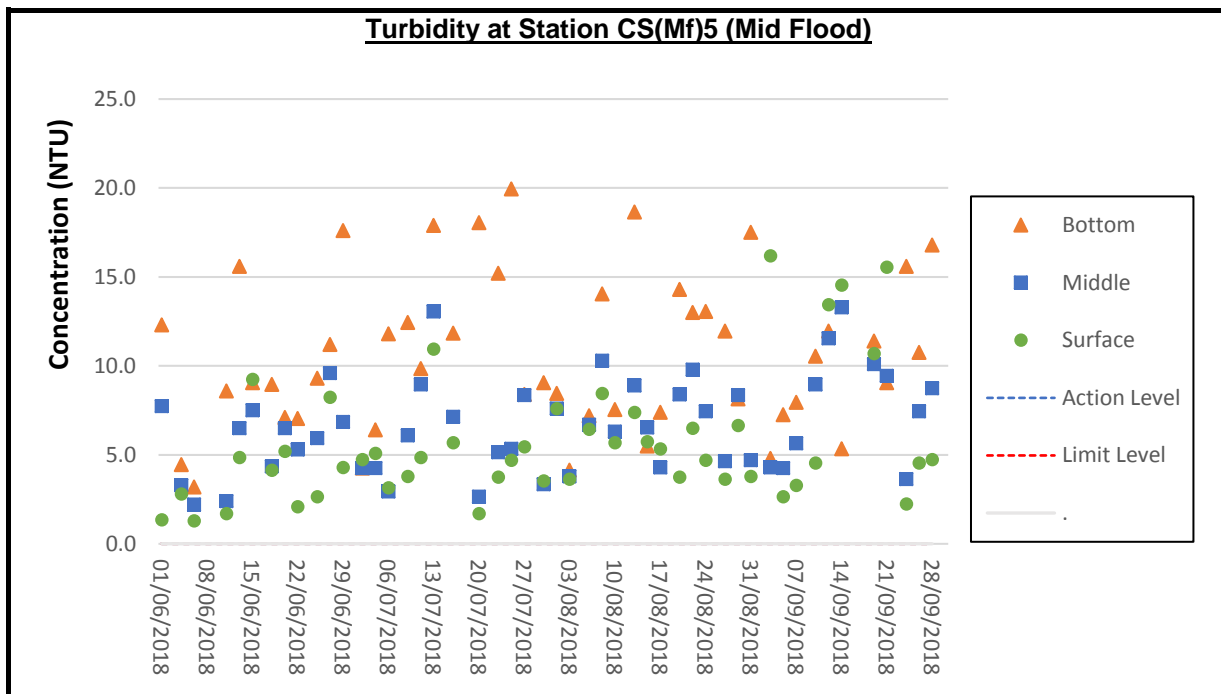
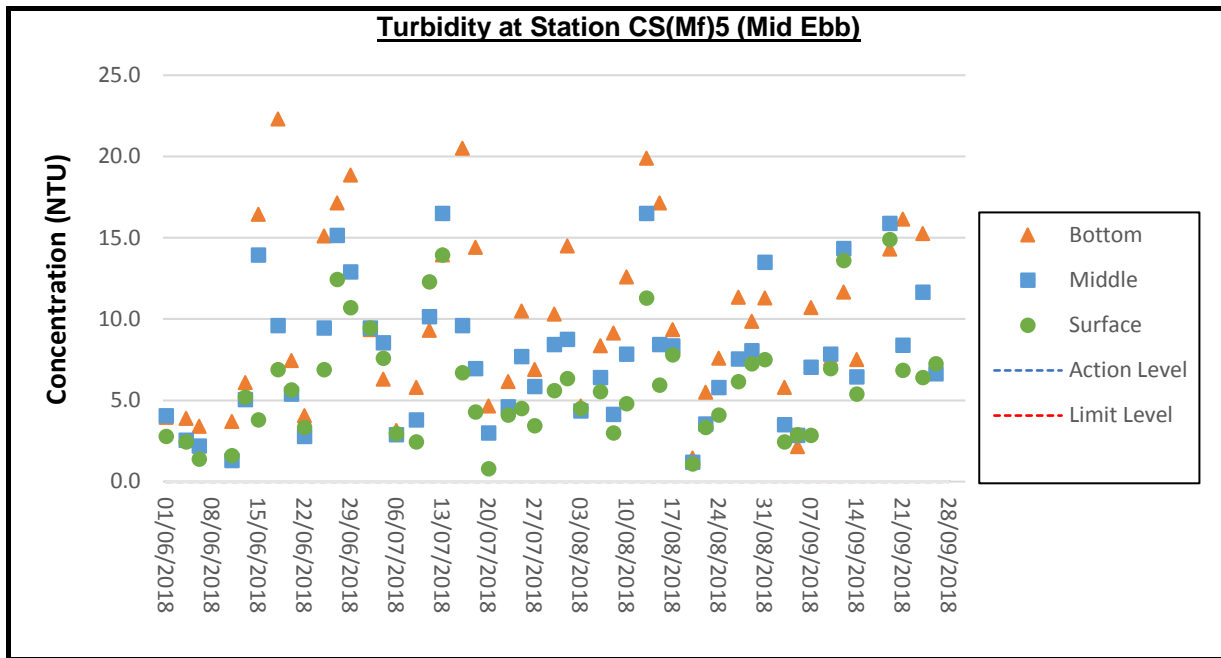
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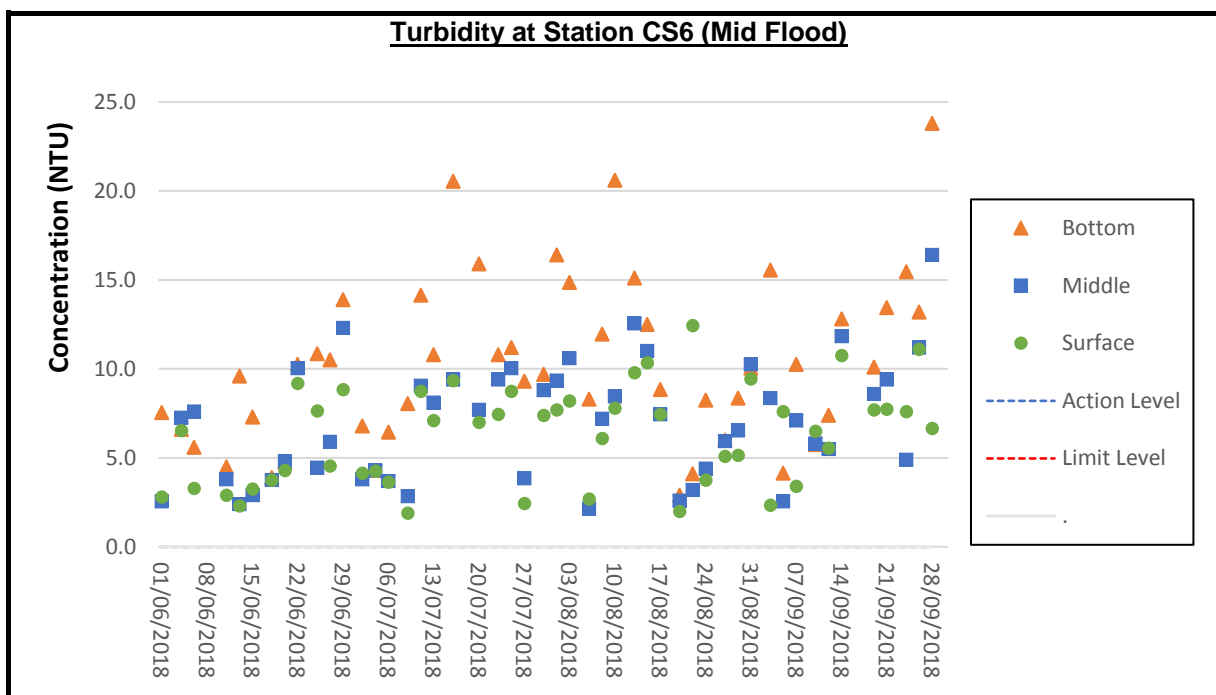
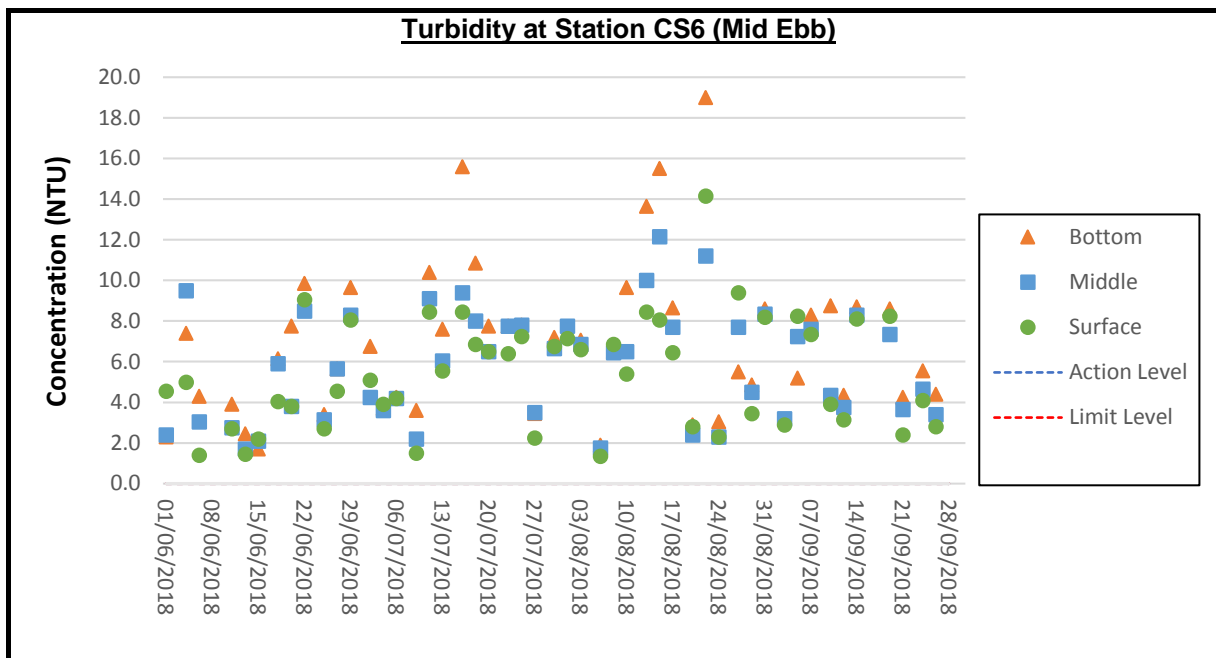
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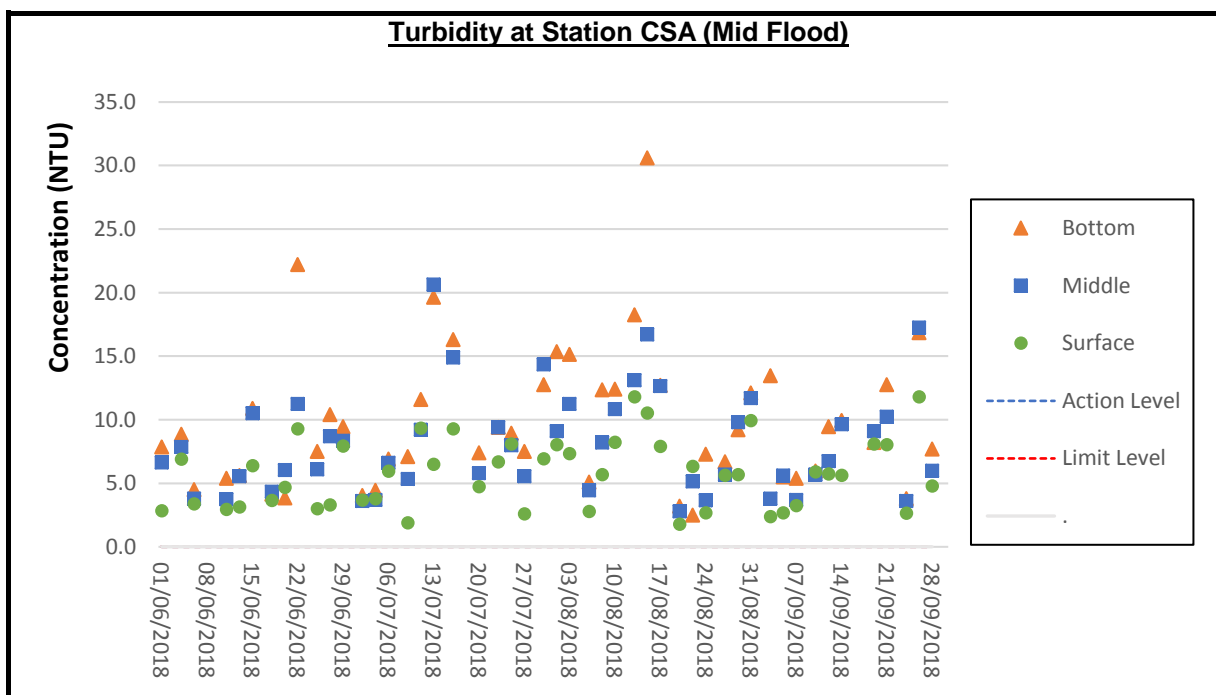
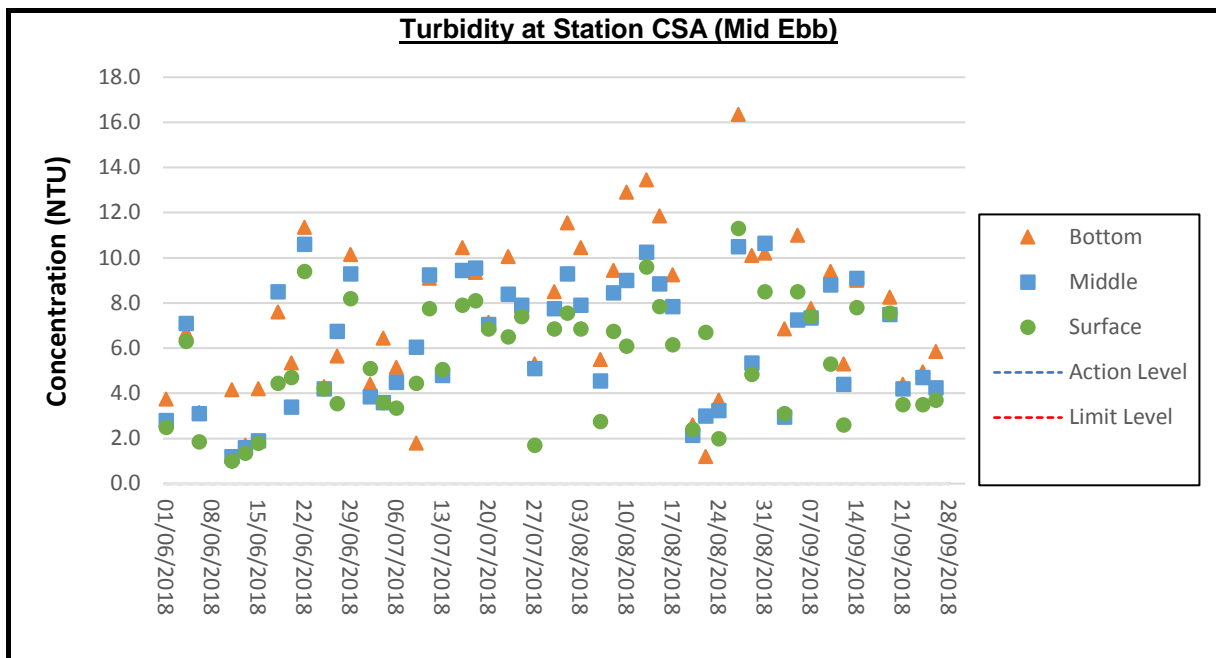
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路政署  
**HIGHWAYS DEPARTMENT**

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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX E

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(Dolphin Monitoring Result)

**CONTRACT NO. HY/2013/01**

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

*14<sup>th</sup> Monthly Progress Report (September 2018)  
submitted to Leighton – Chun Wo Joint Venture*

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

22 November 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 14<sup>th</sup> 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 September 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 10<sup>th</sup>, 14<sup>th</sup>, 19<sup>th</sup> and 24<sup>th</sup> of September 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 261.80 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 September's surveys (Appendix I).
- 3.1.3. Among the two areas, 97.50 km and 164.30 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 189.51 km and 72.29 km respectively (Appendix I).
- 3.1.4. During the two sets of monitoring surveys in September 2018, only one group of three Chinese White Dolphins were sighted (Appendix II). The lone dolphin sighting was made in NWL, while none was sighted in NEL. Moreover, the dolphin group was sighted on primary lines during on-effort search, and it was not associated with any operating fishing vessel (Appendix II).
- 3.1.5. Distribution of the dolphin sighting made in September 2018 is shown in Figure 6. The lone sighting was made at the northeast corner of Lung Kwu Chau (Figure 6). Notably, the dolphin group was sighted very far away from the HKBCF reclamation site, as well as the HKLR03 reclamation site and both alignments of HKLR09 and TMCLKL (Figure 6).

3.1.6. During the September 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 September 2018 in Northeast (NEL) and Northwest Lantau (NWL)

		Encounter rate (STG)	Encounter rate (ANI)
		(no. of on-effort dolphin sightings per 100 km of survey effort)	(no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: September 10 <sup>th</sup> / 14 <sup>th</sup>	0.0	0.0
	Set 2: September 19 <sup>th</sup> / 24 <sup>th</sup>	0.0	0.0
NWL	Set 1: September 10 <sup>th</sup> / 14 <sup>th</sup>	1.7	5.0
	Set 2: September 19 <sup>th</sup> / 24 <sup>th</sup>	0.0	0.0

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

	Encounter rate (STG)		Encounter rate (ANI)	
	(no. of on-effort dolphin sightings per 100 km of survey effort)		(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	0.9	0.6	2.6	1.8

3.1.7. As there was only one group of three dolphins sighted during the month, the average dolphin group size in September 2018 was 3.0 individual per group.

### 3.2. Photo-identification Work

3.2.1. Three known individual dolphins were re-sighted three times during the September's surveys (Appendices III and IV). All three of them were re-sighted only once during the monitoring month.

3.2.2. None of the identified individuals was accompanied with any young calf during their

re-sightings in September 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.
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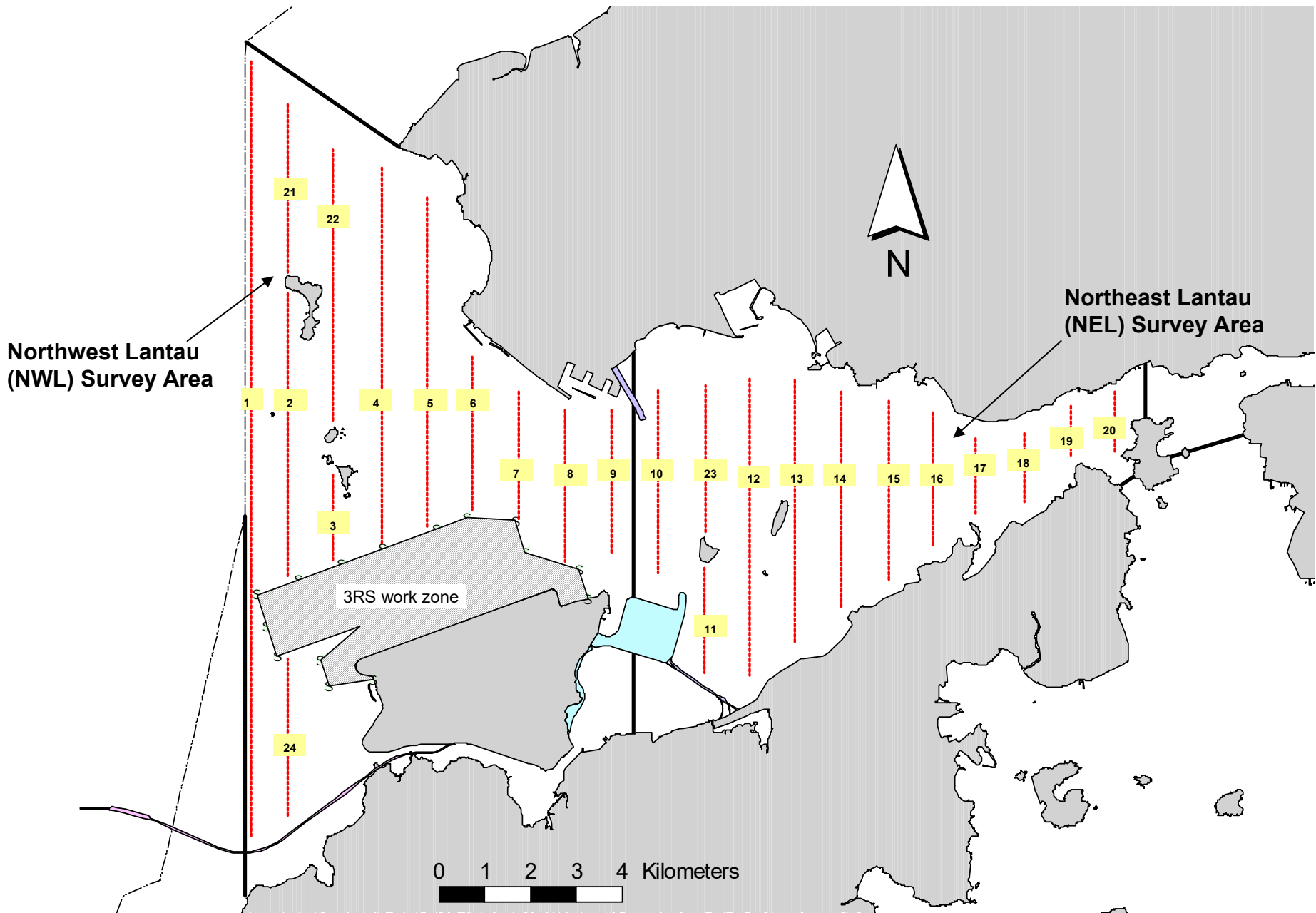


