

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Monthly EM&A Report No.126 (Mar 2023)

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Main Contractor





Member of the SNC-Lavalin Group



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Executive Summary

The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department as the Contractor to undertake the construction works of Contract No. HY/2011/03. The main works of the Contract include land tunnel at Scenic Hill, tunnel underneath Airport Road and Airport Express Line, reclamation and tunnel to the east coast of the Airport Island, at-grade road connecting to the HKBCF and highway works of the HKBCF within the Airport Island and in the vicinity of the HKLR reclamation. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012.

BMT Hong Kong Limited was 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 HKLR (Version 1.0) and provided environmental team services to the Contract until 31 July 2020.

Meinhardt Infrastructure and Environment 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 HKLR (Version 1.0) and provide environmental team services to the Contract with effective from 1 August 2020.

Ramboll Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.

ANewR Consulting Limited has been employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Offer (ENPO) for the Project with effective from 1 October 2022.

This is the 126th Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 March 2023.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKLR (Version 1.0). A summary of the monitoring activities during this reporting month is listed below:

1-hr TSP Monitoring at AMS5 6, 10, 16, 22 and 28 March 2023

24-hr TSP Monitoring at AMS5 3, 9, 15, 21, 27 and 31 March 2023

Noise Monitoring 6, 16, 22 and 28 March 2023

Water Quality Monitoring 1, 3, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27, 29 and 31

March 2023

Chinese White Dolphin Monitoring 3, 7, 16 and 24 March

Site Inspection 7, 16, 22 and 31 March 2023

Mudflat Monitoring (Ecology) 23, 24, 25 and 26 March 2023



Mudflat Monitoring (Sedimentation Rate) 22 March 2023

The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1-hr and 24-hr TSP monitoring at AMS6 was temporarily suspended starting from 1 April 2021. A new alternative air quality monitoring location is still under processing.

Breaches of Action and Limit Levels

A summary of environmental exceedances for this reporting month is as follows:

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	0	0
Air Quality	24-hr TSP	0	0
Noise	Leq (30 min)	0	0
	Suspended solids level (SS)	0	0
Water Quality	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0

Complaint Log

There was no complaint received in relation to the environmental impacts during this reporting month.

Notifications of Summons and Prosecutions

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

Reporting Changes

This report has been developed in compliance with the reporting requirements for the subsequent EM&A reports as required by the Updated EM&A Manual for HKLR (Version 1.0).

The proposal for the change of Action Level and Limit Level for suspended solid and turbidity was approved by EPD on 25 March 2013.

The revised Event and Action Plan for dolphin monitoring was approved by EPD on 6 May 2013.

The original monitoring station at IS(Mf)9 (Coordinate: 813273E, 818850N) was observed inside the perimeter silt curtain of Contract HY/2010/02 on 1 July 2013, as such the original impact water quality monitoring location at IS(Mf)9 was temporarily shifted outside the silt curtain. As advised by the Contractor of HY/2010/02 in August 2013, the perimeter silt curtain was shifted to facilitate safe anchorage zone of construction barges/vessels until end of 2013 subject to construction progress. Therefore, water quality monitoring station IS(Mf)9 was shifted to 813226E and 818708N since 1 July 2013. According to the water quality monitoring team's observation on 24 March 2014, the original monitoring location of IS(Mf)9 was no longer enclosed by the perimeter silt curtain of Contract HY/2010/02. Thus, the impact water quality monitoring works at the original monitoring location of IS(Mf)9 has been resumed since 24 March 2014.

Transect lines 1, 2, 7, 8, 9 and 11 for dolphin monitoring have been revised due to the obstruction of the permanent structures associated with the construction works of HKLR and the southern viaduct of TM-CLKL, as well as provision of adequate buffer distance from the Airport Restricted Areas. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 19 August 2015.

The water quality monitoring stations at IS10 (Coordinate: 812577E, 820670N) and SR5 (811489E, 820455N) are located inside Hong Kong International Airport (HKIA) Approach Restricted Areas. The previously granted Vessel's Entry Permit for accessing stations IS10 and SR5 were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) and SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 January 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 and SR5 has been resumed since 9 January 2017.

Transect lines 2, 3, 4, 5, 6 and 7 for dolphin monitoring have been revised and transect line 24 has been added due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 28 July 2017. The alternative dolphin transect lines are adopted starting from August's dolphin monitoring.

A new water quality monitoring team has been employed for carrying out water quality monitoring work for the Contract starting from 23 August 2017. Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations CS2, SR5 and IS10 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as CS2(A), SR5(N) and IS10(N) was approved on 28 July 2017 and were adopted starting from 23 August 2017 to replace the original locations of water quality monitoring for the Contract.

The role and responsibilities as the ET Leader of the Contract was temporarily taken up by Mr Willie Wong instead of Ms Claudine Lee from 25 September 2017 to 31 December 2017.

Water quality monitoring station SR10A(N) (Coordinate: 823644E, 823484N) was unreachable on 4 October 2017 during flood tide as fishing activities were observed. As such, the water monitoring at station SR10A(N) was conducted at Coordinate: 823484E, 823593N during flood tide on 4 October 2017 temporarily.

The topographical condition of the water monitoring stations SR3 (Coordinate: 810525E, 816456N), SR4 (Coordinate: 814760E, 817867N), SR10A (Coordinate: 823741E, 823495N) and SR10B (Coordinate: 823686E, 823213N) cannot be accessed safely for undertaking water quality monitoring. The water quality monitoring has been temporarily conducted at alternative stations, namely SR3(N) (Coordinate 810689E, 816591N), SR4(N) (Coordinate: 814705E, 817859N) and SR10A(N) (Coordinate: 823644E, 823484N) since 1 September 2017. The water quality monitoring at station SR10B was temporarily conducted at Coordinate: 823683E, 823187N on 1, 4, 6, 8 September 2017 and has been temporarily fine-tuned to alternative station SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017. Proposal for permanently relocating the aforementioned stations was approved by EPD on 8 January 2018.

The works area WA5 was handed over to other party on 22 June 2013.

According to latest information received in July 2018, the works area WA7 was handed over to other party on 28 February 2018 instead of 31 January 2018.

Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) are proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) on 21 August 2019.

There were no marine works conducted by Contract No. HY/2011/03 since July 2019. A proposal for temporary suspension of marine related environmental monitoring (water quality monitoring and dolphin monitoring for the Contract No. HY/2011/03) was justified by the ET leader and verified by IEC in mid of September 2019 and it was approved by EPD on 24 September 2019. Water quality monitoring and dolphin monitoring for the Contract will not be conducted starting from 1 October 2019 until marine works (i.e. toe loading removal works) be resumed. As discussed with Contract No. HY/2012/08, they will take

up the responsibility from Contract No. HY/2011/03 for the dolphin monitoring works starting from 1 October 2019.

According to information received in January 2020, the works area WA3 and WA4 were handed over to Highways Department on 23 December 2019 and 14 March 2019 respectively.

The role and responsibilities as the IEC of the Contract has been taken up by Mr Manson Yeung instead of Mr Ray Yan since 18 May 2020.

Mr. Leslie Leung was Environmental Team Leader of the Contract for July 2020. The role and responsibilities as the Environmental Team Leader of the Contract has been taken up by Ms. Claudine Lee with effective from 1 August 2020.

The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1-hr and 24-hr TSP monitoring at AMS6 was temporarily suspended starting from 1 April 2021. A new alternative air quality monitoring location is still under processing.

The role and responsibilities as the IEC of the Contract has been taken up by Mr Brian Tam instead of Mr Manson Yeung since 12 April 2021.

The role and responsibilities as the IEC of the Contract has been taken up by Mr Adi Lee instead of Mr Brian Tam since 3 May 2022.

The role and responsibilities as the IEC of the Contract has been taken up by Mr Brian Tam instead of Mr Adi Lee since 25 July 2022.

The role and responsibilities as the ENPO Leader of the Contract has been taken up by Mr Louis Kwan from ANewR Consulting Limited instead of Mr H.Y. Hui from Ramboll Hong Kong Limited since 1 October 2022.

The role and responsibilities as the IEC of the Contract has been taken up by Mr James Choi from ANewR Consulting Limited instead of Mr Brian Tam from Ramboll Hong Kong Limited since 1 October 2022.

The access to the WQM station SR4(N2) (Coordinate: E814688, N817996) is blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Water quality monitoring was temporarily conducted at alternative stations, namely SR4(N3) (Coordinate: E814779, N818032) on 1 March 2023. Proposal for permanently relocating the SR4(N2) was approved by EPD on 3 March 2023. The water quality monitoring has been conducted at stations SR4(N3) since 3 March 2023.

Future Key Issues

The future key issues include potential noise, air quality, water quality and ecological impacts and waste management arising from the following construction activities to be undertaken in the upcoming month:

- Landscape maintenance works at SHT East Portal.
- Removal of Temporary Toe Loading Platform at Portion X.

1 Introduction

1.1 Basic Project Information

- 1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).
- 1.1.2 The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.
- 1.1.3 China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department (Heed) as the Contractor to undertake the construction works of Contract No. HY/2011/03. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012. The works area WA5 and WA7 were handed over to other party on 22 June 2013 and 28 February 2018 respectively. The works area WA3 and WA4 were handed over to Highways Department on 23 December 2019 and 14 March 2019 respectively. Figure 1.1 shows the project site boundary. The works areas are shown in Appendix O.
- 1.1.4 The Contract includes the following key aspects:
 - New reclamation along the east coast of the approximately 23 hectares.
 - Tunnel of Scenic Hill (Tunnel SHT) from Scenic Hill to the new reclamation, of approximately 1km in length with three (3) lanes for the east bound carriageway heading to the HKBCF and four (4) lanes for the westbound carriageway heading to the HZMB Main Bridge.
 - An abutment of the viaduct portion of the HKLR at the west portal of Tunnel SHT and associated road works at the west portal of Tunnel SHT.
 - An at grade road on the new reclamation along the east coast of the HKIA to connect with the HKBCF, of approximately 1.6 km along dual 3-lane carriageway with hard shoulder for each bound.
 - Road links between the HKBCF and the HKIA including new roads and the modification of existing roads at the HKIA, involving viaducts, at grade roads and a Tunnel HAT.
 - A highway operation and maintenance area (HMA) located on the new reclamation, south of the Dragonair Headquarters Building, including the construction of buildings, connection roads and other associated facilities.
 - Associated civil, structural, building, geotechnical, marine, environmental protection, landscaping, drainage and sewerage, tunnel and highway electrical and mechanical works, together with the installation of street lightings, traffic aids and sign gantries, water mains and fire hydrants, provision of facilities for installation of traffic control and surveillance system (TCSS), reprovisioning works of affected existing facilities, implementation of transplanting, compensatory planting and protection of existing trees, and implementation of an environmental monitoring and audit (EM&A) program.
- 1.1.5 This is the 126th Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 March 2023.

- 1.1.6 BMT Hong Kong Limited was appointed by the Contractor to implement the EM&A programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) and provided environmental team services to the Contract until 31 July 2020.
- 1.1.7 Meinhardt Infrastructure and Environment 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 HKLR (Version 1.0) and provide environmental team services to the Contract with effective from 1 August 2020. Ramboll Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project until 30 September 2022. ANewR Consulting Limited has been appointed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project since 1 October 2022. The project organization with regard to the environmental works is as follows.

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 A**. 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
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Senior Resident Engineer, SRE)	Eddie Tsang	3968 4802	2109 1882
Environmental Project Office / Independent	Environmental Project Office Leader	Louis Kwan	9275 0975	3007 8448
Environmental Checker (ANewR Consulting Limited)	Independent Environmental Checker	James Choi	6122 5213	3007 8448
Contractor	Project Manager	S. Y. Tse	3968 7002	2109 2588
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (Meinhardt Infrastructure and Environment Limited)	Environmental Team Leader	Claudine Lee	2859 5409	2559 0738
724 hours complaint hotline			5699 5730	

1.3 Construction Programme

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

1.4 Construction Works Undertaken During the Reporting Month

1.4.1 A summary of the construction activities undertaken during this reporting month is shown in **Table 1.2.**

Table 1.2 Construction Activities During Reporting Month

Description of Activities	Site Area	
Landscape maintenance works	SHT East Portal	
Removal of Temporary Toe Loading Platform	Portion X	



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 TSP levels at two 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 1-hr TSP and 24-hr TSP are provided in **Table 2.1** and **Table 2.2**, respectively.

Table 2.1 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, μg/m³	Limit Level, μg/m³
AMS 5 – Ma Wan Chung Village (Tung Chung)	352	500
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500

Table 2.2 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, μg/m³	Limit Level, μg/m³
AMS 5 – Ma Wan Chung Village (Tung Chung)	164	260
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260

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 Indicator (Model No. LD-5R)
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 AMS5 was set up at the proposed locations in accordance with Contract Specific EM&A Manual.
- 2.3.2 Figure 2.1 shows the locations of monitoring stations. Table 2.4 describes the details of the monitoring stations. The existing air quality monitoring location AMS6 Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1 hr and 24 hr air quality monitoring at AMS6 was temporarily suspended starting from 1 April 2021. A new alternative air quality monitoring location is still under processing.



Table 2.4	Locations	of Impa	act Air (Quality	Monitoring	Stations
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Monitoring Station	Location
AMS5	Ma Wan Chung Village (Tung Chung)
AMS6	Dragonair / CNAC (Group) Building (HKIA)

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 ±2.5% deviation over 24-hour sampling period.
- (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.



(iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

- (i) The power supply was checked to ensure the HVS works properly.
- (ii) The filter holder and the area surrounding the filter were cleaned.
- (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
- (vi) Then the shelter lid was closed and was secured with the aluminium strip.
- (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- (viii) A new flow rate record sheet was set into the flow recorder.
- (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the Updated EM&A Manual for HKLR (Version 1.0) (i.e. 0.6-1.7 m³/min).
- (x) The programmable digital timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- (xi) The initial elapsed time was recorded.
- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.
- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
- (iii) Calibration certificate of the HVSs are provided in **Appendix C**.

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 SENSI 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 C**.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for air quality monitoring in March 2023 is provided in **Appendix D**.

2.7 Monitoring Results

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Tables 2.6** and **2.7** respectively. Detailed impact air quality monitoring results and relevant graphical plots are presented in **Appendix E**. The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1-hr and 24-hr TSP monitoring at AMS6 was temporarily suspended starting from 1 April 2021.

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

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS5	48	6-99	352	500
AMS6			360	500

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

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS5	63	26-110	164	260
AMS6			173	260

2.7.2 No Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at station AMS5 during the reporting month. The event action plan is annexed in **Appendix F**.

2.7.3 On-site wind meter was irreparably damaged and the wind data could not be retrieved since August 2019. As the wind data could not be monitored, the wind data during this reporting month were reference to the wind data obtained from Hong Kong Observatory's Chek Lap Kok weather station. The wind data obtained from Chek Lap Kok weather station are shown in **Appendix G**.



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 Project. The Action and Limit level of 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
NMS5 – Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)	0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meters at each designated 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 NMS5 was set up at the proposed locations in accordance with Contract Specific EM&A Manual.
- 3.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 3.3** describes the details of the monitoring stations.

Table 3.3 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location
NMS5	Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)

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-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). Leq, L ₁₀ and L ₉₀ would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The sound level meter was set on a tripod at a height of 1.2 m above the podium for free-field measurements at NMS5. A correction of +3 dB(A) shall be made to the free field measurements.
- (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. 07:00 1900 on normal weekdays
- (d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94.0 dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- (e) During the monitoring period, the L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (f) 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.
- (g) 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 C**.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in March 2023 is provided in **Appendix D**.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in **Table 3.5** and the monitoring results and relevant graphical plots are provided in **Appendix E**.

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

Monitoring Station	Average L _{eq (30 mins)} , dB(A)	Range of L _{eq (30 mins)} , dB(A)	Limit Level L _{eq (30 mins)} , dB(A)
NMS5	58	57-60	75

^{*}A correction factor of +3dB(A) from free field to facade measurement was included.

- 3.7.2 There were no Action and Limit Level exceedances for noise during daytime on normal weekdays of the reporting month
- 3.7.3 Other noise sources during the noise monitoring included aircraft noise, helicopter noise, construction activities by other parties and human activities nearby.
- 3.7.4 The event action plan is annexed in **Appendix F.**



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 is detected, and that timely action is taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. Table 4.1 shows the established Action/Limit Levels for the environmental monitoring works. The ET proposed to amend the Acton Level and Limit Level for turbidity and suspended solid and EPD approved ET's proposal on 25 March 2013. Therefore, Action Level and Limit Level for the Contract have been changed since 25 March 2013.
- 4.1.2 The original and revised Action Level and Limit Level for turbidity and suspended solid are shown in **Table 4.1**. The event action plan is annexed in **Appendix F.**

Table 4.1 Action and Limit Levels for Water Quality

Parameter (unit)	Water Depth	Action Level	Limit Level
Dissolved Oxygen (mg/L) (surface,	Surface and Middle	5.0	4.2 except 5 for Fish Culture Zone
middle and bottom)	Bottom	4.7	3.6
Turbidity (NTU)	Depth average	27.5 or 120% of upstream control station's turbidity at the same tide of the same day;	47.0 or 130% of turbidity at the upstream control station at the same tide of same day;
		The action level has been amended to "27.5 and 120% of upstream control station's turbidity at the same tide of the same day" since 25 March 2013.	The limit level has been amended to "47.0 and 130% of turbidity at the upstream control station at the same tide of same day" since 25 March 2013.
Suspended Solid (SS) (mg/L)	Depth average	23.5 or 120% of upstream control station's SS at the same tide of the same day; The action level has been amended to "23.5 and 120% of upstream control station's SS at the same tide of the same day" since 25 March 2013.	34.4 or 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes; The limit level has been amended to "34.4 and 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes" since 25 March 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 limit occurs when monitoring result is lower that the
- (3) For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher

than the limits.

(4) The change to the Action and limit Levels for Water Quality Monitoring for the EM&A works was approved by EPD on 25 March 2013.

4.2 Monitoring Equipment

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

Table 4.2 Water Quality Monitoring Equipment

Equipment	Brand and Model
DO and Temperature Meter, Salinity Meter, Turbidimeter and pH Meter	YSI Model 6820 (V2) YSI Pro Quatro
Positioning Equipment	Garmin GPS72H
Water Depth Detector	Lowrance x-4
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger

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 as required in the Contract Specific EM&A Manual.

Table 4.3 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8(N), IS(Mf)9 & IS10(N)	Depth, mTemperature, °CSalinity, ppt	Three times	3 (1 m below water surface, mid-depth and 1 m above sea bed,
Control/Far Field Stations: CS2(A) & CS(Mf)5,	 Salinity, ppt Dissolved Oxygen (DO), mg/L DO Saturation, % Turbidity, NTU 	during mid- ebb and mid- flood tides (within ± 1.75 hour of the	except where the water depth is less than 6 m, in which case the middepth station may be omitted. Should the
Sensitive Receiver Stations: SR3(N), SR4(N2), SR5(N), SR10A(N) & SR10B(N2)	pHSuspended Solids (SS), mg/L	predicted time)	water depth be less than 3 m, only the mid- depth station will be monitored).

Remark:

- 1) Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) were proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) since 21 August 2019.
- 2) The water quality monitoring programme was temporarily suspended during the reporting month since no marine works were scheduled or conducted, therefore no water quality monitoring was conducted.



4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, thirteen stations (6 Impact Stations, 5 Sensitive Receiver Stations and 2 Control Stations) were designated for impact water quality monitoring. The six Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the five Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the two Control 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 A new water quality monitoring team has been employed for carrying out water quality monitoring work for the Contract starting from 23 August 2017. Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations CS2, SR5 and IS10 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as CS2(A), SR5(N) and IS10(N) was approved on 28 July 2017 and were adopted starting from 23 August 2017 to replace the original locations of water quality monitoring for the Contract.
- 4.4.3 The topographical condition of the water monitoring stations SR3(N) (Coordinate: 810525E, 816456N), SR4(N) (Coordinate: 814760E, 817867N), SR10A(N) (Coordinate: 823741E, 823495N) and SR10B(N2) (Coordinate: 823686E, 823213N) cannot be accessed safely for undertaking water quality monitoring. The water quality monitoring has been temporarily conducted at alternative stations, namely SR3(N) (Coordinate 810689E, 816591N), SR4(N) (Coordinate: 814705E, 817859N) and SR10A(N) (Coordinate: 823644E, 823484N) since 1 September 2017. The water quality monitoring at station SR10B was temporarily conducted at Coordinate: 823683E, 823187N on 1, 4, 6, 8 September 2017 and has been temporarily fine-tuned to alternative station SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017. Proposal for permanently relocating the aforementioned stations was approved by EPD on 8 January 2018.
- 4.4.4 Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) were proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) since 21 August 2019.
- 4.4.5 The access to the WQM station SR4(N2) (Coordinate: E814688, N817996) is blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Water quality monitoring was temporarily conducted at alternative stations, namely SR4(N3) (Coordinate: E814779, N818032) on 1 March 2023. Proposal for permanently relocating the SR4(N2) was approved by EPD on 3 March 2023. The water quality monitoring has been conducted at stations SR4(N3) since 3 March 2023.
- 4.4.6 The locations of water quality monitoring stations are summarized in **Table 4.4** and shown in **Figure 2.1**.

Table 4.4 Impact Water Quality Monitoring Stations

Monitoring	Description	Coordinates	
Stations	Description	Easting Northing	
IS5	Impact Station (Close to HKLR construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKLR construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777

Monitoring	December 1	Coordinates	
Stations	Description	Easting	Northing
IS8(N)	Impact Station (Close to HKBCF construction site)	814413	818570
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881
SR3(N)	Sensitive receivers (San Tau SSSI)	810689	816591
SR4(N3)*	Sensitive receivers (Tai Ho Inlet)	814779	818032
SR5(N)	Sensitive Receivers (Artificial Reef in NE Airport)	812569	821475
SR10A(N)	Sensitive receivers (Ma Wan Fish Culture Zone)	823644	823484
SR10B(N2)	Sensitive receivers (Ma Wan Fish Culture Zone)	823689	823159
CS2(A)	Control Station (Mid-Ebb)	805232	818606
CS(Mf)5	Control Station (Mid-Flood)	817990	821129

Remark:

4.5 Monitoring Methodology

4.5.1 Instrumentation

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

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, 1 m below water surface, middepth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, 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 access to the WQM station SR4(N2) (Coordinate: E814688, N817996) is blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Water quality monitoring was temporarily conducted at alternative stations, namely SR4(N3) (Coordinate: E814779, N818032) on 1 March 2023. Proposal for permanently relocating the SR4(N2) was approved by EPD on 3 March 2023. The water quality monitoring has been conducted at stations SR4(N3) since 3 March 2023.



the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(f) The analysis method and detection limit for SS is shown in **Table 4.5**.

Table 4.5 Laboratory Analysis for Suspended Solids

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

- Other relevant data were recorded, including monitoring location / position, time, water (g) 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 Calibrations
 - All in situ monitoring instruments would be calibrated by ALS Technichem (HK) Pty Ltd. (a) before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme.
- 4.6 **Monitoring Schedule for the Reporting Month**
- 4.6.1 The schedule for impact water quality monitoring in March 2023 is provided in **Appendix D.**
- 4.7 **Monitoring Results**
- 4.7.1 Impact water quality monitoring was conducted at all designated monitoring stations in March 2023 during the reporting month. Impact water quality monitoring results and relevant graphical plots are provided in Appendix E.
- 4.7.2 Water quality impact sources during water quality monitoring were nearby construction activities by other parties and nearby operating vessels by other parties.
- 4.7.3 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level, turbidity level and suspended solid level were recorded during the reporting month.
- 4.7.4 The event action plan is annexed in **Appendix F**.



5 Dolphin Monitoring

5.1 Monitoring Requirements

- 5.1.1 Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins.
- 5.1.2 The Action Level and Limit Level for dolphin monitoring are shown in **Table 5.1**.

Table 5.1 Action and Limit Levels for Dolphin Monitoring

	North Lanta	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)						

Remarks:

- 1. STG means quarterly encounter rate of number of dolphin sightings.
- 2. ANI means quarterly encounter rate of total number of dolphins.
- 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.
- 5.1.3 The revised Event and Action Plan for dolphin Monitoring was approved by EPD in 6 May 2013. The revised Event and Action Plan is annexed in **Appendix F.**

5.2 Monitoring Methodology

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 (see **Figure 2.2**) twice per month throughout the entire construction period. The co-ordinates of all transect lines are shown in **Table 5.2**. The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 28 July 2017, and the revised coordinates are in red and marked with an asterisk in **Table 5.2**.

Table 5.2 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

	Line No.	Easting	Northing	Line No.		Easting	Northing
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	821176	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*

Note:

Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

- 5.2.2 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 22 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2021). 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.
- 5.2.3 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 *Fujinon* marine binoculars. 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.
- 5.2.4 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*).
- 5.2.5 Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 5.2.6 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.
- 5.2.7 Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in **Figure 2.2**) 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.

5.2.8 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

- 5.2.9 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.
- 5.2.10 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.
- 5.2.11 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.
- 5.2.12 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).
- 5.2.13 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 Results

Vessel-based Line-transect Survey

- 5.3.1 During the month of March 2023, two sets of systematic line-transect vessel surveys were conducted on the 3rd, 7th, 16th, and 24th 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 of Appendix H**.
- 5.3.2 From these surveys a total of 265.77 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) (Annex I of Appendix H).
- 5.3.3 Among the two survey areas, 96.90 km and 168.87 km of survey effort were collected from NEL and NWL survey areas respectively. Moreover, the total survey effort conducted on primary lines was 193.35 km, while the effort on secondary lines was 72.42 km.
- 5.3.4 During the two sets of monitoring surveys in March 2023, only one group of one Chinese White Dolphins was sighted (see **Annex II of Appendix H**). This dolphin sighting was made in NWL, while none was sighted in NEL. Furthermore, the lone dolphin was sighted on primary line during on-effort search, and it was not associated with any operating fishing vessel.



- 5.3.5 Distribution of the dolphin sighting made in March 2023 is shown in **Figure 6 of Appendix H**. Sighting of the dolphin group was located at the southwestern corner of NWL survey area, near the western territorial boundary between HKLR09 alignment and the airport platform (**Figure 6 of Appendix H**). Notably, this is also the same location where the two previous sightings made in January and February 2023, respectively.
- 5.3.6 During the March's surveys, encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) are shown in **Tables 5.3 and 5.4**.

Table 5.3 Dolphin encounter rates deduced from the two sets of surveys (two surveys in each set) in March 2023 in Northeast (NEL) and Northwest Lautau (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: March 3 rd / 7 th	0.0	0.0
NEL	Set 2: March 16 th / 24 th	0.0	0.0
NIVA/I	Set 1: March 3 rd / 7 th	0.0	0.0
NWL	Set 2: March 16 th / 24 th	1.7	1.7

Table 5.4 Overall dolphin encounter rates (sighting per 100 km of survey effort) from all surveys conducted in March 2023 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

	(no. of on-ef	nter rate (STG) fort dolphin sightings m of survey effort)	(no. of dolph	nter rate (ANI) ins from all on-effort 00 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	0.8 0.6		0.8	0.6

Photo-identification Work

5.3.7 The lone dolphin sighted during the monitoring month was identified as a known individual (WL79) from the photo-identification catalogue (**Annex III and IV of Appendix H**). This individual was sighted only once during the single sighting made in March 2023, and it was not associated with any young calf.

5.4 Conclusion

- 5.4.1 During this month of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.
- 5.4.2 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 this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (March May 2023) and the 3-month baseline monitoring period will be made.

5.5 References

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6 Mudflat Monitoring

6.1 Sedimentation Rate Monitoring

Methodology

- 6.1.1 To avoid disturbance to the mudflat and nuisance to navigation, no fixed marker/monitoring rod was installed at the monitoring stations. A high precision Global Navigation Satellite System (GNSS) real time location fixing system (or equivalent technology) was used to locate the station in the precision of 1mm, which is reasonable under flat mudflat topography with uneven mudflat surface only at micro level. This method has been used on Agricultural Fisheries and Conservation Department's (AFCD) project, namely Baseline Ecological Monitoring Programme for the Mai Po Inner Deep Bay Ramsar Site for measurement of seabed levels.
- Measurements were taken directly on the mudflat surface. The Real Time Kinematic GNSS 6.1.2 (RTK GNSS) surveying technology was used to measure mudflat surface levels and 3D coordinates of a survey point. The RTK GNSS survey was calibrated against a reference station in the field before and after each survey. The reference station is a survey control point established by the Lands Department of the HKSAR Government or traditional land surveying methods using professional surveying instruments such as total station, level and/or geodetic The coordinates system was in HK1980 GRID system. For this contract, the reference control station was surveyed and established by traditional land surveying methods using professional surveying instruments such as total station, level and RTK GNSS. The accuracy was down to mm level so that the reference control station has relatively higher accuracy. As the reference control station has higher accuracy, it was set as true evaluation relative to the RTK GNSS measurement. All position and height correction were adjusted and corrected to the reference control station. Reference station survey result and professional land surveying calibration is shown as **Table 6.1**:

Table 6.1 Reference Station Survey result and GNSS RTK calibration result of Round 1

Reference Station	Easting (m)	Northing (m)	Baseline reference elevation (mPD) (A)	Round 1 Survey (mPD) (B)	Calibration Adjustment (B-A)
T1	811248.660mE	816393.173mN	3.840	3.817	-0.023
T2	810806.297mE	815691.822mN	4.625	4.653	+0.028
Т3	810778.098mE	815689.918mN	4.651	4.660	+0.009
T4	810274.783mE	816689.068mN	2.637	2.709	+0.072

6.1.3 The precision of the measured mudflat surface level reading (vertical precision setting) was within 10 mm (standard deviation) after averaging the valid survey records of the XYZ HK1980 GRID coordinates. Each survey record at each station was computed by averaging at least three measurements that are within the above specified precision setting. Both digital data logging and written records were collected in the field. Field data on station fixing and mudflat surface measurement were recorded.

Monitoring Locations

6.1.4 Four monitoring stations were established based on the site conditions for the sedimentation monitoring and are shown in **Figure 6.1**.

Monitoring Results

6.1.5 The baseline sedimentation rate monitoring was in September 2012 and impact sedimentation rate monitoring was undertaken on 22 March 2023. The mudflat surface levels at the four established monitoring stations and the corresponding XYZ HK1980 GRID coordinates are presented in **Table 6.2 and Table 6.3**.

Table 6.2 Measured Mudflat Surface Level Results

	Baseline N	lonitoring (Sep	tember 2012)	Impact	Monitoring (Ma	rch 2023)
Monitoring Station	Easting (m)	Northing (m)	Surface Level (mPD)	Easting (m)	Northing (m)	Surface Level (mPD)
S1	810291.160	816678.727	0.950	810291.137	816678.715	1.115
S2	810958.272	815831.531	0.864	810958.280	815831.527	0.964
S3	810716.585	815953.308	1.341	810716.585	815953.308	1.448
S4	811221.433	816151.381	0.931	811221.422	816151.386	1.116

Table 6.3 Comparison of measurement

	Con	nparison of Mea	surement	
Monitoring Station	Easting (m)	Northing (m)	Surface Level (mPD)	Remarks and Recommendation
S1	-0.023	-0.012	0.165	Level continuously increased, need attention
S2	0.008	-0.004	0.100	Level continuously increased, need attention
S3	0.000	0.000	0.107	Level continuously increased, need attention
S4	-0.011	0.005	0.185	Level continuously increased, need attention

6.1.6 This measurement result was generally and relatively higher than the baseline measurement at S1, S2, S3 and S4. The mudflat level is continuously increased, attention is required.

6.2 Water Quality Monitoring

- 6.2.1 The mudflat monitoring covered water quality monitoring data. Reference was made to the water quality monitoring data of the representative water quality monitoring station (i.e. SR3(N)) as in the EM&A Manual. The water quality monitoring location (SR3(N)) is shown in **Figure 2.1**.
- 6.2.2 Water quality monitoring in San Tau (monitoring station SR3(N)) was conducted in March 2023 as part of mudflat monitoring. The monitoring parameters included dissolved oxygen (DO), turbidity and suspended solids (SS). The water monitoring results for station SR3(N) were extracted and summarised below:

Table 6.4 Water Quality Monitoring Results (Depth Average) at Station SR3(N)

	Mid Ebb Tide			Mid Flood Tide		
	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
1-Mar-2023	6.57	3.55	1.85	6.35	3.55	4.80
3-Mar-2023	6.53	3.53	6.13	6.09	3.45	4.90
6-Mar-2023	6.37	4.03	5.05	6.83	3.68	3.05
8-Mar-2023	6.83	3.68	2.48	6.37	4.03	4.05
10-Mar-2023	7.11	3.80	4.68	6.65	4.20	3.63
13-Mar-2023	7.02	3.45	3.33	6.46	3.63	2.78
15-Mar-2023	7.26	4.23	2.33	6.89	4.55	3.38
17-Mar-2023	6.75	4.08	2.93	6.34	4.33	3.10
20-Mar-2023	6.45	3.70	3.05	6.09	3.83	3.08
22-Mar-2023	6.20	3.95	5.68	5.90	3.90	3.85
24-Mar-2023	6.52	3.10	7.93	6.20	3.25	7.58
27-Mar-2023	6.61	3.58	3.25	6.35	3.53	3.13
29-Mar-2023	6.40	3.50	3.10	6.24	3.43	2.63
31-Mar-2023	6.54	3.75	2.95	6.32	3.63	3.58
Average	6.65	3.71	3.91	6.36	3.79	3.82

6.3 Mudflat Ecology Monitoring Methodology

Sampling Zone

- 6.3.1 To collect baseline information of mudflats in the study site, the study site was divided into three sampling zones (labeled as TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (labeled as ST) (Figure 2.1). The horizontal shoreline of sampling zones TC1, TC2, TC3 and ST were about 250 m, 300 m, 300 m and 250 m, respectively (Figure 2.2 in Appendix I). Survey of horseshoe crabs, seagrass beds and intertidal communities were conducted in every sampling zone. The present survey was conducted in March 2023 (totally 4 sampling days 23rd (for ST), 24th (for TC3), 25th (for TC2) and 26th (for TC1).
- 6.3.2 Since the field survey of June 2016, increasing number of trashes and even big trashes (Figure 2.3) were found in every sampling zone. It raised a concern about the solid waste dumping and current-driven waste issues in Tung Chung Wan. Respective measures (e.g., manual clean-up) should be implemented by responsible governmental agency units.

Horseshoe Crabs

6.3.3 Active search method was adopted for horseshoe crab monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any horseshoe crab individuals within 2-3 hour of low tide period (tidal level below 1.2 m above Chart Datum (C.D.)). Once a horseshoe crab individual was found, the species was identified referencing to Li (2008). The prosomal width, inhabiting substratum and respective GPS coordinate were recorded. A photographic record was taken for future investigation. Any grouping behavior of individuals, if found, was recorded. The horseshoe crab surveys were conducted on 23rd (for ST), 24th (for TC3), 25th (for TC2) and 26th (for TC1) Mar 2023, which were cloudy days.

6.3.4 In June 2017, a big horseshoe crab was tangled by a trash gill net in ST mudflat (**Figure 2.3 in Appendix I**). It was released to sea once after photo recording. The horseshoe crab of such size should be inhabiting sub-tidal environment while it forages on intertidal shore occasionally during high tide period. If it is tangled by the trash net for few days, it may die due to starvation or overheat during low tide period. These trash gill nets are definitely 'fatal trap' for the horseshoe crabs and other marine life. Manual clean-up should be implemented as soon as possible by responsible governmental agency units.

Seagrass Beds

Active search method was adopted for seagrass bed monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any seagrass beds within 2-3 hours of low tide period. Once seagrass bed was found, the species, estimated area, estimated coverage percentage and respective GPS coordinates were recorded. The seagrass beds surveys were conducted on 23rd (for ST), 24th (for TC3), 25th (for TC2) and 26th (for TC1) Mar 2023, which were cloudy days.

Intertidal Soft Shore Communities

Field Sampling

- 6.3.5 The intertidal soft shore community surveys were conducted in low tide period on on 23rd (for ST), 24th (for TC3), 25th (for TC2) and 26th (for TC1) Mar 2023. In every sampling zone, three 100m horizontal transect lines were laid at high tidal level (H: 2.0m above C.D.), mid tidal level (M: 1.5m above C.D.) and low tidal level (L: 1.0m above C.D.). Along every horizontal transect line; ten random quadrats (0.5 m x 0.5m) were placed.
- 6.3.6 Inside a quadrat, any visible epifauna was collected and was in-situ identified to the lowest practical taxonomical resolution. Whenever possible a hand core sample (10 cm internal diameter x 20 cm depth) of sediments was collected in the quadrat. The core sample was gently washed through a sieve of mesh size 2.0 mm in-situ. Any visible infauna was collected and identified. Finally, the top 5 cm surface sediment was dug for visible infauna in the quadrat regardless of hand core sample was taken.
- 6.3.7 All collected fauna were released after recording except some tiny individuals that were too small to be identified on site. These tiny individuals were taken to laboratory for identification under dissecting microscope.
- 6.3.8 The taxonomic classification was conducted in accordance to the following references: Polychaetes: Fauchald (1977), Yang and Sun (1988); Arthropods: Dai and Yang (1991), Dong (1991); Mollusks: Chan and Caley (2003), Qi (2004), AFCD (2018).

Data Analysis

6.3.9 Data collected from direct counting and core sampling was pooled in every quadrat for data analysis. Shannon-Weaver Diversity Index (*H*') and Pielou's Species Evenness (*J*) were calculated for every quadrat using the formulae below,

$$H'$$
= -Σ (Ni/N) In (Ni/N)(Shannon and Weaver, 1963)
 $J = H'$ /In S (Pielou, 1966)

where S is the total number of species in the sample, N is the total number of individuals, and Ni is the number of individuals of the ith species.

6.4 Event and Action Plan for Mudflat Monitoring

6.4.1 In the event of the impact monitoring results indicating that the density or the distribution pattern of intertidal fauna and seagrass is found to be significant different to the baseline condition (taking into account natural fluctuation in the occurrence and distribution pattern such as due to seasonal change), appropriate actions should be taken and additional mitigation measures should be implemented as necessary. Data should then be re-assessed and the need for any



further monitoring should be established. The action plan, as given in **Table 6.5** should be undertaken within a period of 1 month after a significant difference has been determined.

Table 6.5 Event and Action Plan for Mudflat Monitoring

Event	ET Leader	IEC	SO	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	result of natural variation or	Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented.	Inform the SO and in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER; Implement the agreed measures.

Notes:

ET - Environmental Team

IEC - Independent Environmental Checker

SO – Supervising Officer

6.5 Mudflat Ecology Monitoring Results and Conclusion

Horseshoe Crabs

- 6.5.1 In total of 12 individuals of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* were found in present survey. The recorded individuals were mainly distributed along the shoreline in ST and TC3. All 12 findings were juveniles specimens. Photo records of previously observed horseshoe crab is shown in **Figure 3.1 of Appendix I** and the present survey result regarding horseshoe crab are presented in **Table 3.1 of Appendix I**. The complete survey records are presented in **Annex II of Appendix I**.
- 6.5.2 For Carcinoscorpius rotundicauda, 1 individual was found in ST with body size 56.66 mm. In TC3, 4 individuals with average body size 51.46mm (prosomal width ranged 44.18 59.21mm) were found in present survey. The search record in ST (0.17 ind. hr-1. Person-1) and TC3 (0.67 ind. hr-1. Person-1) were very low. No Carcinoscorpius rotundicauda was recorded in TC1 and TC2 in present survey.
- 6.5.3 For *Tachypleus tridentatus*, 5 individuals with average body size 63.47 mm (prosomal width ranged 51.28 79.15 mm) were found in ST and 2 individuals with average body size 60.73 (prosomal width ranged 60.22 61.23 mm) were found in TC3 in present survey. The search records in ST (0.83 ind. hr-1. Person-1) and in TC3 (0.33 ind. Hr-1. Person-1) was very low. No *Tachypleus tridentatus* was found in TC1 and TC2 in present survey.

- 6.5.4 In the survey of March 2015, there was one important finding that a mating pair of Carcinoscorpius rotundicauda was found in ST (prosomal width: male 155.1mm, female 138.2mm). It indicated the importance of ST as a breeding ground of horseshoe crab. In June 2017, mating pairs of Carcinoscorpius rotundicauda were found in TC2 (male 175.27 mm, female 143.51 mm) and TC3 (male 182.08 mm, female 145.63 mm) (Figure 3.2 of Appendix I). In December 2017 and June 2018, one mating pair was of Carcinoscorpius rotundicauda was found in TC3 (December 2017: male 127.80 mm, female 144.61 mm; June 2018: male 139 mm, female 149 mm). In June 2019, two mating pairs of Tachypleus tridentatus with large body sizes (male 150mm and Female 200mm; Male 180mm and Female 220mm) were found in TC3. Another mating pair of Tachypleus tridentatus was found in ST (male 140mm and Female 180mm). In March 2020, a pair of Tachypleus tridentatus with large body sizes (male 123mm and Female 137mm was recorded in TC1. Figure 3.2 of Appendix I shows the photographic records of the mating pair found. The recorded mating pairs were found nearly burrowing in soft mud at low tidal level (0.5-1.0 m above C.D.). The smaller male was holding the opisthosoma (abdomen carapace) of larger female from behind. A mating pair was found in TC1 in March 2020, it indicated that breeding of horseshoe crab could be possible along the coast of Tung Chung Wan rather than ST only, as long as suitable substratum was available. Based on the frequency of encounter, the shoreline between TC3 and ST should be more suitable mating ground. Moreover, suitable breeding period was believed in wet season (March - September) because tiny individuals (i.e. newly hatched) were usually recorded in June and September every year (Figure 3.3 of Appendix I). One mating pair was found in June 2022.
- 6.5.5 3 adult individuals (prosomal width >100mm) of Carcinoscorpius rotundicauda were recorded in September 2022 survey, with one alive, one dead in TC3 and one dead in TC2. June 2022, 7 large individuals (prosomal width >100mm) of Carcinoscorpius rotundicauda was recorded (prosomal width ranged 131.4mm - 140.3mm) in TC3. In December 2018, one large individual of Carcinoscorpius rotundicauda was found in TC3 (prosomal width 148.9 mm). In March 2019, 3 large individuals (prosomal width ranged 220 - 310mm) of Carcinoscorpius rotundicauda were observed in TC2. In June 2019, there were 3 and 7 large individuals of Tachypleus tridentatus recorded in ST (prosomal width ranged 140 – 180mm) and TC3 (prosomal width ranged 150 – 220mm), respectively. In March 2020, a mating pair of Tachypleus tridentatus was recorded in TC1 with prosomal width 123 mm and 137mm. Base on their sizes, it indicated that individuals of prosomal width larger than 100 mm would progress its nursery stage from intertidal habitat to sub-tidal habitat of Tung Chung Wan. The photo records of the large horseshoe crab are shown in Figure 3.4 of Appendix I. These large individuals might move onto intertidal shore occasionally during high tide for foraging and breeding. Because they should be inhabiting sub-tidal habitat most of the time. Their records were excluded from the data analysis to avoid mixing up with juvenile population living on intertidal habitat.
- 6.5.6 Some marked individuals were found in the previous surveys of September 2013, March 2014, and September 2014. All of them were released through a conservation programme in charged by Prof. Paul Shin (Department of Biology and Chemistry, The City University of Hong Kong (CityU)). It was a re-introduction trial of artificial bred horseshoe crab juvenile at selected sites. So that the horseshoe crab's population might be restored in the natural habitat. Through a personal conversation with Prof. Shin, about 100 individuals were released in the sampling zone ST on 20 June 2013. All of them were marked with color tape and internal chip detected by specific chip sensor. There should be second round of release between June and September 2014 since new marked individuals were found in the survey of September 2014.
- 6.5.7 The artificial bred individuals, if found, would be excluded from the results of present monitoring programme in order to reflect the changes of natural population. However, the mark on their prosoma might have been detached during moulting after a certain period of release. The artificially released individuals were no longer distinguishable from the natural population without the specific chip sensor. The survey data collected would possibly cover both natural population and artificially bred individuals.

Population difference among the sampling zones

- 6.5.8 **Figure 3.5 and 3.6 of Appendix I** show the changes of number of individuals, mean prosomal width and search record of horseshoe crabs *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in respectively in each sampling zone throughout the monitoring period.
- 6.5.9 To consider the entire monitoring period for TC3 and ST, medium to high search records (i.e. number of individuals) of both species (Carcinoscorpius rotundicauda and Tachypleus tridentatus) were usually found in wet season (June and September). The search record of ST was higher from September 2012 to June 2014 while it was replaced by TC3 from September 2014 to June 2015. The search records were similar between two sampling zones from September 2015 to June 2016. In September 2016, the search record of Carcinoscorpius rotundicauda in ST was much higher than TC3. From March to June 2017, the search records of both species were similar again between two sampling zones. It showed a natural variation of horseshoe crab population in these two zones due to weather condition and tidal effect. No obvious difference of horseshoe crab population was noted between TC3 and ST. In September 2017, the search records of both horseshoe crab species decreased except the Carcinoscorpius rotundicauda in TC3. The survey results were different from previous findings that there were usually higher search records in September. One possible reason was that the serial cyclone hit decreased horseshoe crab activity (totally 4 cyclone records between June and September 2017, to be discussed in 'Seagrass survey' section). From December 2017 to September 2018, the search records of both species increased again to low-moderate level in ST and TC3. From December 2018 to September 2019, the search records of Carcinoscorpius rotundicauda change from very low to low while the change of Tachypleus tridentatus was similar during this period. Relatively higher population fluctuation of Carcinoscorpius rotundicauda was observed in TC3. From March 2020 to September 2020, the search records of both species, Carcinoscorpius rotundicauda and Tachypleus tridentatus, were increased to moderate level in ST. However, the search records of both species, Carcinoscorpius rotundicauda and Tachypleus tridentatus, were decreased from very low to none in TC3 in this period. From March 2021 to September 2021, the search records of both species, Carcinoscorpius rotundicauda and Tachypleus tridentatus, were kept at low-moderate level in both ST and TC3. It is similar to the previous findings of June. It shows another growing phenomenon of horseshoe crabs and it may due to the weather variation of starting of wet season. The survey results were different from previous findings that there were usually higher search records in September. One possible reason was that September of 2021 was one of the hottest month in Hong Kong in record. As such, hot and shiny weather decreased horseshoe crab activity. In December 2021, no juvenile was recorded similar to the some previous in December due to the season. In March 2022, only juvenils recorded in both ST and TC3, no adult specimen was observed. In June 2022, total of 13 individuals of Carcinoscorpius rotundicauda and Tachypleus tridentatus were found, with 6 juveniles, 6 adults and 1 died recorded. In September 2022, total of 7 individuals of were found, with 4 juveniles, 3 adults (1 alive and 2 died) recorded. In March 2023, total of 12 individuals of juveniles Carcinoscorpius rotundicauda and Tachypleus tridentatus were found and recorded.
- 6.5.10 For TC1, the search record was at low to moderate level throughout the monitoring period. The change of *Carcinoscorpius rotundicauda* was relatively more variable than that of *Tachypleus tridentatus*. Relatively, the search record was very low in TC2. There were occasional records of 1 to 4 individuals between March and September throughout the monitoring period. The maximum record was 6 individuals only in June 2016.
- 6.5.11 About the body size, larger individuals of *Carcinoscorpius rotundicauda* were usually found in ST and TC1 relative to that in TC3 from September 2012 to June 2017. But the body size was higher in TC3 and ST followed by TC1 from September 2017 to March 2020. From June 2020 to December 2020, there was no individuals of *Carcinoscorpius rotundicauda* recorded in TC3 but in ST. The body size of *Carcinoscorpius rotundicauda* in ST was recorded gradually increased (from mean prosomal width 23.6mm to 49.6mm) since March 2020 to September 2020. From December 2020 to March 2021, the body size of *Carcinoscorpius rotundicauda* in ST was recorded decreased (from mean prosomal width 49.6mm to 43.3mm). In March 2021, the body size of *Carcinoscorpius rotundicauda* in TC3 (mean prosomal width 46.2mm) was recorded larger than that in ST (mean prosomal width 43.3mm). From September 2021 to June 2022, the body

size of *Carcinoscorpius rotundicauda* in ST was recorded increased (from mean prosomal width 39.8mm to 54.42mm).