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

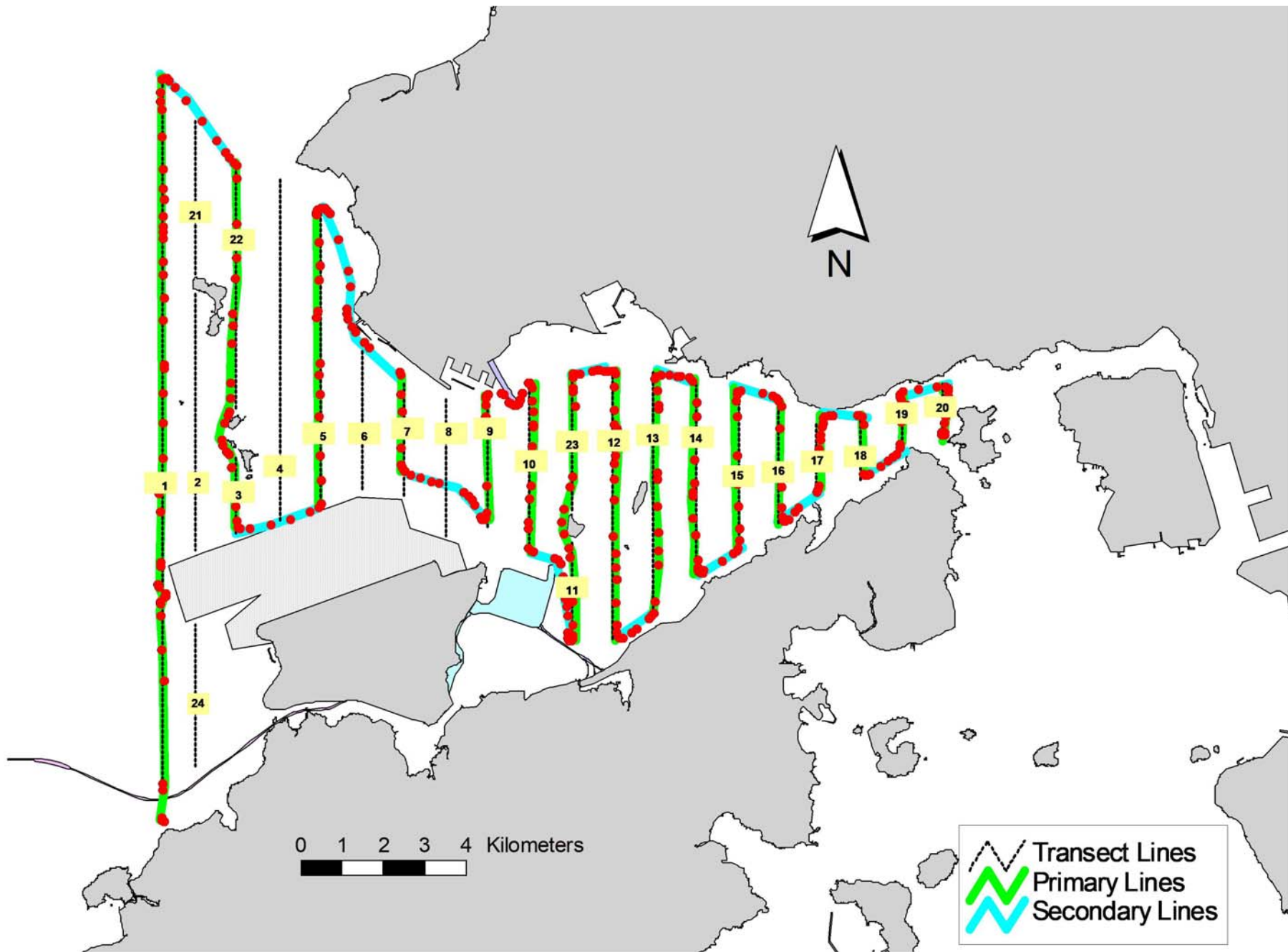


Figure 2. Survey Route on September 10<sup>th</sup>, 2018



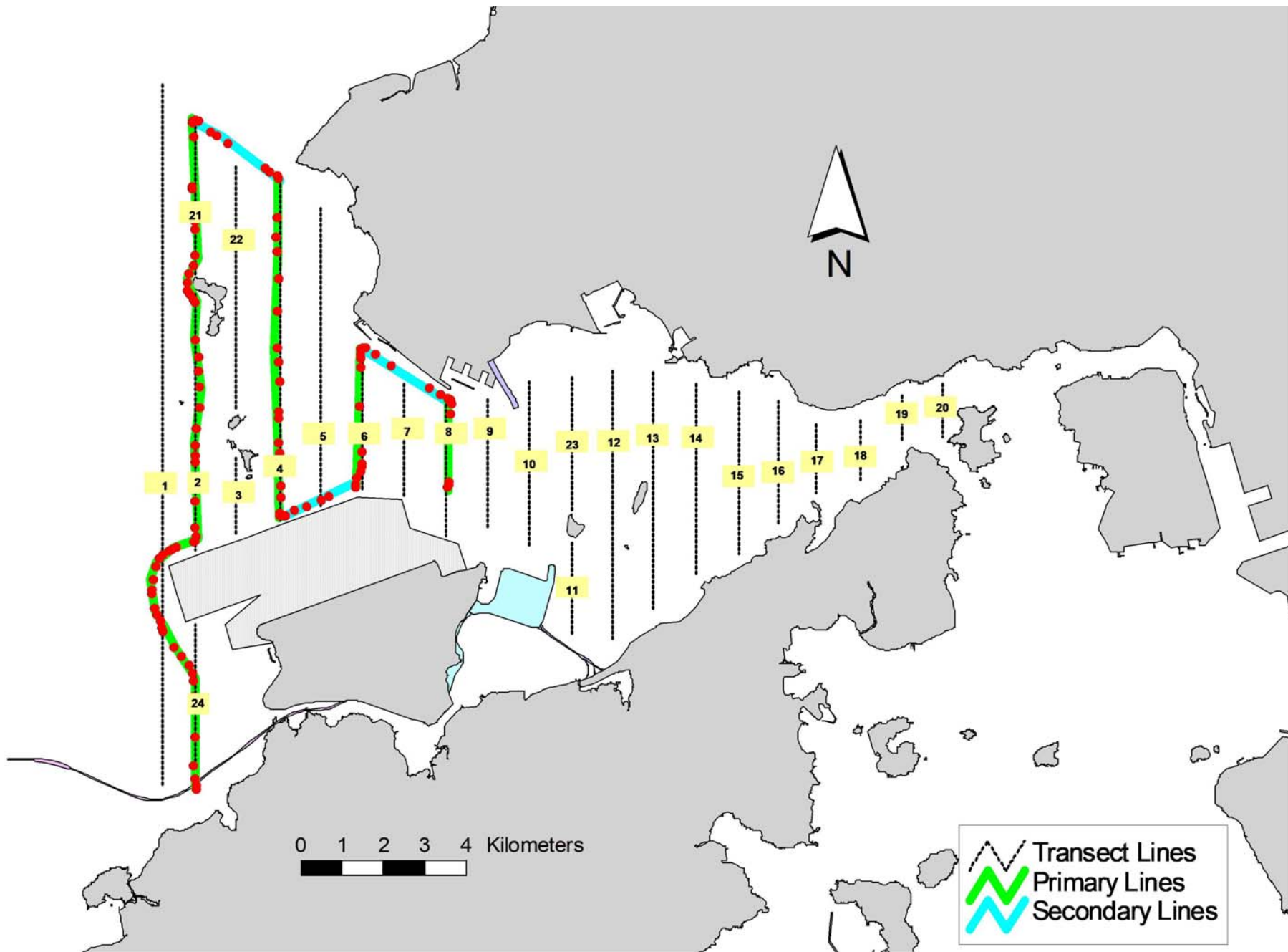


Figure 3. Survey Route on September 14<sup>th</sup>, 2018

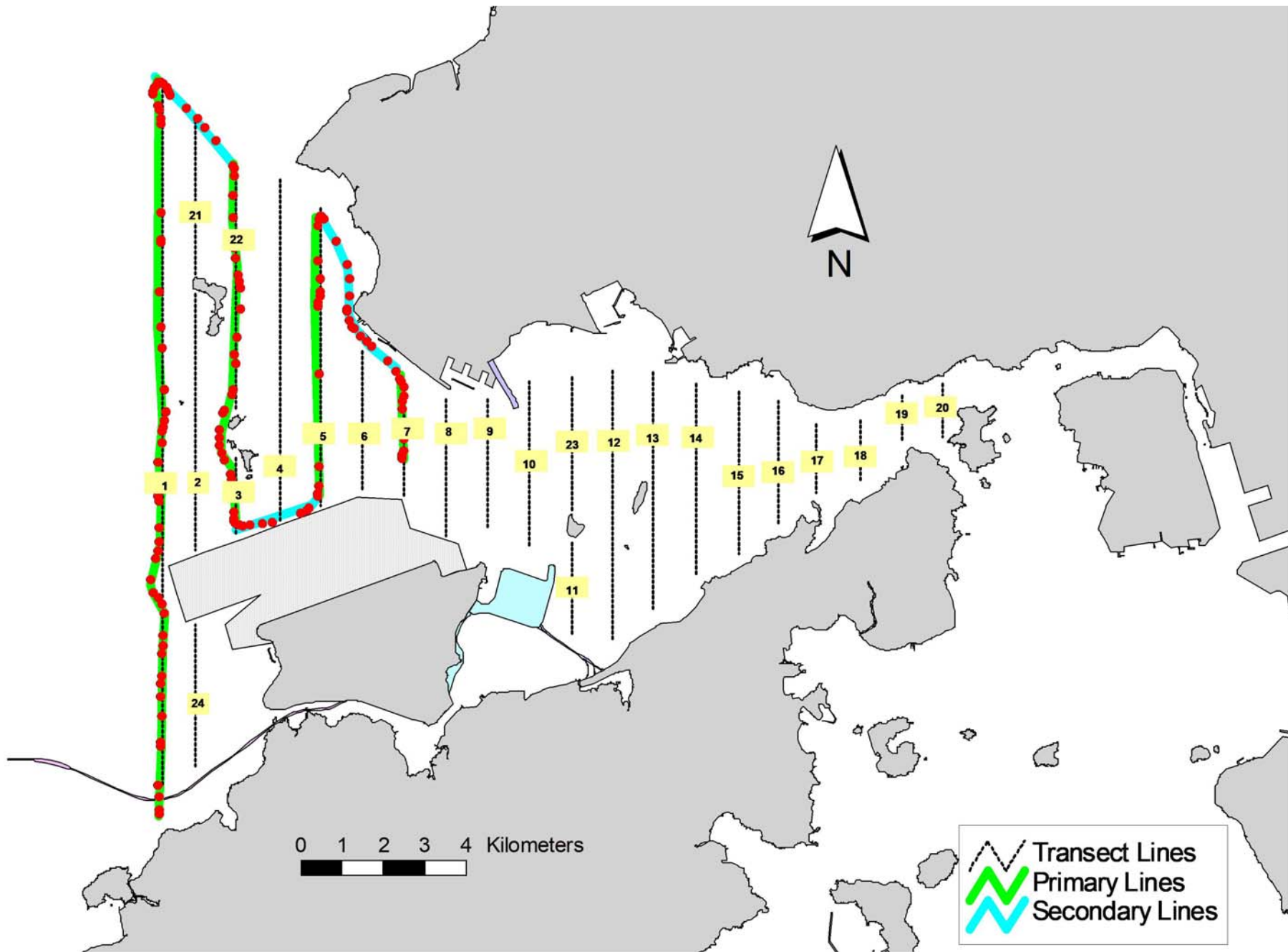


Figure 4. Survey Route on September 19<sup>th</sup>, 2018

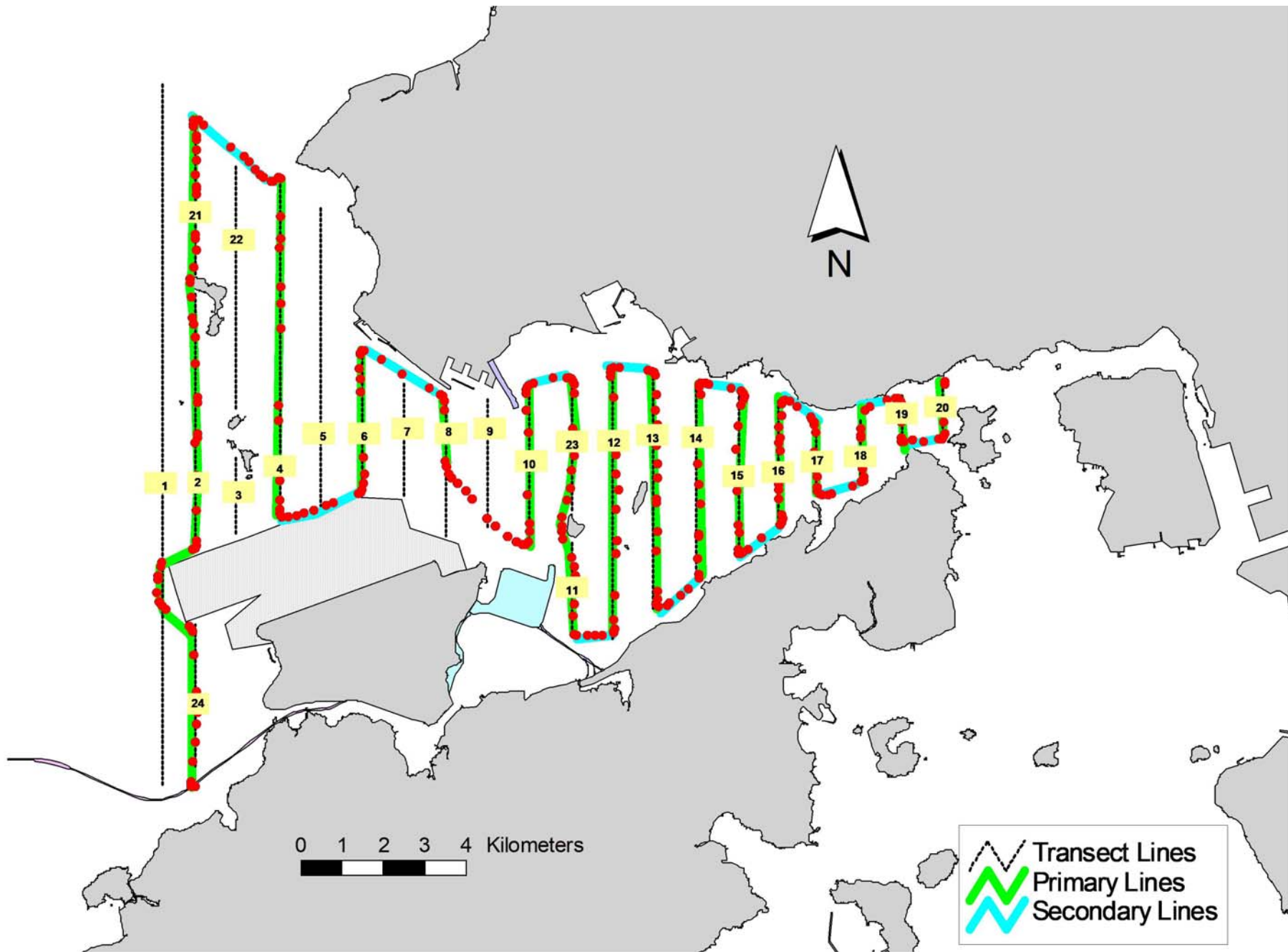


Figure 5. Survey Route on September 24<sup>th</sup>, 2018

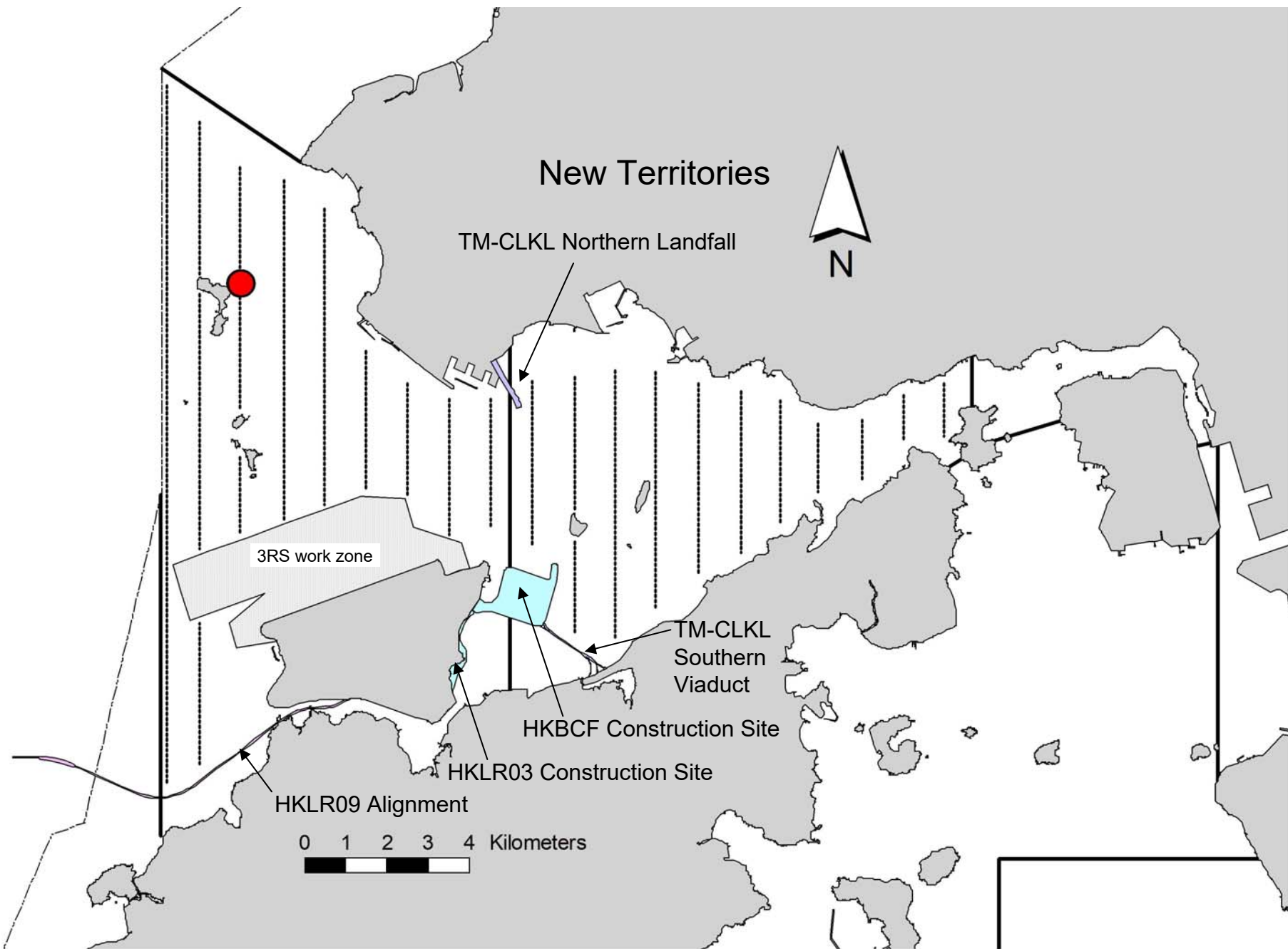


Figure 6. Distribution of Chinese White Dolphin Sightings during September 2018 HKBCF Monitoring Surveys

## Annex I. HKBCF Survey Effort Database (September 2018)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
10-Sep-18	NW LANTAU	1	7.01	AUTUMN	STANDARD36826	HKBCF	P
10-Sep-18	NW LANTAU	2	28.97	AUTUMN	STANDARD36826	HKBCF	P
10-Sep-18	NW LANTAU	1	3.50	AUTUMN	STANDARD36826	HKBCF	S
10-Sep-18	NW LANTAU	2	9.92	AUTUMN	STANDARD36826	HKBCF	S
10-Sep-18	NE LANTAU	1	5.90	AUTUMN	STANDARD36826	HKBCF	P
10-Sep-18	NE LANTAU	2	30.19	AUTUMN	STANDARD36826	HKBCF	P
10-Sep-18	NE LANTAU	1	1.59	AUTUMN	STANDARD36826	HKBCF	S
10-Sep-18	NE LANTAU	2	12.32	AUTUMN	STANDARD36826	HKBCF	S
14-Sep-18	NW LANTAU	1	2.60	AUTUMN	STANDARD138716	HKBCF	P
14-Sep-18	NW LANTAU	2	21.43	AUTUMN	STANDARD138716	HKBCF	P
14-Sep-18	NW LANTAU	2	11.97	AUTUMN	STANDARD138716	HKBCF	S
19-Sep-18	NW LANTAU	2	31.78	AUTUMN	STANDARD36826	HKBCF	P
19-Sep-18	NW LANTAU	2	9.82	AUTUMN	STANDARD36826	HKBCF	S
19-Sep-18	NW LANTAU	3	1.20	AUTUMN	STANDARD36826	HKBCF	S
24-Sep-18	NW LANTAU	1	3.00	AUTUMN	STANDARD36826	HKBCF	P
24-Sep-18	NW LANTAU	2	19.49	AUTUMN	STANDARD36826	HKBCF	P
24-Sep-18	NW LANTAU	3	2.90	AUTUMN	STANDARD36826	HKBCF	P
24-Sep-18	NW LANTAU	2	10.71	AUTUMN	STANDARD36826	HKBCF	S
24-Sep-18	NE LANTAU	2	24.22	AUTUMN	STANDARD36826	HKBCF	P
24-Sep-18	NE LANTAU	3	12.02	AUTUMN	STANDARD36826	HKBCF	P
24-Sep-18	NE LANTAU	2	10.06	AUTUMN	STANDARD36826	HKBCF	S
24-Sep-18	NE LANTAU	3	1.20	AUTUMN	STANDARD36826	HKBCF	S

## Annex II. HKBCF Chinese White Dolphin Sighting Database (September 2018)

(Abberviations: 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
10-Sep-18	1	1143	3	NW LANTAU	1	195	ON	HKBCF	826872	806456	AUTUMN	NONE	P



**Annex III. Individual dolphins identified during HKBCF monitoring surveys in September 2018**

<b>ID#</b>	<b>DATE</b>	<b>STG#</b>	<b>AREA</b>
CH34	10/09/18	1	NW LANTAU
NL46	10/09/18	1	NW LANTAU
NL136	10/09/18	1	NW LANTAU

CH34\_20180910\_1



NL46\_20180910\_1



NL136\_20180910\_1



Annex IV. Photographs  
of Identified Individual  
Dolphins in September  
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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX F

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Wind Data

<u>Date</u>	<u>Time</u>	<u>Wind Speed (m/s)</u>	<u>Wind Direction</u>
18/09/01	12:00 AM	1.3	N
18/09/01	1:00 AM	0.9	NNE
18/09/01	2:00 AM	0.4	NNW
18/09/01	3:00 AM	0.4	NNE
18/09/01	4:00 AM	0.4	NNE
18/09/01	5:00 AM	0.4	S
18/09/01	6:00 AM	0	NE
18/09/01	7:00 AM	0.4	NNW
18/09/01	8:00 AM	0.4	NNE
18/09/01	9:00 AM	0.9	NW
18/09/01	10:00 AM	0.4	N
18/09/01	11:00 AM	0.4	N
18/09/01	12:00 PM	0.4	NE
18/09/01	1:00 PM	0.4	NW
18/09/01	2:00 PM	0	NE
18/09/01	3:00 PM	0.4	NNE
18/09/01	4:00 PM	1.3	NNE
18/09/01	5:00 PM	0.4	NE
18/09/01	6:00 PM	0.4	ENE
18/09/01	7:00 PM	0	NE
18/09/01	8:00 PM	0	ENE
18/09/01	9:00 PM	0	SSE
18/09/01	10:00 PM	0	S
18/09/01	11:00 PM	0	S
18/09/02	12:00 AM	0.4	ENE
18/09/02	1:00 AM	0	SE
18/09/02	2:00 AM	0	SSE
18/09/02	3:00 AM	0	SSE
18/09/02	4:00 AM	0	W
18/09/02	5:00 AM	0	SSW
18/09/02	6:00 AM	0	S
18/09/02	7:00 AM	0	S
18/09/02	8:00 AM	0.4	S
18/09/02	9:00 AM	0.4	ENE
18/09/02	10:00 AM	0.9	NE
18/09/02	11:00 AM	0.9	ENE
18/09/02	12:00 PM	1.3	NNE
18/09/02	1:00 PM	0.9	NE
18/09/02	2:00 PM	0.9	NE
18/09/02	3:00 PM	0.4	NW
18/09/02	4:00 PM	0.9	N
18/09/02	5:00 PM	0.4	NW
18/09/02	6:00 PM	0.9	NNE
18/09/02	7:00 PM	0	NE
18/09/02	8:00 PM	0	NE
18/09/02	9:00 PM	0	N
18/09/02	10:00 PM	0	NNE
18/09/02	11:00 PM	0	S
18/09/03	12:00 AM	0	N
18/09/03	1:00 AM	0	ENE
18/09/03	2:00 AM	0	NE
18/09/03	3:00 AM	0	S
18/09/03	4:00 AM	0	S
18/09/03	5:00 AM	0	W
18/09/03	6:00 AM	0	WSW
18/09/03	7:00 AM	0	E
18/09/03	8:00 AM	0.4	NE
18/09/03	9:00 AM	0.4	N
18/09/03	10:00 AM	0.9	NNE

18/09/03	11:00 AM	1.3	NE
18/09/03	12:00 PM	1.3	NE
18/09/03	1:00 PM	1.3	NE
18/09/03	2:00 PM	1.3	NE
18/09/03	3:00 PM	1.3	NE
18/09/03	4:00 PM	0.4	NW
18/09/03	5:00 PM	0.9	NW
18/09/03	6:00 PM	0.9	NE
18/09/03	7:00 PM	0.4	SSE
18/09/03	8:00 PM	0.4	SSE
18/09/03	9:00 PM	0.4	NNE
18/09/03	10:00 PM	0.4	NE
18/09/03	11:00 PM	0.4	NE
18/09/04	12:00 AM	0	ENE
18/09/04	1:00 AM	0	ENE
18/09/04	2:00 AM	0.4	ENE
18/09/04	3:00 AM	0	SSW
18/09/04	4:00 AM	0	SSW
18/09/04	5:00 AM	0	SSW
18/09/04	6:00 AM	0	SW
18/09/04	7:00 AM	0	S
18/09/04	8:00 AM	0	SSW
18/09/04	9:00 AM	0.4	S
18/09/04	10:00 AM	0.9	NW
18/09/04	11:00 AM	0.9	NW
18/09/04	12:00 PM	1.3	NNE
18/09/04	1:00 PM	1.3	N
18/09/04	2:00 PM	1.3	NNW
18/09/04	3:00 PM	0.9	NW
18/09/04	4:00 PM	0.9	NW
18/09/04	5:00 PM	0.4	SSE
18/09/04	6:00 PM	0.4	SSE
18/09/04	7:00 PM	0.4	SSE
18/09/04	8:00 PM	0.4	SSE
18/09/04	9:00 PM	0	NE
18/09/04	10:00 PM	0	ENE
18/09/04	11:00 PM	0	SE
18/09/05	12:00 AM	0	NE
18/09/05	1:00 AM	0	ENE
18/09/05	2:00 AM	0	ENE
18/09/05	3:00 AM	0	SSE
18/09/05	4:00 AM	0	S
18/09/05	5:00 AM	0	SSW
18/09/05	6:00 AM	0	S
18/09/05	7:00 AM	0	S
18/09/05	8:00 AM	0.4	E
18/09/05	9:00 AM	0.4	NW
18/09/05	10:00 AM	0.9	NW
18/09/05	11:00 AM	0.9	NW
18/09/05	12:00 PM	1.3	NNW
18/09/05	1:00 PM	0.9	NW
18/09/05	2:00 PM	0.9	NW
18/09/05	3:00 PM	1.3	NW
18/09/05	4:00 PM	1.3	NW
18/09/05	5:00 PM	0.9	NW
18/09/05	6:00 PM	0.9	NE
18/09/05	7:00 PM	2.2	NE
18/09/05	8:00 PM	1.3	NW
18/09/05	9:00 PM	0.4	NE
18/09/05	10:00 PM	0	NNE
18/09/05	11:00 PM	0	NE

18/09/06	12:00 AM	0	NNE
18/09/06	1:00 AM	0	NNE
18/09/06	2:00 AM	0	ENE
18/09/06	3:00 AM	0	E
18/09/06	4:00 AM	0	E
18/09/06	5:00 AM	0	SSW
18/09/06	6:00 AM	0	ENE
18/09/06	7:00 AM	0	NNE
18/09/06	8:00 AM	0.4	N
18/09/06	9:00 AM	0.9	NE
18/09/06	10:00 AM	1.3	NE
18/09/06	11:00 AM	1.3	NE
18/09/06	12:00 PM	0.4	NW
18/09/06	1:00 PM	0.9	NW
18/09/06	2:00 PM	0.9	N
18/09/06	3:00 PM	1.3	NE
18/09/06	4:00 PM	1.3	NE
18/09/06	5:00 PM	0.9	NW
18/09/06	6:00 PM	0.9	NNW
18/09/06	7:00 PM	0.4	N
18/09/06	8:00 PM	0	S
18/09/06	9:00 PM	0	S
18/09/06	10:00 PM	0	SW
18/09/06	11:00 PM	0	SW
18/09/07	12:00 AM	0	ENE
18/09/07	1:00 AM	0.4	SSE
18/09/07	2:00 AM	0	S
18/09/07	3:00 AM	0	NW
18/09/07	4:00 AM	0	S
18/09/07	5:00 AM	0	E
18/09/07	6:00 AM	0	E
18/09/07	7:00 AM	0	SE
18/09/07	8:00 AM	0.4	N
18/09/07	9:00 AM	0.9	NE
18/09/07	10:00 AM	0.9	NNW
18/09/07	11:00 AM	0.4	NW
18/09/07	12:00 PM	0.9	NW
18/09/07	1:00 PM	0.9	NW
18/09/07	2:00 PM	1.8	NNE
18/09/07	3:00 PM	1.3	NE
18/09/07	4:00 PM	0.9	NNE
18/09/07	5:00 PM	0.9	NNE
18/09/07	6:00 PM	0.4	NE
18/09/07	7:00 PM	0	NE
18/09/07	8:00 PM	0.4	NE
18/09/07	9:00 PM	0	SE
18/09/07	10:00 PM	0	NNW
18/09/07	11:00 PM	0.9	NE
18/09/08	12:00 AM	0.4	SW
18/09/08	1:00 AM	0.4	S
18/09/08	2:00 AM	0.4	S
18/09/08	3:00 AM	0.9	S
18/09/08	4:00 AM	0.9	S
18/09/08	5:00 AM	0.9	NW
18/09/08	6:00 AM	0.4	NW
18/09/08	7:00 AM	1.3	NE
18/09/08	8:00 AM	2.2	NE
18/09/08	9:00 AM	0.9	NE
18/09/08	10:00 AM	1.3	NNW
18/09/08	11:00 AM	1.3	NNW
18/09/08	12:00 PM	1.3	NNW



18/09/08	1:00 PM	1.3	NNW
18/09/08	2:00 PM	1.8	NNW
18/09/08	3:00 PM	1.8	NNW
18/09/08	4:00 PM	0.9	NE
18/09/08	5:00 PM	0.9	ENE
18/09/08	6:00 PM	1.8	N
18/09/08	7:00 PM	0.9	NE
18/09/08	8:00 PM	0.4	NNW
18/09/08	9:00 PM	0.4	NNW
18/09/08	10:00 PM	0	S
18/09/08	11:00 PM	1.3	NE
18/09/09	12:00 AM	1.3	NE
18/09/09	1:00 AM	0.4	NE
18/09/09	2:00 AM	0	NNW
18/09/09	3:00 AM	0.4	ENE
18/09/09	4:00 AM	0.9	NE
18/09/09	5:00 AM	0.4	ENE
18/09/09	6:00 AM	0	S
18/09/09	7:00 AM	0.4	NE
18/09/09	8:00 AM	0.4	NW
18/09/09	9:00 AM	0.9	NE
18/09/09	10:00 AM	0.9	NE
18/09/09	11:00 AM	1.3	NE
18/09/09	12:00 PM	0.9	NE
18/09/09	1:00 PM	0.9	NNW
18/09/09	2:00 PM	0.9	NNW
18/09/09	3:00 PM	0.9	N
18/09/09	4:00 PM	0.4	NW
18/09/09	5:00 PM	0.9	NW
18/09/09	6:00 PM	0.4	NE
18/09/09	7:00 PM	0.9	NE
18/09/09	8:00 PM	1.3	NNW
18/09/09	9:00 PM	0.9	NW
18/09/09	10:00 PM	1.3	NW
18/09/09	11:00 PM	1.8	NW
18/09/10	12:00 AM	1.8	NW
18/09/10	1:00 AM	1.3	NW
18/09/10	2:00 AM	0.9	NW
18/09/10	3:00 AM	0.4	NW
18/09/10	4:00 AM	0.4	SSE
18/09/10	5:00 AM	0.9	NE
18/09/10	6:00 AM	0.4	NW
18/09/10	7:00 AM	0.9	ENE
18/09/10	8:00 AM	0.9	ENE
18/09/10	9:00 AM	0.9	NNW
18/09/10	10:00 AM	1.3	NE
18/09/10	11:00 AM	1.3	NE
18/09/10	12:00 PM	2.2	NE
18/09/10	1:00 PM	1.3	NE
18/09/10	2:00 PM	0.9	NNW
18/09/10	3:00 PM	0.9	N
18/09/10	4:00 PM	0.4	NNW
18/09/10	5:00 PM	0.4	NW
18/09/10	6:00 PM	0.9	NE
18/09/10	7:00 PM	0.4	NW
18/09/10	8:00 PM	0.4	NE
18/09/10	9:00 PM	0	NE
18/09/10	10:00 PM	0	S
18/09/10	11:00 PM	0	S
18/09/11	12:00 AM	0	S
18/09/11	1:00 AM	0	S

18/09/11	2:00 AM	0	S
18/09/11	3:00 AM	0	S
18/09/11	4:00 AM	0	S
18/09/11	5:00 AM	0.4	S
18/09/11	6:00 AM	0	S
18/09/11	7:00 AM	0	SSE
18/09/11	8:00 AM	0	WNW
18/09/11	9:00 AM	0.4	NNW
18/09/11	10:00 AM	0.4	NE
18/09/11	11:00 AM	0.4	NW
18/09/11	12:00 PM	0.9	NW
18/09/11	1:00 PM	1.3	NW
18/09/11	2:00 PM	1.3	SSE
18/09/11	3:00 PM	1.3	NW
18/09/11	4:00 PM	1.3	NW
18/09/11	5:00 PM	1.3	NW
18/09/11	6:00 PM	0.9	SSE
18/09/11	7:00 PM	0.9	SSE
18/09/11	8:00 PM	0.4	SSE
18/09/11	9:00 PM	0	SSE
18/09/11	10:00 PM	0	S
18/09/11	11:00 PM	0	S
18/09/12	12:00 AM	0.4	NE
18/09/12	1:00 AM	0	WNW
18/09/12	2:00 AM	0.4	NNW
18/09/12	3:00 AM	0	NW
18/09/12	4:00 AM	0	NE
18/09/12	5:00 AM	0.4	NE
18/09/12	6:00 AM	1.8	ENE
18/09/12	7:00 AM	1.3	NE
18/09/12	8:00 AM	0.9	NE
18/09/12	9:00 AM	1.3	NE
18/09/12	10:00 AM	2.2	NE
18/09/12	11:00 AM	3.6	NE
18/09/12	12:00 PM	4	E
18/09/12	1:00 PM	3.1	ENE
18/09/12	2:00 PM	3.1	NE
18/09/12	3:00 PM	2.7	E
18/09/12	4:00 PM	3.1	E
18/09/12	5:00 PM	4	E
18/09/12	6:00 PM	2.7	SE
18/09/12	7:00 PM	2.2	SSE
18/09/12	8:00 PM	2.2	NNW
18/09/12	9:00 PM	1.8	NW
18/09/12	10:00 PM	1.8	NW
18/09/12	11:00 PM	1.8	NW
18/09/13	12:00 AM	1.8	NW
18/09/13	1:00 AM	1.8	NW
18/09/13	2:00 AM	1.8	NW
18/09/13	3:00 AM	1.3	SSE
18/09/13	4:00 AM	1.3	SE
18/09/13	5:00 AM	1.3	NW
18/09/13	6:00 AM	0.9	NW
18/09/13	7:00 AM	1.3	NW
18/09/13	8:00 AM	1.3	NW
18/09/13	9:00 AM	1.8	NW
18/09/13	10:00 AM	1.8	NW
18/09/13	11:00 AM	1.8	SE
18/09/13	12:00 PM	1.3	NW
18/09/13	1:00 PM	2.2	NNW
18/09/13	2:00 PM	3.1	NW

18/09/13	3:00 PM	3.1	NW
18/09/13	4:00 PM	2.7	NW
18/09/13	5:00 PM	2.2	NW
18/09/13	6:00 PM	1.8	NW
18/09/13	7:00 PM	2.2	NW
18/09/13	8:00 PM	2.2	NW
18/09/13	9:00 PM	1.8	NW
18/09/13	10:00 PM	1.3	NW
18/09/13	11:00 PM	0.9	NW
18/09/14	12:00 AM	0.4	NNW
18/09/14	1:00 AM	0.9	E
18/09/14	2:00 AM	0.4	ENE
18/09/14	3:00 AM	0.9	ENE
18/09/14	4:00 AM	0.4	ENE
18/09/14	5:00 AM	0.4	E
18/09/14	6:00 AM	0	SSE
18/09/14	7:00 AM	0	SE
18/09/14	8:00 AM	0.4	NE
18/09/14	9:00 AM	0.9	NE
18/09/14	10:00 AM	1.3	NE
18/09/14	11:00 AM	0.9	NE
18/09/14	12:00 PM	0.4	NNE
18/09/14	1:00 PM	0.4	NW
18/09/14	2:00 PM	0.4	NW
18/09/14	3:00 PM	0.4	NW
18/09/14	4:00 PM	0	NNE
18/09/14	5:00 PM	0	---
18/09/14	6:00 PM	0	N
* 18/09/14	7:00 PM	0	---
* 18/09/14	8:00 PM	0	---
* 18/09/14	9:00 PM	0	---
* 18/09/14	10:00 PM	0	---
* 18/09/14	11:00 PM	0	---
* 18/09/15	12:00 AM	0	---
* 18/09/15	1:00 AM	0	---
* 18/09/15	2:00 AM	0	---
* 18/09/15	3:00 AM	0	---
* 18/09/15	4:00 AM	0	---
* 18/09/15	5:00 AM	0	---
* 18/09/15	6:00 AM	0	---
* 18/09/15	7:00 AM	0	---
* 18/09/15	8:00 AM	0	---
* 18/09/15	9:00 AM	0	---
* 18/09/15	10:00 AM	0	---
* 18/09/15	11:00 AM	0	---
* 18/09/15	12:00 PM	0	---
* 18/09/15	1:00 PM	0	---
* 18/09/15	2:00 PM	0	---
* 18/09/15	3:00 PM	0	---
* 18/09/15	4:00 PM	0	---
* 18/09/15	5:00 PM	0	---
* 18/09/15	6:00 PM	0	---
* 18/09/15	7:00 PM	0	---
* 18/09/15	8:00 PM	0	---
* 18/09/15	9:00 PM	0	---
* 18/09/15	10:00 PM	0	---
* 18/09/15	11:00 PM	0	---
* 18/09/16	12:00 AM	0	---
* 18/09/16	1:00 AM	0	---
* 18/09/16	2:00 AM	0	---
* 18/09/16	3:00 AM	0	---

Remark: \* - Wind meter at AMS3C was taken down on the afternoon of Friday 14 September 2018 as a precaution to prevent damage to the equipment by Tropical Cyclone Mangkhut and re-installed on the morning of Tuesday 18 September 2018.

* 18/09/16 4:00 AM	0	---
* 18/09/16 5:00 AM	0	---
* 18/09/16 6:00 AM	0	---
* 18/09/16 7:00 AM	0	---
* 18/09/16 8:00 AM	0	---
* 18/09/16 9:00 AM	0	---
* 18/09/16 10:00 AM	0	---
* 18/09/16 11:00 AM	0	---
* 18/09/16 12:00 PM	0	---
* 18/09/16 1:00 PM	0	---
* 18/09/16 2:00 PM	0	---
* 18/09/16 3:00 PM	0	---
* 18/09/16 4:00 PM	0	---
* 18/09/16 5:00 PM	0	---
* 18/09/16 6:00 PM	0	---
* 18/09/16 7:00 PM	0	---
* 18/09/16 8:00 PM	0	---
* 18/09/16 9:00 PM	0	---
* 18/09/16 10:00 PM	0	---
* 18/09/16 11:00 PM	0	---
* 18/09/17 12:00 AM	0	---
* 18/09/17 1:00 AM	0	---
* 18/09/17 2:00 AM	0	---
* 18/09/17 3:00 AM	0	---
* 18/09/17 4:00 AM	0	---
* 18/09/17 5:00 AM	0	---
* 18/09/17 6:00 AM	0	---
* 18/09/17 7:00 AM	0	---
* 18/09/17 8:00 AM	0	---
* 18/09/17 9:00 AM	0	---
* 18/09/17 10:00 AM	0	---
* 18/09/17 11:00 AM	0	---
* 18/09/17 12:00 PM	0	---
* 18/09/17 1:00 PM	0	---
* 18/09/17 2:00 PM	0	---
* 18/09/17 3:00 PM	0	---
* 18/09/17 4:00 PM	0	---
* 18/09/17 5:00 PM	0	---
* 18/09/17 6:00 PM	0	---
* 18/09/17 7:00 PM	0	---
* 18/09/17 8:00 PM	0	---
* 18/09/17 9:00 PM	0	---
* 18/09/17 10:00 PM	0	---
* 18/09/17 11:00 PM	0	---
* 18/09/18 12:00 AM	0	---
* 18/09/18 1:00 AM	0	---
* 18/09/18 2:00 AM	0	---
* 18/09/18 3:00 AM	0	---
* 18/09/18 4:00 AM	0	---
* 18/09/18 5:00 AM	0	---
* 18/09/18 6:00 AM	0	---
18/09/18 7:00 AM	0	NE
18/09/18 8:00 AM	0.9	NW
18/09/18 9:00 AM	2.2	NW
18/09/18 10:00 AM	2.2	NW
18/09/18 11:00 AM	2.2	NW
18/09/18 12:00 PM	1.8	NW
18/09/18 1:00 PM	2.7	NW
18/09/18 2:00 PM	2.2	NW
18/09/18 3:00 PM	2.2	NW
18/09/18 4:00 PM	1.8	NW

Remark: \* - Wind meter at AMS3C was taken down on the afternoon of Friday 14 September 2018 as a precaution to prevent damage to the equipment by Tropical Cyclone Mangkhut and re-installed on the morning of Tuesday 18 September 2018.

18/09/18	5:00 PM	1.8	NW
18/09/18	6:00 PM	1.8	NW
18/09/18	7:00 PM	0.9	NW
18/09/18	8:00 PM	1.3	NW
18/09/18	9:00 PM	1.3	NW
18/09/18	10:00 PM	0.9	NE
18/09/18	11:00 PM	0.9	NE
18/09/19	12:00 AM	0	NW
18/09/19	1:00 AM	0	WNW
18/09/19	2:00 AM	0	NW
18/09/19	3:00 AM	0	W
18/09/19	4:00 AM	0.4	NE
18/09/19	5:00 AM	0	---
18/09/19	6:00 AM	0	---
18/09/19	7:00 AM	0	---
18/09/19	8:00 AM	0	---
18/09/19	9:00 AM	0.4	NE
18/09/19	10:00 AM	0.9	N
18/09/19	11:00 AM	0.9	NW
18/09/19	12:00 PM	0.9	WNW
18/09/19	1:00 PM	0.9	WNW
18/09/19	2:00 PM	0.9	NW
18/09/19	3:00 PM	0.9	NW
18/09/19	4:00 PM	0.4	NW
18/09/19	5:00 PM	0.4	SSE
18/09/19	6:00 PM	0.4	SE
18/09/19	7:00 PM	0	SE
18/09/19	8:00 PM	0	SSE
18/09/19	9:00 PM	0	SSW
18/09/19	10:00 PM	0	SSW
18/09/19	11:00 PM	0	ESE
18/09/20	12:00 AM	0	SE
18/09/20	1:00 AM	0	S
18/09/20	2:00 AM	0	E
18/09/20	3:00 AM	0	ESE
18/09/20	4:00 AM	0	ENE
18/09/20	5:00 AM	0	ENE
18/09/20	6:00 AM	0	SSE
18/09/20	7:00 AM	0	S
18/09/20	8:00 AM	0	N
18/09/20	9:00 AM	0.4	NNE
18/09/20	10:00 AM	0.9	NNE
18/09/20	11:00 AM	0.9	NE
18/09/20	12:00 PM	0.9	NE
18/09/20	1:00 PM	1.3	NE
18/09/20	2:00 PM	1.3	NW
18/09/20	3:00 PM	1.3	NW
18/09/20	4:00 PM	1.3	NW
18/09/20	5:00 PM	0.9	NW
18/09/20	6:00 PM	0.4	NW
18/09/20	7:00 PM	0	SSE
18/09/20	8:00 PM	0	N
18/09/20	9:00 PM	0	SE
18/09/20	10:00 PM	0	SSE
18/09/20	11:00 PM	0	ENE
18/09/21	12:00 AM	0	SSE
18/09/21	1:00 AM	0	SSE
18/09/21	2:00 AM	0	NNE
18/09/21	3:00 AM	0	S
18/09/21	4:00 AM	0	SSE
18/09/21	5:00 AM	0	SSW

18/09/21	6:00 AM	0	S
18/09/21	7:00 AM	0	S
18/09/21	8:00 AM	0.4	NNE
18/09/21	9:00 AM	0.9	NNE
18/09/21	10:00 AM	1.3	NNE
18/09/21	11:00 AM	1.3	N
18/09/21	12:00 PM	1.3	N
18/09/21	1:00 PM	1.3	N
18/09/21	2:00 PM	1.3	NW
18/09/21	3:00 PM	1.3	NW
18/09/21	4:00 PM	1.3	ENE
18/09/21	5:00 PM	1.3	ENE
18/09/21	6:00 PM	0.9	NE
18/09/21	7:00 PM	0	ENE
18/09/21	8:00 PM	0	S
18/09/21	9:00 PM	0	SSE
18/09/21	10:00 PM	0	SSW
18/09/21	11:00 PM	0	ENE
18/09/22	12:00 AM	0	SSE
18/09/22	1:00 AM	0	SSE
18/09/22	2:00 AM	0	SSE
18/09/22	3:00 AM	0	NE
18/09/22	4:00 AM	0	SSW
18/09/22	5:00 AM	0	WSW
18/09/22	6:00 AM	0	WSW
18/09/22	7:00 AM	0	---
18/09/22	8:00 AM	0.4	N
18/09/22	9:00 AM	0.9	NNE
18/09/22	10:00 AM	1.3	NNE
18/09/22	11:00 AM	1.3	N
18/09/22	12:00 PM	0.9	NW
18/09/22	1:00 PM	0.9	NW
18/09/22	2:00 PM	1.8	N
18/09/22	3:00 PM	1.8	NE
18/09/22	4:00 PM	1.3	NE
18/09/22	5:00 PM	0.9	NE
18/09/22	6:00 PM	0.9	NW
18/09/22	7:00 PM	0.4	SSE
18/09/22	8:00 PM	0.9	NE
18/09/22	9:00 PM	0.4	NW
18/09/22	10:00 PM	0.9	NW
18/09/22	11:00 PM	0.9	ENE
18/09/23	12:00 AM	0.9	NW
18/09/23	1:00 AM	0.9	NW
18/09/23	2:00 AM	1.3	NE
18/09/23	3:00 AM	0.9	ENE
18/09/23	4:00 AM	0.4	NNW
18/09/23	5:00 AM	0	SE
18/09/23	6:00 AM	0.4	N
18/09/23	7:00 AM	0.4	NW
18/09/23	8:00 AM	0.9	NE
18/09/23	9:00 AM	0.9	NE
18/09/23	10:00 AM	1.3	NE
18/09/23	11:00 AM	0.4	NW
18/09/23	12:00 PM	0.9	NW
18/09/23	1:00 PM	0.9	NW
18/09/23	2:00 PM	1.3	NNW
18/09/23	3:00 PM	0.9	N
18/09/23	4:00 PM	1.3	NNW
18/09/23	5:00 PM	0.9	NE
18/09/23	6:00 PM	0.9	NE



18/09/23	7:00 PM	0.9	N
18/09/23	8:00 PM	0	SSE
18/09/23	9:00 PM	0	NNW
18/09/23	10:00 PM	0	NNE
18/09/23	11:00 PM	0	NNE
18/09/24	12:00 AM	0	S
18/09/24	1:00 AM	0	S
18/09/24	2:00 AM	0	SSW
18/09/24	3:00 AM	0	SSW
18/09/24	4:00 AM	0	SSW
18/09/24	5:00 AM	0	SSW
18/09/24	6:00 AM	0	S
18/09/24	7:00 AM	0	E
18/09/24	8:00 AM	0.4	NNE
18/09/24	9:00 AM	0.9	NE
18/09/24	10:00 AM	0.4	SSE
18/09/24	11:00 AM	0.9	NE
18/09/24	12:00 PM	0.9	NNE
18/09/24	1:00 PM	1.8	NE
18/09/24	2:00 PM	0.9	NW
18/09/24	3:00 PM	1.3	NW
18/09/24	4:00 PM	1.3	NW
18/09/24	5:00 PM	1.8	NW
18/09/24	6:00 PM	1.3	NW
18/09/24	7:00 PM	1.8	NW
18/09/24	8:00 PM	1.3	NW
18/09/24	9:00 PM	1.3	NW
18/09/24	10:00 PM	1.3	NW
18/09/24	11:00 PM	1.3	NW
18/09/25	12:00 AM	0.9	NW
18/09/25	1:00 AM	1.3	NW
18/09/25	2:00 AM	1.8	NW
18/09/25	3:00 AM	2.2	NW
18/09/25	4:00 AM	1.3	NW
18/09/25	5:00 AM	1.3	NW
18/09/25	6:00 AM	1.3	ENE
18/09/25	7:00 AM	0.9	E
18/09/25	8:00 AM	1.3	ENE
18/09/25	9:00 AM	1.3	SE
18/09/25	10:00 AM	1.8	ENE
18/09/25	11:00 AM	1.8	NNW
18/09/25	12:00 PM	1.3	NW
18/09/25	1:00 PM	1.8	NW
18/09/25	2:00 PM	2.2	NW
18/09/25	3:00 PM	1.8	NW
18/09/25	4:00 PM	1.8	NW
18/09/25	5:00 PM	2.2	NW
18/09/25	6:00 PM	1.8	NNW
18/09/25	7:00 PM	1.8	NW
18/09/25	8:00 PM	2.2	NW
18/09/25	9:00 PM	2.2	NW
18/09/25	10:00 PM	1.3	NW
18/09/25	11:00 PM	1.3	NW
18/09/26	12:00 AM	1.8	NW
18/09/26	1:00 AM	1.8	NNW
18/09/26	2:00 AM	1.3	NW
18/09/26	3:00 AM	0.4	WNW
18/09/26	4:00 AM	0	SE
18/09/26	5:00 AM	0	S
18/09/26	6:00 AM	0	ENE
18/09/26	7:00 AM	0	SE