- 6.5.12 For Tachypleus tridentatus, larger individuals were usually found in ST and TC3 followed by TC1 throughout the monitoring period. In June 2019, all found horseshoe crabs were large individuals and mating pairs. It is believed that the sizes of the horseshoe crabs would be decrease and gradually rise afterward due to the stable growth of juveniles after the spawning season. From March 2019 to September 2021, Tachypleus tridentatus were only recorded in TC3 and ST. The body size in TC3 was increased from September 2019 to December 2019 then decreased in March 2020 and no recorded species in TC3 for three consecutive guarters from June 2020 to December 2020. From March 2020 to Sep 2021, the body size of Tachypleus tridentatus in TC3 increased (from mean prosomal width 34.00mm to 38.8mm). It showed a natural variation of horseshoe crab population in TC3. Apart from natural mortality, migration from nursery soft shore to subtidal habitat was another possible cause. The body size in ST was gradually growth since December 2019 to September 2020 then slightly dropped in December 2020. In June 2022, Tachypleus tridentatus were only recorded in ST, the body size in ST decreased from mean prosomal width 77.59mm to 54.02mm in March 2022. In September 2022 Tachypleus tridentatus were only recorded in TC3. The mean prosomal was 61.09mm. In March 2023, 7 Tachypleus tridentatus were recorded in ST and TC3. The mean prosomal was 62.68mm.
- 6.5.13 In general, it was obvious that the shoreline along TC3 and ST (western shore of Tung Chung Wan) was an important nursery ground for horseshoe crab especially newly hatched individuals due to larger area of suitable substratum (fine sand or soft mud) and less human disturbance (far from urban district). Relatively, other sampling zones were not a suitable nursery ground especially TC2. Possible factors were less area of suitable substratum (especially TC1) and higher human disturbance (TC1 and TC2: close to urban district and easily accessible). In TC2, large daily salinity fluctuation was a possible factor since it was flushed by two rivers under tidal inundation. The individuals inhabiting TC1 and TC2 were confined in small foraging area due to limited area of suitable substratum. Although there were mating pairs seldomly found in TC1 and TC2, the hatching rate and survival rate of newly hatched individuals were believed very low.

Seasonal variation of horseshoe crab population

- 6.5.14 Throughout the monitoring period, the search records of horseshoe crabs were fluctuated and at moderate - very low level in June (Figure 3.5 and 3.6 of Appendix I). Low - Very low search record was found in June 2013, totally 82 individuals of Tachypleus tridentatus and 0 ind. of Carcinoscorpius rotundicauda were found in TC1, TC3 and ST. Compare with the search record of June 2013, the numbers of Tachypleus tridentatus were gradually decreased in June 2014 and 2015 (55 ind. in 2014 and 18 ind. in 2015); the number of Carcinoscorpius rotundicauda raise to 88 and 66 ind. in June 2014 and 2015 respectively. In June 2016, the search record increased about 3 times compare with June 2015. In total, 182 individuals of Carcinoscorpius rotundicauda and 47 individuals of Tachypleus tridentatus were noted, respectively. Then, the search record was similar to June 2016. The number of recorded Carcinoscorpius rotundicauda (133 ind.) slightly dropped in June 2017. However, that of Tachypleus tridentatus rapidly increased (125 ind.). In June 2018, the search record was low to moderate while the numbers of Tachypleus tridentatus dropped sharply (39 ind.). In June 2019, 10 individuals of Tachypleus tridentatus were observed in TC3 and ST. All of them, however, were large individuals (prosomal width >100mm), their records are excluded from the data analysis to avoid mixing up with the juvenile population living on intertidal habitat. Until September 2020, the number of Carcinoscorpius rotundicauda and Tachypleus tridentatus gradually increased to 39 ind. and 28 ind., respectively. In December 2020, the number of Carcinoscorpius rotundicauda and Tachypleus tridentatus greatly decreased to 3 ind. and 7 ind., respectively. In March 2022, the number of Carcinoscorpius rotundicauda and Tachypleus tridentatus gradually decreased to 7 ind. and 2 ind., respectively in comparing with the March of previous record. The drop of abundance may be related to the unusual cold weather in the beginning of March 2022. Throughout the monitoring period, similar distribution of horseshoe crab population was found.
- 6.5.15 The search record of horseshoe crab declined obviously in all sampling zones during dry season especially December (**Figure 3.5 and 3.6 of Appendix I**) throughout the monitoring period. Very

low - low search record was found in December from 2012 to 2015 (0-4 ind. of Carcinoscorpius rotundicauda and 0 - 12 ind. of Tachypleus tridentatus). The horseshoe crabs were inactive and burrowed in the sediments during cold weather (<15 °C). Similar results of low search record in dry season were reported in a previous territory-wide survey of horseshoe crab. For example, the search records in Tung Chung Wan were 0.17 ind. hr-1 person-1 and 0.00 ind. hr-1 person-1 in wet season and dry season respectively (details see Li, 2008). Compare with the search record of December from 2012 to 2015, which of December 2016 were much higher relatively. There were totally 70 individuals of Carcinoscorpius rotundicauda and 24 individuals of Tachypleus tridentatus in TC3 and ST. Since the survey was carried in earlier December with warm and sunny weather (~22 °C during dawn according to Hong Kong Observatory database, Chek Lap Kok station on 5 December 2016), the horseshoe crab was more active (i.e. move onto intertidal shore during high tide for foraging and breeding) and easier to be found. In contrast, there was no search record in TC1 and TC2 because the survey was conducted in mid December with colder and cloudy weather (~20 °C during dawn on 19 December). The horseshoe crab activity would decrease gradually with the colder climate. In December of 2017, 2018 and 2019, very low search records were found again as mentioned above. No record of horseshoe crab was recorded in December 2022.

- 6.5.16 From September 2012 to December 2013, Carcinoscorpius rotundicauda was less common species relative to Tachypleus tridentatus. Only 4 individuals were ever recorded in ST in December 2012. This species had ever been believed of very low density in ST hence the encounter rate was very low. In March 2014, it was found in all sampling zones with higher abundance in ST. Based on its average size (mean prosomal width 39.28 49.81 mm), it indicated that breeding and spawning of this species had occurred about 3 years ago along the coastline of Tung Chun Wan. However, these individuals were still small while their walking trails were inconspicuous. Hence there was no search record in previous sampling months. Since March 2014, more individuals were recorded due to larger size and higher activity (i.e. more conspicuous walking trail).
- For Tachypleus tridentatus, sharp increase of number of individuals was recorded in ST during 6.5.17 the wet season of 2013 (from March to September). According to a personal conversation with Prof. Shin (CityU), his monitoring team had recorded similar increase of horseshoe crab population during wet season. It was believed that the suitable ambient temperature increased its conspicuousness. However similar pattern was not recorded in the following wet seasons. The number of individuals increased in March and June 2014 and followed by a rapid decline in September 2014. Then the number of individuals fluctuated slightly in TC3 and ST until March 2017. Apart from natural mortality, migration from nursery soft shore to subtidal habitat was another possible cause. Since the mean prosomal width of Tachypleus tridentatus continued to grow and reached about 50 mm since March 2014. Then it varied slightly between 35-65 mm from September 2014 to March 2017. Most of the individuals might have reached a suitable size (e.g. prosomal width 50 - 60 mm) strong enough to forage in sub-tidal habitat. In June 2017, the number of individuals increased sharply again in TC3 and ST. Although mating pair of Tachypleus tridentatus was not found in previous surveys, there should be new round of spawning in the wet season of 2016. The individuals might have grown to a more conspicuous size in 2017 accounting for higher search record. In September 2017, moderate numbers of individual were found in TC3 and ST indicating a stable population size. From September 2018 to March 2020, the population size was low while natural mortality was the possible cause. From June 2020 to September 2020, the population size of Tachypleus tridentatus increased to moderate level in ST while the mean proposal width of them continued to grow and reach about 55mm. The population size of Tachypleus tridentatus slightly decreased in ST from March 2021 to March 2022 and the mean proposal width of them increased to about 77.59mm.
- 6.5.18 In recent year, the *Carcinoscorpius rotundicauda* was a more common horseshoe crab species in Tung Chung Wan. It was recorded in the four sampling zones while the majority of population located in TC3 and ST. Due to potential breeding last year, the number of *Tachypleus tridentatus* increased in ST. Since TC3 and ST were regarded as important nursery ground for both horseshoe crab species, box plots of prosomal width of two horseshoe crab species were constructed to investigate the changes of population in details.

Box plot of horseshoe crab populations in TC3

- 6.5.19 **Figure 3.7 of Appendix I** shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in TC3. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between September 2012 and December 2013 hence the data were lacking. In March 2014, the major size (50% of individual records between upper (top box) and lower quartile (bottom box)) ranged 40 60 mm while only few individuals were found. From March 2014 to September 2018, the median prosomal width (middle line of whole box) and major size (whole box) decreased after March of every year. It was due to more small individuals found in June indicating new rounds of spawning. Also there were slight increasing trends of body size from June to March of next year since 2015. It indicated a stable growth of individuals. Focused on larger juveniles (upper whisker), the size range was quite variable (prosomal width 60 90 mm) along the sampling months. Juveniles reaching this size might gradually migrate to sub-tidal habitats. In March 2022, 2 *Carcinoscorpius rotundicauda* with body size (prosomal width 52.21-54.63mm) were found in TC3. The findings were relatively lower than the previous record in March. This can due to the natural variation caused by multi-environmental factors.
- For Tachypleus tridentatus, the major size ranged 20-50 mm while the number of individuals fluctuated from September 2012 to June 2014. Then a slight but consistent growing trend was observed from September 2014 to June 2015. The prosomal width increased from 25 - 35 mm to 35 - 65 mm. As mentioned, the large individuals might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. It accounted for the declined population in TC3. From March to September 2016, slight increasing trend of major size was noticed again. From December 2016 to June 2017, similar increasing trend of major size was noted with much higher number of individuals. It reflected new round of spawning. In September 2017, the major size decreased while the trend was different from previous two years. Such decline might be the cause of serial cyclone hit between June and September 2017 (to be discussed in the 'Seagrass survey' section). From December 2017 to September 2018, increasing trend was noted again. It indicated a stable growth of individuals. From September 2018 to that of next year, the average prosomal widths were decreased from 60mm to 36mm. It indicated new rounds of spawning occurred during September to November 2018. In December 2019, an individual with larger body size (prosomal width 65mm) was found in TC3 which reflected the stable growth of individuals. In March 2020, the average prosomal width (middle line of the whole box) of Tachypleus tridentatus in TC3 was 33.97mm which is smaller than that in December 2019. It was in normal fluctuation. From June 2020 to December 2020, no horseshoe crab was recorded in TC3. In Sep 2021, only one Tachypleus tridentatus with body size (prosomal width 38.78mm) was found in TC3. The decrease in the species population was considered to be related to hot weather in September, which may affect their activity. Across the whole monitoring period, the larger juveniles (upper whisker) usually reached 60 - 80 mm in prosomal width, even 90 mm occasionally. The juveniles reaching this size might gradually migrate to sub-tidal habitats.

Box plot of horseshoe crab populations in ST

- 6.5.21 **Figure 3.8 of Appendix I** shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in ST. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between September 2012 and December 2013 hence the data were lacking. From March 2014 to September 2018, the size of major population decreased and more small individuals (i.e. lower whisker) were recorded after June of every year. It indicated new round of spawning. Also there were similar increasing trends of body size from September to June of next year between 2014 and 2017. It indicated a stable growth of individuals. The larger juveniles (i.e. upper whisker usually ranged 60 80 mm in prosomal width except one individual (prosomal width 107.04 mm) found in March 2017. It reflected juveniles reaching this size would gradually migrate to sub-tidal habitats.
- 6.5.22 For *Tachypleus tridentatus*, a consistent growing trend was observed for the major population from December 2012 to December 2014 regardless of change of search record. The prosomal width increased from 15 30 mm to 60 70 mm. As mentioned, the large juveniles might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. From March to September 2015, the size of major population decreased slightly to a prosomal width 40 60

mm. At the same time, the number of individuals decreased gradually. It further indicated some of large juveniles might have migrated to sub-tidal habitat, leaving the smaller individuals on shore. There was an overall growth trend. In December 2015, two big individuals (prosomal width 89.27 mm and 98.89 mm) were recorded only while it could not represent the major population. In March 2016, the number of individual was very few in ST that no box plot could be produced. In June 2016, the prosomal width of major population ranged 50-70 mm. But it dropped clearly to 30-40 mm in September 2016 followed by an increase to 40-50 mm in December 2016, 40-70 mm in March 2017 and 50-60mm in June 2017. Based on overall higher number of small individuals from June 2016 to September 2017, it indicated another round of spawning. From September 2017 to June 2018, the major size range increased slightly from 40-50 mm to 45-60 mm indicating a continuous growth. In September 2018, decrease of major size was noted again that might reflect new round of spawning. Throughout the monitoring period, the larger juveniles ranged 60-80 mm in prosomal width. Juveniles reaching this size would gradually migrate to sub-tidal habitats.

- 6.5.23 As a summary for horseshoe crab populations in TC3 and ST, there were spawning ground of *Carcinoscorpius rotundicauda* from 2014 to 2018 while the spawning time should be in spring. The population size was consistent in these two sampling zones. For *Tachypleus tridentatus*, small individuals were rarely found in both zones from 2014 to 2015. It was believed no occurrence of successful spawning. The existing individuals (that recorded since 2012) grew to a mature size and migrated to sub-tidal habitat. Hence the number of individuals decreased gradually. From 2016 to 2018, new rounds of spawning were recorded in ST while the population size increased to a moderate level.
- In March 2019 to June 2019 and Dec 2021, no horseshoe crab juveniles (prosomal width <100mm) were recorded in TC3 and ST. All recorded horseshoe crabs were large individuals (prosomal width >100mm) or mating pairs which were all excluded from the data analysis. From September 2019 to September 2020, the population size of both horseshoe crab species in ST gradually increased to moderate level while their body sizes were mostly in small to medium range (~23 55mm). It indicated the natural stable growth of the horseshoe crab juveniles. In December 2020, the population size of both horseshoe crab species in ST dropped to low level while their body sizes were mostly in small to medium range (~28 56mm). It showed the natural mortality and seasonal variation of horseshoe crab. In June 2022, the population size of both horseshoe crab species in ST was kept as low-moderate level while their body sizes were mostly in small to medium range (~51–78mm). In September 2022, the population size of both horseshoe crab species in TC3 and ST was kept as low-moderate level while their body sizes were mostly in small to medium range (~56–62mm). In September 2022, the population size of both horseshoe crab species in TC3 and ST was kept as low-moderate level while their body sizes were mostly in small to medium range (~44-79mm).

Impact of the HKLR project

6.5.25 It was the 43rd survey of the EM&A programme during construction period. Based on the monitoring results, no detectable impact on horseshoe crab was revealed due to HKLR project. The population change was mainly determined by seasonal variation, no abnormal phenomenon of horseshoe crab individual, such as large number of dead individuals on the shore had been reported.

Seagrass Beds

6.5.26 Two seagrass species *Halophila ovalis* and *Zostera japonica* were found in present survey. *Halophila ovalis* was found in TC3 and ST and *Zostera japonica* was found only in ST. In ST, there were six large sized of *Halophila ovalis* found at tidal zone 1.5m above C.D nearby mangroves plantation. The larger strand had area ~7200m² in moderate vegetation coverage (40-50%), ~4500m² in moderate vegetation coverage (30 - 40%), ~1500m² in moderate vegetation coverage (10 - 30%). In TC3, 3 large patches of *Halophila ovalis* were found at tidal zone 1.5m above C.D. The larger strand had area ~1800m² in moderate vegetation coverage (40 - 70%), ~1500m² in moderate vegetation coverage (30 - 60%) and ~600m² in moderate vegetation coverage (20-50%). At close vicinity to mangrove, one small sized (5m²) of *Zostera japonica*

beds were observed at tidal zone 2.0m above C.D in ST. Table 3.2 of Appendix I summarizes the results of present seagrass beds survey and the photograph records of the seagrass are shown on Figure 3.9 of Appendix I. The complete record throughout the monitoring period is presented in Annex III of Appendix I. Two seagrass species Halophila ovalis and Zostera japonica were found in present survey. Halophila ovalis was found in TC3 and ST and Zostera japonica was found only in ST. In ST, there were six large sized of Halophila ovalis found at tidal zone 1.5m above C.D nearby mangroves plantation. The larger strand had area ~6600m2 in moderate vegetation coverage (30 - 40%), ~3800m² in moderate vegetation coverage (30 -35%),~1000m² in moderate vegetation coverage (25 - 30%) and three ~600 - 180m² in low to moderate vegetation coverage (10 - 25%). In TC3, 3 large patches of Halophila ovalis were found at tidal zone 1.5m above C.D. The larger strand had area ~1600m² in moderate vegetation coverage (40 - 50%), ~1200m² in moderate vegetation coverage (30 - 45%) and ~480m² in moderate vegetation coverage (20-30%). At close vicinity to mangrove, one small sized (5m²) of Zostera japonica beds were observed at tidal zone 2.0m above C.D. Table 3.2 of Appendix I summarizes the results of present seagrass beds survey and the photograph records of the seagrass are shown on Figure 3.9 of Appendix I. The complete record throughout the monitoring period is presented in Annex III of Appendix I.

- 6.5.27 Since the commencement of the EM&A monitoring programme, two species of seagrass *Halophila ovalis* and *Zostera japonica* were recorded in TC3 and ST (**Figure 3.10 of Appendix I**). In general, *Halophila ovalis* was occasionally found in TC3 in few, small to medium patches. But it was commonly found in ST in medium to large seagrass bed. Moreover, it had sometimes grown extensively and had covered significant mudflat area at 0.5 2.0 m above C.D. between TC3 and ST. Another seagrass species *Zostera japonica* was found in ST only. It was relatively lower in vegetation area and co-existed with *Halophila ovalis* nearby the mangrove strand at 2.0 m above C.D.
- 6.5.28 According to the previous results, majority of seagrass bed was confined in ST, the temporal change of both seagrass species was investigated in details:
 - Temporal variation of seagrass beds in ST
- 6.5.29 Figure 3.11 of Appendix I shows the changes of estimated total area of seagrass beds in ST along the sampling months. For Zostera japonica, it was not recorded in the 1st and 2nd surveys of monitoring programme. Seasonal recruitment of few, small patches (total seagrass area: 10 m²) was found in March 2013 that grew within the large patch of seagrass Halophila ovalis. Then, the patch size increased and merged gradually with the warmer climate from March to June 2013 (15 m²). However the patch size decreased and remained similar from September 2013 (4 m²) to March 2014 (3 m²). In June 2014, the patch size increased obviously again (41 m²) with warmer climate followed by a decrease between September 2014 (2 m²) and December 2014 (5 m²). From March to June 2015, the patch size increased sharply again (90 m²). It might be due to the disappearance of the originally dominant seagrass Halophila ovalis resulting in less competition for substratum and nutrients. From September 2015 to June 2016, it was found coexisting with seagrass Halophila ovalis with steady increasing patch size (from 44 m² to 115 m²) and variable coverage. In September 2016, the patch size decreased again to (38 m²) followed by an increase to a horizontal strand (105.4 m²) in June 2017. And it did no longer co-exist with Halophila ovalis. Between September 2014 and June 2017, an increasing trend was noticed from September to June of next year followed by a rapid decline in September of next year. It was possibly the causes of heat stress, typhoon and stronger grazing pressure during wet season. However, such increasing trend was not found from September 2017 to March 2021, while no patch of Zostera japonica was found. From June 2021, the species was recorded again in area of 45m². The recorded area of the seagrass bed in September 2021 survey was slightly decreased to 15m².
- 6.5.30 For *Halophila ovalis*, it was recorded as 3 4 medium to large patches (area 18.9- 251.7 m²; vegetation coverage 50 80%) beside the mangrove vegetation at tidal level 2 m above C.D. in September 2012. The total seagrass bed area grew steadily from 332.3 m² in September 2012 to 727.4 m² in December 2013. Flowers were observed in the largest patch during its flowering period. In March 2014, 31 small to medium patches were newly recorded (variable

area 1 – 72 m² per patch, vegetation coverage 40-80% per patch) in lower tidal zone between 1.0 and 1.5 m above C.D. The total seagrass area increased further to 1350 m². In June 2014, these small and medium patches grew and extended to each other. These patches were no longer distinguishable and were covering a significant mudflat area of ST. It was generally grouped into 4 large patches (1116 - 2443 m²) of seagrass beds characterized of patchy distribution, variable vegetable coverage (40-80%) and smaller leaves. The total seagrass bed area increased sharply to 7629 m². In September 2014, the total seagrass area declined sharply to 1111m². There were only 3-4 small to large patches (6 – 253 m²) at high tidal level and 1 large patch at low tidal level (786 m²). Typhoon or strong water current was a possible cause (Fong, 1998). In September 2014, there were two tropical cyclone records in Hong Kong (7th – 8thSeptember: no cyclone name, maximum signal number 1; 14th – 17th September: Kalmaegi, maximum signal number 8SE) before the seagrass survey dated 21st September 2014. The strong water current caused by the cyclone, Kalmaegi especially, might have given damage to the seagrass beds. In addition, natural heat stress and grazing force were other possible causes reducing seagrass beds area. Besides, very small patches of Halophila ovalis could be found in other mud flat area in addition to the recorded patches. But it was hardly distinguished due to very low coverage (10 – 20%) and small leaves.

6.5.31 In December 2014, all the seagrass patches of *Halophila ovalis* disappeared in ST. **Figure 3.12 of Appendix I** shows the difference of the original seagrass beds area nearby the mangrove vegetation at high tidal level between June 2014 and December 2014. Such rapid loss would not be seasonal phenomenon because the seagrass beds at higher tidal level (2.0 m above C.D.) were present and normal in December 2012 and 2013. According to Fong (1998), similar incident had occurred in ST in the past. The original seagrass area had declined significantly during the commencement of the construction and reclamation works for the international airport at Chek Lap Kok in 1992. The seagrass almost disappeared in 1995 and recovered gradually after the completion of reclamation works. Moreover, incident of rapid loss of seagrass area was also recorded in another intertidal mudflat in Lai Chi Wo in 1998 with unknown reason. Hence, *Halophila ovalis* was regarded as a short-lived and *r*- strategy seagrass that could colonize areas in short period but disappears quickly under unfavourable conditions (Fong, 1998).

Unfavourable conditions to seagrass Halophila ovalis

- 6.5.32 Typhoon or strong water current was suggested as one unfavorable condition to *Halophila ovalis* (Fong, 1998). As mentioned above, there were two tropical cyclone records in Hong Kong in September 2014. The strong water current caused by the cyclones might have given damage to the seagrass beds.
- 6.5.33 Prolonged light deprivation due to turbid water would be another unfavorable condition. Previous studies reported that *Halophila ovalis* had little tolerance to light deprivation. During experimental darkness, seagrass biomass declined rapidly after 3-6 days and seagrass died completely after 30 days. The rapid death might be due to shortage of available carbohydrate under limited photosynthesis or accumulation of phytotoxic end products of anaerobic respiration (details see Longstaff et al., 1999). Hence the seagrass bed of this species was susceptible to temporary light deprivation events such as flooding river runoff (Longstaff and Dennison, 1999). Prolonged light deprivation due to turbid water would be another unfavorable condition. Previous studies reported that *Halophila ovalis* had little tolerance to light deprivation. During experimental darkness, seagrass biomass declined rapidly after 3-6 days and seagrass died completely after 30 days. The rapid death might be due to shortage of available carbohydrate under limited photosynthesis or accumulation of phytotoxic end products of anaerobic respiration (details see Longstaff *et al.*, 1999). Hence the seagrass bed of this species was susceptible to temporary light deprivation events such as flooding river runoff (Longstaff and Dennison, 1999).
- 6.5.34 In order to investigate any deterioration of water quality (e.g. more turbid) in ST, the water quality measurement results at two closest monitoring stations SR3 and IS5 of the EM&A programme were obtained from the water quality monitoring team. Based on the results from June to December 2014, the overall water quality was in normal fluctuation except there was one

exceedance of suspended solids (SS) at both stations in September. On 10th September 2014, the SS concentrations measured during mid-ebb tide at stations SR3 (27.5 mg/L) and IS5 (34.5 mg/L) exceeded the Action Level (≤ 23.5 mg/L and 120% of upstream control station's reading) and Limit Level (≤ 34.4 mg/L and 130% of upstream control station's reading) respectively. The turbidity readings at SR3 and IS5 reached 24.8 – 25.3 NTU and 22.3 – 22.5 NTU, respectively. The temporary turbid water should not be caused by the runoff from upstream rivers. Because there was no rain or slight rain from 1st to 10th September 2014 (daily total rainfall at the Hong Kong International Airport: 0 – 2.1 mm; extracted from the climatological data of Hong Kong Observatory). The effect of upstream runoff on water quality should be neglectable in that period. Moreover the exceedance of water quality was considered unlikely to be related to the contract works of HKLR according to the 'Notifications of Environmental Quality Limits Exceedances' provided by the respective environmental team. The respective construction of seawall and stone column works, which possibly caused turbid water, was carried out within silt curtain as recommended in the EIA report. Moreover there was no leakage of turbid water, abnormity or malpractice recorded during water sampling. In general, the exceedance of suspended solids concentration was considered to be attributed to other external factors, rather than the contract works.

6.5.35 Based on the weather condition and water quality results in ST, the co-occurrence of cyclone hit and turbid waters in September 2014 might have combined the adverse effects on *Halophila ovalis* that leaded to disappearance of this short-lived and *r*-strategy seagrass species. Fortunately *Halophila ovalis* was a fast-growing species (Vermaat *et al.*, 1995). Previous studies showed that the seagrass bed could be recovered to the original sizes in 2 months through vegetative propagation after experimental clearance (Supanwanid, 1996). Moreover it was reported to recover rapidly in less than 20 days after dugong herbivory (Nakaoka and Aioi, 1999). As mentioned, the disappeared seagrass in ST in 1995 could recover gradually after the completion of reclamation works for international airport (Fong, 1998). The seagrass beds of *Halophila ovalis* might recolonize in the mudflat of ST through seed reproduction as long as there was no unfavourable condition in the coming months.

Recolonization of seagrass beds

6.5.36 Figure 3.12 of Appendix I shows the recolonization of seagrass bed in ST from December 2014 to June 2017. From March to June 2015, 2 - 3 small patches of Halophila ovalis were newly found co-inhabiting with another seagrass species Zostera japonica. But the total patch area of Halophila ovalis was still very low compare with previous records. The recolonization rate was low while cold weather and insufficient sunlight were possible factors between December 2014 and March 2015. Moreover, it would need to compete with seagrass Zostera japonica for substratum and nutrient, because Zostera japonica had extended and covered the original seagrass bed of Halophila ovalis at certain degree. From June 2015 to March 2016, the total seagrass area of Halophila ovalis had increased rapidly from 6.8 m2 to 230.63 m2. It had recolonized its original patch locations and covered its competitor Zostera japonica. In June 2016, the total seagrass area increased sharply to 4707.3m². Similar to the previous records of March to June 2014, the original patch area of Halophila ovalis increased further to a horizontally long strand. Another large seagrass beds colonized the lower tidal zone (1.0 - 1.5 m above C.D.). In September 2016, this patch extended much and covered significant soft mud area of ST, resulting in sharp increase of total area (24245 m²). It indicated the second extensive colonization of this r-selected seagrass. In December 2016, this extensive seagrass patch decreased in size and had separated into few, undistinguishable patches. Moreover, the horizontal strand nearby the mangrove vegetation decreased in size. The total seagrass bed decreased to 12550 m². From March to June 2017, the seagrass bed area remained generally stable (12438- 17046.5 m²) but the vegetation coverage fluctuated (20 – 50% in March 2017 to 80 – 100% in June 2017). The whole recolonization process took about 2.5 years.

Second disappearance of seagrass bed

6.5.37 In September 2017, the whole seagrass bed of *Halophila ovalis* disappeared again along the shore of TC3 and ST (**Figure 3.12 of Appendix I**). Similar to the first disappearance of seagrass

bed occured between September and December 2014, strong water current (e.g. cyclone) or deteriorated water qualities (e.g. high turbidity) was the possible cause.

- 6.5.38 Between the survey periods of June and September 2017, there were four tropical cyclone records in Hong Kong (Merbok in 12- 13th, June; Roke in 23rd, Jul.; Hato in22 23rd, Aug.; Pakhar in 26 27th, Aug.) (Online database of Hong Kong Observatory) All of them reached signal 8 or above, especially Hato with highest signal 10.
- 6.5.39 According to the water quality monitoring results (July to August 2017) of the two closest monitoring stations SR3 and IS5 of the respective EM&A programme, the overall water quality was in normal fluctuation. There was an exceedance of suspended solids (SS) at SR3 on 12 July 2017. The SS concentration reached 24.7 mg/L during mid-ebb tide, which exceeded the Action Level (≤ 23.5 mg/L). But it was far below the Limit Level (≤ 34.4 mg/L). Since such exceedance was slight and temporary, its effect to seagrass bed should be minimal.
- 6.5.40 Overall, the disappearance of seagrass beds in ST has believed the cause of serial cyclone hit in July and August 2017. Based on previous findings, the seagrass beds of both species were expected to recolonize in the mudflat as long as the vicinal water quality was normal. The whole recolonization process (from few, small patches to extensive strand) would be gradually lasting at least 2 years. From December 2017 to March 2018, there was still no recolonization of few, small patches of seagrass at the usual location (Figure 3.12 of Appendix I). It was different from the previous round (March 2015 - June 2017). Until June 2018, the new seagrass patches with small-medium size were found at the usual location (seaward side of mangrove plantation at 2.0 m C.D.) again, indicating the recolonization. However, the seagrass bed area decreased sharply to 22.5 m² in September 2018. Again it was believed that the decrease was due to the hit of the super cyclone in September 2018 (Mangkhuton 16th September, highest signal 10). From December 2018 to June 2019, the seagrass bed area increased from 404 m² to 1229 m² while the vegetation coverage is also increased (December 2018: 5-85%; March 2019: 50 -100% and June 2019: 60 - 100%). Relatively, the whole recolonization process would occur slower than the previous round (more than 2 years). From September 2019 to March 2021, the seagrass bed area in ST slightly decreased from 1200 m² to 942.05 m², which were in normal fluctuation. From March 2021 to December 2021, the seagrass bed area in ST decreased from 942.05 m² to 680m², which were in normal fluctuation. In March 2022, the seagrass bed area in ST increased significantly to approximately 2040 m², which believed to be related to more rain in current dry season. It was observed that the brown filemental algae bloom occurred at ST site in March 2022. Distribution of the algae was overlap with seagrass beds, mainly the species Halophila ovalis and the algae was grown over the top of the seagrass. In some areas, the brown filemental algae full covered the seagrass bed, refer to Figure 3.9 of Appendix I. The seagrass was still alive when checked during the field survey. Whether the algae bloom will kill seagrass in longer period time is unknown. The seagrass distritrution and health condition should be checked in coming June monitoring. The algae bloom of the brown filemental algae at the seagrass bed is disappeared as observed in June 2022, refer to Figure 3.9 of Appendix I. Seagrass in December 2022 and September 2022 have decreased compare to June 2022 due to normal seasonal change. Seagrass in March 2023 have increased compare to previous quarter due to normal seasonal change.

Impact of the HKLR project

6.5.41 It was the 43rd survey of the EM&A programme during construction period. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. The seagrass bed was recolonizing since there had been a gradual increase in the size and number from December 2018 to June 2019 after the hit of the super cyclone in September 2018. The seagrass bed area decreased from March 2021 to December 2021, which were in normal fluctuation. It is observed that the seagrass *Halophila ovalis* covered larger area than before. Total seagrass bed area significantly increased from March 2022 to June 2022 and slightly reduced in September 2022. Seagrass in March 2023 have increased compare to previous quarter due to normal seasonal change.

Intertidal Soft Shore Communities

Substratum





- 6.5.42 **Table 3.3** and **Figure 3.13 of Appendix I** show the substratum types along the horizontal transect at every tidal level in all sampling zones. The relative distribution of substratum types was estimated by categorizing the substratum types (Gravels & Boulders / Sands / Soft mud) of the ten random quadrats along the horizontal transect. The distribution of substratum types varied among tidal levels and sampling zones:
 - In TC1, high percentages of 'Gravels and Boulders' (95%) were recorded at high tidal level. At mid tidal level, 'Gravels and Boulders' was the main substratum type (70%), following by 'Soft mud' (20%). At low tidal level, 'Soft mud' was the main substratum type (90%), followed by 'Sands' (5%) and 'Gravels and Boulders' (5%).
 - In TC2, high percentages of 'Gravels and Boulders' (90%) was recorded at high tidal level, following by 'Sands' and 'Soft mud' (5%). At mid tidal level, 'Gravels and Boulders' was the main substratum type 80%), following by 'Sands' and 'Soft mud' (10%). At low tidal level, 'Soft mud' covered 75% and 'Sands' covered 15% of the transect.
 - In TC3, higher percentage of 'Gravels and Boulders' was recorded at high tidal level (60%).
 At mid tidal levels, "Gravels and Boulders' was the main substratum type (50%), following
 by 'Soft mud' (30%) and 'Sands' (20%). At low tidal level, 'Soft mud' covered 65% of the
 transect.
 - In ST, 'Gravels and Boulders' was the main substratum type (70%) at high tidal level. At mid tidal levels, 'Gravels and Boulders' and 'Soft mud' was the main substratum type 50% and 30%), following by 'Sand' (20%). At low tidal level, 'Soft mud' was the main substratum type (85%) and 'Sands' covered 10% of the transect.
- 6.5.43 There was neither consistent vertical nor horizontal zonation pattern of substratum type in all sampling zones. Such heterogeneous variation should be caused by different hydrology (e.g. wave in different direction and intensity) received by the four sampling zones.
 - Soft shore communities
- 6.5.44 Table 3.4 of Appendix I lists the total abundance, density and number of taxon of every phylum in this survey. A total of 8469 individuals were recorded. Mollusca was the most abundant phylum (total abundance 7607 ind., density 254 ind. m⁻², relative abundance 89.8%). The second and third were Arthropoda (582ind., 20 ind. m⁻², 6.9%) which followed by Annelida (126 ind., 4 ind. m⁻², 1.5%) and Sipuncula (84 ind., 3 ind. m⁻², 1.0%), respectively. The fifth was Nemertea with total abundance 42 ind., density 1 ind.m⁻² and relative abundance 0.5%. The sixth was Cnidania with total abundance 27 ind., density 1 ind.m⁻² and relative abundance 0.3%.Platyhelminthes was very low in abundances (density <0 ind. m⁻², relative abundance ≤0.0%). Moreover, the most diverse phylum was Mollusca (32 taxa) followed by Arthropoda (6 taxa). Annelida (3 taxa) and Sipuncula (2 taxa). There was 1 taxon for Nemertea, Cnidaria and Platyhelminthes.
- 6.5.45 The taxonomic resolution and complete list of recorded fauna are shown in **Annex IV and V of Appendix I** respectively. As reported in June 2018, taxonomic revision of three potamidid snail species was conducted according to the latest identification key published by Agriculture, Fisheries and Conservation Department (details see AFCD, 2018), the species names of following gastropod species were revised:
 - Cerithidea cingulata was revised as Pirenella asiatica
 - Cerithidea djadjariensis was revised as Pirenella incisa
 - Cerithidea rhizophorarum was revised as Cerithidea moerchii

Moreover, taxonomic revision was conducted on another snail species while the specie name was revised:

Batillaria bornii was revised as Clypeomorus bifasciata

- 6.5.46 In March 2021, an increased number of sea slugs and their eggs were observed in all sampling zones. It may due to the breeding season of sea slug and the increased of algae on the intertidal.
- 6.5.47 **Table 3.5 of Appendix** I shows the number of individuals, relative abundance and density of each phylum in every sampling zone. The total abundance (1,728 2,333 ind.) varied among the four sampling zones while the phyla distributions were similar. In general, Mollusca was the most dominant phylum (no. of individuals: 1,588 2,141 ind.; relative abundance 83.9 1.9%; density 212 285 ind. m⁻²). Other phyla were much lower in number of individuals. Arthropoda (89 306 ind.; 4.0 14.3%; 12 41 ind. m⁻²) was common phyla relatively. Other phyla were very low in abundance in all sampling zones.

Dominant species in every sampling zone

- 6.5.48 **Table 3.6 of Appendix I** lists the abundant species in every sampling zone. In the present survey, most of the listed abundant species were of high or very high density (>100 ind. m⁻²), which were regarded as dominant species. Few of the listed species were of low to moderate densities (42 95 ind. m⁻²). Other listed species of lower density (<42 ind. m⁻²) were regarded as common species.
- 6.5.49 In TC1, the substratum was mainly 'Gravels and Boulders' at high and mid tidal levels. At high tidal level, the rock oyster *Saccostrea cucullata* (mean density 108 ind. m⁻²; relative abundance 41%) was the dominant species found at moderate density and the gastropod *Monodonta labio* (70 ind. m⁻²; relative abundance 27%) was of low to moderate density. At mid tidal level, the rock oyster *Saccostrea cucullata* (73 ind. m⁻², 38%) was at dominant species with low to moderate density. The gastropod *Monodonta labio* (37 ind. m⁻², 20%) was at lower density. At low tidal level (main substratum type 'Soft mud'), the *Batillaria multiformis* (53 ind. m⁻², 22%) was dominant at low to moderate densities, the *Barbatia virescens* (42 ind. m⁻², 17%) and *Nodilittorina radiata* (34 ind. m⁻², 14%) were of lower density, regarded as common species.
- 6.5.50 In TC2, the substratum types were mainly 'Gravels and Boulders' at high tidal level. The rock oyster *Saccostrea cucullata* (132 ind. m⁻², 40%) was dominant at high density. The gastropod *Monodonta labio* (55 ind. m⁻², 17%) was dominant at low to moderate density. At mid tidal level (main substratum types 'Soft mud' and 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (92 ind. m⁻², 29%), gastropods *Monodonta labio* (51 ind. m⁻², 16%) and *Batillaria zonalis* (44 ind. m⁻², 14%) were dominant at low to moderate densities. Substratum types 'Soft Mud' were mainly distributed at low tidal level, the *Barbatia virescens* (42 ind. m⁻², 20%) was dominant at low to moderate densities, *Lunella granulate* (21 ind. m⁻², 10%), the *Batillaria multiformis* (21 ind. m-2, 10%) and Batillaria zonalis (22 ind. m-2, 10%) were of lower densities, regarded as common species.
- 6.5.51 In TC3, the substratum type was mainly 'Gravels and Boulders' at high tidal level. The rock oyster *Saccostrea cucullata* (122 ind. m⁻², 42%) was of dominant species at high density and the gastropod *Monodonta labio* (62 ind. m⁻², 21%) was of low to moderate density. At mid tidal level (main substratum types 'Soft mud'), the rock oyster *Saccostrea cucullata* (116 ind. m⁻², 31%) was of dominant species at high density. The gastropod *Monodonta labio* (56 ind. m⁻², 15%) was at low density level. At low tidal level, the major substratum type was 'Soft mud'. The *Lunella granulate* (44 ind. m⁻², 17%), the *Batillaria multiformis* (38 ind. m⁻², 14%), *Batillaria zonalis* (36 ind. m⁻², 14%) and the *Barbatia virescens* (34 ind. m⁻², 13%) at lower density.
- 6.5.52 In ST, the major substratum type was 'Gravels and Boulders' at high tidal level. At high tidal level, the rock oyster *Saccostrea cucullata* (120 ind. m⁻², 40%) was abundant at high density. The gastropods *Monodonta labio*(54 ind. m⁻², 18%) was at low to moderate densities and *Batillaria multiformis* (38 ind. m⁻², 13%) was at lower desity. At mid tidal level (main substratum types 'Gravels and Boulders' and 'Soft mud'), the rock oyster *Saccostrea cucullata* (111 ind. m⁻², 33%) was the dominant species at high density, and followed by the gastropod *Monodonta labio* (62 ind. m⁻², 18%) at low to moderate density. At low tidal level (major substratum: 'Soft mud'), the *Batillaria zonalis* (50 ind. m⁻², 18%) was at low to moderate demsities and *Lunella granulata* (48 ind. m⁻², 18%) was at lower density.
- 6.5.53 In general, there was no consistent zonation pattern of species distribution across all sampling zones and tidal levels. The species distribution was determined by the type of substratum



primarily. In general, rock oyster *Saccostrea cucullata* (874 ind.), gastropods *Monodonta labio* (448 ind.) and *Batillaria multiformis* (150 ind.) were the most common species on gravel and boulders substratum. *Batillaria zonalis* (130 ind.) was the most common species on sands and soft mud substrata.

Biodiversity and abundance of soft shore communities

- 6.5.54 **Table 3.7 of Appendix I** shows the mean values of species number, density, and biodiversity index *H*'and species evenness *J* of soft shore communities at every tidal level and in every sampling zone. As mentioned above, the differences among sampling zones and tidal levels were determined by the major type of substratum primarily.
- 6.5.55 Among the sampling zones, the mean species number was varied from 14 21 spp. 0.25 m⁻² among the four sampling zones. The mean densities of TC3 (311 ind. m⁻²) was higher than ST (302 ind. m⁻²) followed by TC2 (285 ind. m⁻²) and TC1 (230 ind. m⁻²). The higher densities of TC3 and ST are due to the relatively high number of individuals in each quadrat. The mean H' for TC2 was 2.23, TC3 was 2.23, TC1 was 2.10 and ST were 2.10, followed by while the mean J of TC2, TC3 and ST were 0.8, which were slightly higher than TC1 (0.77). This can be due to the relatively non-even taxa distribution.
- 6.5.56 In the present survey, no clear trend of mean species number, mean density, *H*' and *J* observed among the tidal level.
- 6.5.57 **Figures 3.14-3.17 of Appendix I** show the temporal changes of mean species number, mean density, H' and J at every tidal level and in every sampling zone along the sampling months. In general, all the biological parameters fluctuated seasonally throughout the monitoring period. Lower mean species number and density were recorded in dry season (December) but the mean H' and J fluctuated within a limited range.
- 6.5.58 From June to December 2017, there were steady decreasing trends of mean species number and density in TC2, TC3 and ST regardless of tidal levels. It might be an unfavorable change reflecting environmental stresses. The heat stress and serial cyclone hit were believed the causes during the wet season of 2017. From March 2018 to March 2023 (present survey), generally increases of mean species number and density were observed in all sampling zones. It indicated the recovery of intertidal community.

Impact of the HKLR project

6.5.59 It was the 43rd survey of the EM&A programme during the construction period. Based on the results, impacts of the HKLR project were not detected on intertidal soft shore community. Abnormal phenomena (e.g. rapid, consistent or non-seasonal decline of fauna densities and species number) were not recorded.

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7 Environmental Site Inspection and Audit

7.1 Site Inspection

- 7.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting month, four site inspections were carried out on 7, 16, 22 and 31 March 2023.
- 7.1.2 A summary of observations found during the site inspections and the follow up actions taken by the Contractor/ recommendation are described in **Table 7.1.**

Table 7.1 Summary of Environmental Site Inspections

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
7 March 2023	No particular environmental issue was recorded during the site inspection.	N.A.	N.A.
16 March 2023	No particular environmental issue was recorded during the site inspection.	N.A.	N.A.
22 March 2023	No particular environmental issue was recorded during the site inspection.	N.A.	N.A.
31 March 2023	No particular environmental issue was recorded during the site inspection.	N.A.	N.A.

7.2 Advice on the Solid and Liquid Waste Management Status

- 7.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 7.2.2 Monthly summary of waste flow table is detailed in **Appendix J**.
- 7.2.3 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

7.3 Environmental Licenses and Permits

- 7.3.1 The valid environmental licenses and permits during the reporting month are summarized in **Appendix L**.
- 7.4 Implementation Status of Environmental Mitigation Measures

- 7.4.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix M**. Most of the necessary mitigation measures were implemented properly.
- 7.4.2 Regular marine travel route for marine vessels were implemented properly in accordance to the submitted plan and relevant records were kept properly.
- 7.4.3 Dolphin Watching Plan was implemented during the reporting month. No dolphins inside the silt curtain were observed. The relevant records were kept properly.

7.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 7.5.1 For air quality, no Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at station AMS5 during the reporting month.
- 7.5.2 For construction noise, no Action and Limit Level exceedances were recorded at station NMS5 during the reporting month.
- 7.5.3 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level, turbidity level and suspended solid level were recorded during the reporting month.

7.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 7.6.1 There was no complaint received in relation to the environmental impacts during this reporting month.
- 7.6.2 The details of cumulative statistics of Environmental Complaints are provided in **Appendix K**.
- 7.6.3 No notification of summons and prosecution was received during the reporting period. Statistics on notifications of summons and successful prosecutions are summarized in **Appendix N**.



8 Future Key Issues

8.1 Construction Programme for the Coming Months

8.1.1 As informed by the Contractor, the major construction activities for April 2023 are summarized in **Table 8.1**.

Table 8.1 Construction Activities for April 2023

Site Area	Description of Activities
SHT East Portal	Landscape maintenance works
Portion X	Removal of Temporary Toe Loading Platform

8.2 Environmental Monitoring Schedule for the Coming Month

8.2.1 The tentative schedule for environmental monitoring for April 2023 is provided in **Appendix D**.

9 Conclusions

9.1 Conclusions

9.1.1 The construction phase and EM&A programme of the Contract commenced on 17 October 2012. This is the 126th Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 March 2023.

Air Quality

9.1.2 For air quality, no Action Level and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at station AMS5 during the reporting month.

Noise

9.1.3 For construction noise, no Action and Limit Level exceedances were recorded at station NMS5 during the reporting month.

Water Quality

9.1.4 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level, turbidity level and suspended solid level were recorded during the reporting month.

Dolphin

- 9.1.5 During this month of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.
- 9.1.6 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 this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (March May 2023) and the 3-month baseline monitoring period will be made.

Mudflat

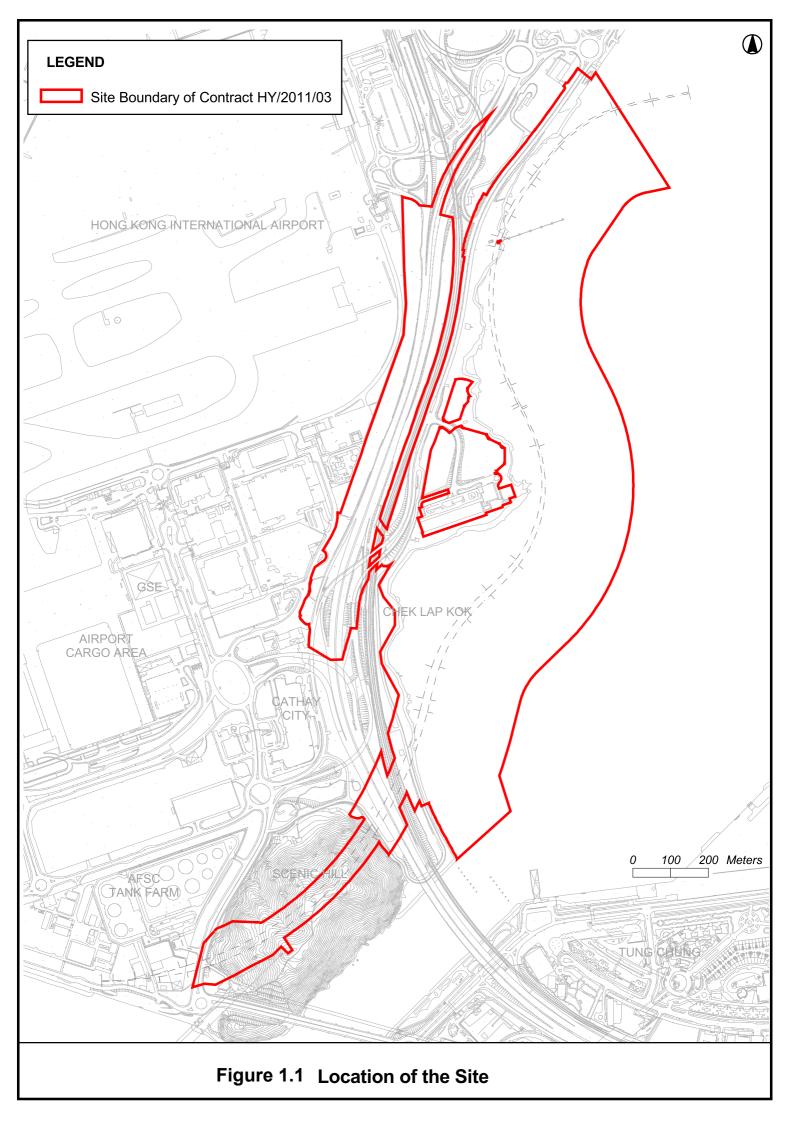
9.1.7 This measurement result was generally and relatively higher than the baseline measurement at S1, S2, S3 and S4. The mudflat level is continuously increased. The March 2023 survey results indicate that impacts of the HKLR project were not detected on intertidal soft shore community. Based on the monitoring results, no detectable impact on horseshoe crab was revealed due to HKLR project. The population change was mainly determined by seasonal variation, no abnormal phenomenon of horseshoe crab individual, such as large number of dead individuals on the shore had been reported. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. The seagrass bed was recolonizing since there had been a gradual increase in the size and number from December 2018 to June 2019 after the hit of the super cyclone in September 2018. The seagrass bed area decreased from March 2021 to December 2021, which were in normal fluctuation. It is observed that the seagrass Halophila ovalis covered larger area than before. Total seagrass bed area significantly increased from March 2022 to June 2022 and slightly reduced in September 2022. Seagrass in March 2023 have increased compared to previous quarter due to normal seasonal change.