18/09/26	8:00 AM	0.4	ENE
18/09/26	9:00 AM	0.9	NE
18/09/26	10:00 AM	0.9	NE
18/09/26	11:00 AM	0.9	SSE
18/09/26	12:00 PM	0.4	SE
18/09/26	1:00 PM	0.4	NE
18/09/26	2:00 PM	0.9	NE
18/09/26	3:00 PM	0.9	NE
18/09/26	4:00 PM	0.4	NE
18/09/26	5:00 PM	0.9	NE
18/09/26	6:00 PM	0.4	N
18/09/26	7:00 PM	0.4	SSE
18/09/26	8:00 PM	0	S
18/09/26	9:00 PM	0.4	SSE
18/09/26	10:00 PM	0	ENE
18/09/26	11:00 PM	0	SSE
18/09/27	12:00 AM	0	SSE
18/09/27	1:00 AM	0	SSE
18/09/27	2:00 AM	0	SW
18/09/27	3:00 AM	0	SSE
18/09/27	4:00 AM	0	SSE
18/09/27	5:00 AM	0	NE
18/09/27	6:00 AM	0	ENE
18/09/27	7:00 AM	0	SE
18/09/27	8:00 AM	0.4	NE
18/09/27	9:00 AM	0.9	NE
18/09/27	10:00 AM	0.9	NE
18/09/27	11:00 AM	0.9	NE
18/09/27	12:00 PM	1.8	NW
18/09/27	1:00 PM	0.9	NW
18/09/27	2:00 PM	1.3	NE
18/09/27	3:00 PM	0.9	N
18/09/27	4:00 PM	0.9	NE
18/09/27	5:00 PM	0.4	N
18/09/27	6:00 PM	0.4	NE
18/09/27	7:00 PM	0	SSE
18/09/27	8:00 PM	0	S
18/09/27	9:00 PM	0	S
18/09/27	10:00 PM	0	S
18/09/27	11:00 PM	0	NE
18/09/28	12:00 AM	0	ENE
18/09/28	1:00 AM	0	NE
18/09/28	2:00 AM	0	ESE
18/09/28	3:00 AM	0.4	ENE
18/09/28	4:00 AM	0	---
18/09/28	5:00 AM	0.4	SSE
18/09/28	6:00 AM	0.9	ENE
18/09/28	7:00 AM	0.4	SSE
18/09/28	8:00 AM	0.9	SSE
18/09/28	9:00 AM	1.8	NNE
18/09/28	10:00 AM	1.8	NE
18/09/28	11:00 AM	1.8	NNE
18/09/28	12:00 PM	1.3	NNW
18/09/28	1:00 PM	2.2	SSE
18/09/28	2:00 PM	2.2	SSE
18/09/28	3:00 PM	2.2	SSE
18/09/28	4:00 PM	2.2	SSE
18/09/28	5:00 PM	1.3	SSE
18/09/28	6:00 PM	1.8	SSE
18/09/28	7:00 PM	2.7	SSE
18/09/28	8:00 PM	2.2	NNW

18/09/28	9:00 PM	1.8	NNW
18/09/28	10:00 PM	1.3	NW
18/09/28	11:00 PM	1.3	NNW
18/09/29	12:00 AM	1.3	N
18/09/29	1:00 AM	1.3	NW
18/09/29	2:00 AM	0.9	NW
18/09/29	3:00 AM	0.9	N
18/09/29	4:00 AM	0.4	NW
18/09/29	5:00 AM	0.4	NW
18/09/29	6:00 AM	0.9	NW
18/09/29	7:00 AM	0.9	NW
18/09/29	8:00 AM	0.9	NNW
18/09/29	9:00 AM	1.3	NNW
18/09/29	10:00 AM	1.8	NNW
18/09/29	11:00 AM	1.8	NNW
18/09/29	12:00 PM	1.3	NW
18/09/29	1:00 PM	1.3	NW
18/09/29	2:00 PM	1.3	NW
18/09/29	3:00 PM	1.3	SSE
18/09/29	4:00 PM	1.8	SSE
18/09/29	5:00 PM	1.8	N
18/09/29	6:00 PM	3.6	NNE
18/09/29	7:00 PM	2.7	N
18/09/29	8:00 PM	2.2	N
18/09/29	9:00 PM	1.8	N
18/09/29	10:00 PM	1.8	NNW
18/09/29	11:00 PM	0.9	N
18/09/30	12:00 AM	1.3	NE
18/09/30	1:00 AM	0.4	NE
18/09/30	2:00 AM	0.9	NE
18/09/30	3:00 AM	1.3	NE
18/09/30	4:00 AM	0.9	ENE
18/09/30	5:00 AM	0.9	NE
18/09/30	6:00 AM	0.4	ENE
18/09/30	7:00 AM	0.9	ENE
18/09/30	8:00 AM	0.9	NE
18/09/30	9:00 AM	0.9	NNE
18/09/30	10:00 AM	0.4	N
18/09/30	11:00 AM	0.4	NW
18/09/30	12:00 PM	0.9	NW
18/09/30	1:00 PM	1.3	NNE
18/09/30	2:00 PM	0.9	NE
18/09/30	3:00 PM	0.9	NW
18/09/30	4:00 PM	0.9	NW
18/09/30	5:00 PM	0.4	WNW
18/09/30	6:00 PM	0.4	NNW
18/09/30	7:00 PM	0.4	NW
18/09/30	8:00 PM	0.9	NNW
18/09/30	9:00 PM	0.9	NW
18/09/30	10:00 PM	0.9	NW
18/09/30	11:00 PM	0	NW
18/10/01	12:00 AM	0.9	NW



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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX G

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## Calibration Certificates

## 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

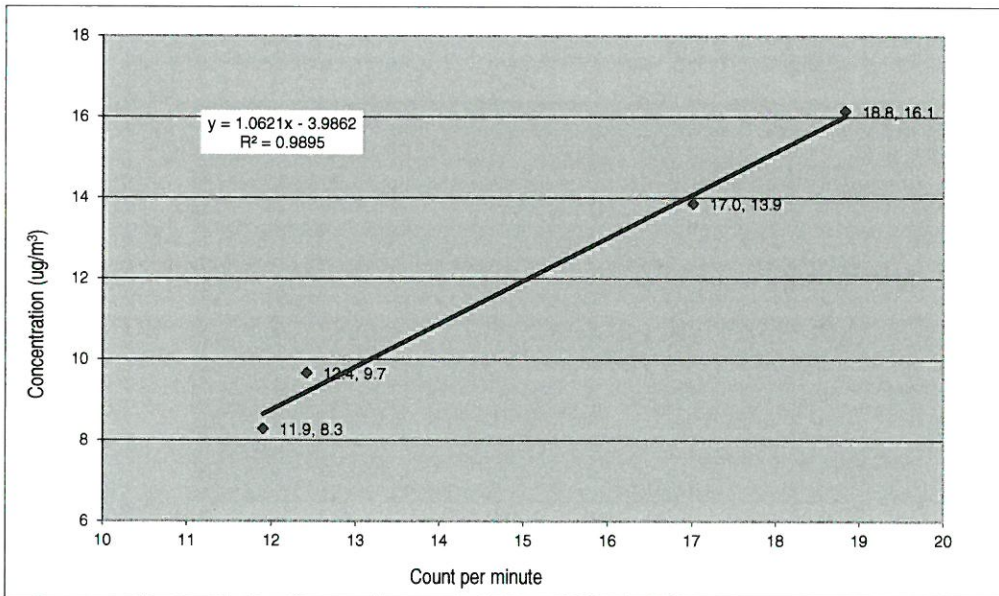
Sensitivity Adjustment Scale Setting (Before Calibration) : 622  
 Sensitivity Adjustment Scale Setting (After Calibration) : 622

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m <sup>3</sup> ) 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-002  
 Serial No.: 974350  
 Sensitivity Adjustment Scale Setting : 622 CPM

### Standard Equipment

Equipment : MFC High Volume Air Sampler  
 Venue : Tung Chung Pier  
 Model No.: TE-5170 Total Suspended Particulate  
 Serial No.: S/N3641  
 Previous Calibration Date: 12-Jul-2018

### Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) : 624 CPM  
 Sensitivity Adjustment Scale Setting (After Calibration) : 624 CPM

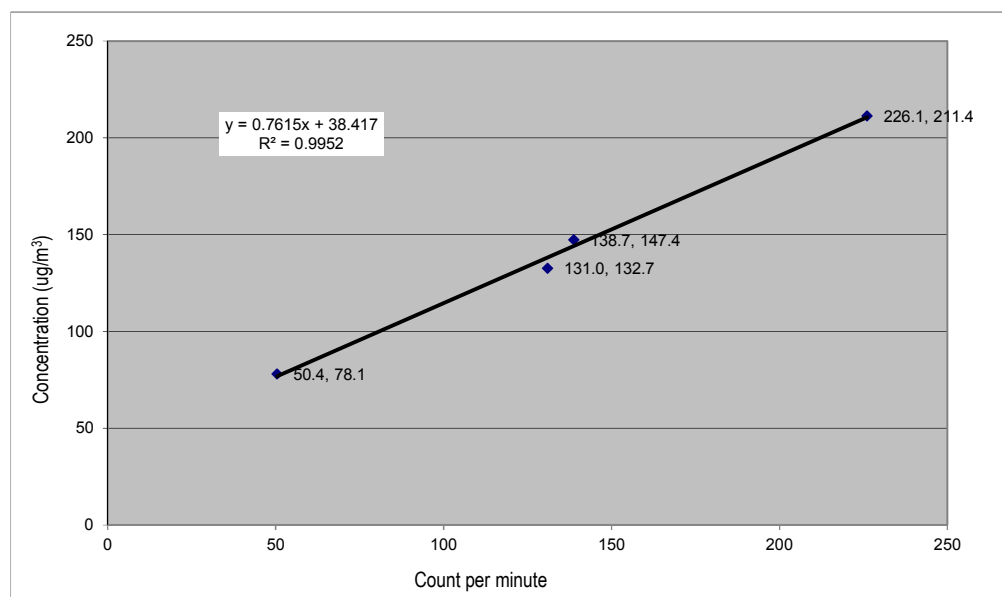
Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration (ug/m <sup>3</sup> ) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	24-Aug-18	09:07	09:37	29.4	80%	78.1	1513	50.4
2	24-Aug-18	10:00	11:00	30.5	76%	132.7	7857	131.0
3	24-Aug-18	11:12	12:42	30.6	76%	147.4	12486	138.7
4	24-Aug-18	13:21	15:21	31.0	71%	211.4	27133	226.1

Be Linear Regression of Y or X

Slope (K-factor): 0.7615 Intercept,b: 38.417

Correlation coefficient (R): 0.9976

Remark: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Recorded by: Shing Mak

Signature: *Shing*

Date: 07-Sep-2018

Checked by: Eva Keung

Signature: *Eva*

Date: 07-Sep-2018



## 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

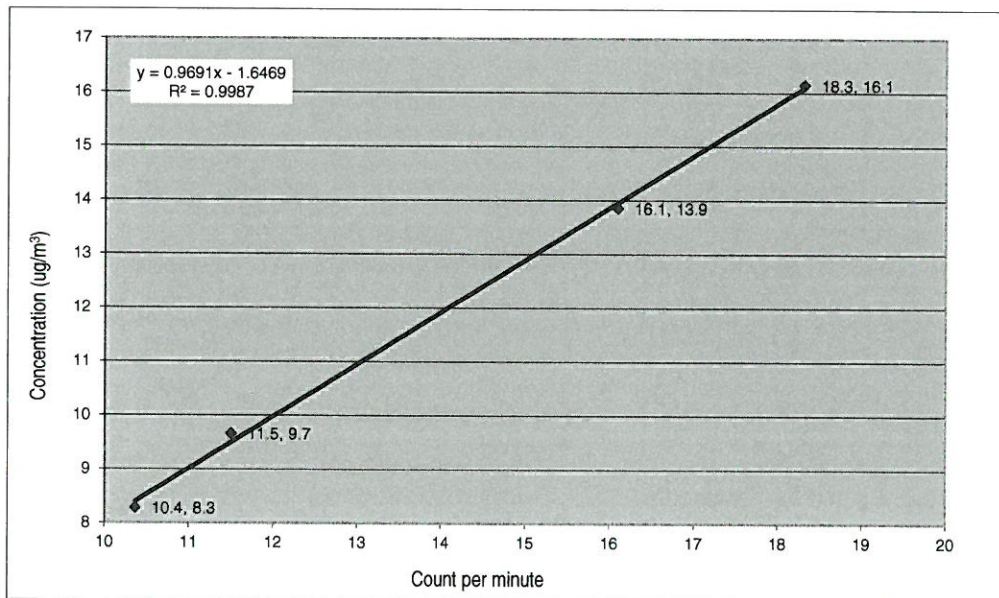
Sensitivity Adjustment Scale Setting (Before Calibration) : 799 CPM  
 Sensitivity Adjustment Scale Setting (After Calibration) : 800 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m <sup>3</sup> ) 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

## 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 :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date:	12/Jul/2018

### Calibration Result

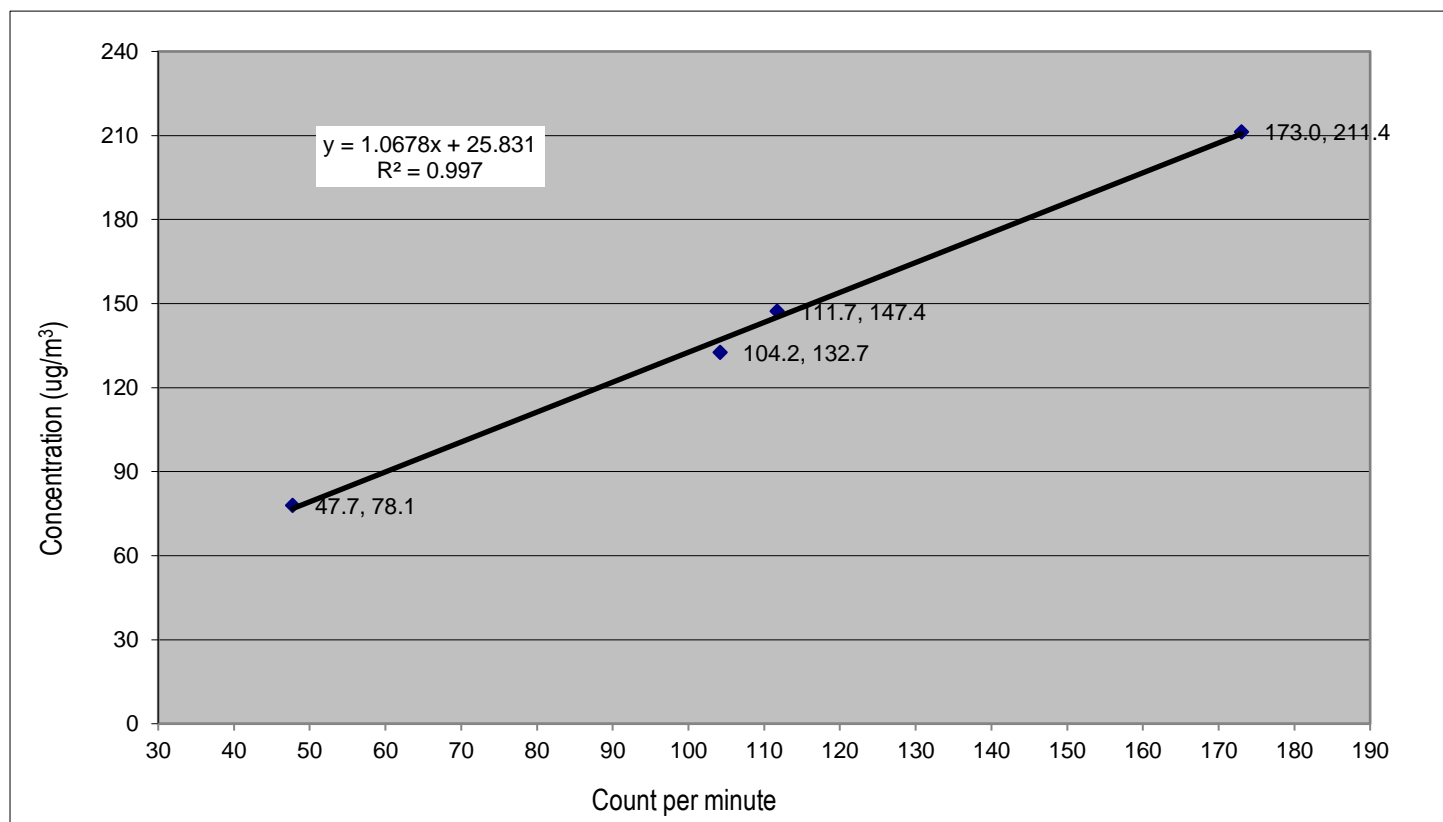
Sensitivity Adjustment Scale Setting (Before Calibration) :	701 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	701 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m <sup>3</sup> ) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	24-Aug-18	09:07	09:37	29.4	80%	78.1	1432	47.7
2	24-Aug-18	10:00	11:00	30.5	76%	132.7	6251	104.2
3	24-Aug-18	11:12	12:42	30.6	76%	147.4	10055	111.7
4	24-Aug-18	13:21	15:21	31.0	71%	211.4	20762	173.0

Be Linear Regression of Y or X

Slope (K-factor): 1.0678      Intercept,b: 25.831  
 Correlation coefficient (R): 0.9985

Remark: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Recorded by: Icy Chan

Signature: *Icy*

Date: 07/Sep/2018

Checked by: Eva Keung

Signature: *Eva*

Date: 07/Sep/2018


**REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION**

**REPORT NO.** : HK1810147  
**PROJECT NAME** : PERFORMANCE CHECK / CALIBRATION OF DUST METER  
**DATE OF ISSUE** : 12/2/2018  
**CUSTOMER** : Envirotech Services Company  
**ADDRESS** : Rm. 113, 1/F., MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.

**REPORT NO.** : HK1810147  
**PROJECT ITEM NO.** : HK1810147-01  
**PERFORMANCE CHECK / CALIBRATED EQUIPMENT**  
**TYPE** : Digital Dust Indicator  
**MANUFACTURER** : SIBATA  
**MODEL NO.** : LD-3B  
**SERIAL NO.** : 245834  
**EQUIPMENT NO.** : —  
**RECEIPT DATE** : 8/2/2018  
**PERFORMANCE CHECK / CALIBRATION DATE** : 9/2/2018

**PERFORMANCE CHECK / CALIBRATION Information**

CODE	Calibration Parameter	Method Procedure	Reference Method
Dust PC/CAL	Performance Check / Calibration of Dust Meter	CAL003	General Technical Requirements of Environmental Monitoring, Environmental Monitoring & Audit Guidelines for Development Projects in HK

- Notes : 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.  
 2. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Approved Signatory

\_\_\_\_\_  
 Wong Po Yan Pauline  
 (Assistant Laboratory Manager)

Issue Date: 12/2/2018



## REPORT OF PERFORMANCE CHECK / CALIBRATION

PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER  
 DATE OF ISSUE : 12/2/2018  
 REPORT NO. : HK1810147

## PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator  
 MANUFACTURER : SIBATA  
 MODEL NO. : LD-3B  
 SERIAL NO. : 245834  
 EQUIPMENT NO. : ---  
 SENSITIVITY ADJUSTMENT : ---  
 PERFORMANCE CHECK / CALIBRATION DATE : 9/2/2018

## STANDARD EQUIPMENT

TYPE : HIGH VOLUME AIR SAMPLER  
 MANUFACTURER : TISCH  
 MODEL NO. : TE-5170  
 EQUIPMENT REF NO. : PTL\_HV002  
 LAST CALIBRATION DATE : 29/1/2018

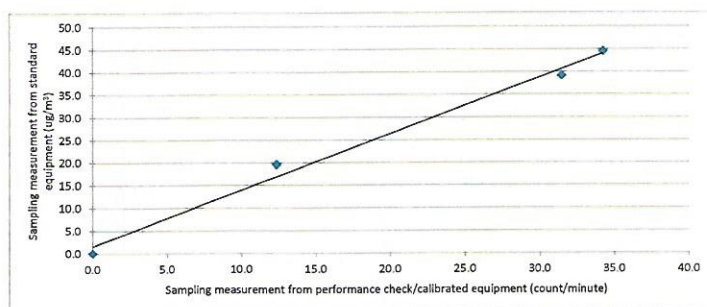
## EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration): 703 CPM  
 Sensitivity Adjustment Scale Setting (After Performance check / Calibration): 703 CPM

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Total Count <sup>2</sup> (Performance Check / Calibrated equipment)	Concentration in Count/Minute <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
Zero Check <sup>1</sup>	9/2/2018,9:05:00 AM	15.5	1017	0	0	0
1	9/2/2018,11:40:00 AM	15.5	1017	45	2054	34
2	9/2/2018,2:07:00 PM	15.5	1017	39	1888	31
3	9/2/2018,3:09:00 PM	15.5	1017	20	740	12

## Linear Regression of Y on X

Slope (K- factor) : 1.2  
 Correlation Coefficient : 0.9951  
 Validity of Performance Check / Calibration Record : 9/2/2019



- Notes : 1. Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.  
 2. Total Count was measured by Digital Dust Indicator.  
 3. Count/minute was calculated by (Total Count/60)  
 4. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.  
 5. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Operator: MA Ching Him, Jackey Signature: [Signature] Date: 9/2/2018

Checked by: Wong Po Yan, Pauline Signature: [Signature] Date: 12/2/2018

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler**  
**5-Point Calibration Record**

Location : AMS2(Tung Chung Development Pier)  
Calibrated by : P. F. Yeung  
Date : 12/07/2018

**Sampler**

Model : TE-5170  
Serial Number : S/N3641

**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) : 1003  
Ta(K) : 304

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	12.8	3.525	1.724	56	55.17
2   13 holes	10.2	3.146	1.540	50	49.26
3   10 holes	7.8	2.751	1.347	46	45.32
4   7 holes	4.8	2.158	1.058	38	37.44
5   5 holes	3.2	1.762	0.865	30	29.56

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): 28.663      Intercept(b): 5.886      Correlation Coefficient(r): 0.9950

Checked by: Magnum Fan

Date: 16/07/2018

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler**  
**5-Point Calibration Record**

Location : AMS2(Tung Chung Development Pier)  
Calibrated by : P.F.Yeung  
Date : 10/09/2018

**Sampler**

Model : TE-5170  
Serial Number : S/N3641

**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) : 1013  
Ta(K) : 302

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	12.2	3.464	1.694	56	55.54
2   13 holes	9.6	3.073	1.504	50	49.59
3   10 holes	7.2	2.661	1.303	44	43.64
4   7 holes	4.8	2.173	1.065	38	37.69
5   5 holes	2.7	1.630	0.801	30	29.75

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): 27.479      Intercept(b): 6.696      Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan

Date: 10/09/2018



ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler**  
**5-Point Calibration Record**

Location : AMS7B 3RS (Site Office)  
 Calibrated by : P.F.Yeung  
 Date : 30/07/2018

**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) : 1005  
 Ta(K) : 305

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	10.80	3.236	1.583	52	51.20
2   13 holes	8.80	2.921	1.430	48	47.26
3   10 holes	6.50	2.510	1.230	43	42.34
4   7 holes	4.40	2.065	1.013	36	35.44
5   5 holes	2.50	1.557	0.765	28	27.57

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): 28.907      Intercept(b): 5.951      Correlation Coefficient(r): 0.9982

Checked by: Magnum Fan

Date: 02/08/2018

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler**  
**5-Point Calibration Record**

Location : AMS7B 3RS (Site Office)  
 Calibrated by : P.F.Yeung  
 Date : 21/09/2018

**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) : 303

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	9.8	3.101	1.518	50	49.54
2   13 holes	7.6	2.731	1.337	45	44.58
3   10 holes	5.4	2.302	1.128	40	39.63
4   7 holes	3	1.716	0.843	35	34.68
5   5 holes	1.5	1.213	0.598	28	27.74

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): 22.827      Intercept(b): 14.468      Correlation Coefficient(r): 0.9969

Checked by: Magnum Fan

Date: 25/09/2018

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AMS3C (Ying Tung Estate)  
Calibrated by : P.F.Yeung  
Date : 20/08/2018

Sampler

Model : TE-5170  
Serial Number : S/N3977

Calibration Office 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) : 1002  
Ta(K) : 303

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	11.8	3.388	1.658	54	53.26
2   13 holes	9.2	2.992	1.464	50	49.32
3   10 holes	7.0	2.610	1.278	45	44.38
4   7 holes	4.5	2.092	1.026	38	37.48
5   5 holes	2.8	1.650	0.811	30	29.59

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

Sampler Calibration Relationship

Slope(m): 27.860      Intercept(b): 8.053      Correlation Coefficient(r): 0.9951

Checked by: Magnum Fan

Date: 22/08/2018



# Certificate of Calibration

Calibration Certification Information			
Cal. Date: March 19, 2018	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 746.8	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: <b>2454</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4300	3.2	2.00
2	3	4	1	1.0040	6.4	4.00
3	5	6	1	0.9030	7.9	5.00
4	7	8	1	0.8590	8.7	5.50
5	9	10	1	0.7080	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
0.9917	0.6935	1.4113	0.9957	0.6963	0.8874
0.9874	0.9835	1.9959	0.9914	0.9875	1.2549
0.9854	1.0913	2.2315	0.9894	1.0957	1.4030
0.9843	1.1459	2.3405	0.9883	1.1506	1.4715
0.9789	1.3826	2.8227	0.9829	1.3882	1.7747
<b>QSTD</b>	m=	<b>2.05242</b>	<b>QA</b>	m=	<b>1.28519</b>
	b=	<b>-0.01383</b>		b=	<b>-0.00869</b>
	r=	<b>0.99994</b>		r=	<b>0.99994</b>

Calculations	
Vstd= $\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	Va= $\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
Qstd= Vstd/ΔTime	Qa= Va/ΔTime
<b>For subsequent flow rate calculations:</b>	
Qstd= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

# Certificate of Calibration

## 校正證書

Certificate No. : C183438

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	C181288

- 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。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, 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四樓

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 2 of 2





輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No. : C182423

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC18-0873)

Date of Receipt / 收件日期 : 27 April 2018

Description / 儀器名稱 : Acoustical Calibrator  
Manufacturer / 製造商 : Brüel & Kjær  
Model No. / 型號 : 4231  
Serial No. / 編號 : 3018753  
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 ± 2)°C

Relative Humidity / 相對濕度 : (50 ± 25)%

Line Voltage / 電壓 : ---

## TEST SPECIFICATIONS / 測試規範

Calibration check

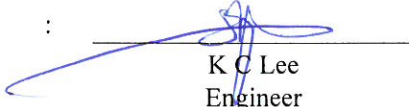
DATE OF TEST / 測試日期 : 10 May 2018

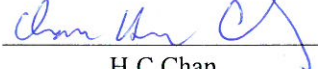
## TEST RESULTS / 測試結果

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 : 10 May 2018  
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。

Sun Creation Engineering Limited – Calibration & Testing Laboratory  
c/o 4/F, 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四樓

Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



# Certificate of Calibration

## 校正證書

Certificate No. : C182423  
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	C181288

- 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.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No. : C182424  
證書編號

ITEM TESTED / 送檢項目 ( Job No. / 序引編號 : IC18-0873 )

Date of Receipt / 收件日期 : 27 April 2018

Description / 儀器名稱 : Integrating Sound Level Meter  
Manufacturer / 製造商 : Brüel & Kjær  
Model No. / 型號 : 2238  
Serial No. / 編號 : 2381580  
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 :  $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$

Line Voltage / 電壓 : ---

## TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 10 May 2018


## 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).

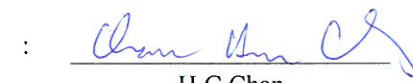
The test equipment used for calibration are traceable to National Standards via :

- 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

10 May 2018

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.

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Website/網址: www.suncreation.com

# Certificate of Calibration

## 校正證書

Certificate No. : C182424

證書編號

1. 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.
2. Self-calibration using the B & K Acoustic Calibrator 4231, S/N : 3018753 was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C180024
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. 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 <sub>AFP</sub>	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 <sub>AFP</sub>	A	F	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.0

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 <sub>AFP</sub>	A	F	94.00	1	94.1	Ref.
	L <sub>ASP</sub>		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所書面批准。



# Certificate of Calibration

## 校正證書

Certificate No. : C182424

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 <sub>AFP</sub>	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	90.9	-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	93.0	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.9	-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 <sub>CFP</sub>	C	F	94.00	63 Hz	93.4	-0.8 ± 1.5
					125 Hz	93.9	-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	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.0	-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所書面批准。



# Certificate of Calibration

## 校正證書

Certificate No. : C182424  
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2379759

- 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.

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Sun Creation Engineering Limited – Calibration & Testing Laboratory

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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四樓

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Page 4 of 4



## CERTIFICATE OF CALIBRATION

Certificate No.: 18CA0725 03 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone
Manufacturer:	B & K	B & K
Type/Model No.:	2238	4188
Serial/Equipment No.:	2800932	2791360
Adaptors used:	-	-

### Item submitted by

Customer Name:	Alkins China Limited.
Address of Customer:	-
Request No.:	-
Date of receipt:	25-Jul-2018

Date of test: 26-Jul-2018

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	08-Sep-2018	CIGISMEC
Signal generator	DS 360	33873	24-Apr-2019	CEPREI
Signal generator	DS 360	61227	23-Apr-2019	CEPREI

### Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng Jun Qi

Date: 26-Jul-2018

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.





## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 18CA0725 03 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date:

Fung Chi Yip  
26-Jul-2018

Checked by:

Date:

Lam Tze Wai  
26-Jul-2018

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type: 2238 Serial No. 2800932 Date 26-Jul-2018  
Microphone type: 4188 Serial No. 2791360  
Report: 18CA0725 03

### SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting 12.6 dB  
Noise level in C weighting 15.5 dB  
Noise level in Lin 21.1 dB

### LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	123.9	123.9	0.7	-0.1	-0.1
125.0	124.9	124.9	0.7	-0.1	-0.1
126.0	125.9	125.9	0.7	-0.1	-0.1
127.0	126.9	126.9	0.7	-0.1	-0.1
128.0	127.9	127.9	0.7	-0.1	-0.1
129.0	128.8	128.8	0.7	-0.2	-0.2
130.0	129.8	129.8	0.7	-0.2	-0.2
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.1	54.1	0.7	0.1	0.1
53.0	53.0	53.0	0.7	0.0	0.0
52.0	52.0	52.0	0.7	0.0	0.0
51.0	51.0	51.0	0.7	0.0	0.0
50.0	50.0	50.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
60-140	94.0	94.0	0.7	0.0





Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: 2238 Serial No. 2800932 Date 26-Jul-2018  
Microphone type: 4188 Serial No. 2791360

Report: 18CA0725 03

50-130	94.0	94.0	0.7	0.0
40-120	94.0	94.0	0.7	0.0
30-110	94.0	94.0	0.7	0.0
20-100	94.0	93.9	0.7	-0.1

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
60-140	62.0	62.0	0.7	0.0
	138.0	137.9	0.7	-0.1
50-130	52.0	52.0	0.7	0.0
	128.0	127.9	0.7	-0.1
40-120	42.0	42.0	0.7	0.0
	118.0	117.8	0.7	-0.2
30-110	32.0	32.0	0.7	0.0
	108.0	107.9	0.7	-0.1
20-100	30.0	30.0	0.7	0.0
	98.0	97.9	0.7	-0.1
10-90	30.0	29.9	0.7	-0.1
	88.0	87.9	0.7	-0.1
0-80	30.0	29.9	0.7	-0.1
	78.0	77.9	0.7	-0.1

FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.7	1.5	1.5	0.1
63.1	94.0	67.8	67.7	1.5	1.5	-0.1
125.9	94.0	77.9	77.8	1.0	1.0	-0.1
251.2	94.0	85.4	85.3	1.0	1.0	-0.1
501.2	94.0	90.8	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	94.9	1.0	1.0	-0.1
7943.0	94.0	92.9	92.8	1.5	3.0	-0.1
12590.0	94.0	89.7	89.5	3.0	6.0	-0.2

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	90.9	1.5	1.5	-0.1
63.1	94.0	93.2	93.2	1.5	1.5	0.0
125.9	94.0	93.8	93.7	1.0	1.0	-0.1



Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2238 Serial No. 2800932 Date 26-Jul-2018  
Microphone type: 4188 Serial No. 2791360

Report: 18CA0725 03

251.2	94.0	94.0	93.9	1.0	1.0	-0.1
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	93.1	1.0	1.0	-0.1
7943.0	94.0	91.0	90.9	1.5	3.0	-0.1
12590.0	94.0	87.8	87.6	3.0	6.0	-0.2

Frequency weighting Lin:

Frequency Hz	Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
				+	-	
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	93.9	1.5	1.5	-0.1
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	93.9	1.0	1.0	-0.1
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.2	1.5	3.0	0.2
12590.0	94.0	94.0	94.2	3.0	6.0	0.2

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
109.0	108.0	108.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
109.0	104.9	104.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting Z, set the generator signal to single, Lzprmax)

Ref. level dB	Response to 10 ms dB	Response to 100 us dB	Tolerance +/- dB	Deviation dB

Negative polarities:

Ref. level dB	Response to 10 ms dB	Response to 100 us dB	Tolerance +/- dB	Deviation dB





Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: 2238 Serial No. 2800932 Date 26-Jul-2018  
Microphone type: 4188 Serial No. 2791360  
Report: 18CA0725 03

**RMS ACCURACY TEST**

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time weighting	dB	dB	indication(dB)	+/- dB	dB
Slow	111.0+6.6	111.0	110.9	0.5	-0.1

**TIME WEIGHTING IMPULSE TEST**

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
113.0	104.2	104.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
113.0	110.3	110.2	1.0	-0.1

**TIME AVERAGING TEST**

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	83.0	83.0	82.6	1.0	-0.4	60s integ.
10000	73.0	73.0	72.6	1.0	-0.4	6min. integ.

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of tone burst (dB)	Expected	Actual	Tolerance	Deviation
msec	dB	dB	dB	+/- dB	dB
10	116.0	86.0	85.9	1.7	-0.1

The integrating sound level meter set to SEL:

Duration	Rms level of tone burst (dB)	Expected	Actual	Tolerance	Deviation
msec	dB	dB	dB	+/- dB	dB
10.0	116.0	96.0	95.9	1.7	-0.1



Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type: 2238 Serial No. 2800932 Date 26-Jul-2018  
Microphone type: 4188 Serial No. 2791360  
Report: 18CA0725 03

#### OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
125.1	124.1	121.1	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
130.5	129.5	89.5	89.4	2.2	-0.1

#### ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency Hz	Expected level dB	Actual level Measured (dB)	Tolerance (dB)		Deviation dB
			+	-	
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.1	1.0	1.0	0.2
8000	92.9	93.1	1.5	3.0	0.2

-----END-----





輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration

## 校正證書

Certificate No. : C183438  
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC18-1201)

Date of Receipt / 收件日期 : 12 June 2018

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 :  $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$

Line Voltage / 電壓 : ---

### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 23 June 2018

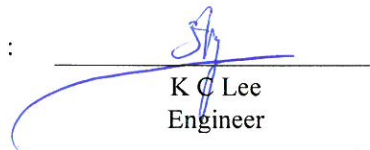
### TEST RESULTS / 測試結果

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).

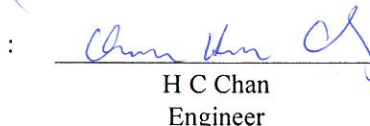
The test equipment used for calibration are traceable to National Standards via :

- 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

29 June 2018

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.

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Sun Creation Engineering Limited – Calibration & Testing Laboratory

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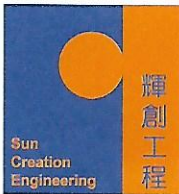
c/o 香港新界屯門興安里一號四樓

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# Certificate of Calibration

## 校正證書

Certificate No. : C183084  
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC18-1101)

Date of Receipt / 收件日期 : 30 May 2018

Description / 儀器名稱 : Precision Acoustic Calibrator

Manufacturer / 製造商 : LARSON DAVIS

Model No. / 型號 : CAL200

Serial No. / 編號 : 11333

Supplied By / 委託者 : Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,  
New Territories, Hong Kong

### TEST CONDITIONS / 測試條件

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

Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$

Line Voltage / 電壓 : ---

### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 June 2018

### 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).

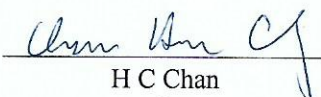
The test equipment used for calibration are traceable to National Standards via :

- 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

14 June 2018

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. : C183084

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. 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	C181288

4. Test procedure : MA100N.

5. 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	93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8		

### 5.2 Frequency Accuracy

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

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

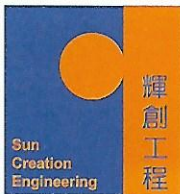
#### Note :

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.

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# Certificate of Calibration 校正證書

Certificate No. : C183089  
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC18-1132)      Date of Receipt / 收件日期 : 31 May 2018  
Description / 儀器名稱 : Sound Level Meter  
Manufacturer / 製造商 : Rion  
Model No. / 型號 : NL-52  
Serial No. / 編號 : 00331805  
Supplied By / 委託者 : Envirotech Services Co.  
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,  
New Territories, Hong Kong

## TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}\text{C}$       Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$   
Line Voltage / 電壓 : ---

## TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 10 June 2018

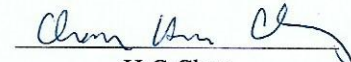
## TEST RESULTS / 測試結果

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 : 14 June 2018  
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.

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# Certificate of Calibration

## 校正證書

Certificate No. : C183089

證書編號

1. 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.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C180024
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. 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)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L <sub>A</sub>	A	Fast	94.00	1	94.2	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L <sub>A</sub>	A	Fast	94.00	1	94.2 (Ref.)
				104.00		104.2
				114.00		114.2

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)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L <sub>A</sub>	A	Fast	94.00	1	94.2	Ref.
			Slow			94.2	± 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.

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# Certificate of Calibration

## 校正證書

Certificate No. : C183089

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)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L <sub>A</sub>	A	Fast	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	78.0	-16.1 ± 1.5
					250 Hz	85.5	-8.6 ± 1.4
					500 Hz	91.0	-3.2 ± 1.4
					1 kHz	94.2	Ref.
					2 kHz	95.4	+1.2 ± 1.6
					4 kHz	95.2	+1.0 ± 1.6
					8 kHz	93.2	-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)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L <sub>C</sub>	C	Fast	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	94.0	-0.2 ± 1.5
					250 Hz	94.2	0.0 ± 1.4
					500 Hz	94.2	0.0 ± 1.4
					1 kHz	94.2	Ref.
					2 kHz	94.1	-0.2 ± 1.6
					4 kHz	93.4	-0.8 ± 1.6
					8 kHz	91.3	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 04870

- 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.

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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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060170  
Date of Issue : 28 June 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 : 17E100747  
Date of Received : Jun 27, 2018  
Date of Calibration : Jun 27, 2018 to Jun 27, 2018  
Date of Next Calibration<sup>(a)</sup> : Sep 27, 2018

### PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	3.97	-0.03	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	10.00	-0.01	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
12.6	12.3	-0.3	Satisfactory
37.4	37.5	0.1	Satisfactory
62.7	61.4	-1.3	Satisfactory


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

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060170  
Date of Issue : 28 June 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	0.02	0.02	Satisfactory
4.37	4.41	0.04	Satisfactory
5.96	6.12	0.16	Satisfactory
7.34	7.41	0.07	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	148.0	0.7	Satisfactory
0.01	1412	1438	1.8	Satisfactory
0.1	12890	12696	-1.5	Satisfactory
0.5	58670	57876	-1.4	Satisfactory
1.0	111900	111059	-0.8	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.99	-0.1	Satisfactory
20	20.09	0.4	Satisfactory
30	30.22	0.7	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(f)</sup> (NTU)	Tolerance <sup>(g)</sup> (%)	Results
0	0.00	--	--
10	10.14	1.4	Satisfactory
20	20.30	1.5	Satisfactory
100	101.67	1.7	Satisfactory
800	818.83	2.4	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

Remark(s): -

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

<sup>(g)</sup> 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.



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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH070141  
Date of Issue : 26 July 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 : Jul 25, 2018  
Date of Calibration : Jul 25, 2018 to Jul 26, 2018  
Date of Next Calibration<sup>(a)</sup> : Oct 25, 2018

## PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.48	0.06	Satisfactory
10.01	10.00	-0.01	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
10.0	10.2	0.2	Satisfactory
25.6	25.7	0.1	Satisfactory
39.0	39.2	0.2	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

### Remark(s): -

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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH070141  
Date of Issue : 26 July 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
4.99	5.01	0.02	Satisfactory
6.40	6.43	0.03	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	152.8	4.0	Satisfactory
0.01	1412	1340	-5.1	Satisfactory
0.1	12890	12456	-3.4	Satisfactory
0.5	58670	54401	-7.3	Satisfactory
1.0	111900	104586	-6.5	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.63	-3.7	Satisfactory
20	19.76	-1.2	Satisfactory
30	30.56	1.9	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(f)</sup> (NTU)	Tolerance <sup>(g)</sup> (%)	Results
0	0.07	--	--
10	9.36	-6.4	Satisfactory
20	20.97	4.8	Satisfactory
100	96.48	-3.5	Satisfactory
800	748.6	-6.4	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

Remark(s): -

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

<sup>(g)</sup> 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.



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH080234  
Date of Issue : 21 August 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 6920 v2 (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 0001C6A7  
Date of Received : Aug 20, 2018  
Date of Calibration : Aug 20, 2018  
Date of Next Calibration<sup>(a)</sup> : Nov 20, 2018

### PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	4.05	0.05	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.04	0.03	Satisfactory

Tolerance of pH should be less than  $\pm 0.10$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
17.0	17.2	0.2	Satisfactory
26.3	26.2	-0.1	Satisfactory
54.3	53.8	-0.5	Satisfactory


Tolerance limit of temperature should be less than  $\pm 2.0$  (°C)

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH080234  
Date of Issue : 21 August 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	0.06	0.06	Satisfactory
2.81	2.92	0.11	Satisfactory
4.18	4.23	0.05	Satisfactory
7.76	7.80	0.04	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	152.3	3.7	Satisfactory
0.01	1412	1427	1.1	Satisfactory
0.1	12890	12676	-1.7	Satisfactory
0.5	58670	57968	-1.2	Satisfactory
1.0	111900	108346	-3.2	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.98	-0.2	Satisfactory
20	19.97	-0.2	Satisfactory
30	30.10	0.3	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(1)</sup> (NTU)	Tolerance <sup>(2)</sup> (%)	Results
0	0.4	--	--
10	10.2	2.0	Satisfactory
20	20.3	1.5	Satisfactory
100	101.5	1.5	Satisfactory
800	821.7	2.7	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

**Remark(s): -**

<sup>(1)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(2)</sup> 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.





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH080233  
Date of Issue : 21 August 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 6920 v2 (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 00019CB2  
Date of Received : Aug 20, 2018  
Date of Calibration : Aug 20, 2018  
Date of Next Calibration<sup>(a)</sup> : Nov 20, 2018

### PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.43	0.01	Satisfactory
10.01	9.97	-0.04	Satisfactory

Tolerance of pH should be less than  $\pm 0.10$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
17.0	17.1	0.1	Satisfactory
26.3	26.2	-0.1	Satisfactory
54.3	54.0	-0.3	Satisfactory


Tolerance limit of temperature should be less than  $\pm 2.0$  (°C)

~ CONTINUED ON NEXT PAGE ~

#### Remark(s) :-

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

APPROVED SIGNATORY:

  
LAM Ho-yee, Emma  
Assistant Laboratory Manager



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH080233  
Date of Issue : 21 August 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	0.05	0.05	Satisfactory
2.81	2.93	0.12	Satisfactory
4.18	4.24	0.06	Satisfactory
7.76	7.81	0.05	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	152.5	3.8	Satisfactory
0.01	1412	1424	0.8	Satisfactory
0.1	12890	12688	-1.6	Satisfactory
0.5	58670	57972	-1.2	Satisfactory
1.0	111900	109256	-2.4	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.98	-0.2	Satisfactory
20	20.17	0.9	Satisfactory
30	30.24	0.8	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(f)</sup> (NTU)	Tolerance <sup>(g)</sup> (%)	Results
0	0.5	--	--
10	10.3	3.0	Satisfactory
20	21.2	6.0	Satisfactory
100	100.8	0.8	Satisfactory
800	797.6	-0.3	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

**Remark(s): -**

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

<sup>(g)</sup> 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.



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060169  
Date of Issue : 28 June 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 : 16H104233  
Date of Received : Jun 27, 2018  
Date of Calibration : Jun 27, 2018 to Jun 27, 2018  
Date of Next Calibration<sup>(a)</sup> : Sep 27, 2018

### PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	3.96	-0.04	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH should be less than  $\pm 0.10$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
12.6	12.5	-0.1	Satisfactory
37.4	37.5	0.1	Satisfactory
62.7	61.5	-1.2	Satisfactory

Tolerance limit of temperature should be less than  $\pm 2.0$  (°C)

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

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





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060169  
Date of Issue : 28 June 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	0.03	0.03	Satisfactory
4.37	4.46	0.09	Satisfactory
5.96	6.10	0.14	Satisfactory
7.34	7.36	0.02	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	150.0	2.1	Satisfactory
0.01	1412	1398	-1.0	Satisfactory
0.1	12890	12724	-1.3	Satisfactory
0.5	58670	58012	-1.1	Satisfactory
1.0	111900	110847	-0.9	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.97	-0.3	Satisfactory
20	20.14	0.7	Satisfactory
30	30.28	0.9	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(f)</sup> (NTU)	Tolerance <sup>(g)</sup> (%)	Results
0	0.1	--	--
10	10.16	1.6	Satisfactory
20	20.19	1.0	Satisfactory
100	98.84	-1.2	Satisfactory
800	793.16	-0.9	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

**Remark(s): -**

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

<sup>(g)</sup> 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.



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH070142  
Date of Issue : 26 July 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 : Jul 25, 2018  
Date of Calibration : Jul 25, 2018 to Jul 25, 2018  
Date of Next Calibration<sup>(a)</sup> : Oct 25, 2018

### PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H <sup>+</sup> 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<sup>(b,c)</sup>

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading <sup>(d)</sup> (pH Unit)	Tolerance <sup>(e)</sup> (pH Unit)	Results
4.00	4.02	0.02	Satisfactory
7.42	7.48	0.06	Satisfactory
10.01	10.04	0.03	Satisfactory

Tolerance of pH should be less than  $\pm 0.10$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.1	0.1	Satisfactory
25.6	25.5	-0.1	Satisfactory
39.0	38.9	-0.1	Satisfactory


Tolerance limit of temperature should be less than  $\pm 2.0$  (°C)

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

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

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH070142  
Date of Issue : 26 July 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	0.06	0.06	Satisfactory
4.99	4.92	-0.07	Satisfactory
6.40	6.38	-0.02	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (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	156.6	6.6	Satisfactory
0.01	1412	1381	-2.2	Satisfactory
0.1	12890	12411	-3.7	Satisfactory
0.5	58670	54019	-7.9	Satisfactory
1.0	111900	104782	-6.4	Satisfactory

Tolerance limit of conductivity should be less than  $\pm 10.0$  (%)

#### (5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.61	-3.9	Satisfactory
20	19.82	-0.9	Satisfactory
30	30.48	1.6	Satisfactory

Tolerance limit of salinity should be less than  $\pm 10.0$  (%)

#### (6) Turbidity

Expected Reading (NTU)	Displayed Reading <sup>(1)</sup> (NTU)	Tolerance <sup>(2)</sup> (%)	Results
0	0.08	--	--
10	10.4	4.0	Satisfactory
20	20.82	4.1	Satisfactory
100	97.02	-3.0	Satisfactory
800	762.8	-4.7	Satisfactory

Tolerance limit of turbidity should be less than  $\pm 10.0$  (%)

~ END OF REPORT ~

**Remark(s): -**

<sup>(1)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(2)</sup> 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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX H

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## Event and Action Plan

## Event/Action Plan for Air Quality Monitoring

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

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

## Event / Action Plan for Construction Noise Monitoring

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

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



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

## Event / Action Plan for Dolphin Monitoring

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

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level	<ol style="list-style-type: none"> <li>1. Repeat statistical data analysis to confirm findings;</li> <li>2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&amp;A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;</li> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, ER/SOR and Contractor of findings;</li> <li>5. Check monitoring data;</li> <li>6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> <li>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.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor;</li> <li>2. Discuss monitoring results and findings with the ET and the Contractor;</li> <li>3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>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.</li> <li>5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>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.</li> <li>3. Supervise the implementation of additional monitoring and/or any other mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER/SOR and confirm notification of the non-compliance in writing;</li> <li>2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary.</li> <li>4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ol>



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**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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX I

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## 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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	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	0.066	0.000	0.000	0.000	0.066	0.000	0.000	1.493	0.000	0.000	0.510
June	0.071	0.000	0.000	0.000	0.071	0.000	0.000	0.000	0.000	0.000	0.218
Sub-total	5.566	5.429	0.000	0.000	5.566	0.000	437.360	6.830	0.000	0.000	5.492
July	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.114
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.201	0.000	0.000	0.189
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.000	0.000	0.066
October											
November											
December											
Total	5.576	5.429	0.000	0.000	5.576	0.000	437.360	9.731	0.000	0.000	5.861

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

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	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		
June	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005		
July	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		
August	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		
<b>September</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>		
October																				
November																				
December																				
<b>Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.045</b>	<b>0.045</b>	<b>0.007</b>	<b>0.007</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.045</b>	<b>0.045</b>		

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<sup>-3</sup>.