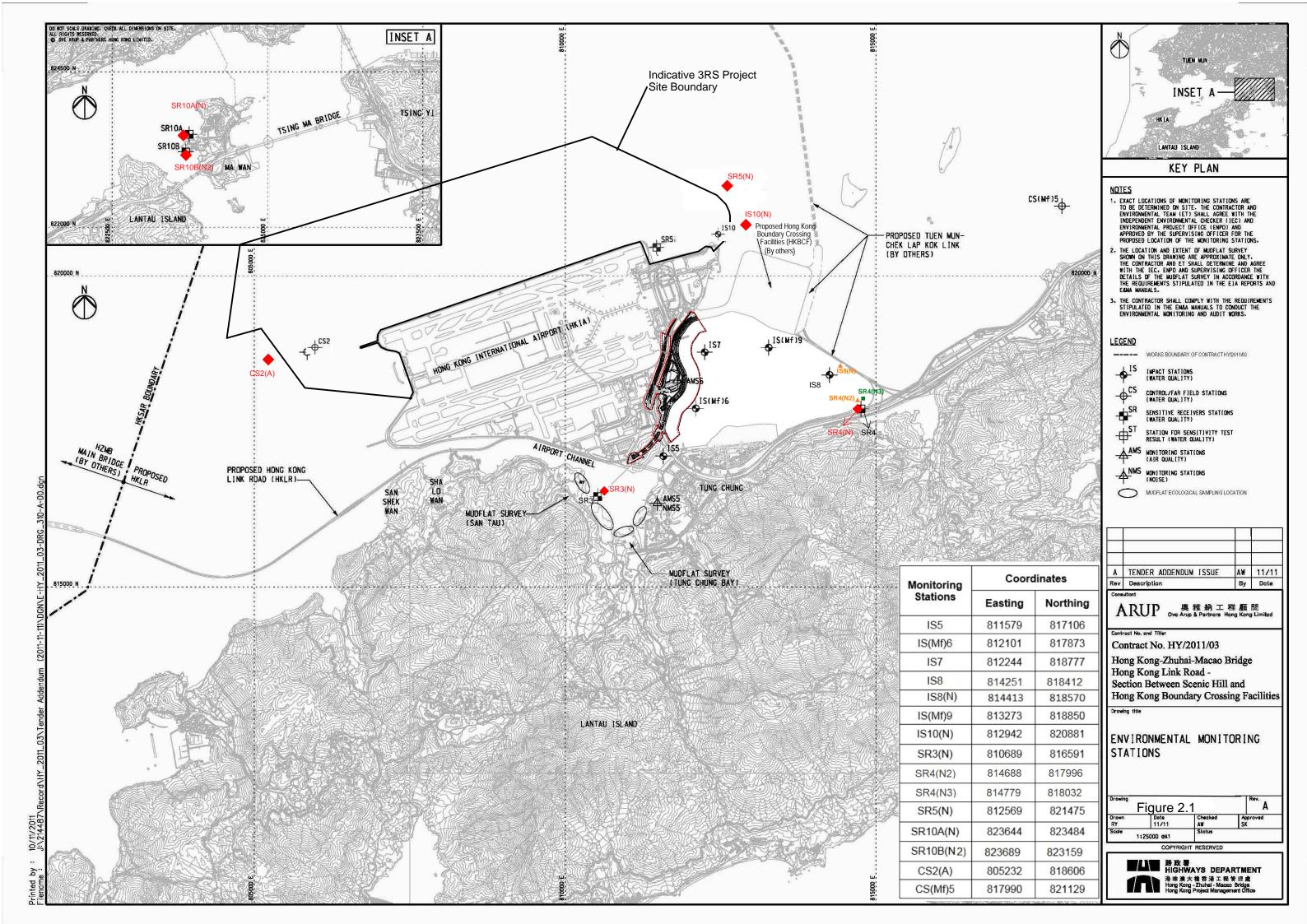
Mudflat

Environmental Site Inspection and Audit

- 9.1.8 Environmental site inspections were carried out on 7, 16, 22 and 31 March 2023. Most of the necessary mitigation measures were implemented properly.
- 9.1.9 There was no complaint received in relation to the environmental impact during the reporting period.
- 9.1.10 No notification of summons and prosecution was received during the reporting period.

FIGURES





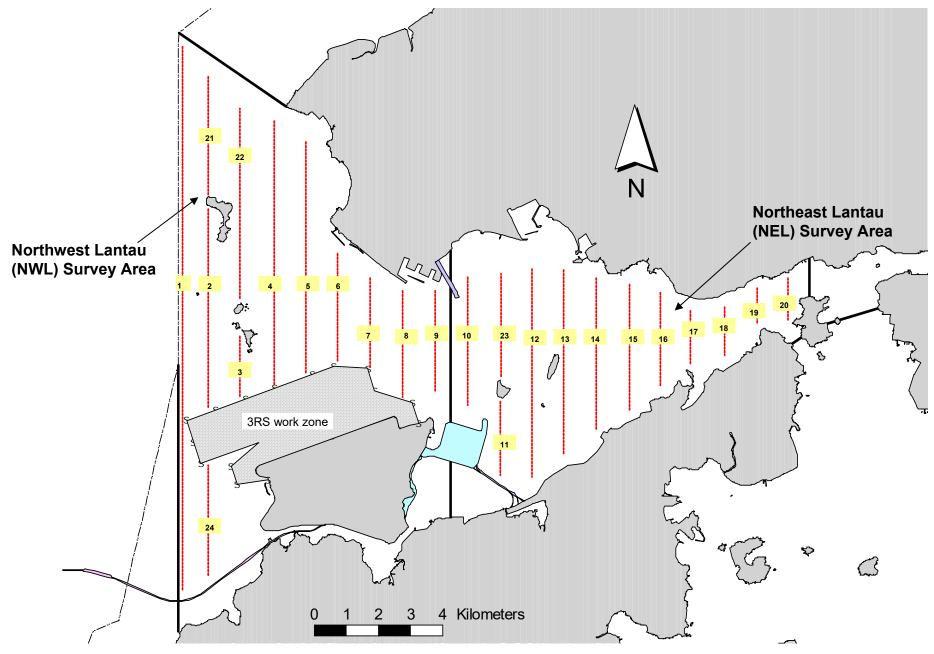


Figure 2.2. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

APPENDIX A

Environmental Management Structure

Line of communication **Project Organization for Environmental Works EPD** HyD Interface with **ENPO** TMCLKL Project Supervising Officer Representative (SOR) Independent **Environmental Checker** (IEC) **Environmental** Contractor Team (ET)

APPENDIX B

Construction Programme



Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities

Construction Programme (Mar 2023 - Jun 2023)

Description	Mar-23			Арі	-23		May-23					Jur	-23			
Description	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
Landscape maintenance works at SHT East Portal																
· ·																
Removal of Temporary Toe Loading Platform																



APPENDIX C

Calibration Certificates



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222149

Date of Receipt / 收件日期: 29 March 2022

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC22-0579)

Description / 儀器名稱

Integrating Sound Level Meter Brüel & Kjær

Manufacturer / 製造商 Model No. / 型號

Serial No./編號

2238 2800932

Supplied By / 委託者

Atkins China Limited

13/F., Wharf T&T Centre, Harbour City,

Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ 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 April 2022

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

- Fluke Everett Service Center, USA

Tested By 測試

K C Lee Engineer

Certified By 核證

H C Chan

Engineer

Date of Issue

27 April 2022

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222149

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: 3003246 was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment:

Equipment ID

CL280 CL281

Description

40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C220381 AV210017

5. Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level:

6.1.1 Reference Sound Pressure Level

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

6.1.2 Linearity

	UUT Setting				/alue	UUT
Range	Parameter	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
50 - 130	LAFP	Α	F	94.00	1	94.1 (Ref.)
				104.00]	104.1
				114.00	1	114.0

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

6.2 Time Weighting

	UUT	Setting		Applied	l Value	UUT	IEC 61672 Class 1
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
100000000000000000000000000000000000000	L _{ASP}		S			94.1	± 0.3

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222149

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{AFP}	Α	F	94.00	63 Hz	67.9	-26.2 ± 1.5
		8			125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
				8	1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
				7	4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1; -3.1)
			8	8	12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

		Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L_{CFP}	С	F	94.00	63 Hz	93.3	-0.8 ± 1.5
	ARRACOM,				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	93.2	-0.8 ± 1.6
					8 kHz	91.0	-3.0 (+2.1; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C222149

證書編號

Remarks: - UUT Microphone Model No.: 4188 & S/N: 2791360

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : \pm 0.35 dB

 $\begin{array}{lll} 250 \text{ Hz} - 500 \text{ Hz} & : \pm 0.30 \text{ dB} \\ 1 \text{ kHz} & : \pm 0.20 \text{ dB} \\ 2 \text{ kHz} - 4 \text{ kHz} & : \pm 0.35 \text{ dB} \\ 8 \text{ kHz} & : \pm 0.45 \text{ dB} \end{array}$

8 kHz : \pm 0.45 dB 12.5 kHz : \pm 0.70 dB

104 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB) 114 dB : 1 kHz : \pm 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 is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C222148

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC22-0579)

Date of Receipt / 收件日期: 29 March 2022

Description / 儀器名稱

Sound 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

 $(23 \pm 2)^{\circ}$ 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 April 2022

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
- Fluke Everett Service Center, USA

Tested By 測試

K/C Lee Engineer

Certified By 核證 HC Chan

Engineer

Date of Issue 簽發日期

27 April 2022

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222148

Certificate No.

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.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

> Equipment ID CL130 CL281 TST150A

Description

Universal Counter

C213954 Multifunction Acoustic Calibrator AV210017 Measuring Amplifier C221750

Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

requested interested			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	$1 \text{ kHz} \pm 0.1 \%$	± 0.1

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

Tel/電話: (852) 2927 2606

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 is traceable to the National 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。

Fax/傳真: (852) 2744 8986

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)

Calibrated by : P.F.Yeung Date : 12/01/2023

Sampler

Model : TE-5170 Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 15 December 2022

 Slope (m)
 : 2.06918

 Intercept (b)
 : -0.04220

 Correlation Coefficient(r)
 : 0.99997

Standard Condition

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

Calibration Condition

Pa (hpa) : 1013 Ta(K) : 293

R	Resistance dH [green liquid]		Z	X=Qstd	IC	Y
	Plate	(inch water)		(cubic		
				meter/min)		
1	18 holes	12.0	3.026	1.483	56	56.48
2	13 holes	9.2	2.649	1.301	50	50.43
3	10 holes	6.4	2.210	1.088	45	45.39
4	7 holes	4.2	1.790	0.885	37	37.32
5	5 holes	2.7	1.435	0.714	30	30.26

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

Sampler Calibration Relationship

Slope(m):33.503 Intercept(b):7.317 Correlation Coefficient(r): 0.9952

Checked by: Magnum Fan Date: 12/01/2023

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)

Calibrated by : P.F.Yeung Date : 07/03/2023

Sampler

Model : TE-5170 Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 15 December 2022

 Slope (m)
 : 2.06918

 Intercept (b)
 : -0.04220

 Correlation Coefficient(r)
 : 0.99997

Standard Condition

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

Calibration Condition

Pa (hpa) : 1021 Ta(K) : 295

R	Resistance dH [green liquid]		Z	X=Qstd	IC	Y
	Plate (inch water			(cubic		
				meter/min)		
1	18 holes	11.8	3.467	1.696	55	55.50
2	13 holes	9.0	3.027	1.484	50	50.46
3	10 holes	6.6	2.593	1.273	44	44.40
4	7 holes	4.2	2.068	1.020	37	37.34
5	5 holes	2.5	1.596	0.792	30	30.27

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

Sampler Calibration Relationship

Slope(m):28.008 Intercept(b):8.507 Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan Date: 08/03/2023



RECALIBRATION DUE DATE:

December 15, 2023

Certificate of Calibration

Calibration Certification Information

Cal. Date:

December 15, 2022

TE-5025A

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jir

Calibration Model #:

Jim Tisch

Calibrator S/N: 2454

Pa: 742.4 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4060	3.2	2.00
- 2	3	4	1	0.9980	6.4	4.00
3	5	6	1	0.8900	7.9	5.00
4	7	8	1	0.8520	8.8	5.50
5	9	10	1	0.7040	12.7	8.00

	Data Tabulation						
Vstd	Qstd $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$			Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9826	0.6988	1.4049	0.9957	0.7082	0.8914		
0.9783	0.9803	1.9868	0.9914	0.9934	1.2607		
0.9763	1.0970	2.2213	0.9894	1.1116	1.4095		
0.9751	1.1445	2.3297	0.9881	1.1598	1.4783		
0.9700	1.3778	2.8097	0.9829	1.3962	1.7829		
	m=	2.06918		m=	1.29568		
QSTD	b=	-0.04220	QA	b=	-0.02677		
	r=	0.99997		r=	0.99997		

	Calculation	S		
Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) Va= ΔVol((Pa-ΔP)/Pa)				
Qstd= Vstd/ΔTime		Va/ΔTime		
	For subsequent flow rate	e calculatio	ns:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$	

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric 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

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009

EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor		
Manufacturer / Brand :	SIBATA		
Model No.:	LD-5R		
Equipment No.:	LD-5R-002		
Serial No.:	861988		
Sensitivity Adjustment Scale Setting :	621 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:	3-May-2022

Calibration Result

 Sensitivity Adjustment Scale Setting (Before Calibration):
 621 CPM

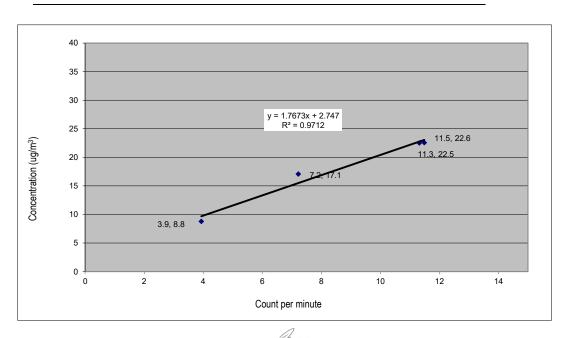
 Sensitivity Adjustment Scale Setting (After Calibration):
 621 CPM

Date (dd-mmm-yy)	Time	•	Ambient Condition Concentration (ug/m³)		Total Count	Count/Minute X-axis	
			Temp (°C)	R.H. (%)	Y-axis		
02-Jun-22	15:36	16:36	30.0	73%	22.5	679	11.3
02-Jun-22	16:42	17:42	31.4	63%	22.6	689	11.5
22-Jun-22	09:00	10:00	27.3	68%	17.1	433	7.2
22- Jun-22	12:40	13:40	27.7	63%	8.8	236	3.0

Be Linear Regression of Y or \boldsymbol{X}

Slope (K-factor): 1.7673 Intercept,b: 2.7470
Correlation coefficient (R): 0.9997

Remark: Srong Correlation (R>0.8)



Recorded by: Irene Tsang Signature: Date: 12-Jul-22

Checked by: Ruby Law Signature: Date: 12-Jul-22



ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yjp Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044

F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR W S CHAN

WORK ORDER:

HK2305984

CLIENT: **ADDRESS:** **AECOM ASIA COMPANY LIMITED** 1501-10, 15/F, TOWER 1,

GRAND CENTRAL PLAZA,

138 SHATIN RURAL COMMITTEE ROAD. SHATIN, NEW TERRITORIES, HONG KONG **SUB-BATCH:**

LABORATORY:

HONG KONG

DATE RECEIVED:

14-Feb-2023

DATE OF ISSUE:

20-Feb-2023

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/[6820 V21

Serial No./ Equipment No.:

[12A101545]/[W.026.35]

Date of Calibration:

14-February-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



HK2305984

ALS

SUB-BATCH:

0

DATE OF ISSUE:

20-Feb-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./

[12A101545]/[W.026.35]

Equipment No.: Date of Calibration:

14-February-2023

Date of Next Calibration:

14-May-2023

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading (μS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	
146.9	152	+3.5	
6667	6922	+3.8	
12890	13059	+1.3	
58670	26797	-54.3	
	Tolerance Limit (%)	±10.0	

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
2.95	2.80	-0.15	
5.80	5.73	-0.07	
7.87	7.82	-0.05	
	Tolerance Limit (mg/L)	±0.20	

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)	
4.0	4.09	+0.09	
7.0	7.08	+0.08	
10.0	10.01	+0.01	
	Tolerance Limit (pH unit)	±0.20	

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, View Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2305984

ALS

SUB-BATCH:

0

DATE OF ISSUE:

20-Feb-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./

[12A101545]/[W.026.35]

Equipment No.: Date of Calibration:

14-February-2023

Date of Next Calibration:

14-May-2023

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.2	
4	3.7	-7.5
10	10.4	+4.0
20	20.3	+1.5
50	48.1	-3.8
100	100.8	+0.8
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.02	
10	9.80	-2.0
20	19.11	-4.5
30	28.82	-3.9
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vise

Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

SUB-BATCH:

WORK ORDER:

0

DATE OF ISSUE:

20-Feb-2023

HK2305984

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[7]

Model No.: Serial No./ [YSI]/[6820 V2]

Equipment No.:

[12A101545]/[W.026.35]

Date of Calibration:

14-February-2023

Date of Next Calibration:

14-May-2023

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	11.56	+0.6
19.5	19.12	-0.4
38.5	38.42	-0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Viso Manager - Inorganics

APPENDIX D

Monitoring Schedule

Monitoring Schedule for March 2023

			monitoring oc	nedule for March 2023			
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date			1-Mar	2-Mar	3-Mar	4-Mar	5-Mar
					AMS5 - 24hr Dust		
				1 st Dolphin Monitoring			
			Water Quality Monitoring		Water Quality Monitoring		
Date	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar
	AMS5-1hr Dust, NMS5-Noise			AMS5 - 24hr Dust	AMS5-1hr Dust		
		1 st Dolphin Monitoring					
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Date	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
			AMS5 - 24hr Dust	AMS5-1hr Dust, NMS5-Noise			
		2 nd Dolphin Monitoring					
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Date	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
		AMS5 - 24hr Dust	AMS5-1hr Dust, NMS5-Noise				
		2 nd Dolphin Monitoring	Mudflat Monitoring - Ecology Water Quality Monitoring	Mudflat Monitoring - Ecology	Mudflat Monitoring - Ecology		
	Water Quality Monitoring				Water Quality Monitoring		
	Water Quality Monitoring		Mudflat Monitoring - Sedimentation Rate Monitoring		Water Quality Monitoring		
Date	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar		
	AMS5 - 24hr Dust	AMS5-1hr Dust, NMS5-Noise			AMS5 - 24hr Dust		
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		

Monitoring Schedule for April 2023

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date						1-Apr	2-Apr
Date	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
	AMS5-1hr Dust, NMS5-Noise			AMS5-1hr Dust AMS5 - 24hr Dust			
	Water Quality Monitoring	1 st Dolphin Monitoring	Water Quality Monitoring	1 st Dolphin Monitoring	Water Quality Monitoring		
Date	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
		AMS5 - 24hr Dust AMS5-1hr Dust, NMS5-Noise			AMS5 - 24hr Dust		
	Water Quality Monitoring	2 nd Dolphin Monitoring	Water Quality Monitoring	2 nd Dolphin Monitoring	Water Quality Monitoring		
Date	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
				AMS5 - 24hr Dust			
	AMS5-1hr Dust, NMS5-Noise Water Quality Monitoring		Water Quality Monitoring		AMS5-1hr Dust Water Quality Monitoring		
Date	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
			AMS5 - 24hr Dust	AMS5-1hr Dust, NMS5-Noise			
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		1

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

APPENDIX E

Monitoring Data and Graphical Plots

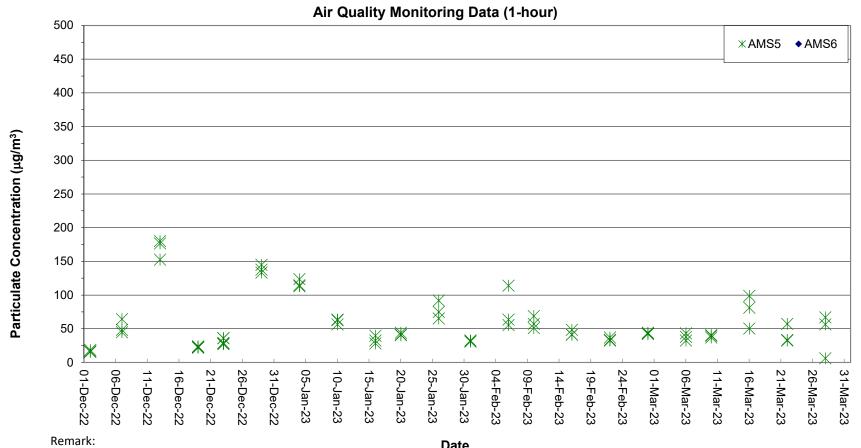
Air Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2023-03-06	AMS5	09:30	1-hr TSP	33	μg/m³
HKLR	HY/2011/03	2023-03-06	AMS5	10:30	1-hr TSP	38	μg/m³
HKLR	HY/2011/03	2023-03-06	AMS5	11:30	1-hr TSP	43	μg/m³
HKLR	HY/2011/03	2023-03-10	AMS5	09:05	1-hr TSP	41	μg/m³
HKLR	HY/2011/03	2023-03-10	AMS5	10:05	1-hr TSP	37	μg/m³
HKLR	HY/2011/03	2023-03-10	AMS5	11:05	1-hr TSP	40	μg/m³
HKLR	HY/2011/03	2023-03-16	AMS5	09:03	1-hr TSP	99	μg/m ³
HKLR	HY/2011/03	2023-03-16	AMS5	10:03	1-hr TSP	81	μg/m³
HKLR	HY/2011/03	2023-03-16	AMS5	11:03	1-hr TSP	50	μg/m³
HKLR	HY/2011/03	2023-03-22	AMS5	09:00	1-hr TSP	58	μg/m ³
HKLR	HY/2011/03	2023-03-22	AMS5	10:00	1-hr TSP	34	μg/m³
HKLR	HY/2011/03	2023-03-22	AMS5	11:00	1-hr TSP	33	μg/m ³
HKLR	HY/2011/03	2023-03-28	AMS5	10:00	1-hr TSP	6	μg/m ³
HKLR	HY/2011/03	2023-03-28	AMS5	14:30	1-hr TSP	57	μg/m³
HKLR	HY/2011/03	2023-03-28	AMS5	15:45	1-hr TSP	67	μg/m ³
HKLR	HY/2011/03	2023-03-03	AMS5	08:00	24-hr TSP	110	μg/m³
HKLR	HY/2011/03	2023-03-09	AMS5	08:00	24-hr TSP	93	μg/m ³
HKLR	HY/2011/03	2023-03-15	AMS5	08:00	24-hr TSP	64	μg/m³
HKLR	HY/2011/03	2023-03-21	AMS5	08:00	24-hr TSP	44	μg/m³
HKLR	HY/2011/03	2023-03-27	AMS5	08:00	24-hr TSP	38	μg/m³
HKLR	HY/2011/03	2023-03-31	AMS5	08:00	24-hr TSP	26	μg/m³

Remarks:

¹⁾ The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1hr and 24 hr air quality monitoring at AMS6 was temporarily suspended starting from 1 April 2021.

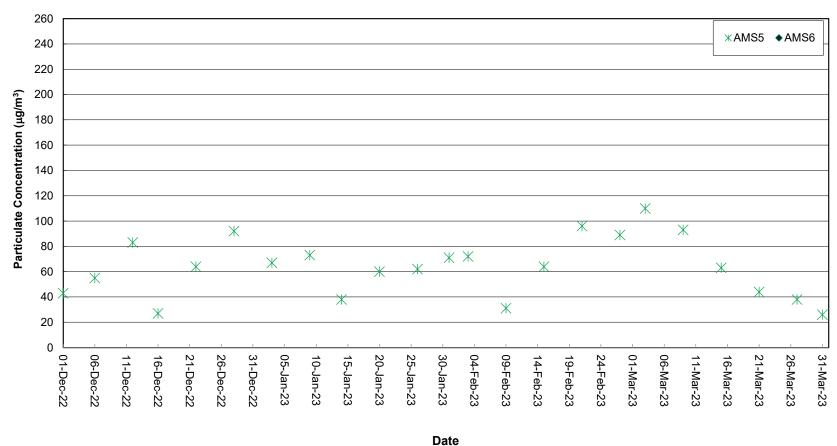
Graphical Plot of 1-hour TSP at AMS5 and AMS6



Pate
1) The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 1-hr TSP monitoring at AMS6 was temporarily suspended starting from 1 April 2021.

Graphical Plot of 24-hour TSP at AMS5 and AMS6

Air Quality Monitoring Data (24-hour)



Remarks:

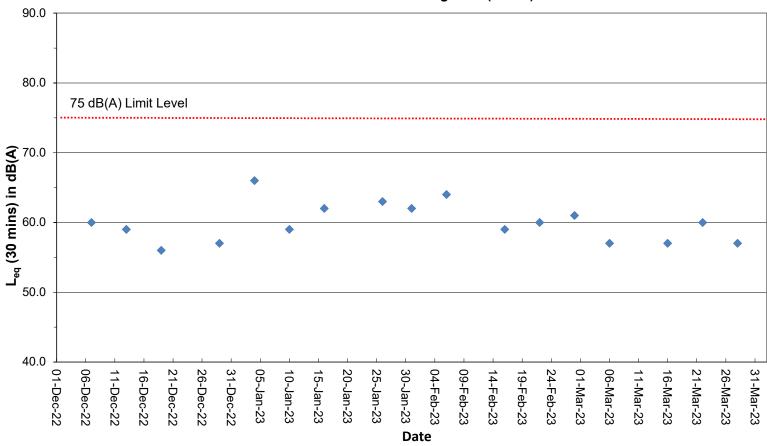
1) The existing air quality monitoring location AMS6 - Dragonair / CNAC (Group) Building (HKIA) was handed over to Airport Authority Hong Kong on 31 March 2021. 24-hr TSP monitoring at AMS6 was temporarily suspended starting from 1 April 2021.

Project	Works	Date (yyyy-mm-dd)	Station	Start Time	Wind Speed, m/s	1st s	1st set 5mins		set 5mins	3rd s	et 5mins	4th s	et 5mins	5th	et 5mins	6th	set 5mins	Over	all (30mins)*	Unit
						Leq:	55.5	Leq:	53.1	Leq:	53.1	Leq:	54.8	Leq:	54.4	Leq:	54.6	Leq:	57	
HKLR	HY/2011/03	2023-03-06	NMS5	10:05	<5	L10:	58.5	L10:	55.5	L10:	55.0	L10:	57.5	L10:	57.0	L10:	56.0	L10:	60	dB(A)
						L90:	50.5	L90:	49.5	L90:	50.0	L90:	51.5	L90:	51.0	L90:	53.0	L90:	54	, ,
						Leq:	52.7	Leq:	53.9	Leq:	54.3	Leq:	55.3	Leq:	53.7	Leq:	55.9	Leq:	57	
HKLR	HY/2011/03	2023-03-16	NMS5	13:36	<5	L10:	54.0	L10:	55.5	L10:	56.0	L10:	57.5	L10:	55.0	L10:	57.5	L10:	59	dB(A)
111/2011/00					L90:	49.5	L90:	51.5	L90:	51.5	L90:	51.5	L90:	51.0	L90:	51.5	L90:	54		
						Leq:	55.2	Leq:	58.1	Leq:	55.1	Leq:	59.3	Leq:	56.1	Leq:	55.4	Leq:	60	
HKLR	HY/2011/03	2023-03-22	NMS5	09:24	<5	L10:	56.5	L10:	57.0	L10:	57.0	L10:	63.0	L10:	57.0	L10:	57.5	L10:	62	dB(A)
						L90:	52.5	L90:	52.5	L90:	52.5	L90:	53.0	L90:	53.0	L90:	52.5	L90:	56	
						Leq:	54.3	Leq:	53.1	Leq:	52.6	Leq:	53.5	Leq:	54.0	Leq:	53.8	Leq:	57	
HKLR	HY/2011/03	2023-03-28	NMS5	11:19	<5 L1	L10:	57.0	L10:	55.5	L10:	54.0	L10:	55.5	L10:	56.0	L10:	56.0	L10:	59	dB(A)
						L90:	50.5	L90:	50.0	L90:	50.0	L90:	50.5	L90:	51.0	L90:	51.0	L90:	54	

Remark: (1)* A facade correction of +3 dB(A) was applied to the measured noise level.

Graphical Plot of Noise Levels at NMS5

Continuous Noise Monitoring Data (NMS5)



Remarks:

(1) A facade correction of +3 dB(A) was applied to the measured noise level.

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:15	1.0	Surface	1	1	19.39	7.81	33.53	95.80	6.4	3.3	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:16	1.0	Surface	1	2	19.50	7.80	33.47	96.60	6.5	3.3	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:15	4.3	Middle	2	1	19.22	7.79	33.69	95.10	6.4	3.6	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:15	4.3	Middle	2	2	19.23	7.79	33.68	94.80	6.4	3.5	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:15	7.5	Bottom	3	1	19.22	7.79	33.70	95.30	6.4	3.7	1.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS5	20:15	7.5	Bottom	3	2	19.21	7.79	33.71	95.60	6.4	3.7	1.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)6	20:24	1.0	Surface	1	1	19.52	7.82	33.46	99.20	6.6	2.9	3.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)6	20:24	1.0	Surface	1	2	19.48	7.82	33.48	98.60	6.6	2.9	3.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)6	20:24	2.2	Bottom	3	1	19.47	7.82	33.53	98.20	6.6	3.0	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)6	20:24	2.2	Bottom	3	2	19.42	7.82	33.57	97.90	6.5	3.1	2.2
HKLR HKLR	HY/2011/03	2023-03-01 2023-03-01	Mid-Ebb	Fine	IS7	20:34 20:34	1.0	Surface	1	2	19.50 19.48	7.82 7.82	33.47 33.49	98.20 98.40	6.6	3.0 3.1	3.0 2.7
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Ebb Mid-Ebb	Fine Fine	IS7	20:34	1.0 2.3	Surface	3	1	19.48	7.82	33.49	98.40	6.6 6.6	3.1	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS7	20:34	2.3	Bottom Bottom	3	2	19.45	7.82	33.56	98.40	6.6	3.2	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS8(N)	20.33	1.0	Surface	1	1	19.45	7.80	33.49	97.40	6.5	3.2	2.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS8(N)	21:12	1.0	Surface	1	2	19.45	7.81	33.49	97.60	6.5	3.2	2.5
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS8(N)	21:12	3.0	Bottom	3	1	19.45	7.80	33.54	97.40	6.5	3.3	3.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS8(N)	21:11	3.0	Bottom	3	2	19.37	7.80	33.59	96.70	6.5	3.5	3.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)9	20:45	1.0	Surface	1	1	19.48	7.82	33.48	98.00	6.5	3.0	3.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)9	20:43	1.0	Surface	1	2	19.47	7.81	33.49	97.80	6.5	3.1	2.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)9	20:45	2.7	Bottom	3	1	19.44	7.81	33.55	97.80	6.5	3.3	2.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS(Mf)9	20:44	2.7	Bottom	3	2	19.41	7.81	33.56	97.90	6.5	3.3	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	21:00	1.0	Surface	1	1	19.87	8.20	31.19	95.40	8.1	2.4	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	20:59	1.0	Surface	1	2	19.90	8.21	31.18	95.60	8.1	2.5	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	20:58	5.2	Middle	2	1	19.42	8.18	31.39	92.20	7.9	2.7	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	21:00	5.2	Middle	2	2	19.46	8.19	31.37	92.50	7.9	2.6	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	20:58	9.4	Bottom	3	1	19.35	8.17	31.43	92.30	7.9	2.7	2.9
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	IS10(N)	20:59	9.4	Bottom	3	2	19.34	8.17	31.45	92.50	7.9	2.8	2.5
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR3(N)	20:03	1.0	Surface	1	1	19.48	7.82	33.48	98.70	6.6	3.5	1.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR3(N)	20:04	1.0	Surface	1	2	19.51	7.82	33.45	99.70	6.7	3.4	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR3(N)	20:04	2.3	Bottom	3	1	19.46	7.82	33.51	98.40	6.6	3.6	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR3(N)	20:03	2.3	Bottom	3	2	19.41	7.81	33.56	97.80	6.6	3.7	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR4(N3)	21:02	1.0	Surface	1	1	19.45	7.81	33.51	97.20	6.5	3.5	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR4(N3)	21:01	1.0	Surface	1	2	19.45	7.81	33.50	97.30	6.5	3.7	1.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR4(N3)	21:01	2.8	Bottom	3	1	19.44	7.80	33.55	97.20	6.5	3.9	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR4(N3)	21:01	2.8	Bottom	3	2	19.45	7.80	33.55	97.10	6.5	3.9	2.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:47	1.0	Surface	1	1	19.84	8.23	31.21	92.80	7.9	2.3	1.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:49	1.0	Surface	1	2	19.84	8.21	31.20	93.60	7.9	2.4	1.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:48	4.7	Middle	2	1	19.38	8.18	31.41	90.70	7.8	2.5	1.7
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:47	4.7	Middle	2	2	19.36	8.20	31.43	90.50	7.8	2.3	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:47	8.3	Bottom	3	1	19.30	8.20	31.46	90.40	7.8	2.6	2.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR5(N)	20:48	8.3	Bottom	3	2	19.31	8.17	31.46	90.50	7.8	2.5	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10A(N)	21:48	1.0	Surface	1	1	19.02	8.21	32.13	95.80	8.2	2.2	3.9
HKLR HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10A(N)	21:49 21:48	1.0	Surface	2	2	19.00 18.99	8.20 8.20	32.15 32.16	95.90 95.50	8.2 8.2	2.1	3.5
HKLR	HY/2011/03 HY/2011/03	2023-03-01 2023-03-01	Mid-Ebb Mid-Ebb	Fine Fine	SR10A(N) SR10A(N)	21:48	6.2 6.2	Middle Middle	2	2	18.99	8.20	32.16	95.60	8.2	2.3	3.0 2.8
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10A(N)	21:49	11.3	Bottom	3	1	18.98	8.20	32.16	95.50	8.2	2.5	1.8
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10A(N)	21:48	11.3	Bottom	3	2	18.99	8.20	32.16	95.60	8.2	2.5	1.6
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10A(N) SR10B(N2)	21:49	1.0	Surface	1	1	19.17	8.20	32.16	96.10	8.2	2.4	2.8
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10B(N2)	21:59	1.0	Surface	1	2	19.06	8.20	32.11	96.30	8.2	2.0	3.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10B(N2)	21:58	3.6	Middle	2	1	19.02	8.20	32.11	95.40	8.1	2.1	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10B(N2)	21:59	3.6	Middle	2	2	19.02	8.20	32.13	96.00	8.2	2.2	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10B(N2)	21:58	6.2	Bottom	3	1	19.01	8.20	32.14	95.10	8.1	2.2	1.7
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	SR10B(N2)	21:59	6.2	Bottom	3	2	19.03	8.20	32.13	96.00	8.2	2.2	1.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:58	1.0	Surface	1	1	19.01	8.26	33.01	106.90	9.0	2.6	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:59	1.0	Surface	1	2	19.03	8.26	33.01	107.00	9.0	2.5	1.9
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:59	3.1	Middle	2	1	18.83	8.25	32.99	106.20	9.0	2.8	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:58	3.1	Middle	2	2	18.79	8.26	32.99	106.20	9.0	2.9	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:58	5.2	Bottom	3	1	18.71	8.25	32.96	106.20	9.0	3.0	2.5
TINEIN	.11/2011/03	2023 03-01	IVIIG-LUU	11110	C32(A)	15.50	J.2	DOLLOIN	,	<u> </u>	10./1	0.23	32.30	100.20	5.0	5.0	2.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS2(A)	19:59	5.2	Bottom	3	2	18.79	8.25	32.94	106.20	9.0	3.1	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS(Mf)5	21:48	1.0	Surface	1	1	19.47	7.81	33.60	95.00	6.3	3.5	3.3
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS(Mf)5	21:49	1.0	Surface	1	2	19.46	7.81	33.61	95.20	6.3	3.3	3.6
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS(Mf)5	21:48	6.3	Middle	2	1	19.18	7.79	33.92	93.20	6.2	3.5	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS(Mf)5	21:48	6.3	Middle	2	2	19.18	7.79	33.93	93.80	6.3	3.5	3.1
HKLR	HY/2011/03	2023-03-01	Mid-Ebb	Fine	CS(Mf)5	21:48	11.5	Bottom	3	1	19.20	7.79	33.69	93.50	6.2	3.6	2.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-01 2023-03-01	Mid-Ebb Mid-Flood	Fine Fine	CS(Mf)5 IS5	21:48 9:37	11.5 1.0	Bottom	3 1	2 1	19.18 19.35	7.79 7.81	33.94 33.54	93.90 94.60	6.3 6.3	3.7 3.1	2.4 2.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS5	9:36	1.0	Surface Surface	1	2	19.39	7.81	33.55	96.70	6.5	3.0	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS5	9:37	4.3	Middle	2	1	19.14	7.79	33.72	93.30	6.2	3.2	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS5	9:36	4.3	Middle	2	2	19.14	7.79	33.72	94.40	6.3	3.0	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS5	9:36	7.6	Bottom	3	1	19.12	7.79	33.79	93.90	6.2	3.7	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS5	9:36	7.6	Bottom	3	2	19.12	7.79	33.77	95.30	6.3	3.7	1.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS(Mf)6	9:25	1.0	Surface	1	1	19.46	7.81	33.49	96.90	6.5	2.8	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS(Mf)6	9:25	1.0	Surface	1	2	19.49	7.81	33.46	97.00	6.5	2.9	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS(Mf)6	9:25	2.2	Bottom	3	1	19.35	7.80	33.59	96.70	6.4	2.9	3.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS(Mf)6	9:25	2.2	Bottom	3	2	19.39	7.81	33.55	96.60	6.4	3.1	3.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS7	9:15	1.0	Surface	1	1	19.50	7.81	33.45	96.90	6.5	2.7	2.6
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS7	9:15	1.0	Surface	1	2	19.45	7.81	33.50	96.50	6.4	2.8	2.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS7	9:15	2.3	Bottom	3	1	19.43	7.80	33.51	96.40	6.4	3.0	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS7	9:15	2.3	Bottom	3	2	19.38	7.80	33.54	96.60	6.4	2.9	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS8(N)	8:42	1.0	Surface	1	1	19.52	7.81	33.43	97.80	6.5	3.0	1.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS8(N)	8:43	1.0	Surface	1	2	19.43	7.81	33.47	97.80	6.5	3.1	1.6
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS8(N)	8:42	3.0	Bottom	3	1	19.36	7.80	33.59	97.10	6.5	3.2	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS8(N)	8:42	3.0	Bottom	3	2	19.27	7.80	33.65	96.30	6.4	3.2	2.5
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-01 2023-03-01	Mid-Flood Mid-Flood	Fine	IS(Mf)9 IS(Mf)9	9:06 9:07	1.0	Surface	1	2	19.42 19.47	7.81 7.81	33.50 33.45	96.20 96.50	6.4 6.4	3.0 2.9	1.5 1.8
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Flood	Fine Fine	IS(Mf)9	9:07	2.6	Surface Bottom	3	1	19.47	7.81	33.45	95.90	6.4	3.3	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS(Mf)9	9:06	2.6	Bottom	3	2	19.29	7.80	33.59	95.80	6.4	3.2	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:59	1.0	Surface	1	1	19.37	8.20	31.33	93.60	8.0	2.4	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:58	1.0	Surface	1	2	19.38	8.21	31.32	93.90	8.0	2.5	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:57	5.4	Middle	2	1	19.35	8.20	31.35	93.60	8.0	2.5	3.1
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:58	5.4	Middle	2	2	19.35	8.20	31.34	93.60	8.0	2.4	3.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:57	9.7	Bottom	3	1	19.34	8.20	31.35	93.70	8.0	2.6	3.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	IS10(N)	8:58	9.7	Bottom	3	2	19.37	8.21	31.34	93.60	8.0	2.7	4.0
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR3(N)	9:48	1.0	Surface	1	1	19.42	7.82	33.50	95.80	6.4	3.4	3.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR3(N)	9:48	1.0	Surface	1	2	19.42	7.82	33.52	95.60	6.4	3.5	3.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR3(N)	9:48	2.2	Bottom	3	1	19.38	7.81	33.56	95.50	6.4	3.6	6.1
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR3(N)	9:48	2.2	Bottom	3	2	19.33	7.81	33.59	95.00	6.3	3.7	5.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR4(N3)	8:52	1.0	Surface	1	1	19.38	7.81	33.51	96.20	6.4	2.9	4.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR4(N3)	8:52	1.0	Surface	1	2	19.47	7.81	33.45	96.40	6.4	2.9	4.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR4(N3)	8:52	3.1	Bottom	3	1	19.36	7.80	33.60	95.80	6.4	2.9	2.4
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-01 2023-03-01	Mid-Flood Mid-Flood	Fine Fine	SR4(N3) SR5(N)	8:52 9:08	3.1 1.0	Bottom Surface	1	2	19.27 19.38	7.80 8.20	33.65 31.32	96.10 92.80	6.4 7.9	2.9	2.5 2.9
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Flood	Fine	SR5(N)	9:08	1.0	Surface	1	2	19.36	8.20	31.32	92.80	7.9	2.4	3.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR5(N)	9:08	4.7	Middle	2	1	19.36	8.20	31.32	92.60	7.9	2.5	2.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR5(N)	9:07	4.7	Middle	2	2	19.37	8.20	31.32	92.70	7.9	2.6	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR5(N)	9:08	8.4	Bottom	3	1	19.37	8.20	31.32	92.70	7.9	2.6	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR5(N)	9:07	8.4	Bottom	3	2	19.36	8.20	31.32	92.70	7.9	2.7	1.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	1.0	Surface	1	1	19.02	8.20	31.85	94.60	8.1	2.4	2.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	1.0	Surface	1	2	18.99	8.19	31.87	94.60	8.1	2.3	2.9
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	6.3	Middle	2	1	18.94	8.19	31.94	94.30	8.1	2.4	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	6.3	Middle	2	2	18.96	8.19	31.93	94.30	8.1	2.5	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	11.5	Bottom	3	1	18.95	8.19	31.94	94.20	8.1	2.5	1.8
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10A(N)	8:08	11.5	Bottom	3	2	18.97	8.19	31.93	94.20	8.1	2.5	1.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:58	1.0	Surface	1	1	19.02	8.19	31.85	94.70	8.1	2.3	1.5
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:58	1.0	Surface	1	2	19.01	8.19	31.85	94.80	8.1	2.2	1.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:57	3.7	Middle	2	1	18.97	8.19	31.92	94.60	8.1	2.4	1.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:58	3.7	Middle	2	2	18.95	8.19	31.93	94.40	8.1	2.3	1.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:58	6.3	Bottom	3	1	18.98	8.19	31.92	94.50	8.1	2.5	2.6
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	SR10B(N2)	7:57	6.3	Bottom	3	2	18.95	8.19	31.93	94.60	8.1	2.4	2.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	1.0	Surface	1	1	19.28	8.32	31.86	101.80	8.6	2.6	3.0
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	1.0	Surface	1	2	19.28	8.32	31.89	101.60	8.5	2.6	2.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	3.2	Middle	2	1	18.87	8.29	32.31	101.10	8.6	2.8	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	3.2	Middle	2	2	18.77	8.28	32.45	100.70	8.6	2.7	2.2
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	5.4	Bottom	3	1	18.88	8.29	32.39	100.50	8.5	2.8	1.7
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS2(A)	10:00	5.4	Bottom	3	2	18.80	8.28	32.45	100.30	8.5	2.8	1.3
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS(Mf)5	8:01	1.0	Surface	1	1	19.49	7.80	33.51	96.60	6.4	2.6	2.1
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS(Mf)5	8:00	1.0	Surface	1	2	19.43	7.79	33.57	96.00	6.4	2.7	2.4
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS(Mf)5	8:01	6.2	Middle	2	1	19.15	7.79	33.84	94.00	6.3	2.8	3.0
HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS(Mf)5	8:00	6.2	Middle	2	2	19.15	7.78 7.78	33.85	94.20	6.3	2.8	2.7
HKLR HKLR	HY/2011/03	2023-03-01	Mid-Flood	Fine	CS(Mf)5	8:00	11.3	Bottom	3	1	19.14		33.89	93.90	6.3	3.1	3.6
HKLR	HY/2011/03 HY/2011/03	2023-03-01	Mid-Flood Mid-Ebb	Fine	CS(Mf)5	8:01 22:07	11.3	Bottom	3	2	19.16 19.69	7.79 7.84	33.89 33.91	94.20 97.00	6.3	3.1	3.2 4.4
HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Ebb	Fine Fine	IS5 IS5	22:07	1.0	Surface Surface	1	2	19.78	7.84	33.91	98.30	6.4 6.5	3.2	4.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS5	22:06	4.3	Middle	2	1	19.53	7.84	34.28	96.40	6.4	3.4	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS5	22:07	4.3	Middle	2	2	19.55	7.82	34.27	96.30	6.4	3.3	5.6
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS5	22:07	7.5		3	1	19.54	7.82	34.27	96.70	6.4	3.7	6.4
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS5	22:07	7.5	Bottom Bottom	3	2	19.54	7.82	34.27	96.70	6.4	3.7	6.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)6	22:17	1.0	Surface	1	1	19.76	7.85	33.87	98.60	6.5	3.0	6.7
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)6	22:17	1.0	Surface	1	2	19.72	7.85	33.89	97.90	6.5	2.9	7.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)6	22:17	2.2	Bottom	3	1	19.72	7.85	34.01	96.90	6.4	3.3	7.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)6	22:17	2.2	Bottom	3	2	19.66	7.85	34.04	96.40	6.4	3.3	7.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS7	22:27	1.0	Surface	1	1	19.75	7.85	33.88	98.60	6.5	3.1	7.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS7	22:26	1.0	Surface	1	2	19.73	7.85	33.90	98.70	6.5	3.3	7.5
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS7	22:26	2.3	Bottom	3	1	19.69	7.85	34.08	98.60	6.5	3.3	6.7
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS7	22:26	2.3	Bottom	3	2	19.70	7.84	34.03	98.50	6.5	3.3	6.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS8(N)	23:03	1.0	Surface	1	1	19.71	7.84	33.90	97.00	6.4	3.3	5.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS8(N)	23:04	1.0	Surface	1	2	19.70	7.85	33.87	97.60	6.5	3.3	5.5
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS8(N)	23:04	3.1	Bottom	3	1	19.69	7.83	34.04	97.30	6.4	3.4	7.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS8(N)	23:03	3.1	Bottom	3	2	19.62	7.83	34.12	96.60	6.4	3.6	7.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)9	22:37	1.0	Surface	1	1	19.74	7.85	33.89	98.40	6.5	3.0	8.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)9	22:37	1.0	Surface	1	2	19.73	7.84	33.89	98.00	6.5	3.1	7.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)9	22:37	2.6	Bottom	3	1	19.70	7.84	34.07	98.10	6.5	3.3	9.6
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS(Mf)9	22:37	2.6	Bottom	3	2	19.66	7.83	34.08	98.00	6.5	3.3	9.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:51	1.0	Surface	1	1	19.87	7.91	33.25	92.50	6.3	3.1	7.0
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:50	1.0	Surface	1	2	19.83	7.91	33.27	92.00	6.3	3.1	6.6
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:50	5.2	Middle	2	1	19.56	7.90	33.68	91.40	6.2	3.3	6.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:51	5.2	Middle	2	2	19.59	7.91	33.61	91.40	6.2	3.3	5.7
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:51	9.3	Bottom	3	1	19.64	7.91	33.58	91.40	6.2	3.4	5.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	IS10(N)	22:50	9.3	Bottom	3	2	19.54	7.90	33.70	91.10	6.2	3.4	5.5
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR3(N)	21:55	1.0	Surface	1	1	19.76	7.86	33.89	99.80	6.6	3.4	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR3(N)	21:55	1.0	Surface	1	2	19.79	7.86	33.88	100.50	6.6	3.4	5.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR3(N)	21:55	2.2	Bottom	3	1	19.75	7.86	33.95	99.20	6.6	3.6	6.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR3(N)	21:55	2.2	Bottom	3	2	19.70	7.85	34.00	98.30	6.5	3.7	6.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR4(N3)	22:54	1.0	Surface	1	1	19.70	7.85	33.92	96.90	6.4	3.4	4.7
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR4(N3)	22:54	1.0	Surface	1	2	19.70	7.84	33.89	96.70	6.4	3.6	4.5
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR4(N3)	22:54	2.8	Bottom	3	1	19.68	7.83	34.04	95.70	6.3	3.7	5.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR4(N3)	22:54	2.8	Bottom	3	2	19.70	7.83	34.07	96.30	6.4	3.8	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:41	1.0	Surface	1	1	19.82	7.91	33.28	93.00	6.3	3.0	4.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:42	1.0	Surface	1	2	19.87	7.91	33.25	93.20	6.3	3.0	5.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:42	4.7	Middle	2	1	19.64	7.91	33.52	91.90	6.3	3.1	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:41	4.7	Middle	2	2	19.64	7.91	33.52	92.20	6.3	3.1	5.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:41	8.4	Bottom	3	1	19.62	7.91	33.59	92.80	6.3	3.3	6.6
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR5(N)	22:42	8.4	Bottom	3	2	19.64	7.91	33.58	92.60	6.3	3.4	6.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:39	1.0	Surface	1	1	19.85	7.91	33.32	92.60	6.3	2.8	5.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:38	1.0	Surface	1	2	19.80	7.91	33.32	92.20	6.3	2.8	6.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:39	6.8	Middle	2	1	19.54	7.90	33.77	90.20	6.2	3.0	5.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:38	6.8	Middle	2	2	19.55	7.90	33.75	90.70	6.2	3.0	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:38	12.5	Bottom	3	1	19.55	7.90	33.75	91.70	6.3	3.1	4.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10A(N)	23:39	12.5	Bottom	3	2	19.55	7.90	33.75	90.80	6.2	3.1	4.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10B(N2)	23:50	1.0	Surface	1	1	19.84	7.91	33.37	92.50	6.3	2.6	4.2
HKLR HKLR	HY/2011/03	2023-03-03 2023-03-03	Mid-Ebb Mid-Ebb	Fine	SR10B(N2)	23:50 23:50	1.0 3.9	Surface	2	2 1	19.81 19.60	7.91 7.91	33.35 33.58	92.70	6.3	2.6	4.5 5.4
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Ebb	Fine Fine	SR10B(N2) SR10B(N2)	23:50	3.9	Middle Middle	2	2	19.61	7.91	33.58	91.30 91.80	6.3	2.7	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10B(N2)	23:49	6.8	Bottom	3	1	19.66	7.91	33.63	92.70	6.3	2.7	6.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	SR10B(N2)	23:50	6.8	Bottom	3	2	19.58	7.90	33.68	91.70	6.3	2.9	6.4
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:53	1.0	Surface	1	1	19.82	7.90	33.26	93.90	6.4	2.8	5.0
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:52	1.0	Surface	1	2	19.82	7.91	33.27	94.00	6.4	2.8	4.5
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:53	3.3	Middle	2	1	19.66	7.91	33.47	93.20	6.4	3.0	5.6
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:52	3.3	Middle	2	2	19.63	7.91	33.49	92.90	6.3	3.0	5.3
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:53	5.5	Bottom	3	1	19.70	7.91	33.49	93.50	6.4	3.1	6.0
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS2(A)	21:52	5.5	Bottom	3	2	19.59	7.91	33.61	93.40	6.4	3.1	6.3
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS(Mf)5	23:39	1.0	Surface	1	1	19.65	7.84	33.93	93.30	6.1	3.3	3.0
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Ebb Mid-Ebb	Fine Fine	CS(Mf)5 CS(Mf)5	23:39	1.0 6.3	Surface Middle	2	2 1	19.65 19.15	7.84 7.79	33.93 34.57	94.10 90.80	6.2 6.0	3.1 3.4	3.4 4.1
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS(Mf)5	23:39	6.3	Middle	2	2	19.14	7.79	34.58	90.70	6.0	3.3	3.8
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS(Mf)5	23:39	11.6	Bottom	3	1	19.16	7.80	33.67	89.20	5.9	3.5	4.9
HKLR	HY/2011/03	2023-03-03	Mid-Ebb	Fine	CS(Mf)5	23:38	11.6	Bottom	3	2	19.12	7.80	34.58	89.50	5.9	3.5	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:07	1.0	Surface	1	1	19.55	7.84	33.91	91.30	6.0	3.2	6.1
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:06	1.0	Surface	1	2	19.59	7.84	33.92	93.40	6.2	3.1	5.7
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:07	4.3	Middle	2	1	19.25	7.79	34.35	90.00	5.9	3.2	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:06	4.3	Middle	2	2	19.26	7.80	34.35	90.90	6.0	3.2	5.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:06	7.5	Bottom	3	1	19.17	7.79	34.46	89.90	5.9	3.6	4.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS5	12:06	7.5	Bottom	3	2	19.25	7.79	34.43	90.90	5.9	3.7	4.4
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Flood Mid-Flood	Sunny	IS(Mf)6 IS(Mf)6	11:56 11:56	1.0	Surface Surface	1	2	19.67 19.70	7.84 7.85	33.90 33.87	96.30 96.30	6.3	3.0	5.3 4.9
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS(Mf)6	11:56	2.2	Bottom	3	1	19.58	7.83	34.06	96.00	6.3	3.2	6.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS(Mf)6	11:56	2.2	Bottom	3	2	19.62	7.84	34.00	96.00	6.3	3.3	6.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS7	11:45	1.0	Surface	1	1	19.67	7.84	33.92	95.50	6.3	3.0	4.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS7	11:46	1.0	Surface	1	2	19.71	7.85	33.85	96.00	6.3	2.9	4.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS7	11:45	2.3	Bottom	3	1	19.65	7.84	33.99	95.50	6.3	3.3	5.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS7	11:45	2.3	Bottom	3	2	19.61	7.84	34.00	95.60	6.3	3.2	5.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS8(N)	11:09	1.0	Surface	1	1	19.70	7.84	33.82	95.50	6.3	3.1	5.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS8(N)	11:09	1.0	Surface	1	2	19.63	7.84	33.86	95.40	6.3	3.2	5.7
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS8(N)	11:09	3.1	Bottom	3	1	19.57	7.83	34.10	95.30	6.3	3.4	6.8
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Flood Mid-Flood	Sunny	IS8(N) IS(Mf)9	11:09 11:35	3.1 1.0	Bottom	1	2 1	19.50 19.67	7.83 7.85	34.17 33.87	93.80 95.20	6.2 6.3	3.3 3.2	6.4 4.3
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny Sunny	IS(Mf)9	11:35	1.0	Surface Surface	1	2	19.67	7.85	33.83	95.60	6.3	3.2	4.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS(Mf)9	11:35	2.5	Bottom	3	1	19.66	7.84	34.00	94.50	6.2	3.5	4.9
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS(Mf)9	11:35	2.5	Bottom	3	2	19.53	7.84	34.01	93.80	6.2	3.5	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:31	1.0	Surface	1	1	19.95	7.91	33.23	93.40	6.4	2.7	5.1
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:30	1.0	Surface	1	2	19.82	7.90	33.31	92.70	6.3	2.8	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:31	5.3	Middle	2	1	19.53	7.90	33.72	91.30	6.2	2.9	4.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:30	5.3	Middle	2	2	19.52	7.90	33.73	91.30	6.2	2.9	4.8
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:30	9.6	Bottom	3	1	19.52	7.90	33.77	92.50	6.3	3.1	4.1
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	IS10(N)	11:31	9.6	Bottom	3	2	19.58	7.90	33.69	92.40	6.3	3.0	3.8
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR3(N)	12:16	1.0	Surface	1	1	19.65	7.85	33.88	94.00	6.2	3.3	4.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Flood	Sunny	SR3(N)	12:16 12:16	1.0 2.2	Surface	3	2	19.63 19.60	7.84 7.84	33.91 34.02	93.50 92.90	6.2 6.1	3.4 3.6	4.2 5.3
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood Mid-Flood	Sunny Sunny	SR3(N) SR3(N)	12:16	2.2	Bottom Bottom	3	2	19.53	7.84	34.02	91.90	6.1	3.5	5.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR4(N3)	11:21	1.0	Surface	1	1	19.66	7.84	33.83	94.90	6.3	3.0	5.7
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR4(N3)	11:20	1.0	Surface	1	2	19.59	7.84	33.86	94.80	6.3	3.0	5.9
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR4(N3)	11:20	3.0	Bottom	3	1	19.56	7.83	34.10	94.40	6.2	3.1	4.5
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR4(N3)	11:20	3.0	Bottom	3	2	19.50	7.83	34.17	94.80	6.3	3.2	4.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:41	1.0	Surface	1	1	19.84	7.91	33.27	93.40	6.4	2.7	4.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:41	1.0	Surface	1	2	19.85	7.91	33.27	93.20	6.3	2.7	4.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:41	4.8	Middle	2	1	19.61	7.90	33.57	91.80	6.3	2.8	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:40	4.8	Middle	2	2	19.59	7.90	33.60	91.90	6.3	2.8	5.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:41	8.5	Bottom	3	1	19.57	7.90	33.66	92.40	6.3	3.1	5.7
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR5(N)	11:40	8.5	Bottom	3	2	19.55	7.90	33.69	92.50	6.3	3.0	6.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:37	1.0	Surface	1	1	19.95	7.90	33.28	94.60	6.4	2.4	6.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:36	1.0	Surface	1	2	19.99	7.90	33.25	92.90	6.3	2.5	6.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:36	6.6	Middle	2	1	19.51	7.89	33.84	90.80	6.2	2.6	5.8
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:37	6.6	Middle	2	2	19.52	7.90	33.83	90.70	6.2	2.7	5.5
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:36	12.1	Bottom	3	1	19.52	7.90	33.86	91.60	6.3	2.9	4.9
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10A(N)	10:37	12.1	Bottom	3	2	19.54	7.90	33.87	91.70	6.3	3.0	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:27	1.0	Surface	1	1	20.02	7.91	33.23	96.70	6.6	2.3	6.8
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:27	1.0	Surface	1	2	20.05	7.90	33.21	96.60	6.6	2.4	6.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:26	4	Middle	2	1	19.61	7.89	33.61	94.00	6.4	2.6	6.3
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:27	4	Middle	2	2	19.69	7.90	33.49	94.20	6.4	2.5	5.9
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:27	7.0	Bottom	3	1	19.62	7.90	33.73	92.00	6.3	2.7	5.2
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny	SR10B(N2)	10:26	7.0	Bottom	3	2	19.50 19.82	7.88 7.91	33.91 33.27	91.90	6.3	2.8	5.0 5.0
HKLR	HY/2011/03 HY/2011/03	2023-03-03 2023-03-03	Mid-Flood Mid-Flood	Sunny	CS2(A) CS2(A)	12:32 12:33	1.0	Surface	1	2	19.82	7.91	33.27	93.40 93.70	6.4 6.4	2.9	4.6
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS2(A)	12:33	3.4	Surface Middle	2	1	19.84	7.91	33.47	93.70	6.3		5.4
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS2(A)	12:33	3.4	Middle	2	2	19.66	7.91	33.47	92.20	6.3	3.1	5.4
HKLR	HY/2011/03 HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS2(A)	12:32	5.7	Bottom	3	1	19.64	7.90	33.46	92.00	6.3	3.1	5.4
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS2(A)	12:33	5.7	Bottom	3	2	19.55	7.90	33.68	92.00	6.3	3.2	6.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:35	1.0	Surface	1	1	19.61	7.84	33.83	94.20	6.1	2.7	5.6
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:34	1.0	Surface	1	2	19.56	7.82	33.89	93.30	6.2	2.8	5.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:35	6.3	Middle	2	1	19.25	7.82	34.38	90.80	6.0	2.9	6.2
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:34	6.3	Middle	2	2	19.26	7.81	34.38	91.60	6.0	2.9	6.0
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:34	11.5	Bottom	3	1	19.26	7.81	34.45	90.50	6.0	3.2	6.5
HKLR	HY/2011/03	2023-03-03	Mid-Flood	Sunny	CS(Mf)5	10:35	11.5	Bottom	3	2	19.23	7.81	34.47	91.20	5.9	3.2	6.9
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:30	1.0	Surface	1	1	20.17	7.86	33.42	94.80	6.4	3.8	5.0
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:29	1.0	Surface	1	2	20.21	7.87	33.42	97.60	6.6	3.7	4.6
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:29	4.2	Middle	2	1	19.80	7.81	33.95	92.80	6.2	3.9	3.8
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:28	4.2	Middle	2	2	19.82	7.82	33.93	92.80	6.2	3.8	3.5
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:29	7.4	Bottom	3	1	19.68	7.81	34.06	91.70	6.2	4.2	2.7
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS5	13:28	7.4	Bottom	3	2	19.82	7.82	34.03	92.30	6.2	4.2	3.1
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)6	13:19	1.0	Surface	1	1	20.29	7.87	33.43	99.60	6.7	3.4	4.2
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)6	13:20	1.0	Surface	1	2	20.32	7.88	33.41	99.70	6.7	3.4	3.8
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)6	13:19	2.2	Bottom	3	1	20.21	7.87	33.62	99.40	6.7	3.7	2.3
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)6	13:20	2.2	Bottom	3	2	20.24	7.87	33.58	99.50	6.7	3.8	2.8
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS7	13:10	1.0	Surface	1	1	20.27	7.87	33.47	99.00	6.7	3.3	3.7
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS7	13:10	1.0	Surface	1	2	20.33	7.88	33.39	99.30	6.7	3.2	3.3
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS7	13:10	2.3	Bottom	3	1	20.25	7.87	33.56	98.90	6.7	3.9	4.5
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS7	13:10	2.3	Bottom	3	2	20.21	7.87	33.59	99.20	6.7	3.8	4.1
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS8(N)	12:33	1.0	Surface	1	1	20.30	7.87	33.36	99.00	6.7	3.4	4.4
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS8(N)	12:36	1.0	Surface	1	2	20.23	7.87	33.41	100.10	6.8	3.5	5.0
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS8(N)	12:33	3.1	Bottom	3	1	20.16	7.87	33.73	98.70	6.7	3.8	5.7
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS8(N)	12:33	3.1	Bottom	3	2	20.13	7.88	33.77	96.90	6.5	3.7	5.4
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)9	13:00	1.0	Surface	1	1	20.30	7.88	33.39	98.50	6.6	3.5	4.1
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)9	13:00	1.0	Surface	1	2	20.34	7.88	33.36	98.90	6.7	3.3	3.7
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)9	13:00	2.5	Bottom	3	1	20.29	7.87	33.59	97.60	6.6	3.9	5.2
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS(Mf)9	13:00	2.5	Bottom	3	2	20.18	7.88	33.55	96.70	6.5	3.9	4.8
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-06 2023-03-06	Mid-Ebb	Sunny	IS10(N)	12:52	1.0	Surface	1	2	20.18	7.90	33.13 33.18	96.80 96.60	6.6	3.5	3.8
HKLR	HY/2011/03 HY/2011/03	2023-03-06	Mid-Ebb Mid-Ebb	Sunny	IS10(N) IS10(N)	12:51 12:52	1.0 5.4	Surface Middle	2	1	19.95	7.89 7.89	33.18	94.40	6.6 6.4	3.4 3.8	4.1 4.8
HKLR	HY/2011/03 HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS10(N)	12:52	5.4	Middle	2	2	19.95	7.89	33.45	94.40	6.4	3.8	4.8
HKLR	HY/2011/03 HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS10(N)	12:51	9.7	Bottom	3	1	19.94	7.89	33.43	95.10	6.5	4.0	5.1
HKLR	HY/2011/03 HY/2011/03	2023-03-06	Mid-Ebb	Sunny	IS10(N)	12:52	9.7	Bottom	3	2	19.95	7.89	33.48	95.10	6.5	4.0	5.5
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	SR3(N)	13:40	1.0	Surface	1	1	20.24	7.86	33.43	96.00	6.5	4.1	4.5
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	SR3(N)	13:41	1.0	Surface	1	2	20.24	7.87	33.41	96.80	6.5	3.8	4.5
HKLR	HY/2011/03	2023-03-06	Mid-Ebb	Sunny	SR3(N)	13:40	2.3	Bottom	3	1	20.21	7.86	33.59	95.20	6.4	4.1	6.0
HINLE	111/2011/03	2023-03-00	IVIIU-EDD	Juilly	SUS(IA)	13.40	2.3	DULLUIII	<u>_</u>	1	20.21	7.00	33.33	33.20	0.4	4.1	0.0

HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:45 1.0 Surface 1 1 20.28 7.87 33.36 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 1.0 Surface 1 2 20.20 7.87 33.37 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 1 20.16 7.86 33.69 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 2 20.11 7.87 33.78 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 1 2 20.12 7.91 33.16 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 2 20.13 7.90 33.16 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 2 20.13 7.90 33.16 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.36 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.38 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.38 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.38 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 8.7 Bottom 3 1 19.97 7.90 33.42 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:00 8.7 Bottom 3 2 19.96 7.90 33.32 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.09 7.90 33.32 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.05 7.88 33.67 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.01 7.89 33.30 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 1 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 2 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 2	.000 6.3 .000 6.6 .100 6.6 .100 6.6 .200 6.6 .700 6.5 .600 6.5 .600 6.4 .70 6.4 .70 6.5 .60 6.5 .60 6.5 .60 6.5 .60 6.5 .60 6.5 .10 6.5 .60 6.5 .60 6.5 .10	4.1 3.3 3.1 3.5 3.6 3.7 3.6 3.7 4.1 4.0 3.2 3.3 3.4	5.5 3.0 3.4 4.2 3.9 4.5 5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 1.0 Surface 1 2 20.20 7.87 33.37 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 1 20.16 7.86 33.69 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 2 20.11 7.87 33.78 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 1 20.12 7.91 33.16 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 2 20.13 7.90 33.16 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.36 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20.00 7.90 33.38 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 2 1 1 20.00 7.90 33.38 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 8.7 Bottom 3 1 19.97 7.90 33.42 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:00 8.7 Bottom 3 2 19.96 7.90 33.42 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 12:00 1.0 Surface 1 1 20.29 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.29 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.09 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.05 7.88 33.67 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 2 2 20.04 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 2 2 20.04 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 2 2 20.04 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 2 2 20.04 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.68 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.69 33.69 HKLR HY/2011/	8.10 6.6 6.60 6.6 6.20 6.6 6.70 6.5 6.60 6.5 6.60 6.4 4.70 6.4 6.00 6.5 6.60 6.5 6.60 6.5 6.60 6.5 6.60 6.4 6.20 6.3 4.20 6.3	3.1 3.5 3.6 3.7 3.6 3.7 3.7 4.1 4.0 3.2 3.3 3.4	3.4 4.2 3.9 4.5 5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 1 20.16 7.86 33.69 5 5 5 5 5 5 5 5 5	6.60 6.6 6.20 6.6 6.20 6.6 6.70 6.5 6.60 6.5 6.60 6.4 7.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3 6.20 6.3 6.20 6.3	3.5 3.6 3.7 3.6 3.7 3.7 4.1 4.0 3.2 3.3 3.4	4.2 3.9 4.5 5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR4(N3) 12:44 2.9 Bottom 3 2 20.11 7.87 33.78 5 5 5 5 5 5 5 5 5	3.20 6.6 5.70 6.5 6.60 6.5 6.60 6.4 7.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3 6.20 6.3 6.20 6.3	3.6 3.7 3.6 3.7 3.7 4.1 4.0 3.2 3.3 3.4	3.9 4.5 5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 1 20.12 7.91 33.16 50 50 50 50 50 50 50 5	6.70 6.5 6.60 6.5 6.60 6.4 6.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3	3.7 3.6 3.7 3.7 4.1 4.0 3.2 3.3 3.4	4.5 5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 1.0 Surface 1 2 20.13 7.90 33.16 5 5 5 5 5 5 5 5 5	6.60 6.5 6.60 6.4 6.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3	3.6 3.7 3.7 4.1 4.0 3.2 3.3 3.4	5.0 5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 1 20:00 7.90 33.36 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.60 6.4 6.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3 6.30 6.3	3.7 3.7 4.1 4.0 3.2 3.3 3.4	5.2 5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 4.9 Middle 2 2 119.98 7.90 33.38 5 1 119.97 7.90 33.42 5 1 1 1 1 119.97 7.90 33.42 5 1 1 1 1 119.97 7.90 33.42 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.70 6.4 6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 6.20 6.3	3.7 4.1 4.0 3.2 3.3 3.4	5.5 6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:01 8.7 Bottom 3 1 19.97 7.90 33.42 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:00 8.7 Bottom 3 2 19.96 7.90 33.43 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.29 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.31 7.89 33.30 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 1 20.05 7.88 33.67 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle <td>6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 8.20 6.3 8.20 6.3</td> <td>4.1 4.0 3.2 3.3 3.4</td> <td>6.2 5.8 3.4</td>	6.00 6.5 6.10 6.5 6.60 6.5 6.60 6.4 8.20 6.3 8.20 6.3	4.1 4.0 3.2 3.3 3.4	6.2 5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR5(N) 13:00 8.7 Bottom 3 2 19.96 7.90 33.43 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.29 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.31 7.89 33.30 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 1 20.05 7.88 33.67 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle 2 2 20.04 7.89 33.66 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom	6.10 6.5 6.60 6.5 6.60 6.4 3.20 6.3 3.20 6.3	4.0 3.2 3.3 3.4	5.8 3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 1 20.29 7.90 33.32 5 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20.31 7.89 33.30 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 1 20.05 7.88 33.67 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle 2 2 20.04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 1 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 1.1 Bott	6.60 6.5 6.60 6.4 6.20 6.3 6.20 6.3	3.2 3.3 3.4	3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 1.0 Surface 1 2 20:31 7.89 33:30 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 1 20:05 7.88 33.67 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle 2 2 20:04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 1 20:05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20:05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N) 11:50 1.0 Surf	i.60 6.4 i.20 6.3 i.20 6.3	3.3 3.4	
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 6.6 Middle 2 1 20.05 7.88 33.67 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle 2 2 20.04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 1 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N2) 11:50 1.0 Surface 1 1 20.33 7.89 33.29 9	6.3 6.20 6.3	3.4	3.0
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 6.6 Middle 2 2 20.04 7.89 33.66 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12.1 Bottom 3 1 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20.05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N2) 11:50 1.0 Surface 1 1 20.33 7.89 33.29 9	3.20 6.3		3.7
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 12:00 12:1 Bottom 3 1 20:05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20:05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N2) 11:50 1.0 Surface 1 1 20:33 7.89 33.29 9		3.5	4.0
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10A(N) 11:59 12.1 Bottom 3 2 20:05 7.89 33.68 9 HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N2) 11:50 1.0 Surface 1 1 20:33 7.89 33:29 9	1.50	3.7	4.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny SR10B(N2) 11:50 1.0 Surface 1 1 20.33 7.89 33.29 S	3.80 6.4	3.7	4.8
	0.00 6.7	3.2	4.2
	0.50 6.7	3.3	4.0
	5.50 6.5	3.5	3.6
	5.70 6.5	3.4	3.8
	1.40 6.4	3.7	3.3
	1.50 6.4	3.7	2.9
	5.50 6.5	3.6	3.0
	6.60 6.5	3.7	3.4
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny CS2(A) 13:50 3.3 Middle 2 1 20.02 7.90 33.30 S	.50 6.4	3.8	3.8
	1.50 6.4	3.9	3.8
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny CS2(A) 13:50 5.6 Bottom 3 1 19.96 7.91 33.44 5	1.80 6.5	4.2	4.1
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny CS2(A) 13:49 5.6 Bottom 3 2 19.94 7.91 33.44 5	1.60 6.4	4.0	4.4
	6.40	3.1	6.3
HKLR HY/2011/03 2023-03-06 Mid-Ebb Sunny CS(Mf)5 11:56 1.0 Surface 1 2 20.22 7.85 33.58 S	6.5	3.2	5.9
	3.30 6.3	3.4	4.0
	1.40 6.3	3.5	3.7
	6.2	3.8	2.2
	1.90 6.3	3.8	2.6
	0.80 6.8	3.3	3.3
	2.00 6.9	3.3	3.6
	0.20 6.7	3.7	4.7
	0.10 6.7	3.7	4.2
	0.50 6.8	3.9	5.4
	0.30 6.8	3.9	5.0 3.6
	3.50 7.0 2.30 6.9	3.2	3.6 4.0
	0.70 6.8	3.1	4.0
	0.70 6.8	3.6	4.6
	2.30 6.9	3.4	4.9
	2.30 6.9	3.7	4.5
	2.20 6.9	3.8	4.2
	2.10 6.9	3.8	3.8
	0.30 6.8	3.8	3.0
	0.90 6.8	3.8	2.9
	0.50 6.8	4.1	3.9
	0.00 6.7	4.2	3.4
	2.10 6.9	3.3	2.6
	1.70 6.8	3.4	2.9
	1.70 6.9	3.6	3.8
	1.60 6.8	3.5	3.4
	6.50 6.5	4.0	3.0
	1.90 6.5	4.1	2.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	IS10(N)	17:41	5.3	Middle	2	1	20.05	7.90	33.48	94.60	6.4	4.2	3.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	IS10(N)	17:41	5.3	Middle	2	2	20.06	7.91	33.44	94.60	6.4	4.1	3.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	IS10(N)	17:41	9.5	Bottom	3	1	20.08	7.91	33.42	94.70	6.4	4.2	3.5
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	IS10(N)	17:43	9.5	Bottom	3	2	20.03	7.90	33.49	94.50	6.4	4.1	3.9
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR3(N)	16:45	1.0	Surface	1	1	20.39	7.88	33.44	103.10	6.9	3.5	2.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR3(N)	16:46	1.0	Surface	1	2	20.41	7.88	33.45	104.70	7.1	3.6	2.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR3(N)	16:46	2.3	Bottom	3	1	20.39	7.88	33.51	102.20	6.9	3.7	3.4
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR3(N)	16:45	2.3	Bottom	3	2	20.33	7.88	33.55	100.60	6.8	3.9	3.8
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR4(N3)	17:40	1.0	Surface	1	1	20.33	7.88	33.47	100.00	6.7	3.9	4.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR4(N3)	17:40	1.0	Surface	1	2	20.34	7.87	33.43	99.80	6.7	4.0	4.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR4(N3)	17:40	2.8	Bottom	3	1	20.30	7.86	33.63	98.40	6.6	4.2	4.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	SR4(N3)	17:40	2.8	Bottom	3	2	20.31	7.86	33.67	99.10	6.7	4.2	3.6
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR5(N)	17:34	1.0	Surface	1	1	20.22	7.90	33.13	95.80	6.5	3.7	2.6
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR5(N)	17:34	1.0	Surface	1	2	20.15	7.90	33.14	95.60	6.5	3.7	2.2
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR5(N)	17:34	4.8	Middle	2	1	20.10	7.90	33.37	95.00	6.5	3.8	3.6
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR5(N)	17:33	4.8	Middle	2	2	20.08	7.90	33.37	95.10	6.5	3.8	3.3
HKLR HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR5(N)	17:33	8.5	Bottom	3	1	20.07	7.90	33.44	95.20	6.5	4.2	4.1 4.2
HKLR	HY/2011/03	2023-03-06	Mid-Flood Mid-Flood	Sunny	SR5(N)	17:34	8.5	Bottom	1	2	20.08	7.90	33.43	95.30	6.5	4.3	
HKLR	HY/2011/03 HY/2011/03	2023-03-06 2023-03-06	Mid-Flood Mid-Flood	Sunny	SR10A(N) SR10A(N)	18:27 18:26	1.0	Surface	1	2	20.25	7.90 7.91	33.43 33.42	96.80 96.10	6.6 6.5	3.3	4.1 4.4
HKLR	HY/2011/03 HY/2011/03	2023-03-06		Sunny		18:26	6.7	Surface	2	1	20.22	7.91	33.42	94.30	6.4	3.2	3.5
HKLR	HY/2011/03 HY/2011/03	2023-03-06	Mid-Flood Mid-Flood	Sunny	SR10A(N) SR10A(N)	18:25	6.7	Middle Middle	2	2	20.07	7.90	33.70	93.90	6.4	3.6	3.5
HKLR	HY/2011/03	2023-03-06	Mid-Flood	•	SR10A(N)	18:26	12.3		3	1	20.06	7.90	33.70	95.10	6.5	3.7	3.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10A(N)	18:26	12.3	Bottom Bottom	3	2	20.07	7.91	33.69	94.40	6.4	3.7	3.4
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:37	1.0	Surface	1	1	20.24	7.91	33.46	95.50	6.5	3.3	3.4
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:36	1.0	Surface	1	2	20.22	7.91	33.45	95.60	6.5	3.2	3.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:37	3.9	Middle	2	1	20.22	7.91	33.59	94.60	6.4	3.4	3.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:36	3.9	Middle	2	2	20.10	7.91	33.59	94.90	6.4	3.3	4.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:36	6.7	Bottom	3	1	20.14	7.91	33.62	95.40	6.5	3.5	4.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	SR10B(N2)	18:37	6.7	Bottom	3	2	20.09	7.90	33.65	94.90	6.4	3.5	4.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:41	1.0	Surface	1	1	20.14	7.90	33.15	97.70	6.6	3.7	2.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:41	1.0	Surface	1	2	20.15	7.89	33.14	97.10	6.6	3.6	2.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:41	3.4	Middle	2	1	20.07	7.90	33.37	95.50	6.5	3.7	3.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:40	3.4	Middle	2	2	20.06	7.90	33.38	95.70	6.5	3.9	3.2
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:40	5.7	Bottom	3	1	20.05	7.90	33.48	96.10	6.5	4.0	3.5
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Sunny	CS2(A)	16:41	5.7	Bottom	3	2	20.09	7.90	33.41	96.00	6.5	4.0	3.8
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:30	1.0	Surface	1	1	20.24	7.86	33.64	94.40	6.3	3.3	2.7
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:31	1.0	Surface	1	2	20.25	7.86	33.64	95.50	6.4	3.1	2.3
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:31	6.3	Middle	2	1	19.71	7.81	34.44	91.90	6.2	3.5	3.0
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:30	6.3	Middle	2	2	19.70	7.82	34.45	91.40	6.1	3.3	3.4
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:31	11.5	Bottom	3	1	19.71	7.81	33.20	90.70	6.1	3.8	4.8
HKLR	HY/2011/03	2023-03-06	Mid-Flood	Fine	CS(Mf)5	18:30	11.5	Bottom	3	2	19.68	7.82	34.44	90.70	6.1	3.7	4.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:26	1.0	Surface	1	1	20.35	7.87	33.43	100.80	6.8	3.3	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:26	1.0	Surface	1	2	20.44	7.87	33.43	102.00	6.9	3.3	2.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:26	4.3	Middle	2	1	20.20	7.86	33.84	100.20	6.7	3.7	2.8
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:25	4.3	Middle	2	2	20.18	7.86	33.85	100.10	6.7	3.7	2.6
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:25	7.5	Bottom	3	1	20.17	7.86	33.86	100.50	6.8	3.9	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS5	12:26	7.5	Bottom	3	2	20.19	7.85	33.83	100.30	6.8	3.9	3.1
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)6	12:36	1.0	Surface	1	1	20.39	7.88	33.43	103.50	7.0	3.2	3.3
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)6	12:36	1.0	Surface	1	2	20.35	7.88	33.43	102.30	6.9	3.1	3.1
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)6	12:36	2.2	Bottom	3	1	20.34	7.88	33.61	100.70	6.8	3.6	4.6
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)6	12:35	2.2	Bottom	3	2	20.27	7.89	33.60	99.10	6.7	3.6	5.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS7	12:45	1.0	Surface	1	1	20.38	7.88	33.44	102.30	6.9	3.4	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS7	12:44	1.0	Surface	1	2	20.36	7.87	33.46	102.30	6.9	3.7	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS7	12:44	2.3	Bottom	3	1	20.30	7.87	33.69	102.20	6.9	3.8	6.1
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS7	12:44	2.3	Bottom	3	2	20.32	7.87	33.63	102.10	6.9	3.8	5.9
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS8(N)	13:21	1.0	Surface	1	1	20.34	7.87	33.43	100.30	6.8	3.8	4.6
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS8(N)	13:22	1.0	Surface	1	2	20.34	7.88	33.41	100.90	6.8	3.8	4.8
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS8(N)	13:21	3.1	Bottom	3	1	20.32	7.86	33.61	100.50	6.8	4.1	4.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS8(N)	13:21	3.1	Bottom	3	2	20.24	7.86	33.70	100.00	6.7	4.2	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)9	12:55	1.0	Surface	1	1	20.37	7.87	33.45	102.10	6.9	3.3	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)9	12:55	1.0	Surface	1	2	20.36	7.87	33.44	101.70	6.8	3.4	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)9	12:55	2.5	Bottom	3	1	20.32	7.87	33.70	101.70	6.9	3.6	2.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS(Mf)9	12:55	2.5	Bottom	3	2	20.27	7.86	33.69	101.60	6.8	3.5	2.8
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-08 2023-03-08	Mid-Ebb Mid-Ebb	Sunny	IS10(N) IS10(N)	13:11 13:11	1.0	Surface Surface	1	2	20.19 20.17	7.91 7.91	33.11 33.14	95.50 94.90	6.5	4.0 4.1	4.2 3.7
HKLR	HY/2011/03 HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS10(N)	13:11	1.0 5.3	Middle	2	1	20.17	7.91	33.14	94.60	6.5 6.4	4.1	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS10(N)	13:11	5.3	Middle	2	2	20.06	7.91	33.44	94.60	6.4	4.1	3.3
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS10(N)	13:11	9.5	Bottom	3	1	20.08	7.91	33.42	94.70	6.4	4.2	2.8
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	IS10(N)	13:10	9.5	Bottom	3	2	20.03	7.90	33.49	94.50	6.4	4.1	2.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR3(N)	12:15	1.0	Surface	1	1	20.39	7.88	33.44	103.10	6.9	3.5	2.9
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR3(N)	12:16	1.0	Surface	1	2	20.41	7.88	33.45	104.70	7.1	3.6	2.7
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR3(N)	12:15	2.3	Bottom	3	1	20.39	7.88	33.51	102.20	6.9	3.7	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR3(N)	12:15	2.3	Bottom	3	2	20.33	7.88	33.55	100.60	6.8	3.9	2.1
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR4(N3)	13:11	1.0	Surface	1	1	20.33	7.88	33.47	100.00	6.7	3.9	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR4(N3)	13:10	1.0	Surface	1	2	20.34	7.87	33.43	99.80	6.7	4.0	2.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR4(N3)	13:10	2.8	Bottom	3	1	20.30	7.86	33.63	98.40	6.6	4.2	2.8
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-08 2023-03-08	Mid-Ebb Mid-Ebb	Sunny	SR4(N3) SR5(N)	13:10 13:02	2.8 1.0	Bottom Surface	3 1	2 1	20.31	7.86 7.90	33.67 33.13	99.10 95.80	6.7 6.5	4.2 3.7	3.1 2.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR5(N)	13:01	1.0	Surface	1	2	20.22	7.90	33.14	95.60	6.5	3.7	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR5(N)	13:02	4.8	Middle	2	1	20.10	7.90	33.37	95.00	6.5	3.8	3.9
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR5(N)	13:01	4.8	Middle	2	2	20.08	7.90	33.37	95.10	6.5	3.8	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR5(N)	13:01	8.5	Bottom	3	1	20.07	7.90	33.44	95.20	6.5	4.2	4.3
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR5(N)	13:02	8.5	Bottom	3	2	20.08	7.90	33.43	95.30	6.5	4.3	4.9
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	14:00	1.0	Surface	1	1	20.25	7.90	33.43	96.80	6.6	3.3	4.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	14:00	1.0	Surface	1	2	20.22	7.91	33.42	96.10	6.5	3.2	3.6
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	13:59	6.7	Middle	2	1	20.07	7.90	33.70	94.30	6.4	3.6	2.9
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	14:00	6.7	Middle	2	2	20.06	7.90	33.71	93.90	6.4	3.6	2.7
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	13:59	12.3	Bottom	3	1	20.07	7.91	33.70	95.10	6.5	3.7	2.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10A(N)	14:00	12.3	Bottom	3	2	20.07	7.90	33.69	94.40	6.4	3.7	2.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10B(N2)	14:15	1.0	Surface	1	1	20.24	7.91	33.46	95.50	6.5	3.3	4.1
HKLR HKLR	HY/2011/03	2023-03-08 2023-03-08	Mid-Ebb Mid-Ebb	Sunny	SR10B(N2)	14:14 14:14	1.0 3.9	Surface	2	2	20.22	7.91 7.91	33.45 33.59	95.60 94.60	6.5 6.4	3.2 3.4	3.8 3.4
HKLR	HY/2011/03 HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10B(N2) SR10B(N2)	14:14	3.9	Middle Middle	2	2	20.10	7.91	33.59	94.60	6.4	3.4	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10B(N2)	14:14	6.7	Bottom	3	1	20.11	7.91	33.62	95.40	6.5	3.5	3.1
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	SR10B(N2)	14:14	6.7	Bottom	3	2	20.14	7.90	33.65	94.90	6.4	3.5	2.7
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:12	1.0	Surface	1	1	20.14	7.90	33.15	97.70	6.6	3.7	3.8
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:13	1.0	Surface	1	2	20.15	7.89	33.14	97.10	6.6	3.6	4.2
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:13	3.4	Middle	2	1	20.07	7.90	33.37	95.50	6.5	3.7	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:12	3.4	Middle	2	2	20.06	7.90	33.38	95.70	6.5	3.9	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:12	5.7	Bottom	3	1	20.05	7.90	33.48	96.10	6.5	4.0	2.6
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS2(A)	12:12	5.7	Bottom	3	2	20.09	7.90	33.41	96.00	6.5	4.0	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS(Mf)5	14:00	1.0	Surface	1	1	20.24	7.86	33.64	94.40	6.3	3.3	2.0
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS(Mf)5	14:01	1.0	Surface	1	2	20.25	7.86	33.64	95.50	6.4	3.1	1.8
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS(Mf)5	14:01	6.3	Middle	2	1	19.71	7.81	34.44	91.90	6.2	3.5	2.3
HKLR	HY/2011/03	2023-03-08	Mid-Ebb	Sunny	CS(Mf)5	14:00	6.3	Middle	3	2 1	19.70	7.82	34.45	91.40	6.1	3.3	2.7
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-08 2023-03-08	Mid-Ebb Mid-Ebb	Sunny	CS(Mf)5 CS(Mf)5	14:00 14:00	11.5 11.5	Bottom Bottom	3	2	19.71 19.68	7.81 7.82	33.20 34.44	90.70 90.70	6.1 6.1	3.8 3.7	3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:32	1.0	Surface	1	1	20.17	7.86	33.42	94.80	6.4	3.8	3.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:31	1.0	Surface	1	2	20.17	7.87	33.42	97.60	6.6	3.7	3.9
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:32	4.2	Middle	2	1	19.80	7.81	33.95	92.80	6.2	3.9	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:31	4.2	Middle	2	2	19.82	7.82	33.93	92.80	6.2	3.8	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:32	7.4	Bottom	3	1	19.68	7.81	34.06	91.70	6.2	4.2	2.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS5	9:31	7.4	Bottom	3	2	19.82	7.82	34.03	92.30	6.2	4.2	2.9
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)6	9:22	1.0	Surface	1	1	20.29	7.87	33.43	99.60	6.7	3.4	3.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)6	9:22	1.0	Surface	1	2	20.32	7.88	33.41	99.70	6.7	3.4	4.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)6	9:22	2.2	Bottom	3	1	20.21	7.87	33.62	99.40	6.7	3.7	5.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)6	9:22	2.2	Bottom	3	2	20.24	7.87	33.58	99.50	6.7	3.8	5.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS7	9:13	1.0	Surface	1	1	20.27	7.87	33.47	99.00	6.7	3.3	4.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS7	9:13	1.0	Surface	1	2	20.33	7.88	33.39	99.30	6.7	3.2	4.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS7	9:13	2.3	Bottom	3	1	20.25	7.87	33.56	98.90	6.7	3.9	5.8
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS7	9:12	2.3	Bottom	3	2	20.21	7.87	33.59	99.20	6.7	3.8	5.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS8(N)	8:38	1.0	Surface	1	1	20.30	7.87	33.36	99.00	6.7	3.4	3.7
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS8(N)	8:41	1.0	Surface	1	2	20.23	7.87	33.41	100.10	6.8	3.5	4.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS8(N)	8:38	3.1	Bottom	3	1	20.16	7.87	33.73	98.70	6.7	3.8	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS8(N)	8:38	3.1	Bottom	3	2	20.13	7.88	33.77	96.90	6.5	3.7	3.1
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)9	9:03	1.0	Surface	1	1	20.30	7.88	33.39	98.50	6.6	3.5	2.7
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)9	9:03	1.0	Surface	1	2	20.34	7.88	33.36	98.90	6.7	3.3	2.9
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)9	9:03	2.5	Bottom	3	1	20.29	7.87	33.59	97.60	6.6	3.9	4.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS(Mf)9	9:03	2.5	Bottom	-	2	20.18	7.88	33.55	96.70	6.5	3.9	3.9
HKLR HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS10(N)	8:33	1.0	Surface	1	1	20.18	7.90	33.13	96.80	6.6	3.5	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS10(N)	8:32	1.0 5.4	Surface Middle	2	2	20.11 19.95	7.89 7.89	33.18 33.45	96.60 94.40	6.6	3.4	3.4
HKLR	HY/2011/03 HY/2011/03	2023-03-08 2023-03-08	Mid-Flood Mid-Flood	Sunny Sunny	IS10(N) IS10(N)	8:33 8:32	5.4	Middle	2	2	19.94	7.89	33.45	94.40	6.4 6.4	3.8	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS10(N)	8:32	9.7	Bottom	3	1	19.97	7.89	33.43	95.10	6.5	4.0	4.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	IS10(N)	8:32	9.7	Bottom	3	2	19.95	7.90	33.48	95.00	6.5	4.1	4.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood		SR3(N)	9:42	1.0		1	1	20.24	7.86	33.43	96.00	6.5	4.1	4.4
HKLR	HY/2011/03 HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR3(N)	9:42	1.0	Surface Surface	1	2	20.24	7.86	33.43	96.80	6.5	3.8	5.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR3(N)	9:43	2.3	Bottom	3	1	20.27	7.86	33.59	95.20	6.4	4.1	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR3(N)	9:42	2.3	Bottom	3	2	20.21	7.85	33.63	94.00	6.3	4.1	3.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR4(N3)	8:50	1.0	Surface	1	1	20.13	7.87	33.36	98.00	6.6	3.3	3.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR4(N3)	8:49	1.0	Surface	1	2	20.20	7.87	33.37	98.10	6.6	3.1	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR4(N3)	8:50	2.9	Bottom	3	1	20.16	7.86	33.69	97.60	6.6	3.5	3.7
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR4(N3)	8:49	2.9	Bottom	3	2	20.11	7.87	33.78	98.20	6.6	3.6	4.1
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:42	1.0	Surface	1	1	20.12	7.91	33.16	95.70	6.5	3.7	3.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:42	1.0	Surface	1	2	20.12	7.90	33.16	95.60	6.5	3.6	3.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:42	4.9	Middle	2	1	20.00	7.90	33.36	94.60	6.4	3.7	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:41	4.9	Middle	2	2	19.98	7.90	33.38	94.70	6.4	3.7	2.8
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:42	8.7	Bottom	3	1	19.97	7.90	33.42	95.00	6.5	4.1	2.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR5(N)	8:41	8.7	Bottom	3	2	19.96	7.90	33.43	95.10	6.5	4.0	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:45	1.0	Surface	1	1	20.29	7.90	33.32	95.60	6.5	3.2	4.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:44	1.0	Surface	1	2	20.31	7.89	33.30	94.60	6.4	3.3	4.5
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:44	6.6	Middle	2	1	20.05	7.88	33.67	93.20	6.3	3.4	3.8
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:45	6.6	Middle	2	2	20.04	7.89	33.66	93.20	6.3	3.5	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:45	12.1	Bottom	3	1	20.05	7.89	33.68	93.90	6.4	3.7	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10A(N)	7:44	12.1	Bottom	3	2	20.05	7.89	33.68	93.80	6.4	3.7	2.7
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:34	1.0	Surface	1	1	20.33	7.89	33.29	99.00	6.7	3.2	2.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:34	1.0	Surface	1	2	20.35	7.88	33.28	99.50	6.7	3.3	2.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:33	3.9	Middle	2	1	20.10	7.87	33.52	96.50	6.5	3.5	3.0
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:34	3.9	Middle	2	2	20.14	7.88	33.46	95.70	6.5	3.4	3.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:34	6.8	Bottom	3	1	20.10	7.88	33.60	94.40	6.4	3.7	3.6
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	SR10B(N2)	7:33	6.8	Bottom	3	2	20.03	7.87	33.70	94.50	6.4	3.7	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:30	1.0	Surface	1	1	20.11	7.91	33.17	95.50	6.5	3.6	3.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:31	1.0	Surface	1	2	20.11	7.90	33.16	95.60	6.5	3.7	3.5
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:31	3.3	Middle	2	1	20.02	7.90	33.30	94.50	6.4	3.8	4.1
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:30	3.3	Middle	2	2	20.01	7.90	33.30	94.50	6.4	3.9	3.7
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:31	5.6	Bottom	3	1	19.96	7.91	33.44	94.80	6.5	4.2	4.8
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS2(A)	9:30	5.6	Bottom	3	2	19.94	7.91	33.44	94.60	6.4	4.0	4.4
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:58	1.0	Surface	1	1	20.26	7.86	33.53	96.40	6.4	3.1	4.2
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:58	1.0	Surface	1	2	20.22	7.85	33.58	95.70	6.5	3.2	3.8
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:58	6.2	Middle	2	1	19.90	7.84	34.09	93.30	6.3	3.4	4.5
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:57	6.2	Middle	2	2	19.93	7.84	34.08	94.40	6.3	3.5	4.9
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:58	11.4	Bottom	3	1	19.86	7.83	34.17	93.30	6.2	3.8	5.3
HKLR	HY/2011/03	2023-03-08	Mid-Flood	Sunny	CS(Mf)5	7:57	11.4	Bottom	3	2	19.94	7.84	34.14	92.90	6.3	3.8	5.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:26	1.0	Surface	1	1	20.46	7.91	33.42	100.80	7.1	3.4	5.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:25	1.0	Surface	1	2	20.41	7.91	33.42	100.00	7.0	3.4	4.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:25	4.3	Middle	2	1	20.30	7.90	33.71	99.60	7.0	3.8	4.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:26	4.3	Middle	2	2	20.32	7.90	33.70	99.50	7.0	3.7	3.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:25	7.5	Bottom	3	1	20.30	7.90	33.71	100.00	7.0	4.0	4.3
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	13:26	7.5	Bottom	3	2	20.31	7.89	33.69	99.70	7.0	4.1	4.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)6	13:35	1.0	Surface	1	1	20.41	7.93	33.43	103.90	7.3	3.2	4.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)6	13:35	1.0	Surface	1	2	20.44	7.92	33.44	105.60	7.4	3.2	4.7
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)6	13:35	2.2	Bottom	3	1	20.42	7.92	33.56	102.10	7.2	3.6	5.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)6	13:34	2.2	Bottom	3	2	20.34	7.94	33.55	100.30	7.1	3.6	5.0
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS7	13:44	1.0	Surface	1	1	20.45	7.92	33.44	101.80	7.2	3.2	5.8
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS7	13:44	1.0	Surface	1	2	20.43	7.91	33.46	102.00	7.2	3.5	5.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS7	13:44	2.3	Bottom	3	1	20.39	7.91	33.61	102.00	7.2	3.6	5.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS7	13:44	2.3	Bottom	3	2	20.41	7.91	33.57	101.70	7.2	3.6	5.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS8(N)	14:21	1.0	Surface	1	1	20.42	7.89	33.42	99.50 99.90	7.0 7.0	3.7	5.1
HKLR HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS8(N)	14:22 14:21	1.0 2.9	Surface	3	2	20.43 20.41	7.90 7.89	33.40 33.54	99.60	7.0	3.6 3.9	4.2 5.5
HKLR	HY/2011/03 HY/2011/03	2023-03-10	Mid-Ebb Mid-Ebb	Fine	IS8(N)	14:21	2.9	Bottom	3	2	20.41	7.89	33.54	99.80	7.0	3.9	5.5
HKLR	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Ebb	Fine Fine	IS8(N) IS(Mf)9	13:58	1.0	Bottom Surface	1	1	20.36	7.89	33.45	101.30	7.0	3.9	4.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)9	13:57	1.0	Surface	1	2	20.43	7.91	33.44	101.30	7.1	3.4	3.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)9	13:58	2.6	Bottom	3	1	20.43	7.91	33.63	101.10	7.1	3.5	6.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS(Mf)9	13:57	2.6	Bottom	3	2	20.42	7.90	33.61	101.10	7.1	3.4	5.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:09	1.0	Surface	1	1	20.37	7.95	32.99	95.00	6.5	3.4	6.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:09	1.0	Surface	1	2	20.32	7.96	32.94	95.80	6.6	3.6	5.3
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:09	5.3	Middle	2	1	20.35	7.96	33.30	94.60	6.5	3.8	5.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:09	5.3	Middle	2	2	20.25	7.95	33.27	94.80	6.5	3.8	3.8
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:09	9.6	Bottom	3	1	20.26	7.95	33.24	95.00	6.5	3.7	5.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	IS10(N)	14:08	9.6	Bottom	3	2	20.22	7.94	33.31	94.60	6.5	3.6	4.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR3(N)	13:15	1.0	Surface	1	1	20.43	7.91	33.43	102.80	7.2	3.6	3.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR3(N)	13:15	1.0	Surface	1	2	20.44	7.91	33.44	105.10	7.4	3.7	4.3
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR3(N)	13:15	2.4	Bottom	3	1	20.43	7.92	33.47	101.80	7.2	3.9	6.1
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR3(N)	13:15	2.4	Bottom	3	2	20.39	7.92	33.49	100.40	7.1	4.0	4.7
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR4(N3)	14:13	1.0	Surface	1	1	20.42	7.90	33.44	99.20	7.0	3.8	4.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR4(N3)	14:12	1.0	Surface	1	2	20.43	7.90	33.42	99.00	7.0	3.8	4.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR4(N3)	14:12	2.8	Bottom	3	1	20.41	7.88	33.57	97.90	6.9	4.2	3.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	SR4(N3)	14:12	2.8	Bottom	3	2	20.41	7.89	33.58	98.40	6.9	4.1	3.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	14:00	1.0	Surface	1	1	20.42	7.93	32.99	96.30	6.6	3.4	3.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	14:00	1.0	Surface	1	2	20.29	7.93	32.98	95.60	6.6	3.4	4.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	13:59	5.0	Middle	2	1	20.27	7.92	33.18	95.30	6.6	3.6	4.8
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	14:00	5.0	Middle	2	2	20.31	7.93	33.19	95.60	6.6	3.5	4.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	13:59	8.9	Bottom	3	1	20.26	7.93	33.25	94.70	6.5	4.0	5.0
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR5(N)	14:00	8.9	Bottom	3	2	20.26	7.93	33.24	95.60	6.6	4.0	5.7
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:01	1.0	Surface	1	1	20.50	7.93	33.49	98.40	6.7	3.3	5.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:00	1.0	Surface	1	2	20.47	7.94	33.48	97.40	6.7	3.3	5.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:01	6.3	Middle	2	1	20.32	7.93	33.71	94.00	6.4	3.5	4.8
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:00	6.3	Middle	2	2	20.32	7.95	33.71	94.50	6.5	3.5	3.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:01	11.6	Bottom	3	1	20.33	7.93	33.70	94.50	6.5	3.6	5.5
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10A(N)	15:00	11.6	Bottom	3	2	20.32	7.96	33.70	95.50	6.5	3.5	5.6
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	1.0	Surface	1	1	20.49	7.95	33.51	95.20	6.5	3.1	5.7
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	1.0	Surface	1	2	20.47	7.95	33.50	95.30	6.5	3.1	4.4
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	4.1	Middle	2	1	20.36	7.95	33.60	94.70	6.5	3.1	5.7
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	4.1	Middle	2	2	20.35	7.95	33.61	94.40	6.5	3.2	5.0
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	7.1	Bottom	3	1	20.40	7.95	33.62	95.20	6.5	3.3	5.3
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	SR10B(N2)	15:12	7.1	Bottom	3	2	20.34	7.94	33.66	94.70	6.5	3.3	5.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	CS2(A)	13:11	1.0	Surface	1	1	20.26	7.93	32.97	99.10	6.8	3.5	3.8
HKLR HKLR	HY/2011/03	2023-03-10	Mid-Ebb Mid-Ebb	Sunny	CS2(A)	13:12	1.0 3.4	Surface	1	1	20.28	7.92 7.93	32.97	97.80 95.40	6.7 6.6	3.3	5.1 4.7
	HY/2011/03	2023-03-10		Sunny	CS2(A)	13:11		Middle	2				33.31			3.7	
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	CS2(A)	13:11	3.4	Middle	2	2	20.21	7.92	33.30	95.00	6.6	3.4	5.6
HKLR HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	CS2(A)	13:11	5.7	Bottom	3	2	20.21	7.93	33.40	96.00	6.6	3.9	3.9
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Sunny	CS2(A)	13:11 15:00	5.7	Bottom	3 1	1	20.24 20.52	7.92 7.90	33.33 33.95	95.70 95.70	6.6 6.7	3.9 3.3	4.3
HKLR	HY/2011/03	2023-03-10 2023-03-10	Mid-Ebb Mid-Ebb	Fine Fine	CS(Mf)5	15:00	1.0	Surface Surface	1	2	20.52	7.90	33.95	95.70	6.7	3.3	4.3
ПКLК	HY/2011/03	2023-03-10	IVIIU-EDD	rine	CS(Mf)5	12:01	1.0	Surface	1		20.53	7.90	33.95	97.10	0.7	5.2	4.5