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Hong Kong Boundary Crossing Facilities – Passenger Clearance Building  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX J

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## 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: September 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: September 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	<b>Billing Account</b> for disposal of construction waste	Billing Account No.: 7019944	16 May 14	N/A	EPD	
7.	PCB	30 Apr 14	H2620-LTR- EPD-000002	<b>Notification</b> 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	<b>Notification</b> 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	<b>Notification</b> 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: September 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	<b>Registration</b> 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	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0683-14	03 Jul 14	29 Dec 14	EPD	Superseded by GW-RS0908-14
12.	WA2	02 Jul 14	H2620-LTR-LCJ-AU-000280	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS0715-14	17 Jul 14	15 Jan 15	EPD	Superseded by GW-RS1034-14
13.	WA3	02 Jul 14	H2620-LTR-LCJ-AU-000324	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0716-14	17 Jul 14	15 Jan 15	EPD	Expired

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	Work Area	Date	Reference						
14.	PCB	23 Jun 14	H2620-LTR- EPD-000527	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0908-14	03 Sep 14	22 Dec 14	EPD	Superseded by GW-RS1044-14
15.	PCB	29 Sep 14	H2620-LTR-EPD-AU-000034	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1044-14	29 Sep 14	24 Dec 14	EPD	Superseded by GW-RS1300-14
16.	WA2	12 Sep 14	H2620-LTR-EPD-AU-000032	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS1034-14	29 Sep 14	28 Mar 15	EPD	Expired
17.	WA4	17 Oct 14	H2620-LTR-EPD-AU-000036	<b>CNP</b> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0814-14	20 Oct 14	19 Apr 15	EPD	Expired and replaced by GW-RW0171-15

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	Work Area	Date	Reference						
18.	PCB	03 Nov 14	H2620-LTR-EPD-AU-000040	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1300-14	17 Nov 14	16 Feb 15	EPD	Superseded by GW-RS0087-15
19.	PCB	12 Jan 15	H2620-LTR-EPD-AU-000046	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0087-15	26 Jan 15	25 Apr 15	EPD	Superseded by GW-RS0308-15
20.	PCB	12 Mar 15	H2620-LTR-EPD-AU-000051	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0308-15	26 Mar 15	25 Jun 15	EPD	Superseded by GW-RS0476-15
21.	PCB	31 Jul 14	H2620-LTR-EPD-AU-000038	<b>Water Discharge License</b> for construction works on PCB island	WT00020335-2014	13 Nov 14	30 Nov 19	EPD	



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	Work Area	Date	Reference						
22.	WA4	27 Mar 15	H2620-LTR-EPD-AU-000054	<b>CNP</b> 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	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0476-15	01 May 15	31 Jul 15	EPD	Superseded by GW-RS0685-15
24.	PCB	09 Jun 15	H2620-LTR-EPD-AU-000063	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0685-15	01 Jul 15	30 Sep 15	EPD	Superseded by GW-RS0877-15
25.	WA4	29 Jun 15	H2620-LTR-EPD-AU-000066	<b>CNP</b> 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

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	Work Area	Date	Reference						
26.	PCB	27 Jul 15	H2620-LTR-EPD-AU-000069	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0877-15	10 Aug 15	09 Nov 15	EPD	Superseded by GW-RS1016-15
27.	PCB	02 Sep 15	H2620-LTR-EPD-AU-000072	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out pre-drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1016-15	18 Sep 15	17 Dec 15	EPD	Superseded by GW-RS1195-15
28.	PCB	22 Oct 15	H2620-LTR-EPD-AU-000075	<b>CNP</b> 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	<b>CNP</b> 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

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	Work Area	Date	Reference						
30.	WA4	24 Dec 15	H2620-LTR-EPD-AU-000080	<b>CNP</b> 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	<b>CNP</b> 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	<b>CNP</b> 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	<b>CNP</b> 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

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	Work Area	Date	Reference						
34.	PCB	09 Aug 16	H2620-LTR-EPD-AU-000092	<b>CNP</b> 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	<b>CNP</b> 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	<b>CNP</b> 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	<b>CNP</b> 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

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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	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0015-17	12 Jan 17	11 Jul 17	EPD	Superseded by GW-RS0587-17
39.	PCB	12 May 17	H2620-LTR-EPD-AU-000106	<b>CNP</b> 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	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-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	<b>CNP</b> 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

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	Work Area	Date	Reference						
42.	PCB	20 Oct 17	H2620-LTR-EPD-AU-000117	<b>CNP</b> 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	Expired and replaced by GW-RS0389-18
43.	WA3	20 Dec 17	H2620-LTR-EPD-AU-000119	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS1201-17	12 Jan 18	11 Jul 18	EPD	Expired and replaced by GW-RS0589-18
44.	WA4	20 Dec 17	H2620-LTR-EPD-AU-000118	<b>CNP</b> 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	Expired and replaced by GW-RW0271-18
45.	PCB	27 Apr 18	H2620-LTR-EPD-AU-000125	<b>CNP</b> 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-RS0389-18	13 May 18	12 Nov 18	EPD	-



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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						
46.	WA4	22 Jun 18	H2620-LTR-EPD-AU-000129	<b>CNP</b> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0271-18	10 Jul 18	06 Jan 19	EPD	-
47.	WA3	22 Jun 18	H2620-LTR-EPD-AU-000128	<b>CNP</b> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0589-18	12 Jul 18	11 Jan 19	EPD	-



# APPENDIX K

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## Implementation Schedule for Environmental Mitigation Measures (EMIS)

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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
<b>Air Quality</b>								
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	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"> <li>• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>• Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> <li>• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 $\mu\text{g}\text{m}^{-3}$ 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"> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> <li>Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;</li> <li>Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 $\mu\text{g}\text{m}^{-3}$ 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	<p>N/A</p> <p>All site area of C1 have been paved, the watering was not required in reporting month</p>
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	En	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"> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 <math>\mu\text{g}\text{m}^{-3}</math> and 260 <math>\mu\text{g}\text{m}^{-3}</math>, respectively)</li> </ul>	√ (The dust monitoring works (Station AMS6) under EM&A programme for the Contract is covered by Contract No. HY/2011/03. Monitoring stations AMS2, AMS3C and AMS7B for the Contract are covered by Contract No. HY/2013/01) and Contract No. HY/2013/04
S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</p> <ul style="list-style-type: none"> <li>Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP;</li> <li>Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>The materials which may generate airborne dusty emissions should be wetted by water spray system;</li> <li>All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> <li>All conveyor transfer points should be totally enclosed;</li> <li>All access and route roads within the premises should be paved and wetted; and</li> <li>Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body.</li> </ul>	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"> <li>Air Pollution Control (Construction Dust) Regulation</li> <li>To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 <math>\mu\text{g}\text{m}^{-3}</math> and 260 <math>\mu\text{g}\text{m}^{-3}</math>, respectively)</li> </ul>	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> <li>All road surface within the barging facilities will be paved;</li> <li>Dust enclosures will be provided for the loading ramp;</li> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>Continuous water spray at the loading points.</li> </ul>	Control construction dust	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Air Pollution Control (Construction Dust) Regulation</li> </ul>	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
<b>Construction Noise (Air borne)</b>								
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: <ul style="list-style-type: none"> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	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"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> </ul>	N/A
S6.4.12	N3	3) Install movable noise barriers (typically density @14kg/m <sup>2</sup> ), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	<ul style="list-style-type: none"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> <li>75dB(A) for residential premises</li> <li>The movable barrier should achieve at least 5dB(A) and the full enclosure should be designed to achieve 10dB(A)</li> </ul>	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"> <li>Noise Control Ordinance &amp; its TM</li> <li>Annex 5, TM-EIA</li> </ul>	√
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"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> </ul>	√
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"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> <li>75dB(A) for residential premises</li> </ul>	√ (Noise monitoring station NMS2 is covered by Contract No. HY/2013/01. Noise monitoring station NMS3C is covered by Contract No. HY/2013/04.)
<b>Sediment</b>								
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> <li>ETW B TC 34/2002</li> </ul>	N/A
<b>Waste Management (Construction Waste)</b>								
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"> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETW BTC 19/2005</li> </ul>	√ √ √ √

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S8.3.8	WM1	<ul style="list-style-type: none"> <li>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&amp;D materials and to minimize their generation during the course of construction.</li> <li>In addition, disposal of the C&amp;D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li></li> </ul>	<p>√</p> <p>√</p>
S8.3.9- S8.3.11	WM2	<p><u>C&amp;D Waste</u></p> <ul style="list-style-type: none"> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TC 19/2005</li> </ul>	<p>√</p> <p>√</p>
S8.2.12- S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> <li>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	<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"> <li>Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>	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"> <li>Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.</li> </ul>	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>	√
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> <li>Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided.</li> <li>Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>	√ √ √ √ √

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
<b>Water Quality (Construction Phase)</b>								
S.9.11.1.7	W1	Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of backfilling, as well as protection measures. Details of the measures are provided below: <ul style="list-style-type: none"> <li>Reclamation filling for the Project shall not proceed until at least 200m of leading seawall at the reclamation area formed above +2.2mPD, unless otherwise agreement was obtained from EPD, except for the 300m gaps for marine access. All underwater filling works shall be carried out behind seawalls to avoid dispersion of suspended solids outside the Project limit;</li> </ul>	To control construction water quality	Contractor	During filling	Construction stage	TM-EIAO	√
S.9.11.1.7	W1	<ul style="list-style-type: none"> <li>Except for the filling of the cellular structures, not more than 15% public fill shall be used for reclamation filling below +2.5mPD during construction of the seawall;</li> <li>After the seawall is completed except for the 300m marine access as indicated in the EPs, not more than 30% public fill shall be used for reclamation filling below +2.5mPD, unless otherwise agreement from EPD was obtained;</li> <li>Upon completion of 200m leading seawall, no more than a total of 60 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 60,000 m3 for HKBCF and TMCLKL southern landfall reclamation during the filling operation; and</li> <li>Upon completion of the whole section of seawall except for the 300m marine access as indicated in the EPs, no more than a total of 190 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 190,000 m3 for the remaining filling operations for HKBCF and TMCLKL southern landfall reclamation.</li> <li>Floating type perimeter silt curtains shall be around the HKBCF site before the commencement of marine works. Staggered layers of silt curtain shall be provided to prevent sediment loss at navigation accesses. The length of each staggered layers shall be at least 200m;</li> <li>Single layer silt curtain to be applied around the North-east airport water intake;</li> <li>The silt-curtains should be maintained in good condition to ensure the sediment plume generated from filling be confined effectively within the site boundary;</li> <li>The filling works shall be scheduled to spread the works evenly over a working day;</li> <li>Cellular structure shall be used for seawall construction;</li> <li>A layer of geotextile shall be placed on top of the seabed before any filling activities take place inside the cellular structures to form the seawall;</li> </ul>	To control construction water quality	Contractor	During filling	Construction stage	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
S.9.11.1.7	W1	<ul style="list-style-type: none"> <li>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</li> <li>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.</li> </ul>	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"> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> </ul>	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"> <li>sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided;</li> <li>storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks;</li> <li>silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm;</li> <li>temporary access roads should be surfaced with crushed stone or gravel;</li> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> <li>measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;</li> <li>open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms;</li> <li>manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers;</li> <li>discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> </ul>	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"> <li>all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit;</li> <li>wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> <li>the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;</li> <li>wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> <li>vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal;</li> <li>the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> <li>waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance;</li> <li>all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and</li> <li>surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	<ul style="list-style-type: none"> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> </ul>
S.9.14	W3	<ul style="list-style-type: none"> <li>Implement a water quality monitoring programme.</li> </ul>	To control water quality	Contractor	Selected representative water quality monitoring station	Construction stage	<ul style="list-style-type: none"> <li>TM-EIAO</li> <li>Water Pollution Control Ordinance</li> </ul>	<ul style="list-style-type: none"> <li>√</li> </ul> <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
<b>Ecology (Construction Phase)</b>								
S10.7	E1	<ul style="list-style-type: none"> <li>Install silt curtain during the construction</li> <li>Limit works fronts</li> <li>Construct seawall prior to reclamation filling where practicable</li> <li>Good site practices</li> <li>Strict enforcement of no marine dumping</li> <li>Site runoff control</li> <li>Spill response plan</li> </ul>	Prevent Sedimentation from Land-based works areas	Contractor	Seawall, reclamation area	During construction	TM-Water	√ √ √ √ √ √
S10.7	E2	<ul style="list-style-type: none"> <li>Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater.</li> </ul>	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"> <li>Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time</li> </ul>	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	TM-Water	√
S10.7	E4	<ul style="list-style-type: none"> <li>Dolphin Exclusion Zone</li> <li>Dolphin Watching plan</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine Works	During construction	TM-Water	√ √
S10.7	E5	<ul style="list-style-type: none"> <li>Decouple compressors and other equipment on working vessels</li> <li>Proposal on design and implementation of acoustic decoupling measures applied during reclamation works</li> <li>Avoidance of percussive piling</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine Works	During construction	TM-Water	√ √ √
S10.7	E6	<ul style="list-style-type: none"> <li>Control vessel speed</li> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction	TM-Water	√ √ √
S10.7	E7	<ul style="list-style-type: none"> <li>Vessel based dolphin monitoring</li> </ul>	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.)
<b>Fisheries</b>								
S11.7	F1	<ul style="list-style-type: none"> <li>Reduce re-suspension of sediments</li> <li>Limit works fronts</li> <li>Good site practices</li> <li>Strict enforcement of no marine dumping</li> <li>Spill response plan</li> </ul>	Minimise impacts on marine water quality impacts	Marine Department	Seawall, reclamation area	During operation		√ √ √ √ √
S11.7	F2	<ul style="list-style-type: none"> <li>Install silt-grease trap in the drainage system collecting surface runoff</li> </ul>	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"> <li>Maritime Oil Spill Response Plan (MOSRP);</li> <li>Contingency plan.</li> </ul>	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation		N/A
<b>Landscape &amp; Visual (Detailed Design Phase)</b>								
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> <li>Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> <li>Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting;</li> <li>Protection measures for the trees to be retained during construction activities;</li> <li>Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;</li> <li>Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;</li> <li>Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> </ul>	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A
S14.3.3.1	LV1	<ul style="list-style-type: none"> <li>For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and</li> <li>Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF.</li> </ul>	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
<b>Landscape &amp; Visual (Construction Phase)</b>								
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <ul style="list-style-type: none"> <li>Grass-hydroseed bare soil surface and stock pile areas.</li> <li>Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</li> <li>Not applicable as this is for HKLR.</li> <li>For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF.</li> <li>Vegetation reinstatement and upgrading to disturbed areas</li> <li>Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</li> <li>Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> <li>Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</li> <li>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.</li> </ul>	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"> <li>V1.Minimize time for construction activities during construction period.</li> <li>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.</li> </ul>						<p>√</p> <p>√</p>
<b>EM&amp;A</b>								
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"> <li>EIAO Guidance Note No.4/2002</li> <li>TM-EIAO</li> </ul>	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S15.5 - S15.6	EM2	<ul style="list-style-type: none"> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ul>	Perform environmental monitoring & auditing	Contractor	All construction sites		<ul style="list-style-type: none"> <li>EIAO Guidance Note No.4/2002</li> <li>TM-EIAO</li> </ul>	<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  
48<sup>th</sup> Monthly EM&A Report

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## **APPENDIX L**

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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	11	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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX M

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## Environmental Site Inspection and Monitoring Schedule

**Contract No. HY/2013/01- HKBCF Passenger Clearance Building  
Environmental Monitoring Schedule for September 2018**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>Date</b>							<b>1-Sep</b>
<b>Date</b>	<b>2-Sep</b>	<b>3-Sep</b>	<b>4-Sep</b>	<b>5-Sep</b>	<b>6-Sep</b>	<b>7-Sep</b>	<b>8-Sep</b>
		AMS7B - 1 hour TSP AMS7B - 24 hours TSP <sup>(i)</sup>	NMS2	AMS2 - 24 hours TSP AMS3C - 1 hours TSP AMS3C - 24 hours TSP NMS3C	AMS2 - 1 hour TSP AMS7B - 24 hours TSP	AMS7B - 1 hour TSP	
		Water Quality Monitoring		Water Quality Monitoring  Site Inspection		Water Quality Monitoring	
<b>Date</b>	<b>9-Sep</b>	<b>10-Sep</b>	<b>11-Sep</b>	<b>12-Sep</b>	<b>13-Sep</b>	<b>14-Sep</b>	<b>15-Sep</b>
		NMS2	AMS2 - 24 hours TSP AMS3C - 1 hours TSP AMS3C - 24 hours TSP NMS3C	AMS2 - 1 hour TSP AMS7B - 24 hours TSP	AMS7B - 1 hour TSP		
		Water Quality Monitoring Dolphin Monitoring		Water Quality Monitoring <sup>(iv)</sup>  Site Inspection		Water Quality Monitoring Dolphin Monitoring	
<b>Date</b>	<b>16-Sep</b>	<b>17-Sep</b>	<b>18-Sep</b>	<b>19-Sep</b>	<b>20-Sep</b>	<b>21-Sep</b>	<b>22-Sep</b>
		AMS2 - 24 hours TSP AMS3C - 1 hours TSP AMS3C - 24 hours TSP NMS3C	AMS2 - 1 hour TSP	AMS7B - 1 hour TSP	NMSS2	AMS2 - 24 hours TSP AMS7B - 1 hour TSP AMS3C - 1 hours TSP AMS3C - 24 hours TSP	
		Water Quality Monitoring <sup>(v)</sup>		Water Quality Monitoring Dolphin Monitoring  Site Inspection		Water Quality Monitoring	
<b>Date</b>	<b>23-Sep</b>	<b>24-Sep</b>	<b>25-Sep</b>	<b>26-Sep</b>	<b>27-Sep</b>	<b>28-Sep</b>	<b>29-Sep</b>
		AMS2 - 1 hour TSP AMS7B - 24 hours TSP <sup>(ii)</sup>		NMSS2 AMS7B - 24 hours TSP <sup>(iii)</sup>	AMS2 - 24 hours TSP AMS7B - 1 hour TSP AMS3C - 1 hours TSP AMS3C - 24 hours TSP NMS3C	AMS2 - 1 hour TSP AMS7B - 24 hours TSP	
		Water Quality Monitoring Dolphin Monitoring		Water Quality Monitoring  Site Inspection		Water Quality Monitoring	
<b>Date</b>	<b>30-Sep</b>						

**Remark:**

- (i) 24-hour TSP air quality monitoring at AMS7B on 31 August 2018 was rescheduled to 3 September 2018 due to unstable power supply.
- (ii) 24-hour TSP air quality monitoring at AMS7B on 18 September 2018 was rescheduled to 24 September 2018 due to unstable power supply.
- (iii) An additional 24-hour TSP air quality monitoring at AMS7B was conducted on 26 September 2018.
- (iv) Due to the typhoon signal was hoisted, the water quality monitoring (mid-ebb tide) on 12 September 2018 was cancelled.
- (v) Due to the typhoon signal was hoisted, the water quality monitoring on 17 September 2018 was cancelled.
- (vi) Due to the typhoon issue, three scheduled surveys on 18, 20 and 26 September 2018 were rescheduled to 14, 19 and 24 September 2018.

**PCB**

AMS2 - Tung Chung Development Pier  
AMS3C - Ying Tung Estate Market Rooftop  
AMS7B - 3RS site office (subject to EPD approval)  
NMS2 - Seaview Crescent  
NMS3C - Ying Tung Estate Refuse Collection Point

**Contract No. HY/2013/01- HKBCF Passenger Clearance Building  
Tentative Impact Environmental Monitoring Schedule for October 2018**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>Date</b>		<b>1-Oct</b>	<b>2-Oct</b>	<b>3-Oct</b>	<b>4-Oct</b>	<b>5-Oct</b>	<b>6-Oct</b>
						Site Inspection	
<b>Date</b>	<b>7-Oct</b>	<b>8-Oct</b>	<b>9-Oct</b>	<b>10-Oct</b>	<b>11-Oct</b>	<b>12-Oct</b>	<b>13-Oct</b>
				Site Inspection			
<b>Date</b>	<b>14-Oct</b>	<b>15-Oct</b>	<b>16-Oct</b>	<b>17-Oct</b>	<b>18-Oct</b>	<b>19-Oct</b>	<b>20-Oct</b>
					Site Inspection		
<b>Date</b>	<b>21-Oct</b>	<b>22-Oct</b>	<b>23-Oct</b>	<b>24-Oct</b>	<b>25-Oct</b>	<b>26-Oct</b>	<b>27-Oct</b>
				Site Inspection			
<b>Date</b>	<b>28-Oct</b>	<b>29-Oct</b>	<b>30-Oct</b>	<b>31-Oct</b>	<b>1-Nov</b>	<b>2-Nov</b>	<b>3-Nov</b>
				Site Inspection			

Remark: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc).



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  
48<sup>th</sup> Monthly EM&A Report

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# APPENDIX N

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Investigation Report

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b>						
					Notification No.: 20180903DO_v1	
<b>Date of Notification:</b> 06 September 2018			<b>Date of Investigation Report:</b> 4 October 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 3 September 2018 and the results were issued on 5 September 2018						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ <del>Suspended Solid (SS)</del> / <del>Turbidity (TURB)</del>						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0 mg/L  Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ)  Bottom 3.6 mg/L	<b>4.4</b>	<b>4.9</b>
DO	IS5	Bottom			<b>4.0</b>	<b>4.1</b>
DO	IS8	Bottom			<b>4.6</b>	5.0
DO	IS(Mf)9	Bottom			<b>4.6</b>	--(*)
DO	IS10(N)	Surface and Middle			<b>4.6</b>	<b>4.9</b>
DO	IS10(N)	Bottom			<b>3.7</b>	<b>4.2</b>
DO	IS(Mf)11	Surface and Middle			<b>4.8</b>	<b>4.9</b>
DO	IS(Mf)11	Bottom			<b>4.2</b>	<b>4.3</b>
DO	IS(Mf)16	Surface and Middle			<b>4.5</b>	5.2
DO	IS(Mf)16	Bottom			<b>4.3</b>	<b>4.6</b>
DO	IS17	Surface and Middle			<b>4.7</b>	<b>4.7</b>

DO	IS17	Bottom			<b>4.6</b>	4.7
DO	SR4(N)	Surface and Middle			<b>4.5</b>	5.0
DO	SR4(N)	Bottom			<b>4.3</b>	<b>4.2</b>
DO	SR5(N)	Surface and Middle			<b>4.7</b>	5.0
DO	SR5(N)	Bottom			<b>4.6</b>	4.7
DO	SR6	Surface and Middle			5.0	<b><u>4.1</u></b>
DO	SR6	Bottom			5.4	<b>4.0</b>
DO	SR7	Surface and Middle			<b>4.8</b>	5.3
DO	SR10A(N)	Surface and Middle			6.3	<b><u>4.1</u></b>
DO	SR10A(N)	Bottom			6.3	<b>4.0</b>
DO	SR10B(N2)	Surface and Middle			<b><u>4.7</u></b>	<b><u>4.1</u></b>
DO	SR10B(N2)	Bottom			<b>4.1</b>	<b>4.1</b>

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

Remark (\*): The water depth at station IS(Mf)9 during the sampling time is less than 3 meters. Therefore, only the mid-depth station was monitored.



**Possible reason for Action / Limit Level Non-compliance:**

On 3 September 2018, 18 AL exceedances of DO at stations IS5, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR4(N), SR5(N), SR7 and SR10B(N2) were recorded during mid-ebb tide, while 12 AL exceedances of DO at stations IS5, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR4(N), SR6, SR10(A) and SR10B(N2) were recorded during mid-flood tide. Moreover, one LL exceedance of DO at station SR10B(N2) was recorded during mid-ebb tide and three LL exceedances of DO at stations SR6, SR10A(N) and SR10B(N2) 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 3 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 3 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

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. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, no organic matter discharge or accumulation at active works areas on 3 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 3 September 2018.

During weekly site audit on 23, 30 August 2018 and 6 September 2018, ET confirmed the Contractor had provided workable and effective water quality mitigation measures.