HKLR HY HKLR HY HKLR HY HKLR HY HKLR HY	HY/2011/03 HY/2011/03 HY/2011/03	2023-03-10	Mid-Ebb			i e		Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR HY HKLR HY HKLR HY			WIIG-LDD	Fine	CS(Mf)5	15:00	6.4	Middle	2	1	20.08	7.86	34.79	92.90	6.5	3.5	4.2
HKLR HY HKLR HY	HY/2011/03	2023-03-10	Mid-Ebb	Fine	CS(Mf)5	15:00	6.4	Middle	2	2	20.08	7.85	34.79	93.40	6.5	3.4	4.2
HKLR HY		2023-03-10	Mid-Ebb	Fine	CS(Mf)5	15:00	11.8	Bottom	3	1	20.06	7.86	34.80	92.60	6.4	3.8	3.2
HKLR HY	HY/2011/03	2023-03-10	Mid-Ebb	Fine	CS(Mf)5	15:00	11.8	Bottom	3	2	20.07	7.85	33.99	92.80	6.5	3.9	4.4
	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood	Fine	IS5 IS5	9:35 9:34	1.0 1.0	Surface	1	2	20.25 20.28	7.90 7.91	33.41 33.40	97.10 100.70	6.9 7.1	3.6 3.6	4.5 3.4
HKLR HY	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood Mid-Flood	Fine Fine	IS5	9:34	4.2	Surface Middle	2	1	19.98	7.91	33.40	93.70	6.6	3.6	4.8
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS5	9:35	4.2	Middle	2	2	19.96	7.86	33.83	94.90	6.7	3.7	6.0
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS5	9:34	7.4	Bottom	3	1	19.85	7.86	33.96	93.30	6.6	4.1	4.6
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS5	9:34	7.4	Bottom	3	2	19.98	7.87	33.92	93.10	6.5	4.1	3.8
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)6	9:24	1.0	Surface	1	1	20.33	7.91	33.41	98.30	6.9	3.3	3.7
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)6	9:24	1.0	Surface	1	2	20.36	7.92	33.40	98.50	6.9	3.4	4.4
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)6	9:24	2.3	Bottom	3	1	20.30	7.91	33.56	98.20	6.9	3.8	5.4
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)6	9:24	2.3	Bottom	3	2	20.32	7.91	33.54	98.20	6.9	3.9	4.5
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS7	9:15	1.0	Surface	1	1	20.32	7.91	33.44	98.00	6.9	3.2	4.7
	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood	Fine	IS7	9:15	1.0	Surface	3	2	20.36 20.31	7.91 7.91	33.39 33.51	98.30	6.9	3.2 3.7	4.1 4.2
	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood Mid-Flood	Fine Fine	IS7	9:15 9:15	2.3	Bottom Bottom	3	2	20.31	7.91	33.55	98.00 98.10	6.9 6.9	3.7	4.2
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS8(N)	8:43	1.0	Surface	1	1	20.29	7.91	33.41	102.90	7.3	3.5	5.0
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS8(N)	8:42	1.0	Surface	1	2	20.34	7.91	33.37	100.60	7.1	3.4	4.1
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS8(N)	8:42	3.0	Bottom	3	1	20.26	7.90	33.67	99.70	7.0	3.8	4.9
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS8(N)	8:41	3.0	Bottom	3	2	20.25	7.92	33.71	98.00	6.9	3.8	4.5
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)9	9:05	1.0	Surface	1	1	20.36	7.92	33.39	97.90	6.9	3.5	4.5
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)9	9:05	1.0	Surface	1	2	20.38	7.91	33.37	98.10	6.9	3.4	3.6
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)9	9:05	2.5	Bottom	3	1	20.29	7.91	33.55	96.60	6.8	3.9	4.5
	HY/2011/03	2023-03-10	Mid-Flood	Fine	IS(Mf)9	9:05	2.5	Bottom	3	2	20.36	7.91	33.55	97.10	6.8	4.0	3.8
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	IS10(N)	9:01	1.0	Surface	1	1	20.24	7.92	32.89	98.00	6.8	3.2	3.9
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	IS10(N)	9:00	1.0	Surface	1	2	20.20	7.91	32.94	98.50	6.8	3.2	5.5
	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood Mid-Flood	Sunny	IS10(N) IS10(N)	9:00 9:01	5.3 5.3	Middle Middle	2	2	20.03 20.03	7.91 7.91	33.15 33.15	95.50 94.50	6.6 6.5	3.6 3.6	6.8 6.6
	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood	Sunny	IS10(N)	9:01	9.6	Bottom	3	1	20.05	7.91	33.13	94.80	6.6	4.0	3.3
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	IS10(N)	9:00	9.6	Bottom	3	2	20.04	7.93	33.17	95.10	6.6	4.0	3.9
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR3(N)	9:45	1.0	Surface	1	1	20.30	7.90	33.41	95.60	6.7	4.2	3.4
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR3(N)	9:45	1.0	Surface	1	2	20.33	7.91	33.38	96.30	6.8	4.0	3.1
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR3(N)	9:45	2.4	Bottom	3	1	20.29	7.90	33.53	95.00	6.7	4.3	3.9
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR3(N)	9:45	2.4	Bottom	3	2	20.22	7.89	33.56	94.10	6.6	4.3	4.1
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR4(N3)	8:52	1.0	Surface	1	1	20.27	7.90	33.37	97.90	6.9	3.1	5.2
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR4(N3)	8:52	1.0	Surface	1	2	20.33	7.90	33.38	97.70	6.9	3.4	4.5
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR4(N3)	8:52	2.9	Bottom	3	1	20.26	7.89	33.65	97.40	6.8	3.6	4.4
	HY/2011/03	2023-03-10	Mid-Flood	Fine	SR4(N3)	8:51	2.9	Bottom	3	2	20.24	7.90	33.71	98.10	6.9	3.5	4.6 5.4
	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood Mid-Flood	Sunny	SR5(N) SR5(N)	9:10 9:10	1.0	Surface Surface	1	2	20.20 20.22	7.95 7.93	32.93 32.93	95.20 95.00	6.6 6.6	3.5 3.5	4.3
	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR5(N)	9:10	5.0	Middle	2	1	20.08	7.93	33.07	94.30	6.5	3.7	5.3
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR5(N)	9:09	5.0	Middle	2	2	20.06	7.93	33.09	94.20	6.5	3.8	5.0
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR5(N)	9:09	8.9	Bottom	3	1	20.05	7.93	33.13	94.50	6.5	4.0	5.1
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR5(N)	9:10	8.9	Bottom	3	2	20.06	7.94	33.13	94.40	6.5	4.1	4.6
HKLR HY	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:13	1.0	Surface	1	1	20.53	7.93	33.35	94.60	6.5	3.3	3.4
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:12	1.0	Surface	1	2	20.54	7.91	33.34	93.70	6.4	3.4	4.4
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:12	6.3	Middle	2	1	20.29	7.90	33.64	92.50	6.3	3.5	5.4
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:13	6.3	Middle	2	2	20.27	7.91	33.65	92.40	6.3	3.6	5.8
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:13	11.6	Bottom	3	1	20.28	7.91	33.65	93.00	6.4	3.9	4.7
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10A(N)	8:12	11.6	Bottom	3	2	20.29	7.91	33.65	93.00	6.4	3.9	5.8
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10B(N2)	8:01	1.0	Surface	1	2	20.56 20.59	7.90	33.34	100.50	6.9 7.0	3.4 3.5	4.3
	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood Mid-Flood	Sunny	SR10B(N2) SR10B(N2)	8:01 8:01	1.0	Surface Middle	2	1	20.59	7.88 7.89	33.31 33.45	101.90 95.30	6.5	3.5	4.6 4.2
	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10B(N2)	8:00	4	Middle	2	2	20.37	7.88	33.50	97.00	6.7	3.6	3.2
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10B(N2)	8:01	6.9	Bottom	3	1	20.34	7.89	33.57	94.10	6.5	3.8	3.7
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	SR10B(N2)	8:00	6.9	Bottom	3	2	20.27	7.88	33.65	94.60	6.5	3.8	4.6
	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:02	1.0	Surface	1	1	20.19	7.94	32.96	94.70	6.5	3.5	5.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:03	1.0	Surface	1	2	20.17	7.93	32.95	94.70	6.5	3.6	3.7
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:02	3.3	Middle	2	1	20.09	7.94	33.05	93.90	6.5	3.9	5.0
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:03	3.3	Middle	2	2	20.08	7.93	33.04	93.80	6.5	3.6	5.3
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:02	5.5	Bottom	3	1	20.04	7.94	33.17	93.90	6.5	4.1	4.1
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Sunny	CS2(A)	10:02	5.5	Bottom	3	2	20.01	7.95	33.16	93.90	6.5	3.8	4.6
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Fine	CS(Mf)5	8:03	1.0	Surface	1	1	20.44	7.88	33.77	96.80	6.7	3.3	4.3
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Fine	CS(Mf)5	8:03	1.0	Surface	1	2	20.41	7.87	33.80	96.60	6.8	3.4	3.4
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-10 2023-03-10	Mid-Flood	Fine	CS(Mf)5 CS(Mf)5	8:03 8:02	6.4 6.4	Middle	2	2	20.18	7.87 7.86	34.18 34.16	94.60 95.90	6.6 6.7	3.6 3.6	4.1 3.8
HKLR	HY/2011/03 HY/2011/03	2023-03-10	Mid-Flood Mid-Flood	Fine Fine	CS(Mf)5	8:02	11.7	Middle Bottom	3	1	20.21	7.86	34.16	95.90	6.6	4.1	5.7
HKLR	HY/2011/03	2023-03-10	Mid-Flood	Fine	CS(Mf)5	8:02	11.7	Bottom	3	2	20.13	7.86	34.27	95.20	6.7	4.1	4.2
HKLR	HY/2011/03	2023-03-10	Mid-Ebb	Fine	IS5	15:16	1.0	Surface	1	1	21.75	7.89	33.06	97.80	6.8	3.2	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS5	15:17	1.0	Surface	1	2	21.78	7.88	33.08	98.60	6.8	3.2	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS5	15:16	4.3	Middle	2	1	21.62	7.87	33.42	97.40	6.8	3.6	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS5	15:17	4.3	Middle	2	2	21.64	7.87	33.40	97.20	6.8	3.5	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS5	15:17	7.5	Bottom	3	1	21.65	7.86	33.40	97.70	6.8	3.8	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS5	15:16	7.5	Bottom	3	2	21.63	7.87	33.41	98.40	6.8	3.7	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)6	15:27	1.0	Surface	1	1	21.80	7.90	33.06	100.90	7.0	3.1	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)6	15:27	1.0	Surface	1	2	21.76	7.91	33.07	100.10	7.0	3.1	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)6	15:27	2.2	Bottom	3	1	21.78	7.90	33.16	98.90	6.9	3.4	2.8
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)6	15:27	2.2	Bottom	3	2	21.71	7.91	33.20	98.90	6.9	3.4	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS7	15:36	1.0	Surface	1	1	21.81	7.90	33.05	98.70	6.9	3.0	3.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS7	15:36	1.0	Surface	1	2	21.79	7.89	33.07	99.10	6.9	3.2	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS7	15:36	2.3	Bottom	3	1	21.76	7.89	33.20	99.10	6.9	3.3	2.8
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS7	15:36	2.3	Bottom	3	2	21.77	7.89	33.17	98.70	6.9	3.3	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS8(N)	16:09	1.0	Surface	1	1	21.78	7.88	33.08	97.00	6.8	3.1	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS8(N)	16:09	1.0	Surface	1	2	21.80	7.89	33.04	97.50	6.8	3.1	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS8(N)	16:09	3.1	Bottom	3	1	21.75	7.87	33.22	97.30	6.8	3.3	2.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS8(N)	16:09	3.1	Bottom	3	2	21.72	7.87	33.27	96.70	6.7	3.3	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)9	15:47	1.0	Surface	1	1	21.81	7.90	33.05	98.10	6.8	2.9	3.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS(Mf)9	15:47	1.0	Surface	1	2	21.79	7.89	33.06	98.00	6.8	3.0	4.0
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-13 2023-03-13	Mid-Ebb Mid-Ebb	Fine Fine	IS(Mf)9 IS(Mf)9	15:47 15:47	2.5 2.5	Bottom	3	2	21.78 21.74	7.89 7.88	33.21 33.22	98.10 98.00	6.8 6.8	3.2 3.2	2.8 3.0
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:18	1.0	Bottom Surface	1	1	21.74	7.00	33.08	94.50	6.5	3.5	2.3
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:18	1.0	Surface	1	2	21.66	7.92	33.06	94.90	6.5	3.4	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:18	5.3	Middle	2	1	21.60	7.91	33.25	94.10	6.4	3.7	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:18	5.3	Middle	2	2	21.61	7.91	33.23	94.30	6.4	3.7	3.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:18	9.5	Bottom	3	1	21.63	7.91	33.19	94.40	6.4	3.7	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	IS10(N)	16:17	9.5	Bottom	3	2	21.59	7.91	33.26	94.30	6.4	3.6	4.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR3(N)	15:07	1.0	Surface	1	1	21.78	7.91	33.05	101.70	7.1	3.3	2.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR3(N)	15:07	1.0	Surface	1	2	21.81	7.91	33.04	102.20	7.1	3.3	3.1
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR3(N)	15:07	2.3	Bottom	3	1	21.79	7.91	33.08	100.80	7.0	3.6	4.0
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR3(N)	15:06	2.3	Bottom	3	2	21.75	7.90	33.13	101.00	7.0	3.6	3.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR4(N3)	16:00	1.0	Surface	1	1	21.79	7.89	33.07	96.90	6.7	3.2	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR4(N3)	16:00	1.0	Surface	1	2	21.79	7.89	33.06	96.70	6.7	3.2	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR4(N3)	16:00	2.8	Bottom	3	1	21.76	7.87	33.19	96.00	6.7	3.6	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR4(N3)	16:00	2.8	Bottom	3	2	21.78	7.87	33.21	96.50	6.7	3.6	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:09	1.0	Surface	1	1	21.70	7.91	33.09	95.20	6.5	3.3	2.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:08	1.0	Surface	1	2	21.63	7.91	33.08	95.00	6.5	3.3	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:08	4.9	Middle	2	1	21.63	7.91	33.20	94.70	6.5	3.5	2.8
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:08	4.9	Middle	2	2	21.61	7.90	33.20	94.50	6.5	3.6	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:08	8.8	Bottom	3	1	21.61	7.91	33.24	94.50	6.5	3.8	3.9
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR5(N)	16:08	8.8	Bottom	3	2	21.61	7.91	33.22	94.90	6.5	3.8	3.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:05	1.0	Surface	1	1	21.74	7.90	33.30	96.90	6.6	3.0	3.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:04	1.0	Surface	1	2	21.72	7.90	33.30	95.70	6.5	3.0	3.9
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:04	6.2	Middle	2	1	21.64	7.91	33.43	94.10	6.4	3.2	3.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:05	6.2	Middle	2	2	21.63	7.90	33.43	93.40	6.4	3.2	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:04	11.4	Bottom	3	1	21.64	7.91	33.42	94.50	6.4	3.3	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10A(N)	17:05	11.4	Bottom	3	2	21.64	7.90	33.42	94.00	6.4	3.3	2.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:16	1.0	Surface	1	1	21.74	7.90	33.30	94.80	6.5	3.1	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:15	1.0	Surface	1	2	21.72	7.90	33.30	95.00	6.5	3.1	4.2
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:16	4.7	Middle	2	1	21.65	7.90	33.38	94.00	6.4	3.3	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:15	4.7	Middle	2	2	21.65	7.90	33.37	93.80	6.4	3.2	3.1
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:15	8.3	Bottom	3	1	21.67	7.90	33.38	94.30	6.4	3.5	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	SR10B(N2)	17:16	8.3	Bottom	3	2	21.65	7.90	33.40	94.00	6.4	3.5	2.6
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS2(A)	15:12	1.0	Surface	1	1	21.62	7.91	33.08	97.00	6.6	3.2	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS2(A)	15:12	1.0	Surface	1	2	21.63	7.90	33.08	96.10	6.6	3.1	2.9
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS2(A)	15:11	3.3	Middle	2	1	21.59	7.91	33.25	95.10	6.5	3.4	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS2(A)	15:12	3.3	Middle	2	2	21.59	7.90	33.24	94.70	6.5	3.2	3.2
HKLR HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS2(A)	15:12	5.5	Bottom	3	1	21.60	7.90	33.27	95.10	6.5	3.7	3.9
HKLR	HY/2011/03 HY/2011/03	2023-03-13	Mid-Ebb Mid-Ebb	Fine	CS2(A)	15:11	5.5	Bottom	3 1	2	21.59 21.81	7.91	33.29	95.50 94.50	6.5	3.6	4.2
HKLR	, . ,	2023-03-13		Fine	CS(Mf)5	16:54	1.0 1.0	Surface		2	21.81	7.90 7.90	33.30 33.30	95.30	6.5 6.5	3.2 3.1	2.1
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS(Mf)5	16:54		Surface	2	1				92.30			2.3
HKLR	HY/2011/03 HY/2011/03	2023-03-13 2023-03-13	Mid-Ebb Mid-Ebb	Fine Fine	CS(Mf)5 CS(Mf)5	16:54 16:53	6.5 6.5	Middle Middle	2	2	21.46 21.45	7.85 7.85	33.94 33.95	92.30	6.4 6.4	3.3 3.3	2.9
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS(Mf)5	16:54	11.9	Bottom	3	1	21.47	7.85	33.21	92.10	6.3	3.7	3.1
HKLR	HY/2011/03	2023-03-13	Mid-Ebb	Fine	CS(Mf)5	16:53	11.9	Bottom	3	2	21.47	7.85	33.95	91.90	6.3	3.6	3.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:33	1.0	Surface	1	1	21.62	7.83	33.06	94.20	6.6	3.3	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:32	1.0	Surface	1	2	21.64	7.90	33.08	96.70	6.7	3.3	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:31	4.2	Middle	2	1	21.35	7.86	33.46	92.60	6.4	3.4	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:32	4.2	Middle	2	2	21.36	7.85	33.47	93.00	6.4	3.4	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:32	7.4	Bottom	3	1	21.29	7.84	33.57	92.40	6.3	3.8	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS5	10:31	7.4	Bottom	3	2	21.32	7.85	33.53	92.40	6.3	3.8	3.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)6	10:23	1.0	Surface	1	1	21.71	7.90	33.03	95.60	6.6	3.1	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)6	10:22	1.0	Surface	1	2	21.68	7.89	33.06	95.60	6.6	3.1	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)6	10:22	2.2	Bottom	3	1	21.67	7.89	33.15	95.40	6.6	3.4	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)6	10:22	2.2	Bottom	3	2	21.63	7.88	33.21	95.50	6.6	3.3	4.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS7	10:12	1.0	Surface	1	1	21.71	7.90	33.06	95.40	6.6	3.0	8.6
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS7	10:12	1.0	Surface	1	2	21.73	7.90	33.01	95.70	6.6	3.0	9.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS7	10:12	2.3	Bottom	3	1	21.66	7.89	33.14	95.40	6.6	3.3	4.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS7	10:12	2.3	Bottom	3	2	21.69	7.89	33.13	95.30	6.6	3.3	4.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS8(N)	9:43	1.0	Surface	1	1	21.67	7.90	33.01	98.10	6.8	3.1	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS8(N)	9:42	1.0	Surface	1	2	21.70	7.90	32.99	97.60	6.8	3.1	2.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS8(N)	9:42	3.0	Bottom	3	1	21.65	7.88	33.24	97.00	6.7	3.3	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS8(N)	9:42	3.0	Bottom	3	2	21.56	7.88	33.32	95.40	6.6	3.3	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)9	10:03	1.0	Surface	1	1	21.70	7.90	33.03	95.20	6.6	3.1	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)9	10:03	1.0	Surface	1	2	21.73	7.90	32.99	95.50	6.6	3.1	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)9	10:03	2.4	Bottom	3	1	21.70	7.89	33.15	94.80	6.6	3.4	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS(Mf)9	10:03	2.4	Bottom	3	2	21.57	7.88	33.19	94.30	6.5	3.3	3.9
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:01	1.0	Surface	1	1	21.58	7.90	33.09	97.00	6.6	3.0	3.1
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:01	1.0	Surface	1	2	21.60	7.91	33.06	96.20	6.6	2.9	3.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:00	5.3	Middle	2	1	21.49	7.90	33.20	95.70	6.6	3.3	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:01	5.3	Middle	2	2	21.49	7.90	33.20	94.50	6.5	3.3	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:01	9.6	Bottom	3	1	21.50	7.90	33.19	94.90	6.5	3.7	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	IS10(N)	10:00	9.6	Bottom	3	2	21.50	7.91	33.21	96.00	6.6	3.7	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR3(N)	10:42	1.0	Surface	1	1	21.70	7.90	33.02	94.40	6.6	3.5	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR3(N)	10:42	1.0	Surface	1	2	21.67	7.89	33.07	94.10	6.5	3.6	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR3(N)	10:42	2.3	Bottom	3	1	21.65	7.89	33.15	93.70	6.5	3.7	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR3(N)	10:42	2.3	Bottom	3	2	21.59	7.88	33.22	93.10	6.4	3.7	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR4(N3)	9:51	1.0	Surface	1	1	21.68	7.89	33.02	95.20	6.6	3.1	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR4(N3)	9:51	1.0	Surface	1	2	21.65	7.89	33.01	95.40	6.6	3.0	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR4(N3)	9:51	3.0	Bottom	3	1	21.63	7.87	33.28	95.00	6.6	3.2	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR4(N3)	9:51	3.0	Bottom	3	2	21.60	7.88	33.31	95.20	6.6	3.1	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:10	1.0	Surface	1	1	21.58	7.92	33.07	94.90	6.5	3.1	1.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:10	1.0	Surface	1	2	21.59	7.91	33.07	94.70	6.5	3.1	1.6
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:10	5.0	Middle	2	1	21.52	7.92	33.16	94.00	6.4	3.4	2.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:10	5.0	Middle	2	2	21.51	7.91	33.17	94.20	6.5	3.4	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:10	8.9	Bottom	3	1	21.51	7.92	33.18	94.30	6.5	3.8	3.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR5(N)	10:09	8.9	Bottom	3	2	21.50	7.91	33.18	94.50	6.5	3.7	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:12	1.0	Surface	1	1	21.57	7.89	33.42	98.10	6.7	2.8	2.4
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:11	1.0	Surface	1	2	21.74	7.89	33.29	95.00	6.5	2.9	2.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:11	6.3	Middle	2	1	21.61	7.89	33.43	93.50	6.4	3.1	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:11	6.3	Middle	2	2	21.62	7.89	33.43	94.10	6.4	3.1	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:11	11.6	Bottom	3	1	21.62	7.89	33.43	93.70	6.4	3.6	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10A(N)	9:10	11.6	Bottom	3	2	21.62	7.89	33.43	94.10	6.4	3.6	3.3
HKLR HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10B(N2)	9:01 9:01	1.0	Surface	1	2	21.75 21.77	7.89 7.87	33.29 33.29	100.10 99.80	6.8	2.9	2.5
HKLR	HY/2011/03 HY/2011/03	2023-03-13 2023-03-13	Mid-Flood Mid-Flood	Fine Fine	SR10B(N2) SR10B(N2)	9:00	1.0 4.6	Surface Middle	2	1	21.77	7.87	33.29	97.70	6.8 6.7	3.0 3.2	3.3
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10B(N2)	9:01	4.6	Middle	2	2	21.66	7.88	33.35	96.00	6.5	3.1	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10B(N2)	9:01	8.1	Bottom	3	1	21.65	7.88	33.40	95.30	6.5	3.4	3.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	SR10B(N2)	9:00	8.1	Bottom	3	2	21.61	7.87	33.45	95.20	6.5	3.5	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:58	1.0	Surface	1	1	21.58	7.92	33.08	94.60	6.5	3.2	2.3
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:59	1.0	Surface	1	2	21.57	7.91	33.07	94.80	6.5	3.3	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:59	3.3	Middle	2	1	21.52	7.91	33.13	94.10	6.4	3.5	2.6
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:58	3.3	Middle	2	2	21.53	7.92	33.13	94.20	6.4	3.7	2.7
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:58	5.5	Bottom	3	1	21.49	7.92	33.18	94.30	6.5	3.6	3.0
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS2(A)	10:59	5.5	Bottom	3	2	21.50	7.91	33.19	94.20	6.5	3.8	3.1
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:05	1.0	Surface	1	1	21.75	7.89	33.13	96.00	6.5	2.8	2.5
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:05	1.0	Surface	1	2	21.71	7.86	33.18	95.60	6.6	2.8	2.1
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:05	6.4	Middle	2	1	21.42	7.88	33.64	93.10	6.4	3.1	2.9
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:04	6.4	Middle	2	2	21.42	7.86	33.64	94.40	6.5	3.1	3.2
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:04	11.7	Bottom	3	1	21.42	7.85	33.72	93.90	6.5	3.5	3.8
HKLR	HY/2011/03	2023-03-13	Mid-Flood	Fine	CS(Mf)5	9:05	11.7	Bottom	3	2	21.42	7.86	33.74	93.70	6.4	3.5	3.5
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:25	1.0	Surface	1	1	20.77	8.06	32.24	103.60	7.1	4.4	4.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:26	1.0	Surface	1	2	20.79	8.06	32.28	103.00	7.0	4.1	4.0
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:25	4.2	Middle	2	1	20.55	8.05	32.74	103.30	7.1	4.1	3.7
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:26	4.2	Middle	2	2	20.56	8.05	32.79	102.30	7.0	4.4	3.9
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:26	7.3	Bottom	3	1	20.58	8.05	32.78	102.20	7.0	4.2	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS5	18:25	7.3	Bottom	3	2	20.57	8.05	32.76	103.30	7.1	4.1	3.3
HKLR HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)6	18:37	1.0	Surface	1	1 2	20.82 20.83	8.05	32.23 32.28	103.40 103.20	7.0 7.0	4.5 4.5	2.4
HKLR	HY/2011/03 HY/2011/03	2023-03-15 2023-03-15	Mid-Ebb Mid-Ebb	Cloudy	IS(Mf)6 IS(Mf)6	18:37 18:37	1.0 2.1	Surface	3	1	20.83	8.05 8.04	32.28	103.20	7.0	4.5	3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)6	18:37	2.1	Bottom Bottom	3	2	20.78	8.04	32.35	103.20	7.0	4.5	3.0
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS7	18:48	1.0	Surface	1	1	20.80	8.07	32.44	104.20	7.0	4.8	3.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS7	18:49	1.0	Surface	1	2	20.79	8.07	32.23	104.20	7.1	4.8	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS7	18:48	2.1	Bottom	3	1	20.77	8.06	32.46	104.00	7.1	4.8	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS7	18:48	2.1	Bottom	3	2	20.74	8.06	32.43	103.90	7.1	4.7	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS8(N)	19:19	1.0	Surface	1	1	20.80	8.06	32.39	103.30	7.0	4.4	2.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS8(N)	19:19	1.0	Surface	1	2	20.82	8.06	32.38	103.00	7.0	4.3	2.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS8(N)	19:19	3.0	Bottom	3	1	20.77	8.05	32.65	102.60	7.0	4.4	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS8(N)	19:19	3.0	Bottom	3	2	20.80	8.05	32.59	102.90	7.0	4.3	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)9	18:56	1.0	Surface	1	1	20.83	8.04	32.27	104.20	7.1	4.2	3.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)9	18:56	1.0	Surface	1	2	20.76	8.06	32.27	104.00	7.1	4.2	3.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)9	18:56	2.5	Bottom	3	1	20.66	8.03	32.46	104.10	7.1	4.3	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS(Mf)9	18:56	2.5	Bottom	3	2	20.65	8.06	32.42	104.20	7.1	4.2	3.0
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:17	1.0	Surface	1	1	21.23	8.09	32.46	103.10	7.0	4.5	2.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:17	1.0	Surface	1	2	21.22	8.08	32.43	102.90	7.0	4.6	2.7
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:17	5.4	Middle	2	1	20.97	8.08	32.95	102.70	7.0	4.6	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:16	5.4	Middle	2	2	20.96	8.08	32.95	102.60	7.0	4.6	3.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:16	9.7	Bottom	3	1	21.01	8.08	32.87	102.20	7.0	4.6	4.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	IS10(N)	19:17	9.7	Bottom	3	2	21.03	8.08	32.95	102.50	7.0	4.5	3.9
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR3(N)	18:16	1.0	Surface	1	1	20.85	8.03	32.21	104.70	7.3	4.2	3.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR3(N)	18:17	1.0	Surface	1	2	20.86	8.03	32.14	104.70	7.3	4.2	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR3(N)	18:16	2.1	Bottom	3	1	20.82	8.02	32.38	104.30	7.2	4.2	3.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR3(N)	18:17	2.1	Bottom	3	2	20.83	8.03	32.29	105.30	7.3	4.3	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR4(N3)	19:09	1.0	Surface	1	1	20.75	8.08	32.35	104.30	7.1	4.5	1.9
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR4(N3)	19:09	1.0	Surface	1	2	20.75	8.08	32.31	104.10	7.1	4.4	1.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR4(N3)	19:09	2.7	Bottom	3	1	20.61	8.07	32.59	104.20	7.1	4.5	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR4(N3)	19:09	2.7	Bottom	3	2	20.65	8.08	32.58	104.30	7.1	4.4	2.7
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:05	1.0	Surface	1	1	21.28	8.08	32.39	102.40	7.0	4.7	1.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:06	1.0	Surface	1	2	21.28	8.08	32.40	102.10	6.9	4.7	1.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:06	4.4	Middle	2	1	20.99	8.08	32.90	101.80	6.9	4.7	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:05	4.4	Middle	2	2	21.03	8.08	32.84	102.30	7.0	4.7	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:05	7.7	Bottom	3	1	21.07	8.08	32.81	101.90	6.9	4.7	3.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR5(N)	19:05	7.7	Bottom	3	2	21.06	8.07	32.82	101.60	6.9	4.8	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10A(N)	20:02	1.0	Surface	1	1	21.22	8.09	32.46	101.90	6.9	4.5	3.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10A(N)	20:01	1.0	Surface	1	2	21.25	8.09	32.51	102.40	7.0	4.6	3.7
HKLR HKLR	HY/2011/03	2023-03-15 2023-03-15	Mid-Ebb	Cloudy	SR10A(N)	20:01	6.0	Middle	2	2	20.94 20.96	8.08	32.95 32.95	101.60	6.9 7.0	4.5 4.6	2.8 3.2
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Ebb Mid-Ebb	Cloudy	SR10A(N) SR10A(N)	20:01	6.0 11.0	Middle	3	1	20.96	8.08 8.09	32.95	102.10 101.40	6.9	4.6	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10A(N)	20:01	11.0	Bottom Bottom	3	2	20.95	8.09	32.84	101.40	6.9	4.6	2.3
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10A(N)	20:01	1.0	Surface	1	1	21.21	8.07	32.36	102.50	7.0	4.5	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10B(N2)	20:11	1.0	Surface	1	2	21.22	8.07	32.40	102.00	6.9	4.6	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10B(N2)	20:12	4.1	Middle	2	1	20.96	8.06	32.87	100.80	6.9	4.6	2.9
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10B(N2)	20:11	4.1	Middle	2	2	20.95	8.06	32.85	102.10	7.0	4.6	2.7
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10B(N2)	20:11	7.1	Bottom	3	1	21.04	8.06	32.91	100.80	6.9	4.6	3.3
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	SR10B(N2)	20:11	7.1	Bottom	3	2	21.03	8.06	32.85	101.70	6.9	4.6	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:19	1.0	Surface	1	1	21.15	8.09	32.41	101.60	6.9	4.8	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:19	1.0	Surface	1	2	21.20	8.09	32.49	102.00	7.0	4.8	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:18	3.1	Middle	2	1	20.97	8.08	32.90	101.90	6.9	4.8	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:19	3.1	Middle	2	2	20.95	8.08	32.91	101.50	6.9	4.7	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:19	5.2	Bottom	3	1	20.98	8.08	32.93	101.10	6.9	4.8	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS2(A)	18:18	5.2	Bottom	3	2	20.99	8.08	32.94	101.20	6.9	4.8	3.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:08	1.0	Surface	1	1	20.82	8.10	32.13	101.30	6.9	4.2	2.7
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:07	1.0	Surface	1	2	20.75	8.07	32.18	101.50	6.9	4.3	2.9
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:07	6.1	Middle	2	1	20.53	8.05	32.80	100.90	6.9	4.5	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:07	6.1	Middle	2	2	20.54	8.08	32.83	101.20	6.9	4.6	2.4
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:06	11.2	Bottom	3	1	20.55	8.04	32.79	100.50	6.8	4.5	2.3
HKLR	HY/2011/03	2023-03-15	Mid-Ebb	Cloudy	CS(Mf)5	20:07	11.2	Bottom	3	2	20.57	8.07	32.85	100.90	6.9	4.5	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:41	1.0	Surface	1	1	20.86	8.09	32.27	102.80	7.1	4.4	4.4
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:41	1.0	Surface	1	2	20.78	8.09	32.13	104.40	7.2	4.4	4.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:40	4.1	Middle	2	1	20.58	8.09	32.73	102.60	7.1	4.3	3.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:41	4.1	Middle	2	2	20.58	8.09	32.72	103.90	7.2	4.4	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:40	7.1	Bottom	3	1	20.59	8.09	32.77	101.80	7.0	4.3	3.3
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS5	6:41	7.1	Bottom	3	2	20.60	8.09	32.77	102.60	7.1	4.5	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)6	6:30	1.0	Surface	1	1	20.77	8.11	32.16	102.60	7.1	4.7	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)6	6:30	1.0	Surface	1	2	20.72	8.09	32.14	102.80	7.1	4.8	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)6	6:30	2.1	Bottom	3	1	20.69	8.11	32.48	102.50	7.1	4.7	3.3
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)6	6:30	2.1	Bottom	3	2	20.65	8.08	32.49	102.80	7.1	4.8	3.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS7	6:20	1.0	Surface	1	1	20.83	8.13	32.19	103.80	7.2	4.5	2.1
HKLR HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS7	6:19 6:19	1.0	Surface	3	2	20.83	8.13 8.13	32.27 32.48	104.00	7.2	4.6	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-15 2023-03-15	Mid-Flood Mid-Flood	Cloudy Cloudy	IS7	6:19	2.0	Bottom Bottom	3	2	20.75	8.13	32.48	103.60 103.90	7.2 7.2	4.5 4.6	2.8
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS8(N)	5:50	1.0	Surface	1	1	20.71	8.12	32.52	103.90	7.2	4.6	2.5
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS8(N)	5:50	1.0	Surface	1	2	20.79	8.10	32.21	103.00	7.1	4.1	3.1
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS8(N)	5:49	3.0	Bottom	3	1	20.77	8.10	32.18	102.80	7.1	4.2	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS8(N)	5:50	3.0	Bottom	3	2	20.72	8.09	32.49	102.00	7.1	4.1	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)9	6:10	1.0	Surface	1	1	20.72	8.11	32.43	102.30	7.1	4.5	2.4
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)9	6:09	1.0	Surface	1	2	20.85	8.11	32.16	102.20	7.0	4.5	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)9	6:10	2.6	Bottom	3	1	20.78	8.10	32.42	101.80	7.0	4.5	3.7
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS(Mf)9	6:09	2.6	Bottom	3	2	20.78	8.10	32.36	102.10	7.0	4.4	3.2
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:29	1.0	Surface	1	1	21.24	8.05	32.26	102.80	7.0	4.5	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:29	1.0	Surface	1	2	21.11	8.06	32.47	102.60	7.0	4.5	2.7
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:28	5.5	Middle	2	1	20.87	8.05	32.95	102.80	7.0	4.5	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:29	5.5	Middle	2	2	20.87	8.05	32.95	102.40	7.0	4.5	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:28	9.9	Bottom	3	1	20.91	8.05	32.90	102.20	7.0	4.5	3.4
TINEIN	/2011/03	2023 03 13	.7110 1 1000	Cloudy	1210(14)	3.20	5.5	Doctorii	, ,		20.51	0.03	32.30	102.20	7.0	7.5	0.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	IS10(N)	5:29	9.9	Bottom	3	2	20.91	8.05	32.89	102.00	7.0	4.6	3.2
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR3(N)	6:50	1.0	Surface	1	1	20.85	8.11	32.21	102.20	6.9	4.6	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR3(N)	6:51	1.0	Surface	1	2	20.85	8.11	32.18	101.90	6.9	4.5	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR3(N)	6:50	2.0	Bottom	3	1	20.80	8.10	32.47	101.50	6.9	4.6	3.7
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR3(N)	6:51	2.0	Bottom	3	2	20.78	8.10	32.46	101.80	6.9	4.5	3.9
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR4(N3)	6:00	1.0	Surface	1	1	20.84	8.12	32.18	102.70	7.1	4.3	2.9
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR4(N3)	6:00	1.0	Surface	1	2	20.86	8.12	32.17	102.60	7.1	4.4	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR4(N3)	6:00	2.6	Bottom	3	1	20.73	8.11	32.45	102.40	7.0	4.5	4.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR4(N3)	5:59	2.6	Bottom	3	2	20.73	8.11	32.50	102.60	7.1	4.3	4.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	1.0	Surface	1	1	21.22	8.07	32.39	102.50	7.0	4.7	2.4
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	1.0	Surface	1	2	21.19	8.07	32.42	102.50	7.0	4.7	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	4.4	Middle	2	1	20.94	8.06	32.93	101.70	6.9	4.7	3.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	4.4	Middle	2	2	20.95	8.06	32.93	102.10	7.0	4.7	2.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	7.7	Bottom	3	1	20.98	8.07	32.86	102.00	7.0	4.8	3.6
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR5(N)	5:39	7.7	Bottom	3	2	20.94	8.07	32.84	101.60	6.9	4.8	3.4
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR10A(N)	4:42	1.0	Surface	1	1	21.13	8.07	32.46	102.50	7.0	4.7	3.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR10A(N)	4:41	1.0	Surface	1	2	21.10	8.07	32.38	102.50	7.0	4.8	3.5
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-15 2023-03-15	Mid-Flood Mid-Flood	Cloudy	SR10A(N) SR10A(N)	4:41 4:42	6.1 6.1	Middle Middle	2	2	20.87	8.06 8.06	32.81 32.83	102.20 102.10	7.0 7.0	4.8	2.7
HKLR	, - ,			Cloudy			11.1										
HKLR	HY/2011/03 HY/2011/03	2023-03-15 2023-03-15	Mid-Flood Mid-Flood	Cloudy	SR10A(N) SR10A(N)	4:41 4:41	11.1	Bottom Bottom	3	2	20.89	8.06 8.06	32.83 32.85	101.90 102.10	6.9 7.0	4.8 4.8	1.8
HKLR	HY/2011/03 HY/2011/03	2023-03-15	Mid-Flood		SR10A(N) SR10B(N2)	4:41	1.0			1	20.91	8.06	32.85	102.10	7.0	4.8	2.4
HKLR	HY/2011/03		Mid-Flood	Cloudy		4:31		Surface	1	2	21.12	8.07	32.43	102.30	7.0	4.6	2.4
HKLR	HY/2011/03 HY/2011/03	2023-03-15 2023-03-15	Mid-Flood	Cloudy Cloudy	SR10B(N2) SR10B(N2)	4:31	1.0	Surface Middle	2	1	20.89	8.07	32.43	102.40	7.0	4.6	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR10B(N2)	4:31	4	Middle	2	2	20.89	8.07	32.94	102.00	6.9	4.6	2.3
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR10B(N2)	4:30	7.0	Bottom	3	1	20.88	8.06	32.92	101.60	6.9	4.7	1.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	SR10B(N2)	4:31	7.0	Bottom	3	2	20.88	8.07	32.89	101.00	6.9	4.6	1.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:28	1.0	Surface	1	1	21.16	8.07	32.47	102.00	6.9	4.6	1.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:27	1.0	Surface	1	2	21.10	8.09	32.47	103.20	7.0	4.6	1.7
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:27	3.2	Middle	2	1	20.91	8.08	32.47	103.20	7.0	4.6	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:28	3.2	Middle	2	2	20.91	8.08	32.94	101.90	6.9	4.6	2.2
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:27	5.4	Bottom	3	1	20.97	8.09	32.89	101.70	6.9	4.6	3.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS2(A)	6:27	5.4	Bottom	3	2	20.98	8.09	32.86	101.70	6.9	4.5	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:06	1.0	Surface	1	1	20.81	8.12	32.36	101.20	7.0	4.4	2.8
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:07	1.0	Surface	1	2	20.77	8.15	32.23	102.80	7.1	4.4	2.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:07	5.9	Middle	2	1	20.54	8.13	32.77	102.30	7.0	4.4	3.1
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:06	5.9	Middle	2	2	20.53	8.10	32.82	101.00	6.9	4.5	3.5
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:07	10.8	Bottom	3	1	20.54	8.12	32.83	101.00	6.9	4.3	4.0
HKLR	HY/2011/03	2023-03-15	Mid-Flood	Cloudy	CS(Mf)5	5:06	10.8	Bottom	3	2	20.52	8.09	32.84	100.20	6.9	4.5	3.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:26	1.0	Surface	1	1	22.13	7.86	32.95	97.60	6.6	3.8	2.5
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:27	1.0	Surface	1	2	22.13	7.84	32.98	97.70	6.6	3.7	2.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:27	4.3	Middle	2	1	22.00	7.84	33.20	96.30	6.5	4.0	3.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:26	4.3	Middle	2	2	21.97	7.84	33.22	96.30	6.5	4.0	2.9
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:26	7.5	Bottom	3	1	22.01	7.83	33.20	96.60	6.5	4.2	3.6
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS5	20:26	7.5	Bottom	3	2	21.94	7.84	33.23	95.90	6.5	4.2	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)6	20:37	1.0	Surface	1	1	22.19	7.87	32.88	101.20	6.8	4.0	3.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)6	20:37	1.0	Surface	1	2	22.18	7.87	32.89	100.00	6.7	3.9	3.5
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)6	20:37	2.1	Bottom	3	1	22.11	7.86	32.96	99.40	6.7	4.1	4.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)6	20:37	2.1	Bottom	3	2	22.04	7.87	33.01	97.60	6.6	4.2	4.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS7	20:46	1.0	Surface	1	1	22.14	7.87	32.81	98.70	6.7	3.8	5.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS7	20:46	1.0	Surface	1	2	22.11	7.86	32.82	98.90	6.7	4.0	4.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS7	20:46	2.2	Bottom	3	1	22.06	7.87	32.95	98.90	6.7	4.2	4.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS7	20:46	2.2	Bottom	3	2	22.08	7.86	32.92	98.70	6.7	4.1	4.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS8(N)	21:19	1.0	Surface	1	1	21.96	7.86	32.90	95.40	6.5	3.6	4.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS8(N)	21:19	1.0	Surface	1	2	22.02	7.87	32.84	96.30	6.5	3.7	3.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS8(N)	21:19	3.0	Bottom	3	1	21.97	7.85	33.03	95.70	6.5	3.9	4.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS8(N)	21:19	3.0	Bottom	3	2	21.87	7.86	33.14	95.00	6.4	3.9	5.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)9	20:57	1.0	Surface	1	1	22.22	7.88	32.76	100.20	6.7	3.6	4.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)9	20:56	1.0	Surface	1	2	22.21	7.87	32.78	99.60	6.7	3.7	3.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)9	20:56	2.5	Bottom	3	1	22.14	7.86	32.90	98.90	6.7	3.9	5.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS(Mf)9	20:56	2.5	Bottom	3	2	22.19	7.87	32.90	99.80	6.7	3.9	5.5
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:10	1.0	Surface	1	1	22.18	7.80	31.68	91.00	6.1	4.2	4.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:09	1.0	Surface	1	2	22.13	7.80	31.73	89.70	6.0	4.2	3.9
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:09	5.2	Middle	2	1	22.00	7.79	32.67	89.20	5.9	4.3	3.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:09	5.2	Middle	2	2	22.01	7.79	32.68	89.60	6.0	4.3	3.6
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:09	9.4	Bottom	3	1	22.01	7.79	32.73	89.40	6.0	4.4	2.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	IS10(N)	21:09	9.4	Bottom	3	2	22.04	7.79	32.67	89.30	5.9	4.5	2.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR3(N)	20:15	1.0	Surface	1	1	22.19	7.88	32.92	101.40	6.8	3.9	3.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR3(N)	20:15	1.0	Surface	1	2	22.17	7.88	32.93	100.70	6.8	3.8	3.2
HKLR HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR3(N)	20:15	2.3	Bottom	3	1	22.17	7.88	32.94	100.20	6.8	4.2	2.9
	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR3(N)	20:15	2.3	Bottom	3	2	22.13	7.88	32.99	99.90	6.7		2.6
HKLR HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR4(N3)	21:09	1.0	Surface	1	2	22.08 22.05	7.86 7.86	32.69	96.10 95.80	6.5 6.5	3.8 3.9	2.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR4(N3)	21:09	2.9	Surface	3	1	22.05		32.76	95.80			3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-17 2023-03-17	Mid-Ebb Mid-Ebb	Fine Fine	SR4(N3) SR4(N3)	21:09 21:09	2.9	Bottom Bottom	3	2	22.06	7.85 7.84	32.90 32.86	95.90	6.5 6.5	4.2 4.1	2.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:09	1.0	Surface	1	1	22.06	7.80	31.61	90.30	6.0	3.6	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:01	1.0	Surface	1	2	22.13	7.80	31.63	90.20	6.0	3.6	3.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:01	5.0	Middle	2	1	22.11	7.79	32.53	89.60	6.0	3.7	2.8
HKLR	HY/2011/03 HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:00	5.0	Middle	2	2	22.03	7.79	32.33	89.70	6.0	3.8	2.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:01	9.0	Bottom	3	1	22.02	7.79	32.49	90.20	6.0	4.4	1.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR5(N)	21:00	9.0	Bottom	3	2	22.01	7.79	32.71	90.70	6.0	4.3	1.6
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:03	1.0	Surface	1	1	22.00	7.83	33.12	91.40	6.1	3.5	2.5
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:02	1.0	Surface	1	2	22.01	7.83	33.09	89.60	6.0	3.5	2.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:02	6.7	Middle	2	1	21.84	7.81	33.66	88.40	5.9	3.8	3.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:03	6.7	Middle	2	2	21.88	7.82	33.49	88.10	5.9	3.8	2.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:02	12.3	Bottom	3	1	21.85	7.82	33.65	88.50	5.9	3.9	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10A(N)	22:03	12.3	Bottom	3	2	21.89	7.82	33.47	88.30	5.9	3.8	3.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:12	1.0	Surface	1	1	22.02	7.83	33.12	89.20	5.9	3.5	4.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:13	1.0	Surface	1	2	21.99	7.82	33.20	89.30	6.0	3.6	3.6
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:12	3.8	Middle	2	1	21.92	7.82	33.32	88.20	5.9	3.8	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:13	3.8	Middle	2	2	21.93	7.81	33.29	88.50	5.9	3.8	3.1
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:12	6.5	Bottom	3	1	21.90	7.82	33.45	88.50	5.9	4.1	2.7
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	SR10B(N2)	22:13	6.5	Bottom	3	2	21.92	7.81	33.39	88.70	5.9	4.1	2.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:12	1.0	Surface	1	1	22.10	7.81	31.69	93.80	6.3	3.7	2.6
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:13	1.0	Surface	1	2	22.16	7.81	31.58	92.40	6.2	3.6	2.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:13	3.5	Middle	2	1	22.03	7.80	32.41	90.50	6.0	3.8	3.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:12	3.5	Middle	2	2	22.04	7.82	32.37	91.60	6.1	3.9	2.9
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:12	6.0	Bottom	3	1	22.00	7.82	32.64	91.50	6.1	4.1	3.9
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS2(A)	20:13	6.0	Bottom	3	2	22.05	7.80	32.61	91.30	6.1	4.0	3.4
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:58	1.0	Surface	1	1	21.96	7.86	32.79	90.50	6.1	3.4	3.0
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:59	1.0	Surface	1	2	21.96	7.86	32.84	90.40	6.1	3.3	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:59	6.4	Middle	2	1	21.70	7.81	33.56	88.10	5.9	3.6	2.8
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:58	6.4	Middle	2	2	21.67	7.82	33.62	88.40	5.9	3.6	2.5
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:59	11.8	Bottom	3	1	21.70	7.81	33.27	87.60	5.9	3.8	2.2
HKLR	HY/2011/03	2023-03-17	Mid-Ebb	Fine	CS(Mf)5	21:58	11.8	Bottom	3	2	21.60	7.81	33.74	87.40	5.9	3.8	2.1
HKLR	HY/2011/03	2023-03-17	Mid-Flood	Fine	IS5	10:05	1.0	Surface	1	1	21.89	7.86	32.87	92.50	6.3	3.4	3.3
HKLR	HY/2011/03	2023-03-17	Mid-Flood	Fine	IS5	10:04	1.0	Surface	1	2	21.87	7.87	32.92	94.40	6.4	3.5	3.0
HKLR	HY/2011/03	2023-03-17	Mid-Flood	Fine	IS5	10:04	4.3	Middle	2	1	21.65	7.84	33.42	91.10	6.1	4.0	2.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-17 2023-03-17	Mid-Flood Mid-Flood	Fine	IS5 IS5	10:04 10:04	4.3	Middle	3	2	21.65 21.62	7.83 7.82	33.43 33.48	90.80	6.1 6.1	3.9	2.8
				Fine			7.5	Bottom								4.3	
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-17 2023-03-17	Mid-Flood Mid-Flood	Fine Fine	IS5 IS(Mf)6	10:04 9:54	7.5 1.0	Bottom Surface	3	2	21.62 21.94	7.83 7.85	33.50 32.87	91.00 94.80	6.1 6.4	4.3	2.1
HKLR						9:54				2	21.94	7.85		94.80		3.3	2.0
HKLR	HY/2011/03 HY/2011/03	2023-03-17 2023-03-17	Mid-Flood Mid-Flood	Fine Fine	IS(Mf)6 IS(Mf)6	9:54	1.0 2.2	Surface	3	1	21.96	7.85	32.86 33.07	95.20	6.4 6.4	3.3	3.3
HKLR	HY/2011/03 HY/2011/03	2023-03-17			IS(Mf)6			Bottom	3	2	21.88	7.85	33.07	94.80		3.9	2.9
HKLR	HY/2011/03 HY/2011/03		Mid-Flood	Fine	IS(IVIT)6	9:54 9:44	2.2 1.0	Bottom	1	1	21.83	7.84	33.13	94.70	6.4	3.9	2.9
HKLR	HY/2011/03 HY/2011/03	2023-03-17 2023-03-17	Mid-Flood Mid-Flood	Fine Fine	IS7	9:44	1.0	Surface Surface	1	2	21.87	7.85	32.65	93.40	6.3	3.8	2.9
HKLR						9:44	2.2		3	1	21.88	7.85	32.65	93.80	6.3	3.6	3.2
HKLK	HY/2011/03	2023-03-17	Mid-Flood	Fine	IS7	9:44	2.2	Bottom	3	1	21.85	7.84	32.79	93.20	0.3	3.9	3.2

HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS7 9:44 2.2 Bottom 3 2 21.83 7.84 32.79 93.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:13 1.0 Surface 1 1 21.84 7.85 32.56 92.7 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 1.0 Surface 1 2 21.85 7.86 32.51 93.0 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 1 21.82 7.84 32.86 92.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 2 21.75 7.85 32.94 93.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 2 21.75 7.85 32.94 93.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:13 3.0 Bottom 3 2 21.75 7.85 32.94 93.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:13 3.0 Bottom 3 2 21.75 7.85 32.66 93.7 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(M) 9:36 1.0 Surface 1 1 21.87 7.85 32.65 93.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(M) 9:36 1.0 Surface 1 2 21.87 7.85 32.65 93.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(M) 9:36 2.5 Bottom 3 1 21.83 7.84 32.75 93.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(M) 9:36 2.5 Bottom 3 1 21.83 7.84 32.21 93.0 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 22.03 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.99 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.2	6.3 6.3 6.3 6.2 6.3 6.3 6.3 6.3 6.0 6.0	4.0 3.3 3.4 3.6 3.7 3.3 3.4 3.8 3.7 3.6	3.6 4.0 3.7 3.4 3.1 3.0 3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 1.0 Surface 1 2 21.85 7.86 32.51 93.0	6.3 6.2 6.3 6.3 6.3 6.3 6.3 6.0 6.0	3.4 3.6 3.7 3.3 3.4 3.8 3.7 3.6	3.7 3.4 3.1 3.0 3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 1 21.82 7.84 32.86 92.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 2 21.75 7.85 32.94 93.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 2 21.75 7.85 32.94 93.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(MF) 9:36 1.0 Surface 1 1 21.87 7.85 32.64 93.7 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(MF) 9:36 1.0 Surface 1 2 21.87 7.85 32.65 93.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(MF) 9:36 2.5 Bottom 3 1 21.83 7.84 32.75 93.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(MF) 9:36 2.5 Bottom 3 2 21.80 7.84 32.81 93.0 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 1.0 Surface 1 2 22.03 7.81 32.21 90.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 1 21.98 7.80 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2	6.2 6.3 6.3 6.3 6.3 6.3 6.0 6.0 5.9	3.6 3.7 3.3 3.4 3.8 3.7 3.6	3.4 3.1 3.0 3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS8(N) 9:12 3.0 Bottom 3 2 21.75 7.85 32.94 93.4	6.3 6.3 6.3 6.3 6.3 6.0 6.0	3.7 3.3 3.4 3.8 3.7 3.6	3.1 3.0 3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS(Mf)9 9:36 1.0 Surface 1 1 21.87 7.85 32.64 93.7	6.3 6.3 6.3 6.3 6.0 6.0	3.3 3.4 3.8 3.7 3.6	3.0 3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS(Mf)9 9:36 1.0 Surface 1 2 21.87 7.85 32.65 93.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS(Mf)9 9:36 2.5 Bottom 3 1 21.83 7.84 32.75 93.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS(Mf)9 9:36 2.5 Bottom 3 2 21.80 7.84 32.81 93.0 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 1.0 Surface 1 2 22.03 7.81 32.21 90.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2	6.3 6.3 6.3 6.0 6.0 5.9	3.4 3.8 3.7 3.6	3.5 3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS(Mf)9 9:36 2.5 Bottom 3 1 21.83 7.84 32.75 93.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 2 22.03 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 1 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.80 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.89 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.89 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.89 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 2 21.99 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.87 32.87 94.9	6.3 6.3 6.0 6.0 5.9	3.8 3.7 3.6	3.8 4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine ISI(Mf)9 9:36 2.5 Bottom 3 2 21.80 7.84 32.81 93.0 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 1.0 Surface 1 2 22.03 7.81 32.21 90.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 2 21.98 7.87 32.87 94.9	6.3 6.0 6.0 5.9	3.7 3.6	4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 1.0 Surface 1 1 22.04 7.81 32.21 89.6 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 1.0 Surface 1 2 22.03 7.81 32.21 90.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5	6.0 6.0 5.9	3.6	
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 1.0 Surface 1 2 22.03 7.81 32.21 90.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 1 21.98 7.89 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 <	6.0 5.9	_	1.9
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 5.3 Middle 2 1 21.97 7.79 32.46 88.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 <t< td=""><td>5.9</td><td>3.6</td><td>1.7</td></t<>	5.9	3.6	1.7
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 5.3 Middle 2 2 21.97 7.79 32.47 89.2 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.87 32.87 94.9		3.8	2.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:44 9.5 Bottom 3 1 21.98 7.80 32.47 89.4 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine IS10(N) 9:43 9.5 Bottom 3 2 21.99 7.79 32.47 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.87 32.87 94.9 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 2 21.98 7.87 32.87 94.9		3.8	2.4
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 1 21.98 7.86 32.90 94.5 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 2 21.98 7.87 32.87 94.9	6.0	4.3	3.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 1.0 Surface 1 2 21.98 7.87 32.87 94.9	6.0	4.2	3.4
	6.4	4.2	2.2
	6.4	4.1	2.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 2.3 Bottom 3 1 21.93 7.86 33.09 94.5	6.4	4.4	3.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR3(N) 10:15 2.3 Bottom 3 2 21.89 7.85 33.15 94.1		4.6	3.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR4(N3) 9:21 1.0 Surface 1 1 21.83 7.83 32.45 91.8	6.2	3.1	2.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR4(N3) 9:21 1.0 Surface 1 2 21.85 7.82 32.51 90.3	6.1	3.3	2.3
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR4(N3) 9:21 2.9 Bottom 3 1 21.81 7.81 32.87 91.0	6.1	3.4	3.3
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR4(N3) 9:21 2.9 Bottom 3 2 21.78 7.83 32.83 92.8	6.3	3.3	3.7
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR5(N) 9:53 1.0 Surface 1 1 22.03 7.81 32.23 89.8	6.0	3.4	3.3
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SRS(N) 9:54 1.0 Surface 1 2 22.04 7.81 32.22 90.2	6.0	3.3	3.5
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SRS(N) 9:53 5.0 Middle 2 1 21.99 7.81 32.37 89.0	5.9	3.5	2.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR5(N) 9:53 5.0 Middle 2 2 21.98 7.80 32.41 89.1 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR5(N) 9:52 8.9 Bottom 3 1 21.98 7.80 32.49 89.7	5.9 6.0	3.5 4.0	3.0 2.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR5(N) 9:52 8.9 Bottom 3 1 21.98 7.80 32.49 89.7 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR5(N) 9:53 8.9 Bottom 3 2 21.99 7.80 32.49 89.7	6.0	4.0	2.0
HKLR HY/2011/03 2023-03-17 Mild-Flood Fine SR10A(N) 8:53 1.0 Surface 1 1 22:02 7:80 32:29 89:5	6.0	3.2	3.3
HKIR HY/2011/03 2023-03-17 Mild-Flood Fine SR10A(N) 8:52 1.0 Surface 1 1 2 22:07 7:80 32:24 89.0	5.9	3.2	2.9
HKIR HY/2011/03 2023-03-17 Mid-Flood Fine SR10A(N) 8:52 6.7 Middle 2 1 21.99 7.79 32.55 88.2	5.9	3.3	3.6
HKIR HY/2011/03 2023-03-17 Mid-Flood Fine SR10A(N) 8:52 6.7 Middle 2 2 21.97 7.79 32.62 87.4	5.8	3.3	4.0
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10A(N) 8:52 12.3 Bottom 3 1 22.00 7.79 32.58 89.0	5.9	4.1	4.5
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10A(N) 8:52 12.3 Bottom 3 2 22.01 7.79 32.58 88.7	5.9	4.1	4.2
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:41 1.0 Surface 1 1 22.09 7.80 32.18 95.1	6.3	3.0	3.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:40 1.0 Surface 1 2 22.09 7.78 32.14 94.1	6.3	3.0	3.2
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:40 3.9 Middle 2 1 22.02 7.78 32.23 92.1	6.1	3.3	4.4
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:41 3.9 Middle 2 2 22.04 7.79 32.28 90.4	6.0	3.2	4.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:41 6.7 Bottom 3 1 22.02 7.77 32.41 88.9	5.9	3.5	5.2
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine SR10B(N2) 8:40 6.7 Bottom 3 2 22.00 7.77 32.42 88.1		3.5	4.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:46 1.0 Surface 1 1 22.04 7.81 32.23 90.0	6.0	3.8	3.7
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:46 1.0 Surface 1 2 22.04 7.81 32.23 90.0	6.0	3.8	3.4
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:45 3.5 Middle 2 1 22.01 7.81 32.30 89.2	6.0	4.2	2.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:46 3.5 Middle 2 2 22.01 7.81 32.32 89.4	6.0	4.0	3.1
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:46 6.0 Bottom 3 1 22.00 7.80 32.42 89.8	6.0	4.4	2.6
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS2(A) 10:45 6.0 Bottom 3 2 22.00 7.80 32.41 89.7 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(Mf)5 8:34 1.0 Surface 1 1 21.89 7.84 32.78 89.8	6.0	4.2	2.8
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(Mf)5 8:34 1.0 Surface 1 1 21.89 7.84 32.78 89.8 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(Mf)5 8:33 1.0 Surface 1 2 21.84 7.82 32.86 89.3	6.0	2.9 3.0	3.1 3.4
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(MT)5 8:33 1.0 Surface 1 2 21.84 7.82 32.86 89.3 HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(MT)5 8:34 6.5 Middle 2 1 21.59 7.81 33.50 86.8	5.8	3.0	3.4
HKLR HY/2011/03 2023-03-17 Mild-Flood Fine CS(Mf)5 8:33 6.5 Middle 2 1 21:39 7.81 33:30 88.2 HKLR HY/2011/03 2023-03-17 Mild-Flood Fine CS(Mf)5 8:33 6.5 Middle 2 2 21:56 7.80 33:49 88.2	5.9	3.2	3.4
HKLR HY/2011/03 2023-03-17 Mild-Flood Fine CS(Mf)5 8:34 11.9 Bottom 3 1 21.64 7.80 33.76 86.1	5.8	3.5	4.5
HKLR HY/2011/03 2023-03-17 Mid-Flood Fine CS(Mf)5 8:33 11.9 Bottom 3 2 21.62 7.80 33.73 87.2	5.9	3.5	4.2
HKIR HY/2011/03 2023-03-20 Mid-Ebb Fine IS5 11:14 1.0 Surface 1 1 22:48 7.86 30.86 90.4	6.3	3.5	1.7
HKIR HY/2011/03 2023-03-20 Mid-Ebb Fine IS5 11:15 1.0 Surface 1 2 22:50 7.86 30.87 90.8	6.4	3.6	1.9
HKIR HY/2011/03 2023-03-20 Mid-Ebb Fine IS5 11:14 4.3 Middle 2 1 22.31 7.85 31.20 89.8	6.3	3.9	2.3
HKIR HY/2011/03 2023-03-20 Mid-Ebb Fine IS5 11:15 4.3 Middle 2 2 22:33 7.85 31.19 89.7	6.3	3.9	2.1
HKLR HY/2011/03 2023-03-20 Mid-Ebb Fine ISS 11:15 7.5 Bottom 3 1 22:34 7.84 31.19 89.8	6.3	4.1	2.9
HKLR HY/2011/03 2023-03-20 Mid-Ebb Fine ISS 11:14 7.5 Bottom 3 2 22:32 7.85 31.21 90.2	6.3	4.0	2.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS(Mf)6	11:24	1.0	Surface	1	1	22.50	7.87	30.86	93.40	6.6	3.4	2.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS(Mf)6	11:24	1.0	Surface	1	2	22.48	7.88	30.86	92.70	6.5	3.4	2.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS(Mf)6	11:24	2.2	Bottom	3	1	22.46	7.87	30.98	91.60	6.4	3.6	3.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS(Mf)6	11:24	2.2	Bottom	3	2	22.41	7.88	30.99	91.00	6.4	3.7	3.3
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS7	11:33	1.0	Surface	1	1	22.51	7.87	30.86	91.40	6.4	3.3	3.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS7	11:33	1.0	Surface	1	2	22.49	7.86	30.88	91.50	6.4	3.5	2.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS7	11:33	2.3	Bottom	3	1	22.42	7.86	31.03	91.40	6.4	3.6	2.1
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS7	11:33	2.3	Bottom	3	2	22.45	7.86	30.99	91.10	6.4	3.7	2.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS8(N)	12:07	1.0	Surface	1	1	22.49	7.85	30.87	90.00	6.3	3.4	1.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS8(N)	12:07	1.0	Surface	1	2	22.51	7.86	30.84	90.40	6.3	3.4	1.8
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS8(N)	12:07	3.0	Bottom	3	1	22.45	7.85	31.00	90.20	6.3	3.7	2.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS8(N)	12:07	3.0	Bottom	-	2	22.40 22.51	7.84 7.87	31.06	89.70 90.90	6.3	3.7	2.8
HKLR HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS(Mf)9	11:44 11:44	1.0	Surface	1	2	22.51		30.87 30.87		6.4	3.3 3.4	3.8 4.1
HKLR	HY/2011/03 HY/2011/03	2023-03-20	Mid-Ebb Mid-Ebb	Fine	IS(Mf)9	11:44	1.0	Surface	3	1	22.50	7.86 7.86	31.04	90.80	6.4	3.4	2.4
HKLR	HY/2011/03 HY/2011/03	2023-03-20 2023-03-20	Mid-Ebb	Fine Fine	IS(Mf)9 IS(Mf)9	11:44	2.6 2.6	Bottom Bottom	3	2	22.44	7.85	31.04	90.80	6.4 6.4	3.5	2.4
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:07	1.0	Surface	1	1	22.37	7.83	31.25	87.70	6.2	4.0	1.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:08	1.0	Surface	1	2	22.37	7.90	31.24	87.90	6.2	3.9	1.7
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:07	5.3	Middle	2	1	22.29	7.89	31.57	87.30	6.1	4.1	2.1
HKLR	HY/2011/03 HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:07	5.3	Middle	2	2	22.29	7.89	31.57	87.40	6.1	4.1	2.3
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:07	9.5	Bottom	3	1	22.30	7.89	31.54	87.60	6.1	4.3	3.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS10(N)	12:07	9.5	Bottom	3	2	22.28	7.89	31.58	87.70	6.2	4.1	2.7
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR3(N)	11:03	1.0	Surface	1	1	22.50	7.87	30.86	93.70	6.6	3.6	3.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR3(N)	11:03	1.0	Surface	1	2	22.49	7.87	30.86	93.00	6.5	3.5	3.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR3(N)	11:03	2.3	Bottom	3	1	22.48	7.87	30.91	92.30	6.5	3.8	2.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR3(N)	11:03	2.3	Bottom	3	2	22.44	7.87	30.94	92.00	6.4	3.9	2.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR4(N3)	11:59	1.0	Surface	1	1	22.49	7.86	30.88	89.80	6.3	3.5	3.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR4(N3)	11:59	1.0	Surface	1	2	22.50	7.86	30.86	89.80	6.3	3.5	2.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR4(N3)	11:59	2.9	Bottom	3	1	22.45	7.84	31.00	89.20	6.2	3.9	3.8
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR4(N3)	11:59	2.9	Bottom	3	2	22.44	7.84	31.03	89.50	6.3	3.8	4.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:58	1.0	Surface	1	1	22.39	7.90	31.26	88.40	6.2	3.5	5.1
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:57	1.0	Surface	1	2	22.35	7.90	31.26	88.20	6.2	3.5	4.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:58	4.9	Middle	2	1	22.31	7.89	31.53	87.60	6.2	3.7	4.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:57	4.9	Middle	2	2	22.30	7.89	31.52	87.70	6.2	3.8	3.7
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:57	8.7	Bottom	3	1	22.29	7.90	31.57	87.90	6.2	4.1	3.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR5(N)	11:58	8.7	Bottom	3	2	22.29	7.89	31.57	87.90	6.2	4.2	3.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:01	1.0	Surface	1	1	22.41	7.89	31.48	89.00	6.2	3.3	2.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:02	1.0	Surface	1	2	22.41	7.89	31.48	89.70	6.3	3.4	2.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:01	6.4	Middle	2	1	22.33	7.90	31.73	87.60	6.1	3.6	3.4
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:01	6.4	Middle	2	2	22.32	7.89	31.74	87.10	6.1	3.6	3.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:01	11.8	Bottom	3	1	22.33	7.90	31.73	88.00	6.2	3.7	3.8
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10A(N)	13:01	11.8	Bottom	3	2	22.33	7.89	31.73	87.60	6.1	3.7	3.7
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:12	1.0	Surface	1	1	22.42	7.89	31.50	88.10	6.2	3.4	2.4
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:11	1.0	Surface	1	2	22.41	7.89	31.48	88.20	6.2	3.4	2.8
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:11	4.2	Middle	2	1	22.35	7.89	31.69	87.40	6.1	3.6	3.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:12	4.2	Middle	2	2	22.35	7.89	31.67	87.50	6.1	3.6	3.8
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:11	7.3	Bottom	3	1	22.35	7.89	31.70	87.80	6.2	3.8	4.4
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	SR10B(N2)	13:11	7.3	Bottom	3	2	22.35	7.89	31.68	87.50	6.1	3.8	4.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:05	1.0	Surface	1	1	22.31	7.89	31.26	90.20	6.4	3.6	2.3
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:06	1.0	Surface	1	2	22.31	7.89	31.26	89.60	6.3	3.5	2.5
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:05	3.3	Middle	2	1	22.26	7.89	31.50	88.60	6.2	3.8	2.9
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:06	3.3	Middle	2	2	22.27	7.89	31.51	88.40	6.2	3.6	3.2
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:05	5.6	Bottom	3	1	22.26	7.88	31.56	88.80	6.2	4.1	4.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS2(A)	11:05	5.6	Bottom	3	2	22.26	7.89	31.58	89.10	6.3	4.1	3.6
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS(Mf)5	12:49	1.0	Surface	1	1	22.54	7.86	31.10	87.70	6.1	3.4	4.3
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS(Mf)5	12:50	1.0	Surface	1	2	22.56	7.87	31.10	88.40	6.1	3.4	4.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS(Mf)5	12:49	6.4	Middle	2	1	22.18	7.82	31.72	85.90	6.0	3.5	3.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS(Mf)5	12:49	6.4	Middle	2	2	22.17	7.82	31.72	85.90	6.0	3.5	3.3
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	CS(Mf)5	12:49	11.8	Bottom	3	1	22.18	7.82	30.86	85.60	6.0	3.9	2.5

MAIR MYSELTON MASS MAS	Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HORD MYZD1193 2019-19-20 Mole Flood Fine 155 6-58 1.0 Surface 1 2 22.18 7.88 13.55 50.00 6.3 1.5 5.8 1.0 Surface 1 2 22.18 7.88 13.55 50.00 6.0 1.5 5.8 1.0 Surface 1 2 22.18 7.88 13.57 86.00 6.0 1.5 5.8 1.0 Surface 1 2 22.18 7.88 13.57 86.00 6.0 1.5 5.8 1.0 Surface 1 2 22.18 7.88 13.57 86.00 6.0 1.5 5.8 1.0 Surface 1 2 22.18 7.88 13.57 86.00 7.0 Surface 1 2 22.18 7.88 13.57 86.00 7.0 Surface 1 2 22.18 7.88 13.57 Surface 1 2 22.18 7.88 13.57 Surface 1 2 22.18 Surface 2 2 2 2 2 2 2 2 2	HKLR	HY/2011/03	2023-03-20	Mid-Ebb		CS(Mf)5	12:48	11.8	Bottom	3	2	22.16	7.82	31.72	85.40	6.0	3.8	2.2
Installa HY/2011/09 2020-20-20 Mode Flood Free 55 6598 4.2 Models 2 2 21155 7,84 31.57 85.00 6.1 3.6 3.8 1		, - ,							Surface									2.9
INCRR MY72511291 2022-0-20-20 Mod-Flood Free SS 6-59 4-2 Modelle 2 2 21.55 7.84 31.57 87.00 6.1 1.5 3.5 3.5 1.6 Modelle 2 2 21.55 7.84 31.57 87.00 6.1 1.5 3.5 3.5 1.6 Modelle 2 2 21.55 7.84 31.57 87.00 6.0 2.3 3.5 3.																		2.6
INCR. 117/201/05 2023-03-20 MelFolod Fine 55 65-8 7-4 Bettom 3 1 22-8 7-34 31.60 60.0 60 3.9 5.																		3.5
IMAR INF/2012/09 2023-09-20 Mod-Flood Fine SSD (5.58) 7.4																		3.1
INCRES 187/2013/195 2022-93-20 Miniffered Fine 15/MIN 6-89 1.0 Surface 1 2.221 7.88 33.24 89.30 6.2 3.3 2.8 187/2013/195 2022-93-20 Miniffered Fine 15/MIN 6-89 1.0 Surface 1 2.221 7.88 33.24 89.30 6.2 3.3 2.8 187/2013/195 2022-93-20 Miniffered Fine 15/MIN 6-88 2.2 Sutton 3 1 22.21 7.88 33.23 89.10 6.2 3.6 7.8 7																		3.7
MARIE MY/2011/03 2023-03-00 Mod-Flood Fine SSPMFID 6-89 1.0 Surface 1 2 22.31 7.88 31.35 88.30 6.2 3.3 2																		
MMRR MY/2011/03 2023-03-02 Mof-Plood Fine SSM65 6-80 2.2 Settom 3 1 22.11 7.88 31.31 89.10 6.2 3.6 2.						_ ` '												2.1
Section Sect																		2.4
MRIGR MY/2011/88 2023-03-20 Mid-Flood Free S7 6-39 1.0 Surface 1 2 22.24 7.88 31.26 89.50 6.2 3.1 2																		2.8
HAREA HI/7/2011/03 2023-03-20 Med-Flood Fine IS7 6-39 1.0 Surface 1 2 22.24 7.88 11.21 88.30 6.2 3.1 2.9																		2.3
HRIGR HY/2011/03 2023-03-00 Mid-Flood Fine IS7 6:39 2.3 Bettom 3 1 22.19 7.87 33.3 88.00 6.2 3.5 3.8 14.00 14.																		2.1
HMIRE HY/2011/03 2023-03-20 Mole-Flood Fine S7 6-39 2.3 Sottom 3 2 22.21 7.87 31.32 89.00 6.2 3.5 3.5 1.0 MIRE HY/2011/03 2023-03-20 Mole-Flood Fine ISS/ND 6.67 1.0 Surface 1 2 2.22 7.88 31.24 91.00 6.4 3.3 3.3 3.4 MIRE HY/2011/03 2023-03-20 Mole-Flood Fine ISS/ND 6.67 3.0 Sottom 3 1 2.17 7.87 31.34 90.00 6.4 3.3 3.5 2.4 1.0 3.0		, . ,																2.7
HMRR HY/2011/03 2023-03-20 MoleFlood Fine SSRN 6-08 1.0 Surface 1 2 22.20 788 31.24 91.60 6.4 3.3 3.																		3.0
HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 607 3.0 Bottom 3 1 22.17 7.87 31.43 90.20 6.3 3.5 2 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.07 3.0 Bottom 3 2 22.13 7.87 31.47 88.00 6.2 3.6 2.2 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.30 1.0 Surface 1 1 22.23 7.88 31.24 88.00 6.2 3.2 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.30 1.0 Surface 1 2 22.25 7.88 31.24 88.00 6.2 3.2 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.30 2.5 Bottom 3 1 22.23 7.87 31.34 88.50 6.2 3.6 4.4 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.30 2.5 Bottom 3 2 22.15 7.87 31.34 88.50 6.2 3.6 4.4 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.30 2.5 Bottom 3 2 22.15 7.87 31.34 88.50 6.1 3.5 4.4 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 1.0 Surface 1 2 22.29 7.30 31.25 88.50 6.3 3.4 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 5.3 Midelle 2 1 22.20 7.39 31.50 88.50 6.3 3.4 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 5.3 Midelle 2 2 2.20 7.39 31.50 88.60 6.2 3.7 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 5.3 Midelle 2 2 2.20 7.39 31.50 88.60 6.2 3.7 3.3 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 5.3 Midelle 2 2 2.20 7.39 31.50 88.60 6.2 3.3 2.5 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 6.32 5.3 Midelle 2 2 2.21 7.39 31.50 88.60 6.2 3.3 2.5 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 7.09 2.3 Bottom 3 2 2.21 7.39 31.50 88.60 6.2 3.3 2.5 HARR HV/2011/03 2023-03-20 Mid-Flood Fine ISRN 7.09 2.3 Bottom 3 2 2.21 7	HKLR									1	1							3.0
HMRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:07 3.0 Bottom 3 2 22.33 7.87 31.47 89.00 6:2 3.6 3.4 3.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 1.0 Surface 1 1 22.22 3.7 7.88 31.21 89.00 6:2 3.2 3.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 1.0 Surface 1 2 22.23 7.88 31.21 89.00 6:2 3.2 3.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 Bottom 3 1 22.23 7.87 31.34 88.50 6:2 3.6 4.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 Bottom 3 2 22.15 7.37 31.36 88.50 6:1 3.5 4.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 Bottom 3 2 22.215 7.37 31.36 88.50 6:1 3.5 4.1 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 Bottom 3 2 22.22 7.79 31.25 88.20 6:3 3.4 3.3 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 S.3 Middle 2 2 22.20 7.90 31.25 88.20 6:3 3.4 3.3 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 2.5 S.3 Middle 2 2 22.20 7.89 31.50 87.80 6:2 3.8 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 6:30 9:6 Bottom 3 1 22.21 7.79 31.51 88.50 6:2 3.8 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 7:09 1.0 Surface 1 2 22.20 7.78 31.50 87.79 6:1 3.8 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 7:09 1.0 Surface 1 2 22.21 7.78 31.55 88.80 6:2 4.2 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 7:09 1.0 Surface 1 2 22.20 7.78 31.26 87.90 6:1 3.8 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 7:09 1.0 Surface 1 2 22.20 7.78 31.26 87.90 6:1 3.8 2.4 HKRA HV/2011/03 2023-03-20 Mid-Flood Fine SSNN 7:09	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	IS8(N)	6:07	1.0	Surface	1	2	22.22	7.88	31.22	90.70	6.4	3.3	3.6
MRKB MY/2011/03 2023-03-20 Mole-Flood Fine ISM/PS 6:30 1.0 Surface 1 1 22.23 7.88 31.24 89.00 6.2 3.2 3.	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	IS8(N)	6:07	3.0	Bottom	3	1	22.17	7.87	31.43	90.20	6.3	3.5	2.4
MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(MIP) 6:30 1.0 Surface 1 2 22.25 7.88 31.21 88-10 6.2 3.2 3.2 3.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(MIP) 6:30 2.5 Bottom 3 2 22.15 7.87 31.34 88-20 6.1 3.5 4.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(MIP) 6:30 2.5 Bottom 3 2 22.15 7.87 31.36 88-20 6.1 3.5 4.4 MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:32 1.0 Surface 1 2 22.20 7.90 31.25 89-20 6.3 3.4 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:32 5.3 Middle 2 1 22.20 7.90 31.25 89-20 6.3 3.4 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:32 5.3 Middle 2 2 22.20 7.90 31.25 89-20 6.3 3.4 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:32 5.3 Middle 2 2 22.20 7.89 31.50 88-20 6.2 3.7 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:32 9.6 Bottom 3 1 22.21 7.89 31.52 88-80 6.2 4.2 2.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:31 9.6 Bottom 3 2 22.21 7.89 31.52 88-80 6.2 4.2 2.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine IS(DIN) 6:31 9.6 Bottom 3 2 22.21 7.89 31.52 88-80 6.2 4.2 2.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine SRRIN) 7:09 1.0 Surface 1 2 22.22 7.88 31.23 88.30 6.2 3.7 2.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine SRRIN) 7:09 1.0 Surface 1 2 22.22 7.88 31.23 88.30 6.2 3.7 2.4 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine SRRIN) 7:09 2.3 Bottom 3 2 22.14 7.87 31.37 87.00 6.1 3.9 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine SRRIN) 7:09 2.3 Bottom 3 2 22.14 7.87 31.37 87.00 6.1 3.9 3.3 MRAR MY/2011/03 2023-03-20 Molf-Flood Fine SRRINN 7:09 2.3 Bottom 3	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	IS8(N)	6:07	3.0	Bottom	3	2	22.13	7.87	31.47	89.00	6.2	3.6	2.7
HKKR MY/2011/03 2023-03-20 Mid-Flood Fine ISIMM 9 6-30 2.5 Bottom 3 1 22.23 7.87 31.14 88.50 6.2 3.6 4.4	HKLR	HY/2011/03		Mid-Flood	Fine	IS(Mf)9	6:30	1.0	Surface	1			7.88	31.24	89.00	6.2		3.0
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SigNthy 6:32 6:30 7.50 6:30 7.50 7		HY/2011/03	2023-03-20	Mid-Flood	Fine	IS(Mf)9	6:30	1.0	Surface		2				89.10	6.2		3.3
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SISION 6:32 1.0 Surface 1 2 22.22 7:99 31.25 83.50 6:3 3.4 3	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	IS(Mf)9	6:30	2.5	Bottom	3	1	22.23	7.87	31.34	88.50	6.2	3.6	4.4
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIONN 6-33 1.0 Surface 1 2 22.29 7.90 31.15 89.20 6.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3.3 3.4 3																		4.0
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-32 5-3 Middle 2 1 22.20 7.89 31.50 87.80 6.2 3.7 3.8 HKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-32 5-3 Middle 2 2 22.20 7.89 31.50 88.50 6.2 3.8 3.8 S. 4.2 2.9 KKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-32 9-6 Bottom 3 1 22.21 7.89 31.51 88.30 6.2 4.2 2.2 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-31 9-6 Bottom 3 2 22.21 7.89 31.52 88.30 6.2 4.2 2.2 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 7.09 1.0 Surface 1 1 22.20 7.87 31.36 87.90 6-1 3.8 3.8 2.2 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 7.09 1.0 Surface 1 2 22.22 7.88 31.21 88.30 6-2 3.7 2.2 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 7.09 2.3 Bottom 3 2 22.21 7.89 31.53 8.87.70 6-1 3.9 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 7.08 2.3 Bottom 3 2 22.14 7.87 31.37 87.00 6-1 3.9 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 7.08 2.3 Bottom 3 2 22.14 7.87 31.37 87.00 6-1 3.9 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-12 1.0 Surface 1 2 22.18 7.87 31.33 89.00 6-2 3.4 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-12 1.0 Surface 1 2 22.18 7.87 31.34 88.00 6-2 3.4 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-12 1.0 Surface 1 2 22.18 7.87 31.34 88.00 6-2 3.4 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-12 1.0 Surface 1 2 22.21 7.89 31.54 88.00 6-2 3.4 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIQN 6-12 1.0 Surface 1 2 22.22 7.90 31.25 88.00 6-2 3.4 3.3 MKIR HY/2011/03 2023-03-20 Mid-Flood Fine																		3.4
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISI0(N) 6-32 5-3 Middle 2 2 2-2.0 7.89 31.149 88.60 6.2 3.8 8.2 1.8						` '												3.7
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine ISIO(N) 6:32 9:6 Bottom 3 1 12:21 7.59 31:51 88:30 6:2 4.2 2.																		3.1
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SISION 6:31 9:6 Bettom 3 2 22:21 7.89 31:52 88:80 6:2 4.2 2 2 2 2 2 2 2 2 2																		2.8
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SR3(N) 7:09 1.0 Surface 1 1 22.20 7.87 31.26 87:90 6.1 3.8 2.																		2.2
HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SR3(N) 7:09 1.0 Surface 1 2 22.22 7.88 31.23 88.30 6.2 3.7 2.8 HKIR HY/2011/03 2023-03-20 Mid-Flood Fine SR3(N) 7:09 2.3 Bottom 3 1 22.19 7.87 31.33 87.70 6.1 3.9 3.3 3.1 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR3(N) 7:08 2.3 Bottom 3 2 22.14 7.87 31.37 87.00 6.1 3.9 3.3 3.3 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:17 1.0 Surface 1 2 22.18 7.87 31.37 88.00 6.2 3.2 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 1.0 Surface 1 2 22.18 7.87 31.23 88.00 6.2 3.2 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 1.0 Surface 1 2 22.14 7.87 31.27 88.00 6.2 3.2 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:17 3.0 Bottom 3 1 22.16 7:86 31.44 88.70 6.2 3.4 3.3 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 1.0 Surface 1 1 22.27 7:90 31.25 88.10 6.2 3.5 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 1.0 Surface 1 1 22.22 7:90 31.25 88.10 6.2 3.5 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.23 7:90 31.43 87.40 6.2 3.7 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.22 7:90 31.44 87.70 6.2 3.7 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 22.22 7:89 31.44 87.70 6.2 3.7 2.2 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bottom 3 1 22.20 7:89 31.51 8.7 6.2 4.2 3.3 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bottom 3 1 22.31 7:88 31.49 89.50 6.3 3.1 2.3 MIKER HY/2011/03 2023-03-20 Mid-Flood Fine																		
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HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 1.0 Surface 1 2 22.18 7.87 31.23 89.00 6.2 3.1 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 3.0 Bottom 3 1 22.16 7.86 31.44 88.70 6.2 3.4 3.3 3.4 HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 3.0 Bottom 3 2 22.14 7.87 31.47 89.00 6.2 3.3 3.3 3.4 HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 1.0 Surface 1 1 22.27 7.90 31.25 88.10 6.2 3.5 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 1.0 Surface 1 1 22.27 7.90 31.25 88.10 6.2 3.5 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.28 7.90 31.25 88.00 6.2 3.7 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.28 7.90 31.25 88.00 6.2 3.7 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.22 7.89 31.51 88.00 6.2 3.7 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 1 22.22 7.89 31.51 87.00 6.2 3.7 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bottom 3 1 22.20 7.89 31.51 87.90 6.2 4.0 3. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 5:44 8.7 Bottom 3 1 22.20 7.89 31.51 87.90 6.2 4.2 3. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 5:44 8.7 Bottom 3 2 22.21 7.90 31.49 87.70 6.2 3.2 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 5:43 1.0 Surface 1 1 1 22.31 7.88 31.49 87.70 6.2 3.2 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 1 1 22.31 7.88 31.49 87.50 6.3 3.1 2. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 1 2 2.21 7.88 31.69 87.20 6.1 3.4 3. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 1 2.231 7.88 31.69 87.20 6.1 3.4 3. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.19 Bottom 3 1 22.30 7.88 31.69 87.20 6.1 3.4 3. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.19 Bottom 3 1 22.31 7.88 31.41 87.40 6.1 3.9 3.4 4. HKUR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 1.0 Surface 1 2 22.31 7.87 31.61 88.80 6.2 3.7 4. HKUR HY/2011/03 2023-03-2																		2.9
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:17 3.0 Bottom 3 1 22.16 7.86 31.44 88.70 6.2 3.4 3																		2.4
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR4(N3) 6:16 3.0 Bettom 3 2 22.14 7.87 31.47 89.00 6.2 3.3 3.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 1.0 Surface 1 1 22.27 7.90 31.25 88.10 6.2 3.5 2.2 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.23 7.90 31.43 87.40 6.2 3.7 2.2 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 22.22 7.89 31.44 87.70 6.2 3.7 2.2 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 22.22 7.89 31.44 87.70 6.2 3.7 2.2 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bettom 3 1 22.20 7.89 31.51 87.90 6.2 4.0 3.3 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bettom 3 1 22.20 7.89 31.49 87.70 6.2 4.0 3.3 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 5:44 1.0 Surface 1 1 22.31 7.88 31.49 87.70 6.2 4.2 3.3 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 1 22.21 7.88 31.49 87.80 6.2 3.2 2.2 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 1 22.31 7.88 31.69 87.20 6.1 3.4 3.3 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 1 22.31 7.88 31.71 87.10 6.1 3.9 4.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 2 22.30 7.88 31.71 87.40 6.1 3.9 4.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bettom 3 1 22.31 7.88 31.71 87.40 6.1 3.9 4.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 1.0 Surface 1 2 22.44 7.88 31.43 92.70 6.5 3.2 2.2 HKLR HY/2011/03 2023-03-20 Mid-F																		3.2
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HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 1 22.23 7.90 31.43 87.40 6.2 3.7 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 2 22.22 7.89 31.44 87.70 6.2 3.7 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:41 8.7 Bottom 3 1 22.20 7.89 31.51 87.90 6.2 4.0 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bottom 3 2 22.21 7.90 31.49 87.70 6.2 4.2 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:44 1.0 Surface 1 1 22.31 7.88 31.49 89.50 6.3 3.1 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 22.21 7.88 31.49 89.50 6.3 3.1 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 1 22.31 7.88 31.69 87.20 6.1 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:44 6.5 Middle 2 1 22.31 7.88 31.69 87.20 6.1 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 1 22.31 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 1 22.31 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 2 22.30 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 2 22.30 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:32 1.0 Surface 1 1 22.24 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 1.0 Surface 1 1 22.24 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 1.0 Surface 1 2 22.33 7.87 31.63 90.30 6.3 3.4 3.3 4.2 Middle 2 2 2.22.34 7.87 31.63 88.40 6.2 3.7 3.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3.4 HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 1 22.26 7.90 31.21 88.20 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 1 22.26 7.90 3	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	SR5(N)	6:42	1.0	Surface	1	1	22.27	7.90	31.25	88.10	6.2	3.5	2.1
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 4.9 Middle 2 2 2 22.22 7.89 31.44 87.70 6.2 3.7 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:41 8.7 Bottom 3 1 22.20 7.89 31.51 87.90 6.2 4.0 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:42 8.7 Bottom 3 2 2.22.1 7.90 31.49 87.70 6.2 4.2 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:44 1.0 Surface 1 1 1 22.31 7.88 31.49 89.50 6.3 3.1 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 2 22.41 7.88 31.49 89.50 6.3 3.1 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 1.0 Surface 1 2 22.41 7.88 31.42 87.80 6.2 3.2 2. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 1 22.31 7.88 31.69 87.20 6.1 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:44 6.5 Middle 2 1 22.31 7.88 31.69 87.20 6.1 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 6.5 Middle 2 2 22.30 7.88 31.69 87.20 6.1 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 1 22.31 7.88 31.71 87.10 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 1 22.31 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10A(N) 5:43 11.9 Bottom 3 2 22.30 7.88 31.71 87.40 6.1 3.9 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 1.0 Surface 1 1 2 22.42 7.88 31.43 91.80 6.4 3.2 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 1.0 Surface 1 1 2 22.43 7.87 31.43 91.80 6.4 3.2 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 2 22.30 7.87 31.68 88.40 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 2 22.30 7.87 31.68 88.40 6.2 3.7 4. HKLR HY/2011/0	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	SR5(N)	6:42	1.0	Surface	1	2	22.28	7.90	31.25	88.00	6.2	3.4	2.4
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR5(N) 6:41 8.7 Bottom 3 1 22.20 7.89 31.51 87.90 6.2 4.0 3.	HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	SR5(N)	6:42	4.9	Middle	2	1	22.23	7.90	31.43	87.40	6.2	3.7	2.6
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HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 4.2 Middle 2 1 22.33 7.87 31.63 90.30 6.3 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 4.2 Middle 2 2 22.34 7.87 31.61 88.80 6.2 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 2 22.30 7.87 31.72 88.30 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 1 22.26 7.90 31.21 88.20 6.2 3.6 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4.																		2.8
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 4.2 Middle 2 2 22.34 7.87 31.61 88.80 6.2 3.4 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:33 7.3 Bottom 3 1 22.32 7.87 31.68 88.40 6.2 3.7 3. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 2 22.30 7.87 31.72 88.30 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 1 22.26 7.90 31.21 88.20 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 2.26 7.90																		
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HKLR HY/2011/03 2023-03-20 Mid-Flood Fine SR10B(N2) 5:32 7.3 Bottom 3 2 22.30 7.87 31.72 88.30 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 1 22.26 7.90 31.21 88.20 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4.																		3.8
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 1 22.26 7.90 31.21 88.20 6.2 3.7 4. HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4.																		4.1
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:32 1.0 Surface 1 2 22.26 7.90 31.22 88.10 6.2 3.6 4.																		4.1
																		4.3
																		3.5
HKLR HY/2011/03 2023-03-20 Mid-Flood Fine CS2(A) 7:31 3.3 Middle 2 2 22.24 7.90 31.36 87.60 6.2 4.0 3.																		3.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	CS2(A)	7:31	5.6	Bottom	3	1	22.20	7.90	31.45	88.10	6.2	4.1	2.4
HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	CS2(A)	7:32	5.6	Bottom	3	2	22.20	7.90	31.46	87.90	6.2	4.3	2.7
HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	CS(Mf)5	5:30	1.0	Surface	1	1	22.28	7.87	31.38	89.80	6.2	3.1	3.9
HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	CS(Mf)5	5:29	1.0	Surface	1	2	22.25	7.85	31.41	89.50	6.2	3.2	3.5
HKLR	HY/2011/03	2023-03-20	Mid-Flood	Fine	CS(Mf)5	5:30	6.4	Middle	2	1	22.04	7.86	31.77	87.60	6.1	3.4	2.8
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-20 2023-03-20	Mid-Flood Mid-Flood	Fine Fine	CS(Mf)5	5:29 5:29	6.4 11.7	Middle	3	2	22.05 22.05	7.85 7.84	31.77 31.82	88.40 87.70	6.1 6.1	3.4 3.8	3.1 2.6
HKLR	HY/2011/03 HY/2011/03	2023-03-20	Mid-Flood	Fine	CS(Mf)5 CS(Mf)5	5:29	11.7	Bottom Bottom	3	2	22.03	7.84	31.82	87.70	6.0	3.8	2.0
HKLR	HY/2011/03	2023-03-20	Mid-Ebb	Fine	IS5	12:22	1.0	Surface	1	1	22.57	7.91	31.04	85.90	6.2	3.7	4.5
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS5	12:23	1.0	Surface	1	2	22.59	7.91	31.05	86.30	6.2	3.8	4.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS5	12:22	4.2	Middle	2	1	22.47	7.90	31.28	85.50	6.1	4.1	3.8
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS5	12:23	4.2	Middle	2	2	22.48	7.90	31.27	85.60	6.1	4.0	4.1
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS5	12:22	7.4	Bottom	3	1	22.47	7.90	31.29	85.80	6.1	4.1	3.2
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS5	12:23	7.4	Bottom	3	2	22.48	7.90	31.27	85.70	6.1	4.2	3.5
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)6	12:31	1.0	Surface	1	1	22.60	7.92	31.04	89.00	6.4	3.7	2.8
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)6	12:31	1.0	Surface	1	2	22.59	7.92	31.03	88.20	6.3	3.7	3.0
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)6	12:31	2.2	Bottom	3	1	22.58	7.92	31.11	87.40	6.3	4.1	3.6
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)6	12:30	2.2	Bottom	3	2	22.55	7.93	31.11	86.60	6.2	4.2	4.0
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS7	12:41	1.0	Surface	1	1	22.62	7.92	31.04	87.40	6.3	3.3	3.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS7	12:41	1.0	Surface	1	2	22.60	7.92	31.06	87.50	6.3	3.5	3.9
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS7	12:40	2.3	Bottom	3	1	22.56	7.92	31.15	87.30	6.3	3.7	4.5
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS7	12:41	2.3	Bottom	3	2	22.58	7.92	31.13	87.10	6.2	3.7	4.9
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS8(N)	13:15	1.0	Surface	1	1	22.61	7.89	31.03	85.70	6.1	3.7	3.7
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS8(N)	13:15	1.0	Surface	1	2	22.63	7.90	31.01	86.00	6.2	3.6	4.0
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS8(N)	13:15	2.9	Bottom	3	1	22.59	7.89	31.11	85.70	6.1	3.9	4.6
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS8(N)	13:15	2.9	Bottom	3	2	22.56	7.88	31.15	85.40	6.1	3.9	4.4
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)9	12:51	1.0	Surface	1	1	22.61	7.92	31.05	87.00	6.2	3.6	4.3
HKLR HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS(Mf)9	12:51 12:51	1.0	Surface	3	2	22.61	7.91 7.91	31.05	86.90	6.2	3.7	4.0 3.8
HKLR	HY/2011/03 HY/2011/03	2023-03-22 2023-03-22	Mid-Ebb Mid-Ebb	Fine Fine	IS(Mf)9 IS(Mf)9	12:51	2.6 2.6	Bottom Bottom	3	2	22.58 22.55	7.91	31.16 31.16	86.90 86.90	6.2	3.8	3.4
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:19	1.0	Surface	1	1	22.57	7.95	30.98	85.80	6.1	3.8	4.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:18	1.0	Surface	1	2	22.57	7.95	31.00	85.40	6.0	3.8	4.6
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:18	5.3	Middle	2	1	22.43	7.94	31.38	84.90	6.0	4.0	4.8
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:19	5.3	Middle	2	2	22.43	7.94	31.42	85.00	6.0	3.9	5.1
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:19	9.5	Bottom	3	1	22.44	7.94	31.46	85.00	6.0	4.1	5.8
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	IS10(N)	13:18	9.5	Bottom	3	2	22.43	7.94	31.48	85.10	6.0	3.9	5.4
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR3(N)	12:12	1.0	Surface	1	1	22.59	7.91	31.05	88.40	6.3	3.9	4.8
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR3(N)	12:12	1.0	Surface	1	2	22.58	7.91	31.04	87.40	6.3	3.8	4.4
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR3(N)	12:12	2.3	Bottom	3	1	22.58	7.92	31.08	86.90	6.2	4.0	6.6
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR3(N)	12:12	2.3	Bottom	3	2	22.56	7.91	31.09	86.40	6.2	4.1	6.9
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR4(N3)	13:06	1.0	Surface	1	1	22.61	7.90	31.04	85.50	6.1	3.5	3.9
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR4(N3)	13:06	1.0	Surface	1	2	22.62	7.90	31.02	85.40	6.1	3.5	3.7
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR4(N3)	13:06	2.8	Bottom	3	1	22.58	7.89	31.13	85.00	6.1	3.7	4.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR4(N3)	13:06	2.8	Bottom	3	2	22.59	7.88	31.12	84.80	6.1	3.8	4.1
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:11	1.0	Surface	1	1	22.57	7.95	31.02	85.80	6.1	3.7	4.1
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:10	1.0	Surface	1	2	22.50	7.95	31.05	85.30	6.0	3.7	4.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:11	4.8	Middle	2	1	22.45	7.94	31.32	85.00	6.0	3.9	4.7
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:10	4.8	Middle	2	2	22.44	7.94	31.32	84.70	6.0	3.9	5.1
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:11	8.5	Bottom	3	1	22.44	7.94	31.51	85.20	6.0	4.4	5.7
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR5(N)	13:10	8.5	Bottom	3	2	22.44 22.53	7.94	31.51	84.70	6.0	4.4	6.0
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10A(N)	14:09	1.0	Surface	1	1		7.95	31.68	85.70	6.0	3.2	3.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-22 2023-03-22	Mid-Ebb Mid-Ebb	Fine Fine	SR10A(N) SR10A(N)	14:08 14:08	1.0 6.3	Surface Middle	2	2	22.53 22.46	7.95 7.95	31.67 31.96	85.20 83.70	6.0 5.9	3.2 3.6	3.6 4.1
HKLR	HY/2011/03 HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10A(N)	14:08	6.3	Middle	2	2	22.46	7.95	31.96	83.70	5.9	3.5	4.1
HKLR	HY/2011/03 HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10A(N) SR10A(N)	14:09	11.6	Bottom	3	1	22.45	7.94	31.97	84.30	5.9	3.7	5.0
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10A(N)	14:09	11.6	Bottom	3	2	22.46	7.93	31.95	84.00	5.9	3.7	4.6
HKLR	HY/2011/03 HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10A(N) SR10B(N2)	14:20	1.0	Surface	1	1	22.54	7.94	31.69	84.50	6.0	3.1	3.9
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10B(N2)	14:20	1.0	Surface	1	2	22.53	7.95	31.68	84.50	6.0	3.2	4.3
HKLR	HY/2011/03	2023-03-22	Mid-Ebb	Fine	SR10B(N2)	14:20	3.9	Middle	2	1	22.48	7.95	31.84	83.90	5.9	3.5	4.6
HINLK	111/2011/03	2023-03-22	IVIIU-EDD	rifle	PUTOD(INS)	14.20	5.9	iviluule		1	22.40	7.90	31.04	05.90	٦.۶	ა.ე	4.0