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 3 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 3 September 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspections on 29 August 2018 (between 14:45 and 14:55) and 6 September 2018 (between 10:20 and 10:25). There were no observations referring to water quality mitigation measures associated with that shoreline.

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. in situ measurement was repeated to confirm findings;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen exceedance was attributed to active construction activities of this Contract;
3. EPD, 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 dissolved oxygen exceedances are 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 23, 30 August 2018 and 6 September 2018, ET (Contract No. HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures.

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>4 October 2018</u>
Copied to	: EPD, Contractor, Engineer Representative and IEC/ENPO		

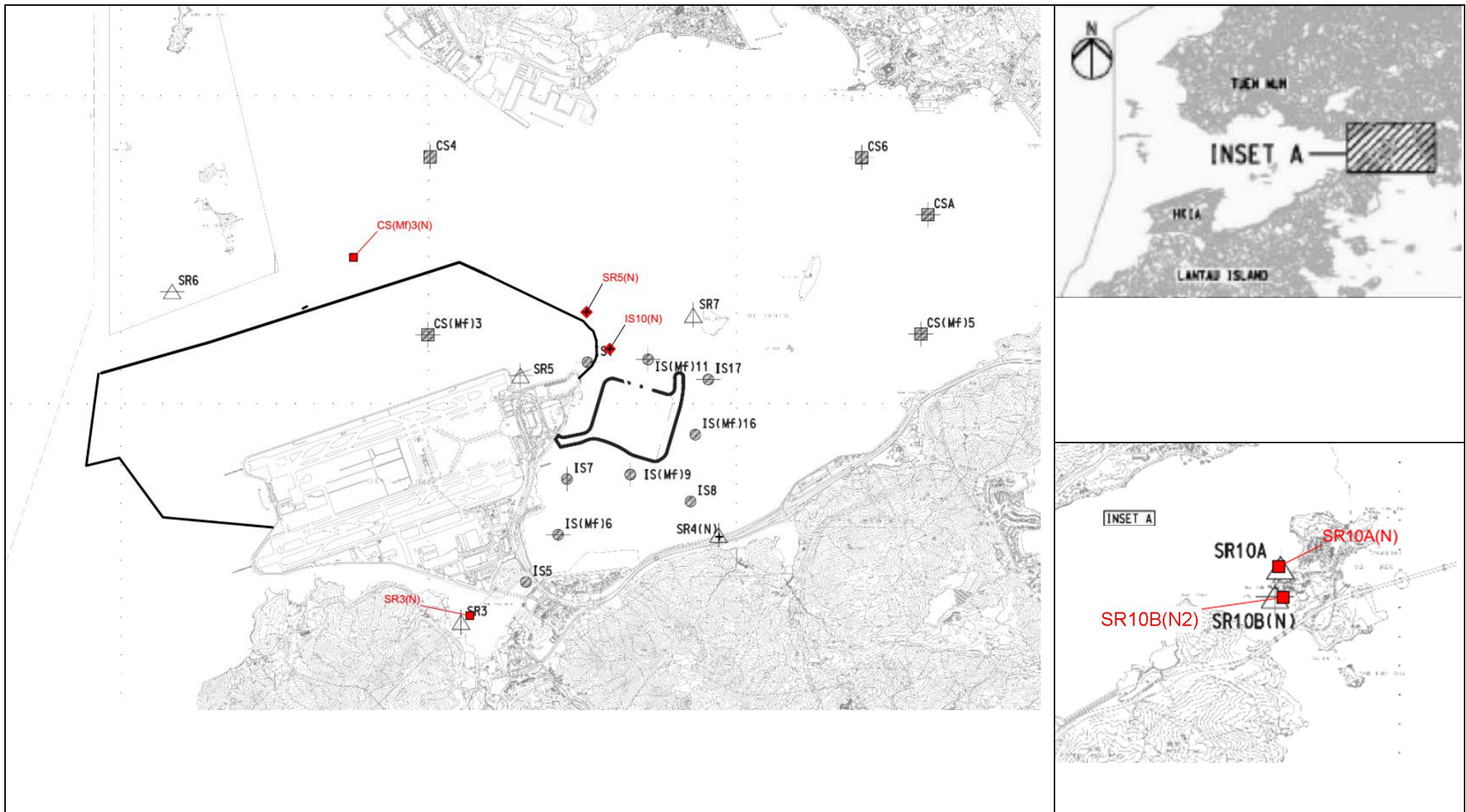


Figure 1: Location Plan

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b>						
					Notification No.: 20180905DO_v1	
<b>Date of Notification:</b> 11 September 2018			<b>Date of Investigation Report:</b> 5 October 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 5 September 2018 and the results were issued on 10 September 2018						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ <del>Suspended Solid (SS)</del> / <del>Turbidity (TURB)</del>						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0 mg/L  Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ)  Bottom 3.6 mg/L	<b>4.6</b>	6.4
DO	IS5	Bottom			<b><u>3.0</u></b>	<b>4.0</b>
DO	IS(Mf)9	Bottom			<b>4.6</b>	--(*)
DO	IS10(N)	Surface and Middle			<b>4.4</b>	<b>4.8</b>
DO	IS10(N)	Bottom			<b>3.9</b>	<b>3.7</b>
DO	IS(Mf)11	Surface and Middle			<b>4.5</b>	5.7
DO	IS(Mf)11	Bottom			<b>4.0</b>	<b>3.6</b>
DO	IS(Mf)16	Bottom			<b>3.8</b>	5.5
DO	IS17	Surface and Middle			<b>4.7</b>	6.5
DO	IS17	Bottom			<b><u>3.1</u></b>	4.7
DO	SR4(N)	Surface and Middle			<b>4.9</b>	7.0

DO	SR4(N)	Bottom			<b><u>3.0</u></b>	6.3
DO	SR5(N)	Surface and Middle			<b>4.6</b>	5.4
DO	SR5(N)	Bottom			<b>3.7</b>	<b>4.0</b>
DO	SR6	Surface and Middle			5.7	<b>4.5</b>
DO	SR10A(N)	Surface and Middle			5.4	<b><u>4.3</u></b>
DO	SR10A(N)	Bottom			<b>3.9</b>	<b>3.6</b>
DO	SR10B(N2)	Surface and Middle			5.2	<b><u>4.6</u></b>
DO	SR10B(N2)	Bottom			<b>4.6</b>	<b>4.4</b>

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

Remark (\*): The water depth at station IS(Mf)9 during the sampling time is less than 3 meters. Therefore, only the mid-depth station was monitored.

**Possible reason for Action / Limit Level Non-compliance:**

On 5 September 2018, 13 AL exceedances of DO at stations IS5, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR4(N), SR5(N), SR10A(N) and SR10B(N2) were recorded during mid-ebb tide, while 8 AL exceedances of DO at stations IS5, IS10(N), IS(Mf)11, SR5(N), SR6, SR10A(N) and SR10B(N2) were recorded during mid-flood tide. Moreover, three LL exceedance of DO at stations IS5, IS17 and SR4(N) were recorded during mid-ebb tide and two LL exceedances of DO at stations SR10A(N) and SR10B(N2) 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 5 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 5 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 23, 30 August 2018 and 6 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. Regarding the exceedance on 5 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, no organic matter discharge or accumulation at active works areas on 5 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 5 September 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 5 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 5 September 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspections on 29 August 2018 (between 14:45 and 14:55) and 6 September 2018 (between 10:20 and 10:25). There were no observations referring to water quality mitigation measures associated with that shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
  2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen exceedance was attributed to active construction activities of this Contract;
  3. EPD, 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 dissolved oxygen exceedances are 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 23, 30 August 2018 and 6 September 2018, ET (Contract No. HY/2013/03) confirmed the Contractor had provided workable and effective water quality mitigation measures.

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>5 October 2018</u>
Copied to	: EPD, Contractor, Engineer Representative and IEC/ENPO		

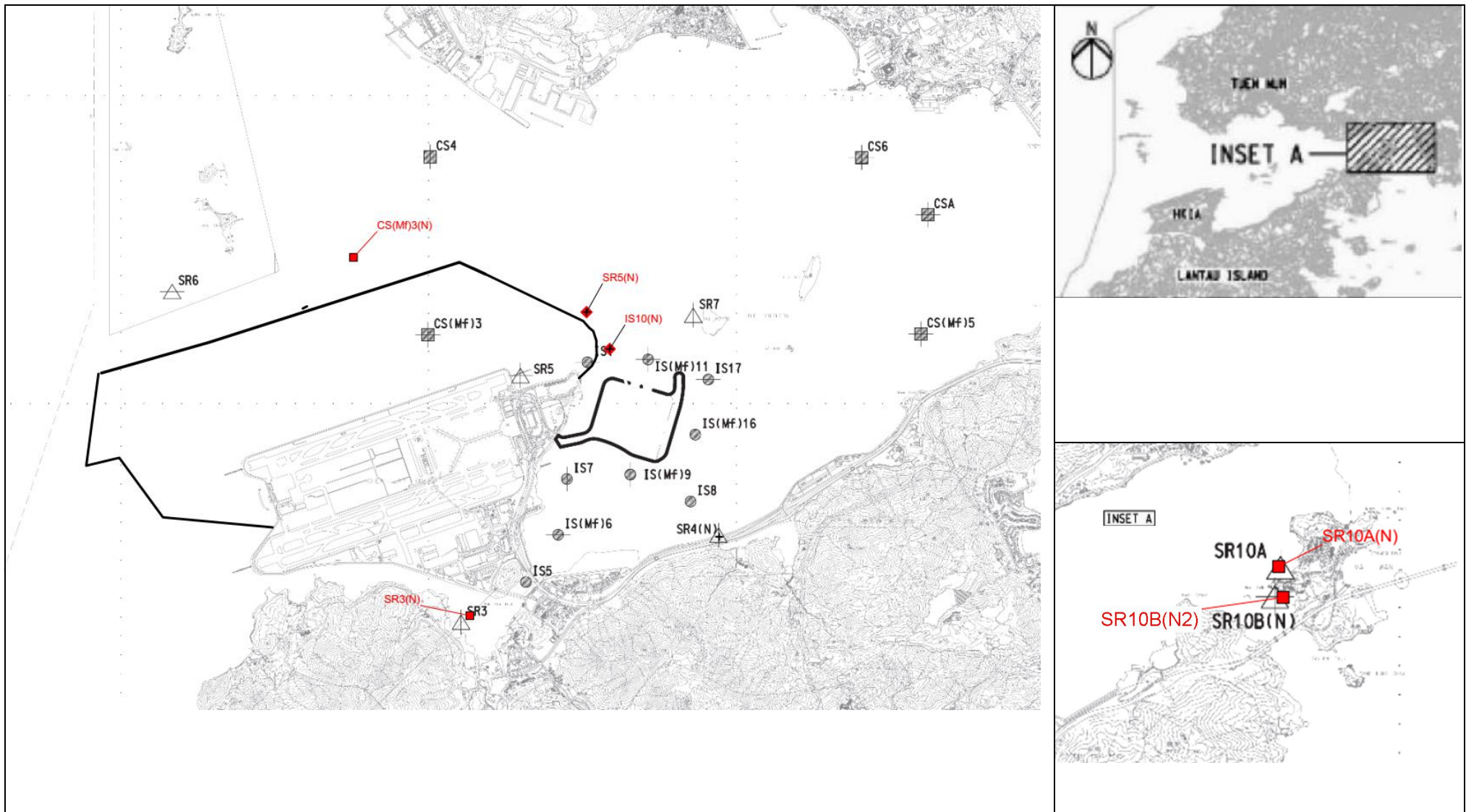


Figure 1: Location Plan

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b>						
					Notification No.: 20180907DO_v1	
<b>Date of Notification:</b> 11 September 2018			<b>Date of Investigation Report:</b> 5 October 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 7 September 2018 and the results were issued on 11 September 2018						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ <del>Suspended Solid (SS)</del> / <del>Turbidity (TURB)</del>						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0 mg/L  Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ)  Bottom 3.6 mg/L	<b>4.5</b>	7.9
DO	IS5	Bottom			<b>3.6</b>	5.6
DO	IS8	Bottom			<b>4.0</b>	--(*)
DO	IS10(N)	Surface and Middle			<b>4.9</b>	5.9
DO	IS10(N)	Bottom			<b>4.0</b>	<b>4.6</b>
DO	IS(Mf)11	Surface and Middle			<b>4.8</b>	5.6
DO	IS(Mf)11	Bottom			<b>4.5</b>	<b>4.4</b>
DO	IS(Mf)16	Bottom			<b>4.1</b>	5.0
DO	IS17	Bottom			4.8	<b>4.2</b>
DO	SR3(N)	Bottom			<b>4.0</b>	6.7
DO	SR4(N)	Surface and Middle			<b>4.4</b>	7.1

DO	SR4(N)	Bottom			<b>4.0</b>	7.2
DO	SR5(N)	Surface and Middle			<b>4.6</b>	6.5
DO	SR5(N)	Bottom			<b>4.2</b>	5.3
DO	SR6	Surface and Middle			<b>4.5</b>	<b>4.6</b>
DO	SR6	Bottom			<b>4.2</b>	<b>4.2</b>
DO	SR10A(N)	Surface and Middle			5.7	<b><u>4.6</u></b>
DO	SR10A(N)	Bottom			5.5	<b>4.4</b>

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

Remark (\*): The water depth at station IS8 during the sampling time is less than 3 meters. Therefore, only the mid-depth station was monitored.

**Possible reason for Action / Limit Level Non-compliance:**

On 7 September 2018, 15 AL exceedances of DO at stations IS5, IS8, IS10(N), IS(Mf)11, IS(Mf)16, SR3(N), SR4(N), SR5(N) and SR6 were recorded during mid-ebb tide, while 6 AL exceedances of DO at stations IS10(N), IS(Mf)11, IS17, SR6 and SR10A(N) were recorded during mid-flood tide. Moreover, one LL exceedance of DO at station SR10A(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 7 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 7 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 6 and 14 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. The ET of Contract No. HY/2013/03 concluded that the captioned exceedance was not related to the construction site activities of the contract. Regarding the exceedance on 7 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, no organic matter discharge or accumulation at active works areas on 7 September under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 7 September 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 7 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 7 September 2018.

It is noted that, on the same day, 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.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 6 September 2018 (between 10:20 and 10:25). There were no observations referring to water quality mitigation measures associated with that shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
  2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen exceedance was attributed to active construction activities of this Contract;
  3. EPD, 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 dissolved oxygen exceedances are 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 and 14 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures.

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: Keith Chau Title: Environmental Team Leader  
(Contract No. HY/2013/01)

Signature:  Date: 5 October 2018

Copied to : EPD, Contractor, Engineer Representative and IEC/ENPO



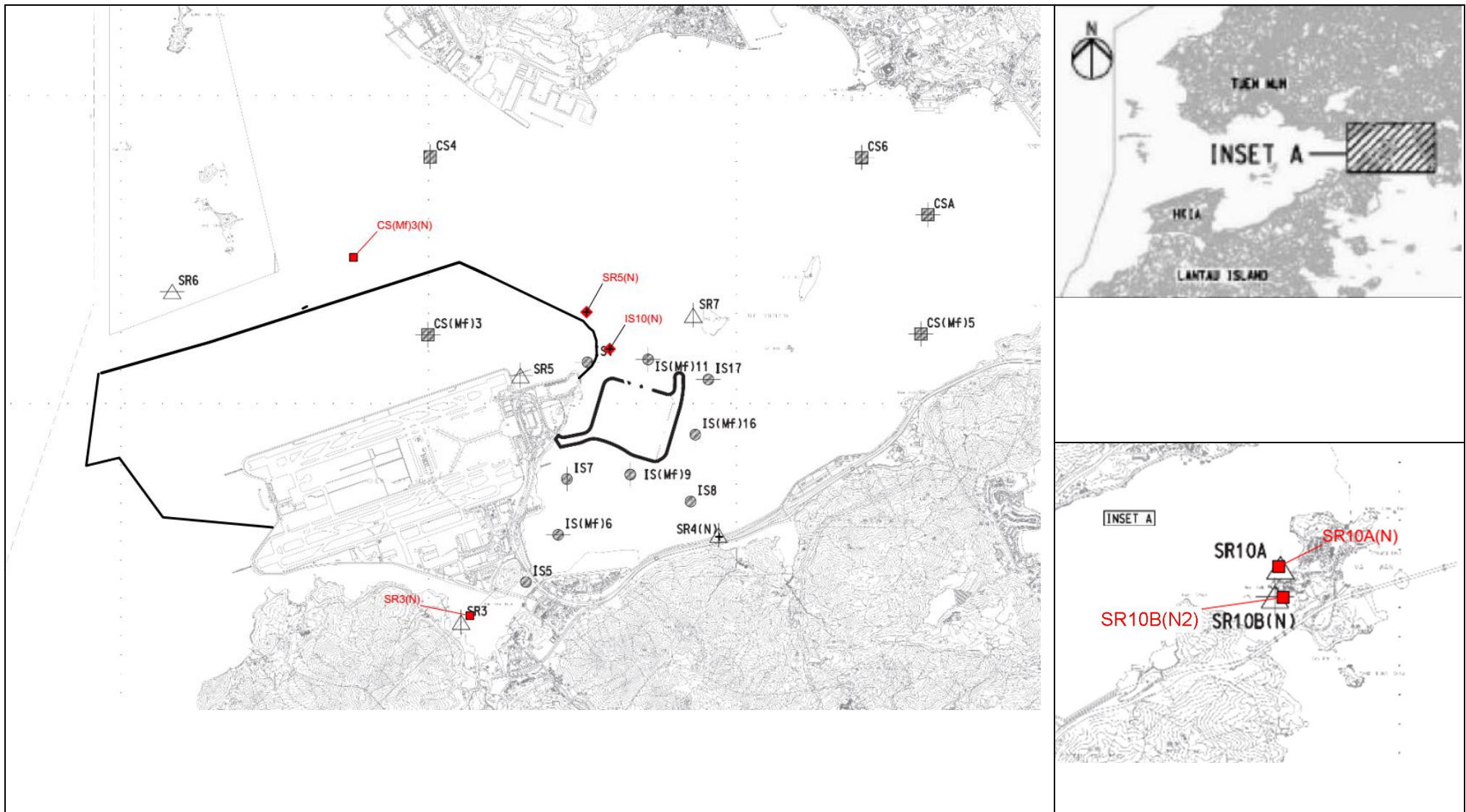


Figure 1: Location Plan

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b>						
					Notification No.: 20180910DO_v1	
<b>Date of Notification:</b> 20 September 2018			<b>Date of Investigation Report:</b> 8 October 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 10 September 2018. Results for in-situ data were issued on 12 September 2018 and the results for SS data were issued on 19 September 2018.						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ Suspended Solid (SS) / Turbidity (TURB)						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0 mg/L Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ) Bottom 3.6 mg/L	<b><u>4.0</u></b>	<b>4.4</b>
DO	IS5	Bottom			<b>3.8</b>	<b>3.9</b>
DO	IS(Mf)6	Surface and Middle			<b>4.4</b>	<b>4.3</b>
DO	IS7	Surface and Middle			<b>4.6</b>	<b>4.3</b>
DO	IS8	Surface and Middle			<b>4.6</b>	<b>4.2</b>
DO	IS8	Bottom			<b>4.5</b>	<b>4.1</b>
DO	IS(Mf)9	Surface and Middle			<b>4.7</b>	<b><u>4.1</u></b>
DO	IS(Mf)9	Bottom			<b>4.6</b>	<b>4.1</b>
DO	IS10(N)	Surface and Middle			<b>4.2</b>	<b>4.3</b>
DO	IS10(N)	Bottom			<b>4.0</b>	<b>4.0</b>
DO	IS(Mf)11	Surface and Middle			<b>4.2</b>	<b>4.2</b>

DO	IS(Mf)11	Bottom			<b>4.0</b>	<b>3.9</b>
DO	IS(Mf)16	Surface and Middle			<b><u>4.1</u></b>	<b>4.2</b>
DO	IS(Mf)16	Bottom			<b>4.1</b>	<b>4.1</b>
DO	IS17	Surface and Middle			<b><u>4.0</u></b>	<b><u>4.1</u></b>
DO	IS17	Bottom			<b>4.0</b>	<b>3.9</b>
DO	SR3(N)	Surface and Middle			<b>4.3</b>	<b>4.3</b>
DO	SR3(N)	Bottom			<b>4.3</b>	<b>4.3</b>
DO	SR4(N)	Surface and Middle			<b>4.3</b>	<b>4.2</b>
DO	SR4(N)	Bottom			<b>4.4</b>	<b>4.1</b>
DO	SR5(N)	Surface and Middle			<b>4.2</b>	<b>4.2</b>
DO	SR5(N)	Bottom			<b>4.1</b>	<b>4.0</b>
DO	SR6	Surface and Middle			<b><u>3.7</u></b>	<b><u>3.9</u></b>
DO	SR6	Bottom			<b>3.6</b>	<b>4.0</b>
DO	SR7	Surface and Middle			<b>4.4</b>	<b>4.2</b>
DO	SR7	Bottom			<b>4.0</b>	<b>4.2</b>

DO	SR10A(N)	Surface and Middle			<b><u>4.2</u></b>	<b><u>4.0</u></b>
DO	SR10A(N)	Bottom			<b>4.2</b>	<b>3.7</b>
DO	SR10B(N2)	Surface and Middle			<b><u>4.0</u></b>	<b><u>3.5</u></b>
DO	SR10B(N2)	Bottom			<b>4.1</b>	<b><u>3.5</u></b>
SS	SR6	Depth Average	23.5 and 120% (i.e. 11.2 for mid-ebb/10.5 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 12.1 for mid-ebb/11.4 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	11.3	<b>28.6</b>
<p>Notes:  AL means Action Level.  LL means Limit Level.  <b>Bold</b> means AL exceedances.  <b>Bold with underline</b> 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</p>						

**Possible reason for Action / Limit Level Non-compliance:**

On 10 September 2018, 24 AL exceedances of DO at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR3(N), SR4(N), SR5(N), SR6, SR7, SR10A(N) and SR10B(N2) were recorded during mid-ebb tide, while 24 AL exceedances of DO at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR3(N), SR4(N), SR5(N), SR6, SR7 and SR10A(N) were recorded during mid-flood tide. Moreover, six LL exceedances of DO at stations IS5, IS(Mf)16, IS17, SR6, SR10A(N) and SR10B(N2) were recorded during mid-ebb tide and six LL exceedance of DO at stations IS(Mf)9, IS17, SR6, SR10A(N) and SR10B(N2) were recorded during mid-flood tide. And one AL exceedance of SS at station SR6 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 10 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 10 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 6, 14 and 20 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. The ET of Contract No. HY/2013/03 concluded that the captioned exceedance was not related to the construction site activities of the contract. Regarding the exceedance on 10 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, all surplus filling materials transported from Contract No. HY/2013/03 to other projects by marine vessels have been completed with the last batch delivered on 24 March 2018, no organic matter discharge or accumulation at active works areas on 10 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 10 September 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 10 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 10 September 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 6 September 2018 (between 10:20 and 10:25). There were no observations referring to water quality mitigation measures associated with that shoreline.