Mode My7011981 2023-06-22 Mode Rep Five Strington 14:70 3.70 Mode 7 7 7 7 7 7 7 7 7	Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HORG HY/7011/95 2023-032 Mod-268 Field SSE(00) 12-28 1.0 5.8 5.5 1.1 2.2-24 7.94 31.88 58.00 5.3 3.8 1.6 1.5 1.2 1	HKLR	HY/2011/03	2023-03-22	Mid-Ebb		SR10B(N2)	14:20	3.9	Middle	2	2	22.48	7.94	31.84	83.90	5.9	3.5	5.0
IMMS IMT/SELI(20) 2023-01-22 Mid-Geb Fine CSI(A) 12-22 1.0 Serfere 1 1 22-47 794 31-12 87-10 62 3.7 1.0 1.		, . ,							Bottom									6.7
INTERNAL NUMBER NUMBER NUMBER PRINCE PRINCE STATE STATE NUMBER N				1														6.3
INCR.																		6.9
INSERT INFOSCIUDAD 2023-02-22 Mode De Frine CS2AD 12-23 5-6 Bottom 3 1 22-23 7-34 31-86 85-00 6-1 3-8 17-1																		6.5
INCRES INFOSCIAURIS 2023-02-12 Mod-Fabb Free CS2AR 12-23 5-6 Bottom 3 2 2-38 7-793 31-28 31-68 S5-10 6.0 4.2 1 1 1 1 1 1 1 1 1																		7.5
MARIE NY/2011/08 2023-09-22 Mode-Seb Frier COJA 12-23 5.6 Bottom 3 2 22-38 7.91 31.68 85.10 6.0 4.2 1.1																		7.8 8.3
MRIG. MY/2011/03 2033-05-22 Mol-EDD Price CSMM/S 14:00 1.0 Surface 1 2 22:12 7:92 31:32 83:70 5:9 3.3 4.5 MRIG. MY/2011/03 2033-05-22 Mol-EDD Price CSMM/S 13:00 1.0 Surface 1 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 5.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3.5 4.6 MoleSt 2 2 22:20 7:86 31:86 81:80 5:8 3:5 4.6 MoleSt 2 2 22:20 7:86 31:80 81:80 5:8 3:5 4.6 MoleSt 2 2 2 2:20 7:86 31:80 81:80 5:8 3:5 4.6 MoleSt 2 2 2:20 7:86 31:80 81:80 5:8 3:5 4.6 MoleSt 2 2 2:20 7:80 31:32 81:30 81:80 5:8 3:5 4.6 MoleSt 2 2 2:20 7:30 31:32 81:30 81:80 5:8 3:5 4.6 MoleSt 2 2:20 7:30 31:32 81:30 81:80 5:8 3:5 4.6 MoleSt 2 2 2:20 7:30 31:32 81:30 81:30 5:9 3:30 4.6 MoleSt 2 2:20 7:30 31:30 81:30 5:9 3:30 4.6 MoleSt 2 2:20 2:20 3:30 4:																		8.5
Netro NY/2011/03 2023-03-22 Mod-Feb Fine CSUM/9 16:00 1.0 Surface 1 2 22:09 7:91 31:33 8:300 5.9 3.3 1.0																		4.6
MARIR MY/2011/08 2023-03-22 Mid-Fibb Fine CSM055 3-50 6-4 Middle 2 2 22.40 7.86 31.86 81.80 5.8 3.6 1.8						. ,												5.0
HAREA HY/2011/03 2023-03-22 Mod-Fibe Frier CS(MHS) 14-00 6.4 Modele 2 2 2 2.240 7.87 31.86 81.80 5.8 31.5 4.00																		3.9
Herric HY/2011/03 2023-03-22 Mid-Field Frier CSMH/S 15-00 11-7 Rettorn 3 2 22.39 7.86 31.86 81.70 5.8 3.8 1.7																		4.2
HMURA HY/2011/03 2023-03-22 Mode-Bood Fine CS/MI/S 13:59 11.7 Softon 3 2 22:39 7:36 31:86 81:70 5.8 3.8 1.8		, , , , , , ,																3.5
HMRR HY/2011/03 2023-03-22 Mod-Flood Fine ISS 9.10 1.0 Surface 1 2 22.40 7.94 31.20 83.00 6.0 3.5 1.0						` '												3.8
HARR HV/7011/03 2023-03-22 Mid-Flood Fine 55 9:09 4.2 Middle 2 1 22.22 7:91 31.49 82.50 5.9 3.7 1	HKLR							1.0		1	1				84.30			4.0
HIRG. HY/2011/03 2023-03-22 Mid-Flood Fine ISS 9:10 4.2 Middle 2 2 22.221 7:50 31.48 83.20 5.9 3.6 5.9 HIRG. HY/2011/03 2023-03-22 Mid-Flood Fine ISS 9:09 7.4 Bottom 3 2 22.221 7:50 31.54 82.00 5.8 3.9 3.9 3.9 1.0 HIRG. HY/2011/03 2023-03-22 Mid-Flood Fine ISS 9:09 7.4 Bottom 3 2 22.224 7:50 31.54 82.00 5.8 3.9 3.9 3.9 1.0 HIRG. HY/2011/03 2023-03-22 Mid-Flood Fine ISS/MI/6 9:00 1.0 Surface 1 2 22.43 7:54 31.22 83.10 6.1 3.5 3.5 1.0 1.3 5.1 3.5	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS5	9:10	1.0	Surface	1	2	22.40	7.94	31.23	85.90	6.1	3.5	3.7
HKRR HY/2011/03 2023-03-22 Mid-Flood Fine ISS 0.90 7.4 Bottom 3 1 22.17 7.90 31.56 82.50 5.9 3.9 1	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS5	9:09	4.2	Middle	2	1	22.23	7.91	31.49	82.50	5.9	3.7	3.5
HKR.R HY/J011/03 2023-03-22 Molf-Flood Fine ISS 9:09 7.4 Section 3 2 22.22 7:90 31.54 82.00 5.8 3.9 3.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine ISM/flo 9:00 1.0 Surface 1 2 22.42 7:94 31.23 85.10 6.1 3.5 3.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine ISM/flo 9:00 2.3 Section 3 1 22.40 7:93 31.32 84.80 6.0 3.7 3.4 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine ISM/flo 9:00 2.3 Section 3 2 22.42 7:94 31.23 84.80 6.0 3.7 3.4 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:50 1.0 Surface 1 1 22.44 7:94 31.22 85.00 6.1 3.2 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:50 1.0 Surface 1 2 22.43 7:94 31.24 84.70 6.0 3.7 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:50 1.0 Surface 1 2 22.43 7:94 31.24 84.70 6.0 3.2 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:50 2.3 Section 3 2 22.41 7:93 31.24 84.70 6.0 3.2 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:50 2.3 Section 3 2 22.41 7:93 31.30 84.70 6.0 3.5 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:89 2.3 Section 3 2 22.41 7:93 31.30 84.70 6.0 3.5 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:89 2.3 Section 3 2 22.41 7:93 31.30 84.70 6.0 3.5 4.5 MR.R HY/J011/03 2023-03-22 Molf-Flood Fine IST 8:89 2.3 1.0 Surface 1 2 22.43 7:93 31.21 8:10 6.1 3.4 4.4	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS5	9:10	4.2	Middle	2	2	22.22	7.90	31.49	83.20	5.9	3.6	3.3
HKKR HY/2011/03 2023-03-22 Mid-Flood Fine IS(MI)6 9:00 1.0 Surface 1 2 22.43 7.94 31.23 83.10 6.1 3.5 3.5 3.5 1.0	HKLR	HY/2011/03		Mid-Flood	Fine	IS5	9:10		Bottom	3			7.90	31.56	82.50	5.9	3.9	2.6
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine ISIM16 9:00 1.0 Surface 1 2 22.42 7.94 31.24 84.00 6.0 3.4 3		HY/2011/03	2023-03-22	Mid-Flood	Fine		9:09	7.4	Bottom	3	2				82.00	5.8		3.0
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine ISMM 6 9:00 2:3 Bottom 3 1 22:40 7:93 31:32 54:80 6:0 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 3.7 6:00 3.7 6:00 3.7 6:00 3.7 6:00 3.2 4:00	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS(Mf)6	9:00	1.0	Surface	1	1	22.43	7.94	31.23	85.10	6.1	3.5	3.1
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine SIMP 6 9-90 2.3 Surface 1 1 22-24 7-94 31.30 84.70 6.0 3.7 7-94																		3.4
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine IST 8-50 1.0 Surface 1 2 2.243 7.94 31.22 85.00 6.1 3.2 5.0										-								3.6
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine IS7 8-50 1.0 Surface 1 2 22.43 7.94 31.24 84.70 6.0 3.2 4.8 4.70 6.0 3.2 4.8 4.70 6.0 3.2 4.8 4.						. ,												4.0
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine IS7 8-50 2.3 Bottom 3 1 22.42 7.93 31.28 84.70 6.0 3.6 4.0														_				5.1
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine ISS(N) 8.23 3.10 Surface 1 1 22.40 7.93 31.30 84.70 6.0 3.5 4.70 6.0 6.0 3.5 4.70 6.0																		4.9
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine ISS(N) 8:23 1.0 Surface 1 1 22.40 7.92 31.23 87.10 6.2 3.5 4.5				1														4.6
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine ISR(N) 8-23 1.0 Surface 1 2 22.43 7.93 31.21 86.10 6.1 3.4 4.1 4										_								4.2
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine ISS(N) 8:22 3.0 Bottom 3 1 22:39 7:92 31:37 85:60 6:1 3.6 3.6 3.6 1.5 1.																		4.2
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS(Mf) 8.22 3.0 Bottom 3 2 2.2.37 7.92 31.40 84.80 6.0 3.7 3.1																		3.1
HKIR HY/2011/03 2023-03-22 Mid-Flood Fine IS(Mf)9 8-42 1.0 Surface 1 1 22.45 7.93 31.20 84.90 6.0 3.4		, . ,																3.6
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS(Mf)9 8.41 1.0 Surface 1 2 22.44 7.94 31.22 84.80 6.0 3.3 4 4 4 4 4 4 4 4 4																		3.8
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine ISIM(9) 8.42 2.5 Bottom 3 1 22.44 7.93 31.31 84.40 6.0 3.8 7.9																		4.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS(Mf)9 8:41 2.5 Bottom 3 2 22.38 7.92 31.32 84.20 6.0 3.7 3.1																		2.9
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 1.0 Surface 1 2 22.41 7.94 31.20 85.60 6.1 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 5.4 Middle 2 1 22.35 7.92 31.51 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:33 5.4 Middle 2 2 2 22.35 7.92 31.52 84.90 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 1 22.36 7.93 31.50 84.80 6.0 4.3 3 1 4 4 4 HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 1 22.36 7.93 31.53 85.00 6.0 4.2 5 1 4 4 4 4 4 4 4 5 8 HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 2 22.36 7.93 31.53 85.00 6.0 4.2 5 1 4 4 4 4 5 1 4 4 5 1	HKLR	HY/2011/03			Fine	. ,	8:41							31.32	84.20	6.0		3.2
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 5.4 Middle 2 1 22.35 7.92 31.51 84.20 6.0 3.8 4	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS10(N)	8:34	1.0	Surface	1	1	22.40	7.93	31.19	86.10	6.1	3.5	5.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:33 5.4 Middle 2 2 2 22.35 7.92 31.52 84.90 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 1 22.36 7.93 31.50 84.80 6.0 4.3 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 2 22.36 7.93 31.50 84.80 6.0 4.3 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 1.0 Surface 1 1 22.41 7.93 31.23 83.50 5.9 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 1.0 Surface 1 2 22.42 7.94 31.22 84.00 6.0 3.7 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.29 83.30 5.9 4.0 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.22 84.00 6.0 3.7 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.22 82.70 5.9 4.1 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 8:32 1.0 Surface 1 1 22.43 7.93 31.22 84.60 6.0 3.2 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 1 22.43 7.93 31.22 84.60 6.0 3.2 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 2 22.40 7.92 31.21 84.90 6.0 3.2 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.38 84.50 6.0 3.2 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.38 84.50 6.0 3.5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.34 84.80 6.0 3.5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:34 4.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 4.8 Middle 2 1 22.38 7.93 31.44 83.90 5.9 3.8 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 4.8 Middle 2 1 22.38 7.93 31.44 83.90 5.9 3.8 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 8.6 Bottom 3 1 22.36 7.93 31.44 84.00 6.0 4.3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 8.6 Bottom 3 1 22.36 7.93 31.52 84.40 6.0 4.3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 8.6 Bottom 3 2 22.37 7.	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS10(N)	8:34	1.0	Surface	1	2	22.41	7.94	31.20	85.60	6.1	3.5	4.8
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:34 9.8 Bottom 3 1 22.36 7.93 31.50 84.80 6.0 4.3 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:33 9.8 Bottom 3 2 22.36 7.93 31.53 85.00 6.0 4.2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	IS10(N)	8:34	5.4	Middle	2	1	22.35	7.92	31.51	84.20	6.0	3.8	4.5
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine IS10(N) 8:33 9.8 Bottom 3 2 22.36 7.93 31.53 85.00 6.0 4.2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						. ,			Middle									4.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 1.0 Surface 1 1 22.41 7.93 31.23 83.50 5.9 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 1.0 Surface 1 2 22.42 7.94 31.22 84.00 6.0 3.7 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.23 83.50 5.9 4.0 5.9 4.0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						. ,												3.5
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 1.0 Surface 1 2 22.42 7.94 31.22 84.00 6.0 3.7 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.29 83.30 5.9 4.0 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 1 22.43 7.93 31.22 84.60 6.0 3.2 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 1 22.43 7.93 31.22 84.60 6.0 3.2 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 2 22.40 7.92 31.21 84.90 6.0 3.2 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.38 84.50 6.0 3.5 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.38 84.50 6.0 3.5 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.34 84.80 6.0 3.5 3 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 1 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 4.8 Middle 2 1 22.38 7.93 31.44 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 4.8 Middle 2 1 22.38 7.93 31.44 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 4.8 Middle 2 2 22.27 7.93 31.44 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 8.6 Bottom 3 1 22.36 7.93 31.52 84.40 6.0 4.3 55 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 8.6 Bottom 3 2 22.37 7.93 31.52 84.40 6.0 4.3 55						. ,				_								3.8
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 1 22.40 7.93 31.29 83.30 5.9 4.0 3 3 3 3 3 3 3 3 3																		4.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR3(N) 9:20 2.4 Bottom 3 2 22.36 7.93 31.32 82.70 5.9 4.1 3 3 1 1 22.33 7.93 31.22 84.60 6.0 3.2 3 1 1 22.34 7.93 31.22 84.60 6.0 3.2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																		4.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 1 22.43 7.93 31.22 84.60 6.0 3.2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																		3.5
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 1.0 Surface 1 2 22.40 7.92 31.21 84.90 6.0 3.2 3 3 1 4 3 3 3 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 4 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3						. ,												3.7
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR4(N3) 8:32 2.9 Bottom 3 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.92 31.41 84.80 6.0 3.3 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 22.38 7.91 31.38 84.50 6.0 3.5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						. ,												3.3
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 1 22.40 7.94 31.20 84.70 6.0 3.5 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5				1														3.1
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SRS(N) 8:44 1.0 Surface 1 1 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 4.8 Middle 2 1 22.38 7.93 31.44 83.90 5.9 3.8 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 4.8 Middle 2 2 22.37 7.93 31.44 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 8.6 Bottom 3 1 22.36 7.93 31.52																		3.9
HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 1.0 Surface 1 2 22.40 7.94 31.20 84.70 6.0 3.5 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 4.8 Middle 2 1 22.38 7.93 31.44 83.90 5.9 3.8 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 4.8 Middle 2 2 22.37 7.93 31.44 84.20 6.0 3.8 4 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:43 8.6 Bottom 3 1 22.36 7.93 31.52 84.70 6.0 4.2 5 HKLR HY/2011/03 2023-03-22 Mid-Flood Fine SR5(N) 8:44 8.6 Bottom 3 2 22.37 7.93 31.52																		4.2
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Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10A(N)	7:45	6.3	Middle	2	1	22.44	7.90	31.85	83.20	5.9	3.4	3.7
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10A(N)	7:45	6.3	Middle	2	2	22.43	7.90	31.85	82.60	5.8	3.3	3.4
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10A(N)	7:45	11.6	Bottom	3	1	22.44	7.90	31.88	83.20	5.9	3.8	3.0
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10A(N)	7:44	11.6	Bottom	3	2	22.44	7.91	31.87	83.70	5.9	3.9	2.6
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10B(N2)	7:35	1.0	Surface	1	1	22.53	7.91	31.54	88.30	6.2	3.3	4.8
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10B(N2)	7:34	1.0	Surface	1	2	22.53	7.90	31.53	88.40	6.2	3.3	4.4
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10B(N2)	7:35	3.9	Middle	2	1	22.46	7.90	31.69	84.60	6.0	3.5	4.0
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	SR10B(N2)	7:34	3.9	Middle	3	2	22.45	7.89	31.73	86.20	6.1	3.5	3.7
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-22 2023-03-22	Mid-Flood Mid-Flood	Fine Fine	SR10B(N2) SR10B(N2)	7:35 7:34	6.8 6.8	Bottom	3	2	22.45 22.43	7.89 7.89	31.85 31.89	84.00 83.90	5.9 5.9	3.7 3.7	3.5 3.2
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A)	9:31	1.0	Bottom Surface	1	1	22.43	7.89	31.20	84.90	6.0	4.0	4.0
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A) CS2(A)	9:32	1.0	Surface	1	2	22.37	7.95	31.20	85.20	6.1	4.0	4.5
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A)	9:32	3.4	Middle	2	1	22.34	7.95	31.39	84.50	6.0	4.3	5.4
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A)	9:31	3.4	Middle	2	2	22.35	7.96	31.39	83.80	5.9	4.3	5.9
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A)	9:31	5.7	Bottom	3	1	22.33	7.95	31.53	83.90	5.9	4.7	6.8
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS2(A)	9:31	5.7	Bottom	3	2	22.33	7.96	31.54	83.70	5.9	4.5	6.4
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:41	1.0	Surface	1	1	22.47	7.91	31.37	85.70	6.0	3.4	4.0
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:41	1.0	Surface	1	2	22.46	7.90	31.39	85.70	6.1	3.5	3.7
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:41	6.3	Middle	2	1	22.30	7.90	31.67	84.00	6.0	3.7	3.5
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:41	6.3	Middle	2	2	22.32	7.89	31.66	84.80	6.0	3.7	3.2
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:40	11.6	Bottom	3	1	22.32	7.88	31.69	84.30	6.0	4.0	3.0
HKLR	HY/2011/03	2023-03-22	Mid-Flood	Fine	CS(Mf)5	7:41	11.6	Bottom	3	2	22.29	7.89	31.71	83.80	5.9	4.0	2.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:31	1.0	Surface	1	1	22.66	7.87	30.54	86.80	6.0	3.1	6.1
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:31	1.0	Surface	1	2	22.65	7.87	30.54	87.30	6.1	3.0	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:31	4.2	Middle	2	1	22.29	7.79	31.23	85.80	6.0	3.4	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:31	4.2	Middle	2	2	22.20	7.79	31.37	86.00	6.0	3.4	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:30	7.4	Bottom	3	1	22.19	7.79	31.73	84.10	5.9	3.4	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS5	13:31	7.4	Bottom	3	2	22.47	7.80	31.47	83.60	5.9	3.5	8.5
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)6	13:41	1.0	Surface	1	1	22.78	7.88	30.46	94.90	6.6	3.1	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)6	13:41	1.0	Surface	1	2	22.75	7.88	30.48	93.60	6.5	3.2	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)6	13:41	2.2	Bottom	3	1	22.72	7.87	30.58	92.20	6.4	3.6	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)6	13:41	2.2	Bottom	3	2	22.76	7.87	30.53	93.80	6.5	3.6	7.3
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS7	13:51	1.0	Surface	1	1	22.79	7.88	30.46	95.10	6.6	2.9	8.8
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS7	13:50	1.0	Surface	1	2	22.77	7.88	30.48	94.80	6.6	2.9	8.2
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS7	13:51	2.3	Bottom	3	1	22.78	7.88	30.52	94.90	6.6	3.2	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS7	13:50	2.3	Bottom	3	2	22.75	7.87	30.56	95.00	6.6	3.1	7.4
HKLR HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS8(N)	14:25 14:26	1.0	Surface	1	2	22.76 22.79	7.86 7.87	30.48 30.45	92.30	6.4 6.5	3.0 2.9	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS8(N)		1.0	Surface	3		22.79			93.30			6.2
HKLR	HY/2011/03 HY/2011/03	2023-03-24 2023-03-24	Mid-Ebb Mid-Ebb	Fine	IS8(N) IS8(N)	14:26 14:25	2.7	Bottom	3	2	22.73	7.85 7.83	30.58 30.66	92.70 92.10	6.4 6.4	3.1 3.1	7.4 7.0
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Ebb	Fine Fine	IS(Mf)9	13:59	1.0	Bottom Surface	1	1	22.64	7.88	30.66	94.90	6.6	3.3	6.1
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)9	13:59	1.0	Surface	1	2	22.79	7.87	30.48	94.70	6.6	3.3	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)9	13:59	2.4	Bottom	3	1	22.77	7.87	30.54	94.90	6.6	3.4	7.4
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS(Mf)9	13:59	2.4	Bottom	3	2	22.74	7.86	30.57	95.00	6.6	3.3	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:13	1.0	Surface	1	1	22.58	7.88	30.50	83.50	5.8	3.1	6.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:14	1.0	Surface	1	2	22.59	7.88	30.52	83.50	5.8	3.1	6.4
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:13	5.2	Middle	2	1	22.14	7.81	31.38	82.70	5.8	3.4	6.7
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:14	5.2	Middle	2	2	22.16	7.81	31.21	82.50	5.7	3.4	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:13	9.3	Bottom	3	1	22.07	7.80	31.82	80.40	5.6	3.4	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	IS10(N)	14:14	9.3	Bottom	3	2	22.19	7.81	31.74	79.90	5.6	3.5	7.3
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR3(N)	13:20	1.0	Surface	1	1	22.72	7.87	30.51	94.50	6.6	3.0	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR3(N)	13:20	1.0	Surface	1	2	22.74	7.87	30.49	94.50	6.6	3.1	7.1
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR3(N)	13:20	2.2	Bottom	3	1	22.72	7.86	30.57	93.70	6.5	3.1	8.7
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR3(N)	13:20	2.2	Bottom	3	2	22.72	7.86	30.58	94.40	6.5	3.2	8.2
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR4(N3)	14:16	1.0	Surface	1	1	22.75	7.86	30.49	92.50	6.4	3.2	8.3
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR4(N3)	14:16	1.0	Surface	1	2	22.74	7.86	30.49	91.70	6.4	3.1	7.9
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR4(N3)	14:16	2.8	Bottom	3	1	22.75	7.85	30.58	92.20	6.4	3.4	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR4(N3)	14:16	2.8	Bottom	3	2	22.63	7.82	30.70	91.70	6.4	3.4	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:04	1.0	Surface	1	1	22.69	7.89	30.41	86.00	6.0	3.2	6.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:03	1.0	Surface	1	2	22.64	7.89	30.42	85.20	5.9	3.1	6.4
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:04	4.6	Middle	2	1	22.27	7.81	31.04	82.20	5.7	3.4	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:03	4.6	Middle	2	2	22.12	7.81	31.14	81.00	5.6	3.4	6.5
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:03	8.1	Bottom	3	1	22.03	7.80	31.86	79.00	5.5	3.8	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR5(N)	14:04	8.1	Bottom	3	2	22.05	7.80	31.85	79.80	5.6	3.8	7.5
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:00	1.0	Surface	1	1	22.61	7.88	30.81	84.50	5.9	2.7	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:01	1.0	Surface	1	2	22.64	7.89	30.81	85.60	5.9	2.7	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:00	6.8	Middle	2	1	21.98	7.80	32.15	82.60	5.7	3.1	6.3
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:01	6.8	Middle	2	2	21.97	7.80	32.16	83.50	5.8	3.0	6.4
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:00	12.6	Bottom	3	1	22.05	7.81	32.09	80.30	5.6	3.2	5.7
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10A(N)	15:01	12.6	Bottom	3	2	22.06	7.80	32.09	81.20	5.6	3.2	6.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10B(N2)	15:11	1.0	Surface	1	1	22.55	7.88	30.89	82.40	5.7	2.6	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10B(N2)	15:12	1.0	Surface	2	2	22.60	7.88	30.86	83.50	5.8	2.7	6.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-24 2023-03-24	Mid-Ebb Mid-Ebb	Fine Fine	SR10B(N2) SR10B(N2)	15:11 15:12	3.9 3.9	Middle Middle	2	1 2	22.29 22.20	7.83 7.82	31.28 31.34	81.80 81.30	5.7 5.6	2.9 3.0	6.9 7.4
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10B(N2)	15:12	6.7	Bottom	3	1	22.20	7.82	32.01	79.10	5.5	3.1	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	SR10B(N2)	15:11	6.7	Bottom	3	2	22.17	7.81	32.07	79.10	5.5	3.1	8.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:16	1.0	Surface	1	1	22.62	7.88	30.50	87.60	6.1	3.1	6.1
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:15	1.0	Surface	1	2	22.55	7.87	30.57	85.80	6.0	3.2	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:16	3.4	Middle	2	1	22.27	7.85	30.95	84.40	5.9	3.4	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:15	3.4	Middle	2	2	22.29	7.84	30.99	83.20	5.8	3.5	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:16	5.7	Bottom	3	1	22.22	7.81	31.71	82.60	5.8	3.7	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS2(A)	13:15	5.7	Bottom	3	2	22.13	7.80	31.73	81.70	5.7	3.6	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:06	1.0	Surface	1	1	22.82	7.87	30.59	86.40	6.0	2.6	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:07	1.0	Surface	1	2	22.83	7.88	30.59	85.70	5.9	2.6	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:06	6.4	Middle	2	1	22.00	7.76	32.14	81.20	5.7	2.7	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:06	6.4	Middle	2	2	21.99	7.75	32.13	82.50	5.7	2.7	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:05	11.8	Bottom	3	1	22.03	7.75	32.11	78.60	5.5	2.9	6.4
HKLR	HY/2011/03	2023-03-24	Mid-Ebb	Fine	CS(Mf)5	15:06	11.8	Bottom	3	2	22.10	7.77	31.81	78.20	5.5	2.9	6.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:39	1.0	Surface	1	1	22.57	7.88	30.62	84.10	5.9	3.3	6.3
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:38	1.0	Surface	1	2	22.57	7.88	30.62	85.50	6.0	3.2	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:39	4.3	Middle	2	1	22.14	7.79	31.18	83.00	5.8	3.3	7.4
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:38	4.3	Middle	2	2	22.13	7.79	31.26	82.90	5.8	3.3	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:39	7.5	Bottom	3	1	22.14	7.79	31.63	79.70	5.6	3.6	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS5	8:38	7.5	Bottom	3	2	22.03	7.79	31.71	80.50	5.6	3.5	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)6	8:30	1.0	Surface	1	1	22.65	7.89	30.58	93.20	6.4	2.7	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)6	8:30	1.0	Surface	1	2	22.64	7.89	30.59	93.10	6.4	2.7	7.1
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)6	8:30	2.3	Bottom	3	1	22.63	7.88	30.66	92.80	6.4	3.0	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)6	8:30	2.3	Bottom	3	2	22.62	7.87	30.68	92.70	6.4	2.9	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS7	8:20	1.0	Surface	1	1	22.59	7.88	30.64	90.50	6.3	2.9	6.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS7	8:20	1.0	Surface	1	2	22.66	7.89	30.58	92.20	6.4	2.9	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS7	8:20	2.2	Bottom	3	1	22.63	7.88	30.61	91.20	6.3	3.3	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS7	8:20	2.2	Bottom	3	2	22.53	7.85	30.81	90.60	6.3	3.2	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS8(N)	7:45	1.0	Surface	1	1	22.59	7.88	30.62	89.60	6.2	3.0	7.3
HKLR HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS8(N)	7:46	1.0 2.9	Surface	3	2	22.59	7.87	30.63	91.00	6.3	2.9	7.0 8.0
HKLR	HY/2011/03 HY/2011/03	2023-03-24 2023-03-24	Mid-Flood Mid-Flood	Fine Fine	IS8(N) IS8(N)	7:45 7:45	2.9	Bottom	3	1 2	22.55 22.48	7.86 7.84	30.78 30.88	89.90 88.70	6.2	3.1 3.2	7.6
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Flood Mid-Flood	Fine	IS(Mf)9	7:45 8:10	1.0	Bottom Surface	1	1	22.48	7.84	30.88	90.20	6.2	2.8	7.6
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Flood Mid-Flood	Fine	IS(Mf)9	8:10 8:10	1.0	Surface	1	2	22.59	7.88	30.65	90.20	6.2	2.8	7.0
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)9	8:10	2.5	Bottom	3	1	22.58	7.86	30.65	90.10	6.2	3.3	7.7
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Flood	Fine	IS(Mf)9	8:10	2.5	Bottom	3	2	22.52	7.85	30.80	89.80	6.2	3.2	8.1
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	9:00	1.0	Surface	1	1	22.62	7.87	30.42	86.80	6.0	3.2	8.8
HKLR	HY/2011/03 HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	9:01	1.0	Surface	1	2	22.62	7.88	30.42	86.70	6.0	3.2	9.4
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	9:00	5.3	Middle	2	1	22.10	7.80	31.31	85.40	5.9	3.4	8.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	9:00	5.3	Middle	2	2	22.13	7.80	31.28	84.40	5.9	3.4	8.5
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	9:00	9.5	Bottom	3	1	22.05	7.80	31.68	81.30	5.7	3.8	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	IS10(N)	8:59	9.5	Bottom	3	2	22.03	7.80	31.59	81.90	5.7	3.7	7.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR3(N)	8:49	1.0	Surface	1	1	22.13	7.89	30.54	91.50	6.3	3.0	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR3(N)	8:49	1.0	Surface	1	2	22.66	7.88	30.57	89.80	6.2	3.0	7.2
	, 2011/03	2020 00 24	1 1000		55(14)	5.75	1.0	- Ju. 1400					55.57	55.00	J.2	3.0	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR3(N)	8:49	2.3	Bottom	3	1	22.67	7.88	30.59	90.30	6.2	3.5	8.3
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR3(N)	8:49	2.3	Bottom	3	2	22.62	7.87	30.65	88.90	6.2	3.5	7.9
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR4(N3)	7:55	1.0	Surface	1	1	22.55	7.87	30.68	88.80	6.2	2.6	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR4(N3)	7:55	1.0	Surface	1	2	22.54	7.87	30.66	88.90	6.2	2.6	7.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR4(N3)	7:55	2.9	Bottom	3	1	22.51	7.84	30.85	88.60	6.1	2.9	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR4(N3)	7:54	2.9	Bottom	3	2	22.45	7.84	30.92	88.40	6.1	2.7	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:10	1.0	Surface	1	1	22.56	7.88	30.49	85.40	5.9	3.2	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:10	1.0	Surface	1	2	22.59	7.88	30.48	84.60	5.9	3.1	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:09	4.7	Middle	2	1	22.09	7.80	31.31	82.40	5.7	3.5	7.1
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:10	4.7	Middle	2	2	22.08	7.80	31.37	82.60	5.7	3.4	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:09	8.4	Bottom	3	1	22.05	7.80	31.73	79.50	5.5	3.8	7.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR5(N)	9:10	8.4	Bottom	3	2	22.01	7.80	31.75	80.20	5.6	3.8	7.5
HKLR HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10A(N)	8:10	1.0 1.0	Surface	1	2	22.66 22.73	7.86 7.85	30.53	85.40 85.30	5.9 5.9	2.9	8.9 8.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10A(N)	8:09 8:09		Surface	2	1	22.73		30.48	81.70	5.9	2.9	7.8
HKLR	HY/2011/03 HY/2011/03	2023-03-24 2023-03-24	Mid-Flood Mid-Flood	Fine Fine	SR10A(N) SR10A(N)	8:09	6.8 6.8	Middle Middle	2	2	22.04	7.77 7.76	31.83 31.78	83.70	5.7	3.0	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10A(N)	8:08	12.6	Bottom	3	1	22.19	7.76	31.67	78.40	5.5	3.3	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10A(N)	8:09	12.6	Bottom	3	2	22.19	7.78	31.74	78.50	5.5	3.3	7.4
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:59	1.0	Surface	1	1	22.17	7.78	30.51	88.20	6.1	3.1	8.0
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:59	1.0	Surface	1	2	22.65	7.80	30.50	87.20	6.1	3.1	8.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:58	3.8	Middle	2	1	22.27	7.75	30.94	83.00	5.8	3.2	7.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:59	3.8	Middle	2	2	22.25	7.76	31.10	82.40	5.7	3.2	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:59	6.6	Bottom	3	1	22.24	7.73	31.59	83.90	5.8	3.5	6.6
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	SR10B(N2)	7:58	6.6	Bottom	3	2	22.17	7.72	31.67	83.70	5.8	3.4	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:03	1.0	Surface	1	1	22.61	7.89	30.49	85.60	6.0	3.4	7.3
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:02	1.0	Surface	1	2	22.52	7.88	30.55	84.90	5.9	3.3	6.9
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:02	3.3	Middle	2	1	22.26	7.85	31.00	84.60	5.9	3.6	6.4
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:02	3.3	Middle	2	2	22.23	7.86	30.88	82.70	5.8	3.7	6.7
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:02	5.6	Bottom	3	1	22.24	7.83	31.45	82.60	5.8	3.9	6.1
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS2(A)	10:02	5.6	Bottom	3	2	22.14	7.82	31.66	81.40	5.7	3.9	5.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:02	1.0	Surface	1	1	22.60	7.86	30.69	84.30	5.9	2.7	7.2
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:03	1.0	Surface	1	2	22.63	7.87	30.67	85.80	5.9	2.7	6.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:03	6.3	Middle	2	1	21.90	7.78	32.06	81.30	5.6	2.8	7.5
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:02	6.3	Middle	2	2	21.90	7.77	32.05	81.60	5.7	2.8	7.8
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:02	11.6	Bottom	3	1	21.96	7.77	32.03	80.20	5.6	3.2	8.4
HKLR	HY/2011/03	2023-03-24	Mid-Flood	Fine	CS(Mf)5	7:03	11.6	Bottom	3	2	22.01	7.78	32.00	80.80	5.6	3.2	8.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:34	1.0	Surface	1	1	22.48	7.86	32.21	91.40	6.3	3.6	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:34	1.0	Surface	1	2	22.47	7.86	32.21	91.80	6.4	3.5	2.3
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:34	4.2	Middle	2	1	22.15	7.81	32.80	90.60	6.3	3.9	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:33	4.2	Middle	2	2	22.10	7.81	32.87	90.60	6.3	3.9	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:33	7.4	Bottom	3	1	22.10	7.81	33.05	89.20	6.2	3.9	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS5	15:34	7.4	Bottom	3	2	22.25	7.82	32.91	88.90	6.2	4.0	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)6	15:43	1.0	Surface	1	1	22.54	7.86	32.18	96.90	6.7	3.5	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)6	15:43	1.0	Surface	1	2	22.53	7.86	32.17	96.10	6.7	3.6	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)6	15:43	2.2	Bottom	3	1	22.47	7.86	32.32	95.90	6.6	4.0	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)6	15:43	2.2	Bottom	3	2	22.45	7.86	32.32	94.60	6.6	4.0	4.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS7	15:53	1.0	Surface	1	1	22.54	7.87	32.19	96.40	6.7	3.2	4.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS7	15:53	1.0	Surface	1	2	22.52	7.86	32.21	96.10	6.7	3.3	4.7
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS7	15:53	2.3	Bottom	3	1	22.47	7.86	32.33	96.00	6.7	3.6	3.6
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-27 2023-03-27	Mid-Ebb Mid-Ebb	Fine	IS7	15:52	2.3 1.0	Bottom	3	2	22.43 22.57	7.86 7.85	32.39 32.15	96.10 95.10	6.7	3.6	3.1 3.9
HKLR				Fine	IS8(N)	16:28		Surface	1	2	22.54			94.40	6.6	3.3	3.9
HKLR	HY/2011/03 HY/2011/03	2023-03-27 2023-03-27	Mid-Ebb Mid-Ebb	Fine Fine	IS8(N) IS8(N)	16:28 16:28	1.0 2.8	Surface	3	1	22.54	7.84 7.84	32.18 32.34	94.40	6.5 6.6	3.3 3.7	3.5
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS8(N)	16:28	2.8	Bottom Bottom	3	2	22.47	7.84	32.34	94.60	6.5	3.7	3.2
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)9	16:28	1.0	Surface	1	1	22.54	7.86	32.42	95.90	6.7	3.6	2.8
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb		IS(Mf)9	16:03	1.0		1	2	22.54	7.86	32.20	96.00	6.7	3.7	3.1
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine Fine	IS(Mf)9	16:03	2.6	Surface Bottom	3	1	22.53	7.86	32.19	95.90	6.7	3.7	3.1
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS(Mf)9	16:03	2.6	Bottom	3	2	22.44	7.85	32.38	96.10	6.7	3.8	3.4
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:37	1.0	Surface	1	1	22.52	7.86	31.61	91.30	6.3	3.7	3.6
TIKLK	171/2011/03	2023-03-27	IVIIU-EDD	rine	IDTO(IA)	10:37	1.0	Surface	1	1	22.52	7.80	21.01	91.30	0.3	5.7	ა.ზ