Subsequent to the subject exceedances, HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 12 September 2018 (between 14:30 and 14:45). There were no observations referring to water quality mitigation measures associated with that shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
  2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen and suspended solid exceedances were attributed to active construction activities of this Contract;
  3. EPD, 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 dissolved oxygen and suspended solid exceedances are 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, 14 and 20 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implemental 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: Keith Chau Title: Environmental Team Leader  
(Contract No. HY/2013/01)

Signature:  Date: 8 October 2018

Copied to : EPD, Contractor, Engineer Representative and IEC/ENPO



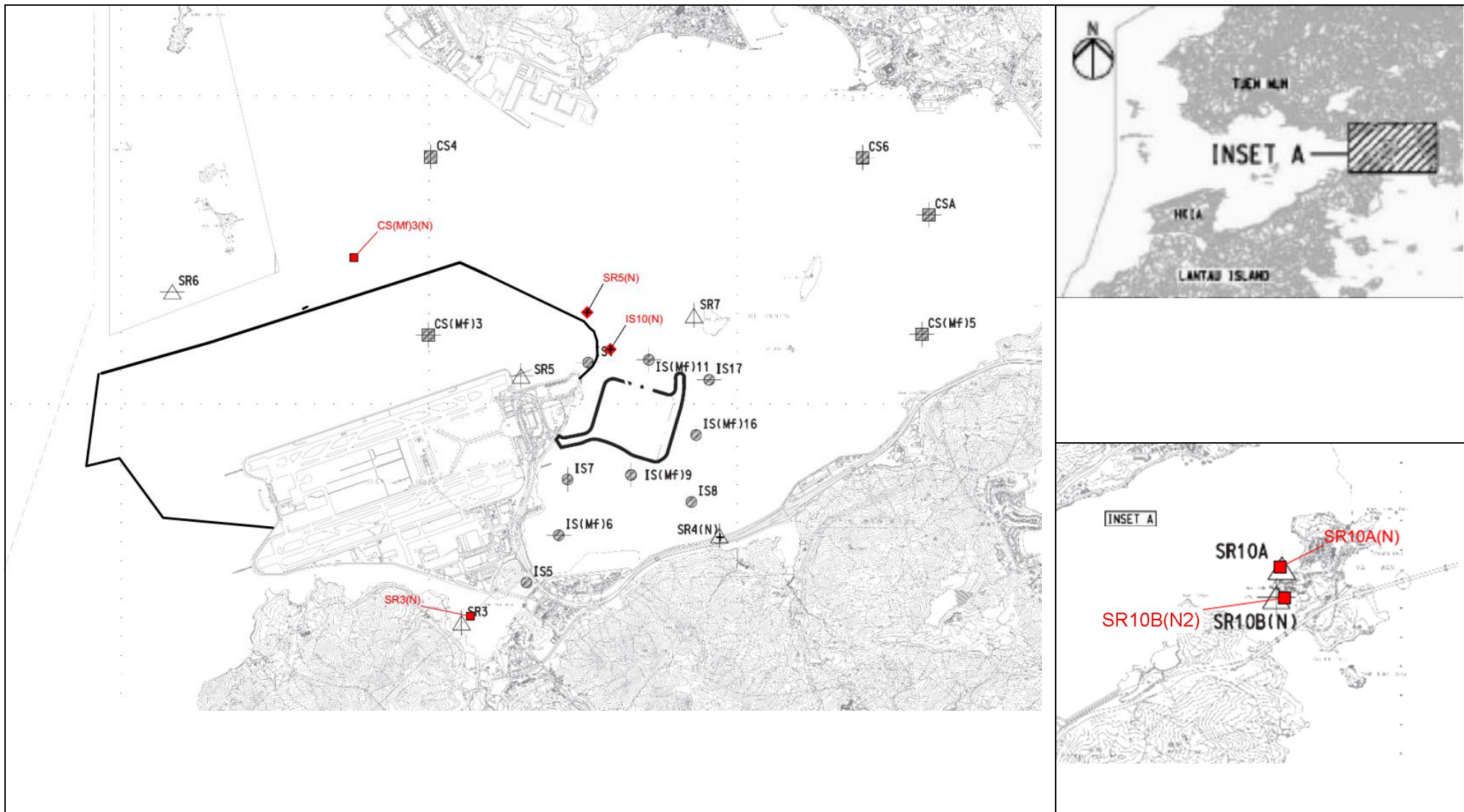


Figure 1: Location Plan

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b>						
				Notification No.: 20180912DO_SS		
<b>Date of Notification:</b> 21 September 2018			<b>Date of Investigation Report:</b> 28 September 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 12 September 2018. Results for in-situ data were issued on 14 September 2018 and the results for SS data were issued on 21 September 2018.						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ Suspended Solid (SS) / Turbidity (TURB)						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0 mg/L Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ) Bottom 3.6 mg/L	--(*)	<b>4.5</b>
DO	IS(Mf)6	Surface and Middle			--(*)	<b>4.7</b>
DO	IS7	Surface and Middle			--(*)	<b>4.7</b>
DO	IS8	Surface and Middle			--(*)	<b>4.3</b>
DO	IS8	Bottom			--(*)	<b>4.5</b>
DO	IS(Mf)9	Surface and Middle			--(*)	<b>4.4</b>
DO	IS(Mf)9	Bottom			--(*)	<b>4.5</b>
DO	IS10(N)	Surface and Middle			--(*)	<b>4.4</b>
DO	IS10(N)	Bottom			--(*)	<b>4.3</b>
DO	IS(Mf)11	Surface and Middle			--(*)	<b>4.5</b>
DO	IS(Mf)11	Bottom			--(*)	<b>4.5</b>

DO	IS(Mf)16	Surface and Middle			--(*)	<b>4.3</b>
DO	IS(Mf)16	Bottom			--(*)	<b>4.4</b>
DO	IS17	Surface and Middle			--(*)	<b>4.2</b>
DO	IS17	Bottom			--(*)	<b>4.2</b>
DO	SR3(N)	Surface and Middle			--(*)	<b>4.4</b>
DO	SR3(N)	Bottom			--(*)	<b>4.5</b>
DO	SR4(N)	Surface and Middle			--(*)	<b>4.4</b>
DO	SR4(N)	Bottom			--(*)	<b>4.6</b>
DO	SR5(N)	Surface and Middle			--(*)	<b>4.4</b>
DO	SR5(N)	Bottom			--(*)	<b>4.5</b>
DO	SR6	Surface and Middle			--(*)	<b>4.5</b>
DO	SR6	Bottom			--(*)	<b>4.6</b>
DO	SR7	Surface and Middle			--(*)	<b>4.4</b>
DO	SR7	Bottom			--(*)	<b>4.4</b>
DO	SR10A(N)	Surface and Middle			--(*)	<b><u>4.2</u></b>

DO	SR10A(N)	Bottom			--(*)	<b>4.3</b>
DO	SR10B(N2)	Surface and Middle			--(*)	<b><u>3.9</u></b>
DO	SR10B(N2)	Bottom			--(*)	<b>3.9</b>
SS	SR6	Depth Average	23.5 and 120% (i.e. 12.7 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 13.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	--(*)	<b>24.8</b>

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

Remark (\*): Water sampling had been cancelled (mid-ebb tide) due to the Strong Wind Signal No.3.

**Possible reason for Action / Limit Level Non-compliance:**

On 12 September 2018, 27 AL exceedances of DO at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR3(N), SR4(N), SR5(N), SR6, SR7, SR10A(N) and SR10B(N2) were recorded during mid-flood tide. Moreover, two LL exceedances of DO at stations SR10A(N) and SR10B(N2) were recorded during mid-flood tide. And one AL exceedance of SS at station SR6 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 12 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 12 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 6 and 14 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. The ET of Contract No. HY/2013/03 concluded that the captioned exceedance was not related to the construction site activities of the contract. Regarding the exceedance on 12 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, all surplus filling materials transported from Contract No. HY/2013/03 to other projects by marine vessels have been completed with the last batch delivered on 24 March 2018, no organic matter discharge or accumulation at active works areas on 12 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 12 September 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 12 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 12 September 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 12 September 2018 (between 14:30 and 14:45). There were no observations referring to water quality mitigation measures associated with that shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
  2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen and suspended solid exceedances were attributed to active construction activities of this Contract;
  3. EPD, 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 dissolved oxygen and suspended solid exceedances are 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 and 14 September 2018, ET confirmed the Contractor had provided workable and effective water quality mitigation measures.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implemental 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: Keith Chau Title: Environmental Team Leader  
(Contract No. HY/2013/01)

Signature:  Date: 28 September 2018

Copied to : EPD, Contractor, Engineer Representative and IEC/ENPO



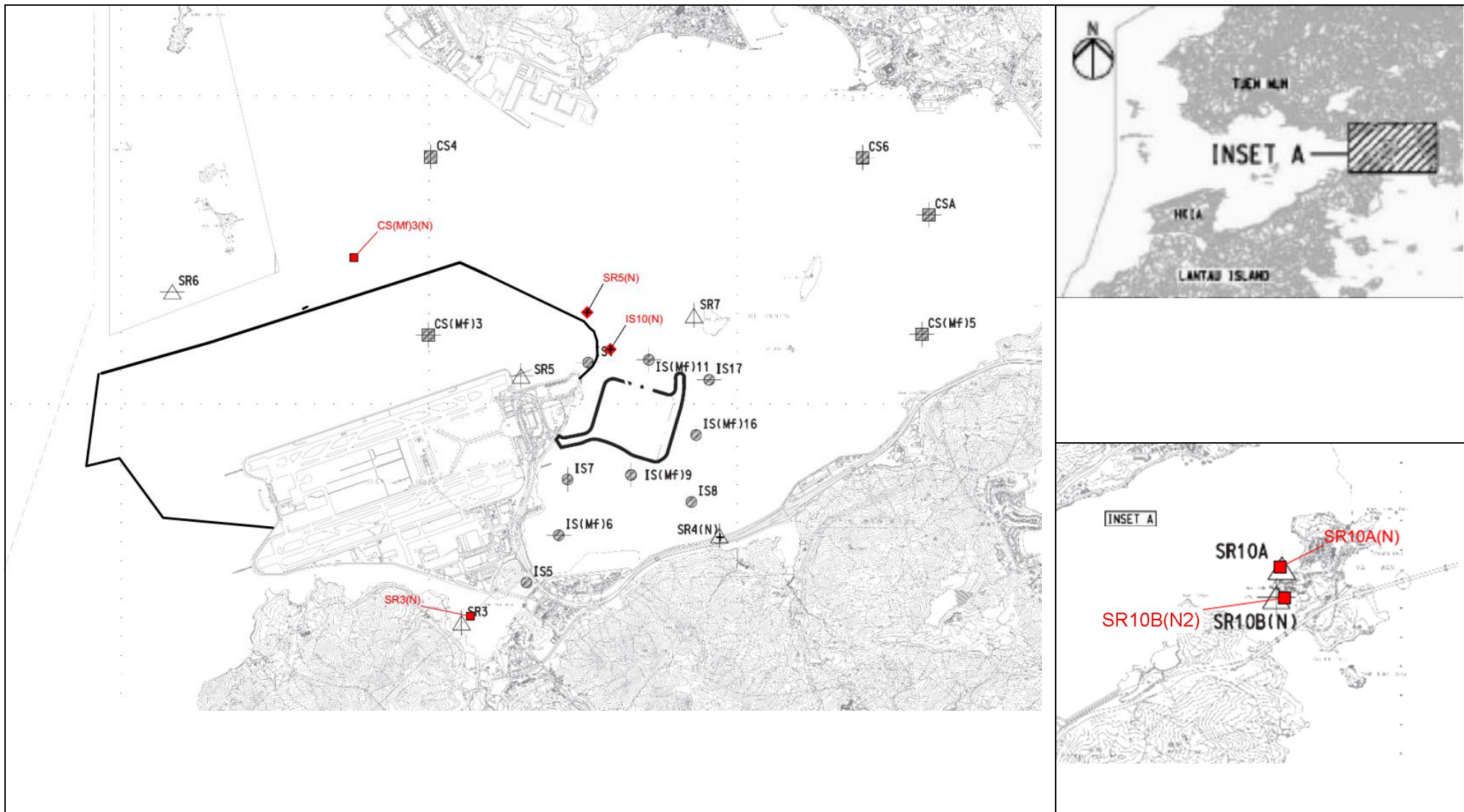


Figure 1: Location Plan

**Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20180914DO\_v1

**Date of Notification:** 18 September 2018 **Date of Investigation Report:** 8 October 2018

**Works Inspected:** Data collected from water sampling works on 14 September 2018 and the results were issued on 18 September 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)
DO	IS(Mf)16	Surface and Middle	Surface and Middle 5.0 mg/L Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ) Bottom 3.6 mg/L	<b>4.9</b>	5.0
DO	IS17	Surface and Middle			<b>4.8</b>	<b>4.8</b>
DO	IS17	Bottom			<b>4.6</b>	4.7
DO	SR4(N)	Surface and Middle			5.3	<b>4.9</b>
DO	SR10A(N)	Surface and Middle			<u>4.9</u>	<u>4.7</u>
DO	SR10B(N2)	Surface and Middle			<u>4.9</u>	<u>4.4</u>
DO	SR10B(N2)	Bottom			4.9	<b>4.5</b>

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 14 September 2018, 3 AL exceedances of DO at stations IS(Mf)16 and IS17 were recorded during mid-ebb tide while 3 AL exceedances of DO at stations IS17, SR4(N) and SR10B(N2) were recorded during mid-flood tide. Moreover, two LL exceedances of DO at stations SR10A(N) and SR10B(N2) were recorded during mid-ebb tide and two LL exceedances of DO at stations SR10A(N) and SR10B(N2) 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 14 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 14 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 6, 14 and 20 September 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. The ET of Contract No. HY/2013/03 concluded that the captioned exceedance was not related to the construction site activities of the contract. Regarding the exceedance on 14 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, no organic matter discharge or accumulation at active works areas on 14 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 14 September 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 14 September 2018. Also, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 14 September 2018. Furthermore, the Contractor has confirmed that the silt curtains were properly installed around Box Culverts C and D on the day of monitoring, i.e. 14 September 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 12 September 2018 (between 14:30 and 14:45). There were no observations referring to water quality mitigation measures associated with that shoreline.

Subsequent to the subject exceedances, HY/2013/04 site shoreline interfacing with open waters was inspected by ET as part of checking of water quality mitigation measures during the regular weekly site inspection on 17 September 2018 (between 14:40 and 14:50). It was observed that the silt curtains at Box Culverts C and D were disconnected from the coastal shoreline. The Contractor was reminded to reinstate the silt curtains. There were no other observations in relation to the same shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
  2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen exceedances were attributed to active construction activities of this Contract;
  3. EPD, 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 dissolved oxygen exceedances are 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, 14 and 20 September 2018, ET confirmed the Contractor had provided workable and effective water quality mitigation measures.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implemental 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: Keith Chau Title: Environmental Team Leader  
(Contract No. HY/2013/01)

Signature:  Date: 8 October 2018

Copied to : EPD, Contractor, Engineer Representative and IEC/ENPO

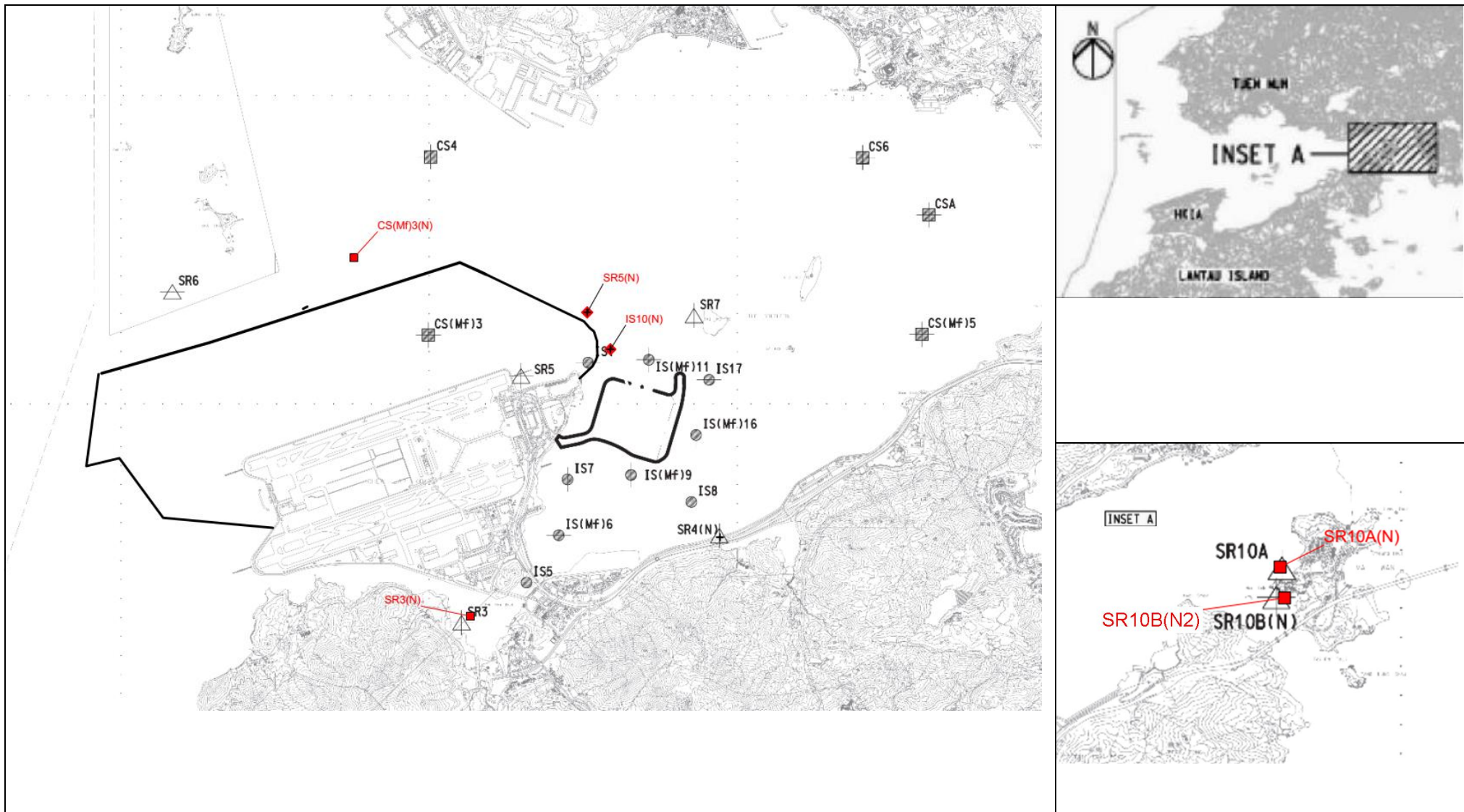


Figure 1: Location Plan

<b>Hong Kong- Zhuhai- Macao Bridge</b> <b>Hong Kong Boundary Crossing Facilities (Superstructure and Infrastructure Contracts)</b> <b>Notifications of Environmental Quality Limits Exceedances</b> <span style="float: right;">Notification No.: 20180928DO_v1</span>						
<b>Date of Notification:</b> 3 October 2018			<b>Date of Investigation Report:</b> 12 October 2018			
<b>Works Inspected:</b> Data collected from water sampling works on 28 September 2018 and the results were issued on 02 October 2018						
<b>Monitoring Location:</b> Water Quality Monitoring Station						
<b>Parameter:</b> Dissolved Oxygen (DO)/ <del>Suspended Solid (SS)</del> / <del>Turbidity (TURB)</del>						
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>						
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	SR10B(N2)	Surface and Middle	Surface and Middle 5.0 mg/L  Bottom 4.7 mg/L	Surface and Middle 4.2 mg/L (except 5 mg/L for FCZ)  Bottom 3.6 mg/L	5.3	<b><u>4.6</u></b>
Notes: AL means Action Level. LL means Limit Level. <b>Bold</b> means AL exceedances. <b>Bold with underline</b> 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 28 September 2018, 1 LL exceedance of DO at station SR10B(N2) 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 28 September 2018. No site runoff within the Contract site has been observed. All wastewater generated from construction site which potentially contain organic matter was collected by registered collector. No organic matter discharge/ accumulation at active works areas on 28 September 2018. 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. ET (Contract No. HY/2013/02) confirmed that no any organic matter discharge/accumulation at active works areas under Contract HY/2013/02 was observed on the date of exceedance with respect to the exceedance in DO.

Contract No.: HY/2013/03

During weekly site audit on 14, 20, 27 September 2018 and 4 October 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures. The ET of Contract No. HY/2013/03 concluded that the captioned exceedance was not related to the construction site activities of the contract. Regarding the exceedance on 28 September 2018, there was no marine transportation on the date of exceedance. As confirmed with Mr. Marko Chan, Environmental Officer, and operation team of Contract No. HY/2013/03, no organic matter discharge or accumulation at active works areas on 28 September 2018 under Contract No. HY/2013/03. The marine-based works in Box Culvert B had been completed. It was unlikely that the works undertaken by Contract No. HY/2013/03 caused exceedance recorded at the concerned WQM station on 28 September 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 28 September 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 28 September 2018. HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 12 September 2018 (between 14:30 and 14:45). There were no observations referring to water quality mitigation measures associated with that shoreline.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspection on 26 September 2018 (between 14:30 and 14:55). There were no observations referring to water quality mitigation measures associated with that shoreline. The large distance between HY/2013/04 site and SR10B(N2) is also noted.

Subsequent to the subject exceedance, HY/2013/04 site shoreline interfacing with open waters was inspected by ET as part of checking of water quality mitigation measures during the regular weekly site inspection on 3 October 2018 (between 15:10 and 16:20). It was observed that the silt curtains at Box Culverts C and D were disconnected from the coastal shoreline. The Contractor was reminded to reinstate the silt curtains. There were no other observations in relation to the same shoreline.

It was concluded that the exceedances were 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. in situ measurement was repeated to confirm findings;
2. After considering the above-mentioned investigation results, it appears that it was unlikely that the dissolved oxygen exceedances were attributed to active construction activities of this Contract;
3. EPD, 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 dissolved oxygen exceedances are 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 14, 20, 27 September 2018 and 4 October 2018, ET of Contract No. HY/2013/03 confirmed the Contractor had provided workable and effective water quality mitigation measures.

Contract No.: HY/2013/04

Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to implemental 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: Keith Chau Title: Environmental Team Leader  
(Contract No. HY/2013/01)

Signature:  Date: 12 October 2018

Copied to : EPD, Contractor, Engineer Representative and IEC/ENPO

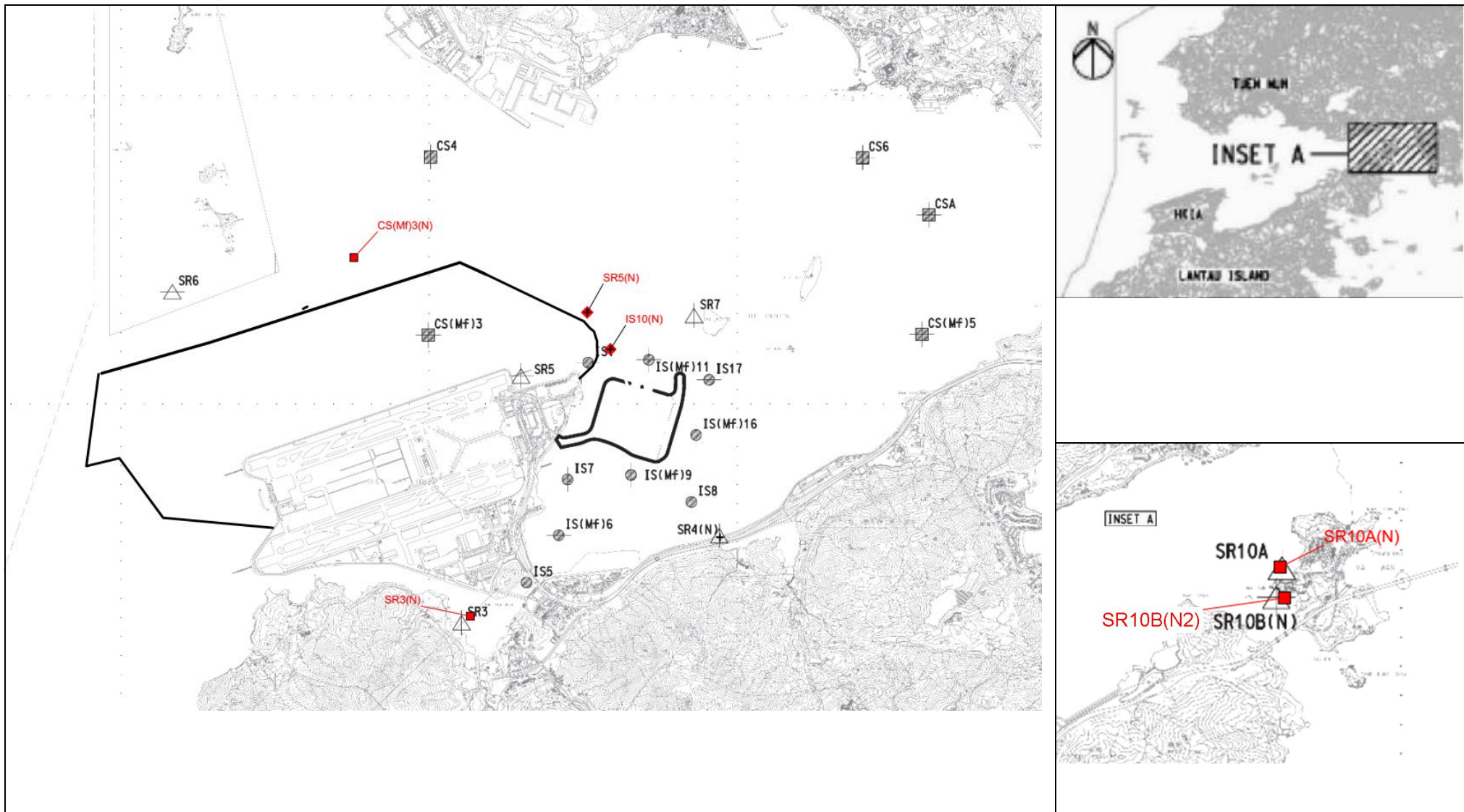


Figure 1: Location Plan