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:37	1.0	Surface	1	2	22.49	7.86	31.61	90.60	6.2	3.7	3.9
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:37	5.3	Middle	2	1	22.15	7.82	32.68	89.80	6.2	3.9	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:36	5.3	Middle	2	2	22.14	7.83	32.76	89.80	6.2	3.9	3.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:36	9.5	Bottom	3	1	22.10	7.82	33.06	88.60	6.1	4.0	2.3
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	IS10(N)	16:37	9.5	Bottom	3	2	22.18	7.82	32.98	88.40	6.1	4.1	2.6
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR3(N)	15:24	1.0	Surface	1	1	22.48	7.85	32.22	96.30	6.7	3.6	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR3(N)	15:24	1.0	Surface	1	2	22.49	7.85	32.21	95.90	6.6	3.4	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR3(N)	15:24	2.2	Bottom	3	1	22.46	7.85	32.29	95.30	6.6	3.6	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR3(N)	15:23	2.2	Bottom	3	2	22.44	7.85	32.30	95.60	6.6	3.7	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR4(N3)	16:19	1.0	Surface	1	1	22.51	7.85	32.22	94.30	6.5	3.3	4.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR4(N3)	16:19	1.0	Surface	1	2	22.53	7.85	32.19	94.00	6.5	3.3	4.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR4(N3)	16:19	2.9	Bottom	3	1	22.44	7.84	32.38	94.00	6.5	3.6	3.6
HKLR HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR4(N3)	16:18	2.9	Bottom	3	2 1	22.41 22.55	7.82 7.87	32.41	93.90 92.20	6.5 6.3	3.6 3.7	3.3 4.3
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR5(N)	16:27	1.0	Surface	1	2			31.53	92.20			4.3
HKLR	HY/2011/03 HY/2011/03	2023-03-27 2023-03-27	Mid-Ebb Mid-Ebb	Fine Fine	SR5(N) SR5(N)	16:26 16:27	1.0 4.8	Surface Middle	2	1	22.48 22.22	7.87 7.83	31.61 32.51	89.60	6.3 6.2	3.6 3.8	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR5(N)	16:26	4.8	Middle	2	2	22.14	7.83	32.55	88.80	6.1	3.8	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR5(N)	16:26	8.6	Bottom	3	1	22.14	7.82	33.10	87.80	6.0	4.3	2.9
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR5(N)	16:27	8.6	Bottom	3	2	22.09	7.82	33.09	88.60	6.1	4.4	2.5
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:34	1.0	Surface	1	1	22.12	7.88	32.94	92.00	6.3	3.1	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:33	1.0	Surface	1	2	22.40	7.88	32.91	90.80	6.2	3.1	3.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:33	6.6	Middle	2	1	21.98	7.84	33.94	89.00	6.1	3.5	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:33	6.6	Middle	2	2	21.99	7.83	33.90	89.10	6.1	3.4	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:32	12.2	Bottom	3	1	22.03	7.85	33.91	87.80	6.0	3.6	2.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10A(N)	17:33	12.2	Bottom	3	2	22.04	7.83	33.84	88.00	6.0	3.6	2.2
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:43	1.0	Surface	1	1	22.37	7.87	32.99	88.90	6.1	3.1	2.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:44	1.0	Surface	1	2	22.37	7.87	33.03	89.40	6.1	3.2	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:44	3.8	Middle	2	1	22.13	7.84	33.37	88.00	6.0	3.5	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:43	3.8	Middle	2	2	22.17	7.85	33.34	88.20	6.0	3.5	2.6
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:43	6.5	Bottom	3	1	22.06	7.84	33.81	86.90	5.9	3.7	3.3
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	SR10B(N2)	17:43	6.5	Bottom	3	2	22.11	7.83	33.73	87.00	6.0	3.7	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:31	1.0	Surface	1	1	22.47	7.87	31.74	94.40	6.5	3.5	4.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:31	1.0	Surface	1	2	22.39	7.87	31.85	93.80	6.4	3.6	3.9
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:31	3.4	Middle	2	1	22.19	7.85	32.53	91.20	6.3	3.8	3.1
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:30	3.4	Middle	2	2	22.20	7.86	32.54	90.60	6.2	3.9	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:30	5.7	Bottom	3	1	22.12	7.85	33.09	89.20	6.1	4.1	2.5
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS2(A)	15:31	5.7	Bottom	3	2	22.18	7.83	33.08	90.10	6.2	4.2	2.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:13	1.0	Surface	1	1	22.61	7.87	32.32	90.00	6.2	3.1	2.4
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:12	1.0	Surface	1	2	22.60	7.85	32.32	90.10	6.2	3.0	2.0
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:12	6.4	Middle	2	1	22.00	7.78	33.43	87.40	6.1	3.2	2.6
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:13	6.4	Middle	2	2	22.00	7.78	33.43	86.80	6.0	3.2	2.9
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:12	11.7	Bottom	3	1	22.02	7.78	33.40	85.20	5.9	3.4	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Ebb	Fine	CS(Mf)5	17:12	11.7	Bottom	3	2	22.06	7.78	32.45	85.00	5.9	3.4	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:36	1.0	Surface	1	1	22.41	7.87	32.25	89.90	6.2	3.5	2.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:36	1.0	Surface	1	2	22.41	7.87	32.25	91.20	6.3	3.4	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:35	4.2	Middle	2	1	22.04	7.82	32.82	87.90	6.1	3.5	4.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:36	4.2	Middle	2	2	22.05	7.82	32.79	88.10	6.1	3.5	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:36	7.4	Bottom	3	1	22.03	7.81	33.04	86.50	6.0	3.8	5.2
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS5	10:35	7.4	Bottom	3	2	21.99	7.82	33.07	86.70	6.0	3.7	5.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)6	10:25	1.0	Surface	1	1	22.44	7.88	32.24	94.80	6.5	3.1	5.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)6	10:26	1.0	Surface	1	2	22.45	7.88	32.24	95.10	6.6	3.1	6.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)6	10:24	2.3	Bottom	3	1	22.37	7.87	32.39	94.50	6.5	3.5	4.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)6	10:25	2.3	Bottom	3	2	22.39	7.87	32.36	94.50	6.5	3.5	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS7	10:15	1.0	Surface	1	1	22.38	7.88	32.30	94.40	6.5	3.3	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS7	10:15	1.0	Surface	1	2	22.47	7.88	32.22	94.90	6.6	3.3	3.9
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS7	10:15	2.2	Bottom	3	1	22.37	7.87	32.34	94.40	6.5	3.6	4.9
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS7	10:15	2.2	Bottom	3	2	22.31	7.86	32.45	94.60	6.5	3.6	4.4
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS8(N)	9:42	1.0	Surface	1	1	22.42	7.87	32.23	93.10	6.4	3.3	4.6
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS8(N)	9:43	1.0	Surface	1	2	22.40	7.87	32.26	94.00	6.5	3.2	4.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS8(N)	9:42	2.9	Bottom	3	1	22.30	7.86	32.51	93.00	6.4	3.3	3.8
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS8(N)	9:42	2.9	Bottom	3	2	22.25	7.85	32.57	92.30	6.4	3.5	3.4
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)9	10:06	1.0	Surface	1	1	22.42	7.88	32.25	93.30	6.4	3.0	3.8
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)9	10:06	1.0	Surface	1	2	22.43	7.87	32.24	93.20	6.4	3.0	3.3
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS(Mf)9	10:06	2.5	Bottom	3	1	22.34	7.86	32.43	92.90	6.4	3.4	4.1
HKLR HKLR	HY/2011/03	2023-03-27 2023-03-27	Mid-Flood	Fine	IS(Mf)9	10:06	2.5	Bottom	3	2	22.31 22.40	7.86	32.40	93.00	6.4	3.3	4.4 2.1
HKLR	HY/2011/03 HY/2011/03	2023-03-27	Mid-Flood Mid-Flood	Fine Fine	IS10(N) IS10(N)	9:59 9:59	1.0 1.0	Surface Surface	1	2	22.40	7.86 7.87	32.01 32.03	92.10 92.00	6.3	3.5 3.5	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS10(N)	9:59	5.3	Middle	2	1	22.41	7.82	32.84	90.50	6.2	3.7	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS10(N)	9:58	5.3	Middle	2	2	22.09	7.82	32.82	90.00	6.2	3.7	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS10(N)	9:59	9.6	Bottom	3	1	22.05	7.82	33.02	88.70	6.1	4.1	3.6
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	IS10(N)	9:58	9.6	Bottom	3	2	22.10	7.82	33.00	88.70	6.1	4.0	4.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR3(N)	10:47	1.0	Surface	1	1	22.44	7.87	32.24	92.40	6.4	3.3	2.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR3(N)	10:48	1.0	Surface	1	2	22.46	7.88	32.22	93.60	6.5	3.3	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR3(N)	10:48	2.3	Bottom	3	1	22.39	7.87	32.34	92.60	6.4	3.8	3.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR3(N)	10:47	2.3	Bottom	3	2	22.36	7.86	32.38	91.60	6.3	3.7	3.3
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR4(N3)	9:51	1.0	Surface	1	1	22.40	7.87	32.24	92.70	6.4	2.9	4.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR4(N3)	9:52	1.0	Surface	1	2	22.42	7.87	32.26	92.50	6.4	2.8	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR4(N3)	9:51	2.9	Bottom	3	1	22.29	7.85	32.51	92.20	6.4	3.1	5.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR4(N3)	9:51	2.9	Bottom	3	2	22.24	7.85	32.60	92.00	6.4	3.0	5.2
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:09	1.0	Surface	1	1	22.36	7.87	32.05	91.20	6.3	3.4	4.4
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:08	1.0	Surface	1	2	22.38	7.87	32.06	90.70	6.2	3.4	4.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:08	4.8	Middle	2	1	22.08	7.82	32.79	89.20	6.1	3.7	3.3
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:08	4.8	Middle	2	2	22.08	7.82	32.80	89.20	6.1	3.7	3.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:08	8.6	Bottom	3	1	22.04	7.82	33.07	88.20	6.1	4.2	2.9
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR5(N)	10:07	8.6	Bottom	3	2	22.06	7.82	33.06	87.90	6.0	4.1	2.5
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:04	1.0	Surface	1	1	22.46	7.85	32.28	90.50	6.2	3.0	1.9
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:03	1.0	Surface	1	2	22.49	7.84	32.23	90.40	6.2	3.0	1.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:03	6.7	Middle	2	1	22.09	7.79	33.27	89.10	6.1	3.2	2.4
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:04	6.7	Middle	2	2	22.06	7.80	33.31	87.90	6.0	3.1	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:04	12.3	Bottom	3	1	22.13	7.80	33.26	86.60	5.9	3.7	3.2
HKLR HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10A(N)	9:03	12.3	Bottom	3 1	2 1	22.14 22.46	7.79 7.83	33.22 32.24	86.80	5.9 6.5	3.8 3.2	3.0 1.9
HKLR	HY/2011/03 HY/2011/03	2023-03-27 2023-03-27	Mid-Flood Mid-Flood	Fine Fine	SR10B(N2) SR10B(N2)	8:53 8:52	1.0 1.0	Surface	1	2	22.45	7.83	32.24	95.20 94.80	6.5	3.2	1.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10B(N2)	8:52	3.7	Surface Middle	2	1	22.43	7.78	32.75	90.80	6.2	3.4	2.6
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10B(N2)	8:53	3.7	Middle	2	2	22.19	7.79	32.73	89.70	6.2	3.4	2.3
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10B(N2)	8:53	6.4	Bottom	3	1	22.19	7.79	33.15	89.90	6.1	3.4	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	SR10B(N2)	8:52	6.4	Bottom	3	2	22.13	7.76	33.22	89.80	6.1	3.6	3.0
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	11:00	1.0	Surface	1	1	22.38	7.78	32.06	91.60	6.3	4.0	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	10:59	1.0	Surface	1	2	22.34	7.87	32.11	90.90	6.2	3.9	2.4
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	11:00	3.3	Middle	2	1	22.16	7.86	32.59	90.50	6.2	4.2	2.9
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	10:59	3.3	Middle	2	2	22.14	7.87	32.53	89.20	6.1	4.2	2.7
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	10:59	5.5	Bottom	3	1	22.09	7.85	33.02	88.30	6.1	4.5	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS2(A)	11:00	5.5	Bottom	3	2	22.15	7.84	32.92	89.10	6.1	4.6	3.6
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	9:00	1.0	Surface	1	1	22.43	7.86	32.33	91.30	6.3	3.2	2.3
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	9:00	1.0	Surface	1	2	22.45	7.86	32.30	91.50	6.3	3.1	2.1
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	9:00	6.2	Middle	2	1	21.93	7.81	33.27	88.60	6.1	3.4	2.6
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	8:59	6.2	Middle	2	2	21.94	7.82	33.26	89.20	6.2	3.4	2.8
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	8:59	11.3	Bottom	3	1	21.97	7.83	33.25	87.70	6.1	3.7	3.2
HKLR	HY/2011/03	2023-03-27	Mid-Flood	Fine	CS(Mf)5	9:00	11.3	Bottom	3	2	21.99	7.82	33.25	87.60	6.1	3.7	3.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:40	1.0	Surface	1	1	22.41	7.83	32.62	91.50	6.2	3.4	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:41	1.0	Surface	1	2	22.40	7.83	32.63	91.20	6.2	3.5	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:40	4.3	Middle	2	1	22.19	7.80	33.03	90.50	6.2	3.7	3.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:40	4.3	Middle	2	2	22.21	7.80	33.00	90.50	6.2	3.8	3.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:40	7.5	Bottom	3	1	22.19	7.80	33.18	90.20	6.2	3.8	4.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS5	18:40	7.5	Bottom	3	2	22.27	7.81	33.08	89.80	6.1	3.9	4.3
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)6	18:49	1.0	Surface	1	1	22.45	7.83	32.60	95.10	6.5	3.3	1.9
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)6	18:49	1.0	Surface	1	2	22.44	7.83	32.59	94.50	6.4	3.4	1.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)6	18:49	2.2	Bottom	3	1	22.39	7.83	32.68	93.40	6.4	3.7	2.3

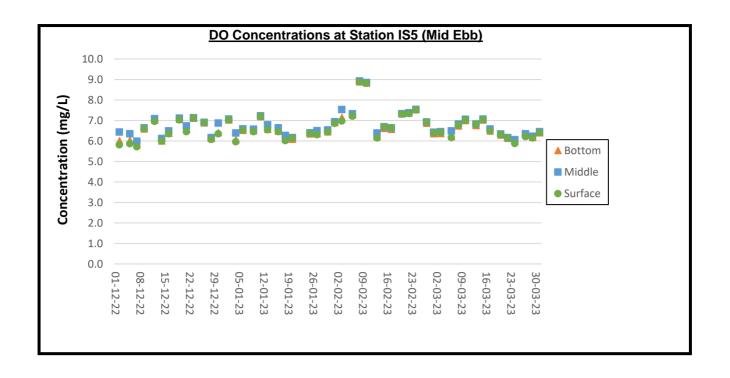
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)6	18:49	2.2	Bottom	3	2	22.41	7.83	32.67	94.10	6.4	3.6	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS7	18:59	1.0	Surface	1	1	22.45	7.84	32.60	94.50	6.4	3.2	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS7	18:59	1.0	Surface	1	2	22.44	7.83	32.61	94.40	6.4	3.3	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS7	18:59	2.4	Bottom	3	1	22.41	7.83	32.67	94.20	6.4	3.5	3.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS7	18:59	2.4	Bottom	3	2	22.39	7.83	32.70	94.40	6.4	3.5	3.9
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS8(N)	19:35	1.0	Surface	1	1	22.47	7.82	32.57	93.70	6.4	3.2	2.9
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS8(N)	19:34	1.0	Surface	1	2	22.45	7.82	32.58	93.30	6.4	3.2	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS8(N)	19:34	2.9	Bottom	3	1	22.42	7.82	32.67	93.40	6.4	3.5	3.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS8(N)	19:34	2.9	Bottom	3	2	22.37	7.81	32.72	92.80	6.3	3.5	3.7
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)9	19:08	1.0	Surface	1	1	22.46	7.83	32.60	94.20	6.4	3.4	2.4
HKLR HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)9	19:08	1.0	Surface	1	2	22.44	7.83	32.60	94.30	6.4	3.5	2.1
	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)9	19:08	2.6	Bottom	3	1	22.40	7.83	32.70	94.10	6.4	3.7	3.6
HKLR HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS(Mf)9	19:08	2.6	Bottom	3	2	22.39 22.40	7.82 7.84	32.70 31.71	94.30 93.40	6.4	3.6 3.7	3.1 2.1
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS10(N)	19:27	1.0	Surface	1	2	22.40			93.40		3.7	2.1
HKLR	HY/2011/03 HY/2011/03	2023-03-29 2023-03-29	Mid-Ebb Mid-Ebb	Fine Fine	IS10(N) IS10(N)	19:27 19:26	1.0 5.3	Surface Middle	2	1	22.39	7.84 7.81	31.74 32.87	93.80	6.4 6.2	3.7	2.3
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS10(N)	19:27	5.3	Middle	2	2	22.19	7.81	32.87	91.90	6.2	3.8	2.3
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS10(N)	19:26	9.5	Bottom	3	1	22.19	7.80	33.08	91.60	6.2	4.1	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	IS10(N)	19:27	9.5	Bottom	3	2	22.27	7.80	33.10	91.20	6.2	4.2	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR3(N)	18:29	1.0	Surface	1	1	22.43	7.83	32.61	94.60	6.5	3.5	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR3(N)	18:28	1.0	Surface	1	2	22.43	7.83	32.61	94.40	6.4	3.4	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR3(N)	18:28	2.2	Bottom	3	1	22.40	7.83	32.66	93.80	6.4	3.5	3.7
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR3(N)	18:28	2.2	Bottom	3	2	22.40	7.83	32.66	94.00	6.4	3.6	4.1
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR4(N3)	19:25	1.0	Surface	1	1	22.44	7.82	32.61	93.10	6.3	3.2	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR4(N3)	19:24	1.0	Surface	1	2	22.44	7.82	32.59	93.10	6.3	3.3	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR4(N3)	19:25	2.9	Bottom	3	1	22.40	7.82	32.70	92.90	6.3	3.5	2.1
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR4(N3)	19:24	2.9	Bottom	3	2	22.38	7.81	32.72	92.90	6.3	3.6	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:18	1.0	Surface	1	1	22.42	7.84	31.81	94.40	6.4	3.5	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:17	1.0	Surface	1	2	22.38	7.84	31.80	93.80	6.4	3.4	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:17	4.7	Middle	2	1	22.25	7.81	32.74	92.30	6.3	3.7	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:17	4.7	Middle	2	2	22.20	7.81	32.78	92.20	6.2	3.7	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:17	8.4	Bottom	3	1	22.28	7.80	33.04	92.00	6.2	4.2	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR5(N)	19:17	8.4	Bottom	3	2	22.24	7.81	33.10	91.80	6.2	4.2	3.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:22	1.0	Surface	1	1	22.35	7.86	32.44	94.40	6.3	3.2	1.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:22	1.0	Surface	1	2	22.35	7.86	32.48	94.30	6.3	3.2	1.3
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:22	6.5	Middle	2	1	22.05	7.82	33.85	90.60	6.1	3.5	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:21	6.5	Middle	2	2	22.04	7.83	33.93	91.10	6.1	3.5	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:21	11.9	Bottom	3	1	22.08	7.84	34.00	90.20	6.1	3.6	3.1
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10A(N)	20:22	11.9	Bottom	3	2	22.08	7.83	33.89	90.10	6.1	3.6	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:32	1.0	Surface	1	1	22.36	7.85	32.57	91.20	6.1	3.1	4.0
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:32	1.0	Surface	1	2	22.36	7.85	32.61	91.90	6.2	3.1	3.8
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:32	3.7	Middle	2	1	22.20	7.83	33.18	90.30	6.1	3.4	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:32	3.7	Middle	2	2	22.22	7.84	33.22	90.20	6.1	3.4	3.3
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:32	6.3	Bottom	3	1	22.21	7.83	33.59	89.90	6.0	3.5	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	SR10B(N2)	20:31	6.3	Bottom	3	2	22.18	7.83	33.69	89.80	6.0	3.6	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS2(A)	18:24	1.0	Surface	1	1	22.33	7.85	31.99	96.00	6.5	3.5	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS2(A)	18:25	1.0	Surface	1	2	22.39	7.85	31.92	96.10	6.5	3.4	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS2(A)	18:25	3.3	Middle	2	1	22.23	7.83	32.81	93.40	6.3	3.6	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS2(A)	18:24	3.3	Middle	2	2	22.23	7.84	32.82	93.80	6.4	3.8	3.2
HKLR HKLR	HY/2011/03 HY/2011/03	2023-03-29 2023-03-29	Mid-Ebb Mid-Ebb	Fine	CS2(A)	18:24	5.5	Bottom	3	1 2	22.25 22.29	7.84 7.82	33.13 33.09	92.60 92.90	6.3	4.1 4.2	3.7 4.0
HKLR				Fine	CS2(A)	18:25	5.5	Bottom			22.29				6.3	3.2	
HKLR	HY/2011/03 HY/2011/03	2023-03-29 2023-03-29	Mid-Ebb Mid-Ebb	Fine Fine	CS(Mf)5 CS(Mf)5	20:15 20:16	1.0 1.0	Surface Surface	1	1 2	22.50	7.82 7.83	32.71 32.71	90.70 90.60	6.2 6.1	3.2	1.4 1.8
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS(Mf)5	20:16	6.4	Middle	2	1	22.50	7.83	33.41	88.60	6.0	3.4	2.3
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS(Mf)5	20:15	6.4	Middle	2	2	22.14	7.78	33.41	88.30	6.0	3.4	2.3
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS(Mf)5	20:16	11.7	Bottom	3	1	22.14	7.78	32.91	87.30	5.9	3.5	3.2
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Ebb	Fine	CS(Mf)5	20:16	11.7	Bottom	3	2	22.18	7.78	33.40	87.60	6.0	3.5	3.5
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:38	1.0	Surface	1	1	22.16	7.78	33.40	90.70	6.2	3.4	1.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:37	1.0	Surface	1	2	22.39	7.84	32.62	91.70	6.3	3.4	1.7
HILK	111/2011/03	2023-03-29	เขเน-คเบบน	rille	133	0.37	1.0	Surrace	1		22.39	7.04	32.02	91.70	0.5	3.3	1.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:37	4.3	Middle	2	1	22.14	7.81	33.05	88.60	6.0	3.6	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:37	4.3	Middle	2	2	22.14	7.81	33.03	89.00	6.1	3.6	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:37	7.5	Bottom	3	1	22.13	7.80	33.21	88.20	6.0	3.8	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS5	6:36	7.5	Bottom	3	2	22.11	7.81	33.25	88.30	6.0	3.8	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS(Mf)6	6:27	1.0	Surface	1	1	22.40	7.84	32.62	93.70	6.4	3.2	2.0
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS(Mf)6	6:27	1.0	Surface	1	2	22.39	7.84	32.63	93.60	6.4	3.2	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS(Mf)6	6:27	2.2	Bottom	3	1	22.37	7.84	32.71	93.30	6.3	3.5	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS(Mf)6	6:27	2.2	Bottom	3	2	22.36	7.84	32.72	93.40	6.3	3.4	3.1
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS7	6:18	1.0	Surface	1	1	22.41	7.84	32.61	93.60	6.4	3.3	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS7	6:18	1.0	Surface	1	2	22.36	7.85	32.66	93.30	6.3	3.3	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS7	6:18	2.3	Bottom	3	1	22.36	7.84	32.69	93.20	6.3	3.5	5.0
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS7	6:18	2.3	Bottom	3	2	22.31	7.83	32.76	93.30	6.4	3.6	4.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS8(N)	5:45	1.0	Surface	1	1	22.37	7.84	32.64	93.50	6.4	3.2	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS8(N)	5:44	1.0	Surface	1	2	22.37	7.84	32.64	92.80	6.3	3.3	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS8(N)	5:44	3.0	Bottom	3	1	22.30	7.83	32.88	92.50	6.3	3.3	4.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS8(N)	5:44	3.0	Bottom	3	2	22.27	7.83	32.92	92.00	6.3	3.5	4.0
HKLR HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS(Mf)9	6:09	1.0	Surface	1	2	22.39	7.85 7.84	32.63	93.00 92.90	6.3	3.2	4.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood Mid-Flood	Fine	IS(Mf)9	6:09	1.0	Surface	3	1	22.40		32.62	92.90	6.3	3.2	3.9 2.7
HKLR	HY/2011/03 HY/2011/03	2023-03-29 2023-03-29	Mid-Flood Mid-Flood	Fine	IS(Mf)9 IS(Mf)9	6:09 6:08	2.6	Bottom	3	2	22.34 22.32	7.83 7.83	32.76 32.75	92.40	6.3	3.6 3.5	3.1
HKLR	HY/2011/03 HY/2011/03	2023-03-29		Fine		5:48	1.0	Bottom		1	22.32	7.83	32.75	94.60	6.4	3.5	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Flood Mid-Flood	Fine Fine	IS10(N) IS10(N)	5:48	1.0	Surface Surface	1	2	22.23	7.84	32.11	94.60	6.4	3.4	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-29	Mid-Flood	Fine	IS10(N)	5:48	5.4	Middle	2	1	22.06	7.80	33.10	92.40	6.3	3.4	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS10(N)	5:49	5.4	Middle	2	2	22.08	7.80	33.09	91.70	6.2	3.7	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS10(N)	5:48	9.7	Bottom	3	1	22.14	7.80	33.19	91.10	6.2	4.1	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	IS10(N)	5:48	9.7	Bottom	3	2	22.13	7.80	33.30	91.20	6.2	4.0	3.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR3(N)	6:49	1.0	Surface	1	1	22.13	7.84	32.62	92.10	6.3	3.3	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR3(N)	6:49	1.0	Surface	1	2	22.42	7.84	32.61	92.80	6.3	3.2	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR3(N)	6:49	2.3	Bottom	3	1	22.37	7.84	32.68	92.10	6.3	3.6	3.1
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR3(N)	6:48	2.3	Bottom	3	2	22.34	7.83	32.71	91.40	6.2	3.6	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR4(N3)	5:54	1.0	Surface	1	1	22.36	7.84	32.63	92.20	6.3	3.0	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR4(N3)	5:54	1.0	Surface	1	2	22.39	7.84	32.64	92.10	6.3	3.1	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR4(N3)	5:54	3.0	Bottom	3	1	22.29	7.83	32.89	91.90	6.2	3.2	3.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR4(N3)	5:53	3.0	Bottom	3	2	22.26	7.83	32.93	91.90	6.3	3.1	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:59	1.0	Surface	1	1	22.24	7.85	32.08	92.70	6.3	3.3	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:58	1.0	Surface	1	2	22.27	7.85	32.11	92.70	6.3	3.4	3.3
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:58	4.8	Middle	2	1	22.09	7.80	33.01	90.80	6.1	3.7	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:57	4.8	Middle	2	2	22.08	7.80	33.02	90.60	6.1	3.7	2.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:58	8.6	Bottom	3	1	22.14	7.80	33.16	91.00	6.2	4.1	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR5(N)	5:57	8.6	Bottom	3	2	22.15	7.80	33.23	90.30	6.1	4.0	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:59	1.0	Surface	1	1	22.40	7.83	32.22	92.00	6.2	3.1	3.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:58	1.0	Surface	1	2	22.39	7.82	32.34	92.30	6.2	3.2	3.0
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:59	6.6	Middle	2	1	22.07	7.78	32.95	89.30	6.0	3.4	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:58	6.6	Middle	2	2	22.08	7.78	32.99	89.90	6.1	3.4	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:58	12.2	Bottom	3	1	22.20	7.78	33.40	88.70	6.0	3.8	1.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10A(N)	4:58	12.2	Bottom	3	2	22.19	7.78	33.56	88.90	6.0	3.8	1.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:48	1.0	Surface	1	1	22.38	7.82	32.35	95.80	6.5	3.3	1.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:47	1.0	Surface	1	2	22.39	7.81	32.22	96.20	6.5	3.3	1.9
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:47	3.7	Middle	2	1	22.22	7.78	33.02	92.30	6.2	3.6	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:48	3.7	Middle	2	2	22.21	7.79	33.06	91.50	6.2	3.6	2.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:48	6.4	Bottom	3	1	22.27	7.78	33.42	91.30	6.2	3.9	2.7
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	SR10B(N2)	4:47	6.4	Bottom	3	2	22.19	7.76	33.47	91.20	6.1	3.9	3.1
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:50	1.0	Surface	1	1	22.26	7.85	31.95	93.50	6.3	3.7	1.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:49	1.0	Surface	1	2	22.24	7.85	32.03	93.60	6.3	3.7	1.8
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:50	3.3	Middle	2	1	22.14	7.83	32.83	92.30	6.2	3.8	2.6
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:49	3.3	Middle	2	2	22.15	7.84	32.80	91.50	6.2	3.9	2.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:49	5.6	Bottom	3	1	22.17	7.82	33.12	91.30	6.2	4.0	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS2(A)	6:49	5.6	Bottom	3	2	22.22	7.81	33.02	91.60	6.2	4.2	2.9
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:06	1.0	Surface	1	1	22.40	7.83	32.72	94.20	6.4	3.2	2.1

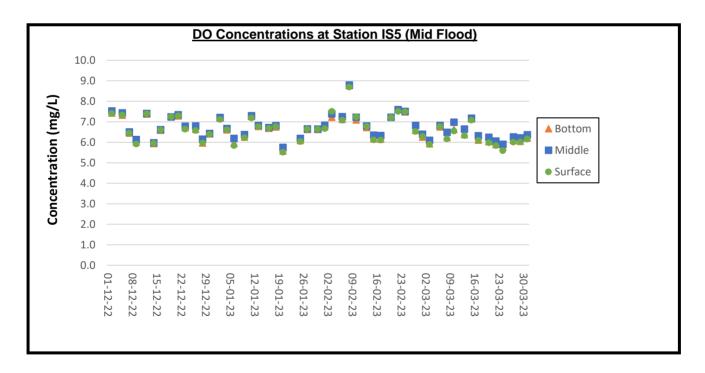
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:06	1.0	Surface	1	2	22.41	7.83	32.70	95.00	6.4	3.1	2.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:06	6.3	Middle	2	1	22.07	7.80	33.46	91.50	6.2	3.4	3.2
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:05	6.3	Middle	2	2	22.08	7.81	33.46	91.30	6.2	3.4	3.5
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:05	11.5	Bottom	3	1	22.10	7.81	33.48	89.20	6.1	3.7	4.4
HKLR	HY/2011/03	2023-03-29	Mid-Flood	Fine	CS(Mf)5	5:06	11.5	Bottom	3	2	22.10	7.81	33.47	89.10	6.1	3.7	3.9
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:44	1.0	Surface	1	1	22.18	7.86	32.23	93.30	6.4	3.6	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:44	1.0	Surface	1	2	22.19	7.85	32.24	93.40	6.5	3.6	2.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:43	4.2	Middle	2	1	22.08	7.84	32.52	92.60	6.4	3.9	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:44	4.2	Middle	2	2	22.10	7.83	32.50	92.70	6.4	3.9	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:43	7.4	Bottom	3	1	22.08	7.84	32.60	92.60	6.4	3.9	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS5	20:44	7.4	Bottom	3	2	22.13	7.84	32.54	92.40	6.4	4.0	3.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)6	20:54	1.0	Surface	1	1	22.21 22.20	7.85	32.21	96.20	6.6	3.5	2.7
HKLR HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)6	20:54 20:54	1.0 2.2	Surface	3	2	22.20	7.86	32.20 32.27	95.60 95.00	6.6	3.6 3.9	3.5
HKLR	HY/2011/03 HY/2011/03	2023-03-31	Mid-Ebb Mid-Ebb	Fine	IS(Mf)6	20:54		Bottom	3	2	22.19	7.86 7.86	32.27	94.40	6.6	4.0	3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-31 2023-03-31	Mid-Ebb	Fine Fine	IS(Mf)6 IS7	20:53	2.2 1.0	Bottom Surface	1	1	22.17	7.86	32.28	95.50	6.5 6.6	3.3	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS7	21:04	1.0	Surface	1	2	22.22	7.86	32.22	95.50	6.6	3.4	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS7	21:04	2.4	Bottom	3	1	22.19	7.86	32.28	95.20	6.6	3.6	2.1
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS7	21:04	2.4		3	2	22.17	7.86	32.30	95.40	6.6	3.6	2.2
HKLR	HY/2011/03 HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS8(N)	21:04	1.0	Bottom Surface	1	1	22.17	7.85	32.30	94.40	6.5	3.6	2.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS8(N)	21:39	1.0	Surface	1	2	22.19	7.84	32.20	94.10	6.5	3.5	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS8(N)	21:39	2.9	Bottom	3	1	22.19	7.84	32.28	94.10	6.5	3.7	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS8(N)	21:39	2.9	Bottom	3	2	22.16	7.83	32.31	93.70	6.5	3.7	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)9	21:14	1.0	Surface	1	1	22.21	7.86	32.22	95.20	6.6	3.5	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)9	21:13	1.0	Surface	1	2	22.21	7.85	32.22	95.20	6.6	3.6	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)9	21:13	2.6	Bottom	3	1	22.18	7.85	32.31	95.10	6.6	3.8	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS(Mf)9	21:13	2.6	Bottom	3	2	22.17	7.85	32.30	95.20	6.6	3.7	2.5
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:25	1.0	Surface	1	1	22.17	7.89	31.69	93.60	6.5	3.7	2.1
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:26	1.0	Surface	1	2	22.16	7.89	31.69	94.10	6.5	3.7	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:25	5.3	Middle	2	1	22.07	7.87	32.49	92.70	6.4	3.9	2.5
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:26	5.3	Middle	2	2	22.06	7.86	32.53	92.70	6.4	3.8	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:26	9.5	Bottom	3	1	22.11	7.86	32.66	92.10	6.3	4.1	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	IS10(N)	21:25	9.5	Bottom	3	2	22.11	7.86	32.65	92.50	6.4	4.0	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR3(N)	20:32	1.0	Surface	1	1	22.20	7.86	32.22	95.80	6.6	3.7	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR3(N)	20:32	1.0	Surface	1	2	22.21	7.86	32.22	95.30	6.6	3.7	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR3(N)	20:32	2.2	Bottom	3	1	22.19	7.86	32.26	94.80	6.5	3.8	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR3(N)	20:32	2.2	Bottom	3	2	22.23	7.85	32.26	94.80	6.5	3.8	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR4(N3)	21:29	1.0	Surface	1	1	22.21	7.85	32.22	93.90	6.5	3.3	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR4(N3)	21:29	1.0	Surface	1	2	22.20	7.84	32.20	93.80	6.5	3.4	2.1
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR4(N3)	21:29	2.8	Bottom	3	1	22.19	7.84	32.30	93.60	6.5	3.6	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR4(N3)	21:29	2.8	Bottom	3	2	22.17	7.83	32.30	93.40	6.4	3.6	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:16	1.0	Surface	1	1	22.19	7.89	31.75	94.50	6.5	3.7	2.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:16	1.0	Surface	1	2	22.17	7.89	31.76	93.90	6.5	3.6	2.5
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:16	4.7	Middle	2	1	22.11	7.87	32.39	92.70	6.4	3.8	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:16	4.7	Middle	2	2	22.08	7.87	32.41	92.40	6.4	3.9	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:16	8.4	Bottom	3	1	22.11	7.86	32.65	92.70	6.4	4.3	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR5(N)	21:15	8.4	Bottom	3	2	22.09	7.87	32.68	92.30	6.3	4.3	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:19	1.0	Surface	1	1	22.14	7.90	32.42	94.10	6.4	3.1	3.9
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:18	1.0	Surface	1	2	22.15	7.90	32.39	93.90	6.4	3.1	3.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:18	6.4	Middle	2	1	22.00	7.88	33.32	91.60	6.3	3.5	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:19	6.4	Middle	2	2	22.00	7.88	33.28	91.20	6.2	3.5	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:18	11.7	Bottom	3	1	22.02	7.89	33.36	91.40	6.2	3.6	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10A(N)	22:19	11.7	Bottom	3	2	22.02	7.88	33.30	91.30	6.2	3.6	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:29	1.0	Surface	1	1	22.17	7.89	32.48	92.20	6.3	3.1	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:30	1.0	Surface	1	2	22.16	7.89	32.50	92.60	6.3	3.1	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:30	3.9	Middle	2	1	22.10	7.88	32.86	91.40	6.3	3.4	4.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:29	3.9	Middle	2	2	22.10	7.89	32.89	91.20	6.2	3.4	3.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:29	6.7	Bottom	3	1	22.07	7.88	33.17	91.00	6.2	3.7	4.3
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	SR10B(N2)	22:30	6.7	Bottom	3	2	22.10	7.88	33.10	91.10	6.2	3.6	4.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:23	1.0	Surface	1	1	22.13	7.90	31.93	96.10	6.6	3.6	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:24	1.0	Surface	1	2	22.17	7.90	31.86	96.20	6.6	3.5	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:24	3.3	Middle	2	1	22.09	7.88	32.50	94.00	6.5	3.7	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:23	3.3	Middle	2	2	22.08	7.89	32.50	94.00	6.5	3.9	3.7
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:23	5.5	Bottom	3	1	22.09	7.89	32.78	93.10	6.4	4.1	4.0
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS2(A)	20:24	5.5	Bottom	3	2	22.11	7.88	32.75	93.60	6.4	4.2	4.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:19	1.0	Surface	1	1	22.22	7.86	32.36	91.30	6.3	3.3	3.5
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:18	1.0	Surface	1	2	22.23	7.85	32.36	91.20	6.3	3.3	3.7
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:18	6.4	Middle	2	1	22.05	7.81	32.93	89.60	6.2	3.5	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:19	6.4	Middle	2	2	22.05	7.81	32.92	89.40	6.2	3.4	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:19	11.7	Bottom	3	1	22.07	7.81	32.48	88.80	6.1	3.6	2.5
HKLR	HY/2011/03	2023-03-31	Mid-Ebb	Fine	CS(Mf)5	22:18	11.7	Bottom	3	2	22.05	7.81	32.92	89.10	6.1	3.6	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS5	9:58	1.0	Surface	1	1	22.17	7.87	32.24	91.70	6.3	3.5	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS5	9:57	1.0	Surface	1	2	22.18	7.87	32.24	92.90	6.4	3.5	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS5	9:57	4.3	Middle	2	1	22.07	7.84	32.56	90.10	6.2	3.7	3.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS5	9:58	4.3	Middle	2	2	22.07 22.07	7.84	32.55	90.50	6.2	3.6	3.8
HKLR HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS5	9:58	7.5	Bottom	3	2		7.83 7.84	32.67	89.80	6.2	3.9	4.0 4.2
HKLR	HY/2011/03	2023-03-31	Mid-Flood Mid-Flood	Fine	IS5	9:57 9:49	7.5	Bottom	1	1	22.06		32.68	89.60 94.10	6.2	3.9	3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-31 2023-03-31	Mid-Flood Mid-Flood	Fine Fine	IS(Mf)6 IS(Mf)6	9:49 9:49	1.0	Surface	1	2	22.19 22.18	7.88 7.88	32.23 32.24	94.10	6.5 6.4	3.4 3.4	3.0
HKLR	HY/2011/03 HY/2011/03	2023-03-31		Fine		9:49	2.2	Surface	3	1	22.18	7.88	32.24	94.00	6.4	3.4	3.3
HKLR	HY/2011/03 HY/2011/03	2023-03-31	Mid-Flood Mid-Flood	Fine	IS(Mf)6 IS(Mf)6	9:49	2.2	Bottom Bottom	3	2	22.18	7.87	32.31	93.70	6.4	3.7	3.7
HKLR	HY/2011/03 HY/2011/03	2023-03-31	Mid-Flood	Fine	IS7	9:38	1.0	Surface	1	1	22.17	7.87	32.32	93.90	6.5	3.4	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS7	9:37	1.0	Surface	1	2	22.20	7.88	32.22	93.60	6.4	3.4	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS7	9:38	2.3	Bottom	3	1	22.17	7.87	32.29	93.60	6.4	3.4	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS7	9:37	2.3	Bottom	3	2	22.15	7.87	32.33	93.60	6.4	3.7	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS8(N)	9:05	1.0	Surface	1	1	22.15	7.87	32.23	93.70	6.5	3.4	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS8(N)	9:05	1.0	Surface	1	2	22.15	7.87	32.23	94.40	6.5	3.4	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS8(N)	9:05	3.0	Bottom	3	1	22.13	7.86	32.42	93.40	6.4	3.5	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS8(N)	9:04	3.0	Bottom	3	2	22.11	7.86	32.45	92.70	6.4	3.6	3.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS(Mf)9	9:28	1.0	Surface	1	1	22.16	7.87	32.22	93.60	6.4	3.4	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS(Mf)9	9:28	1.0	Surface	1	2	22.17	7.88	32.24	93.50	6.4	3.3	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS(Mf)9	9:28	2.6	Bottom	3	1	22.14	7.87	32.33	93.00	6.4	3.7	3.5
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS(Mf)9	9:28	2.6	Bottom	3	2	22.13	7.86	32.33	92.90	6.4	3.7	3.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:14	1.0	Surface	1	1	22.08	7.89	31.99	94.40	6.5	3.4	4.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:15	1.0	Surface	1	2	22.10	7.89	31.99	93.90	6.5	3.4	4.0
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:15	5.4	Middle	2	1	22.00	7.86	32.67	92.10	6.3	3.8	3.7
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:14	5.4	Middle	2	2	21.99	7.86	32.68	92.80	6.4	3.7	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:14	9.7	Bottom	3	1	22.04	7.86	32.72	92.20	6.3	4.1	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	IS10(N)	9:14	9.7	Bottom	3	2	22.03	7.86	32.80	92.40	6.4	4.1	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR3(N)	10:09	1.0	Surface	1	1	22.19	7.87	32.24	92.40	6.4	3.5	3.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR3(N)	10:09	1.0	Surface	1	2	22.20	7.87	32.23	93.00	6.4	3.4	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR3(N)	10:09	2.3	Bottom	3	1	22.18	7.87	32.29	92.30	6.3	3.8	4.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR3(N)	10:08	2.3	Bottom	3	2	22.17	7.86	32.32	91.60	6.3	3.8	3.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR4(N3)	9:14	1.0	Surface	1	1	22.17	7.87	32.24	92.90	6.4	3.2	3.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR4(N3)	9:14	1.0	Surface	1	2	22.17	7.87	32.23	93.10	6.4	3.2	3.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR4(N3)	9:14	3.0	Bottom	3	1	22.13	7.86	32.43	92.80	6.4	3.4	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR4(N3)	9:13	3.0	Bottom	3	2	22.10	7.86	32.46	92.90	6.4	3.3	2.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:25	1.0	Surface	1	1	22.09	7.89	31.98	92.80	6.4	3.4	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:24	1.0	Surface	1	2	22.09	7.89	32.00	92.90	6.4	3.5	2.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:24	4.8	Middle	2	1	22.01	7.86	32.60	91.40	6.3	3.7	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:24	4.8	Middle	2	2	22.01	7.86	32.60	91.50	6.3	3.8	2.5
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:24	8.6	Bottom	3	1	22.03	7.86	32.73	91.80	6.3	4.2	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR5(N)	9:23	8.6	Bottom	3	2	22.03	7.86	32.76	91.70	6.3	4.1	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:22	1.0	Surface	1	1	22.17	7.87	32.22	92.80	6.4	3.1	2.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:22	1.0	Surface	1	2	22.16	7.87	32.27	92.40	6.3	3.2	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:22	6.5	Middle	2	1	22.00	7.84	32.75	90.10	6.2	3.3	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:21	6.5	Middle	2	2	22.01	7.84	32.77	90.70	6.2	3.4	3.1
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:22	11.9	Bottom	3	1	22.08	7.84	33.09	90.20	6.2	3.8	3.3

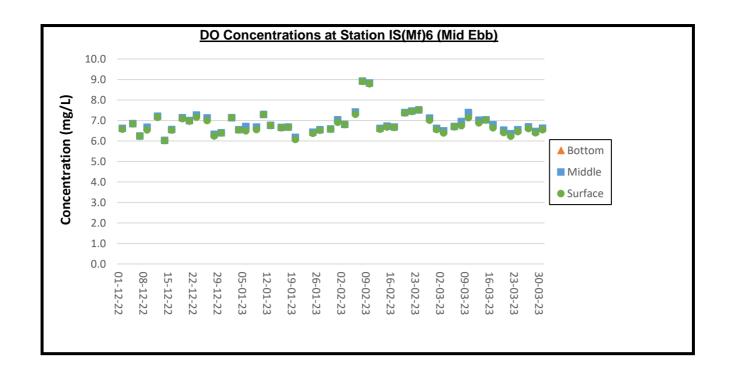
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10A(N)	8:21	11.9	Bottom	3	2	22.07	7.84	33.00	90.40	6.2	3.8	3.5
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:12	1.0	Surface	1	1	22.17	7.86	32.28	96.30	6.6	3.2	2.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:11	1.0	Surface	1	2	22.18	7.85	32.20	96.50	6.6	3.3	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:11	3.9	Middle	2	1	22.09	7.83	32.72	93.60	6.4	3.5	3.3
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:12	3.9	Middle	2	2	22.10	7.84	32.70	92.30	6.3	3.5	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:12	6.7	Bottom	3	1	22.11	7.83	33.00	91.90	6.3	3.8	3.5
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	SR10B(N2)	8:11	6.7	Bottom	3	2	22.07	7.82	33.04	91.80	6.3	3.8	3.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:12	1.0	Surface	1	1	22.09	7.90	31.92	93.70	6.5	3.9	2.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:12	1.0	Surface	1	2	22.09	7.90	31.96	93.60	6.5	3.8	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:12	3.3	Middle	2	1	22.03	7.88	32.46	92.70	6.4	4.0	2.9
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:12	3.3	Middle	2	2	22.04	7.90	32.45	92.00	6.3	4.1	3.0
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:11	5.6	Bottom	3	1	22.04	7.88	32.70	91.70	6.3	4.2	3.5
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS2(A)	10:12	5.6	Bottom	3	2	22.06	7.87	32.65	92.00	6.3	4.4	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:27	1.0	Surface	1	1	22.18	7.85	32.32	95.00	6.5	3.3	2.4
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:28	1.0	Surface	1	2	22.19	7.86	32.30	95.20	6.5	3.3	2.7
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:27	6.3	Middle	2	1	22.00	7.83	32.82	92.40	6.3	3.5	2.8
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:27	6.3	Middle	2	2	22.02	7.83	32.81	92.80	6.4	3.6	3.2
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:26	11.5	Bottom	3	1	22.04	7.83	32.84	91.30	6.3	3.9	3.6
HKLR	HY/2011/03	2023-03-31	Mid-Flood	Fine	CS(Mf)5	8:27	11.5	Bottom	3	2	22.02	7.84	32.84	91.10	6.3	3.8	3.4



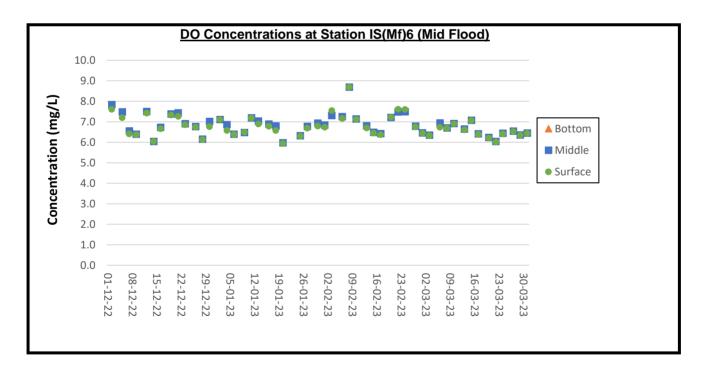
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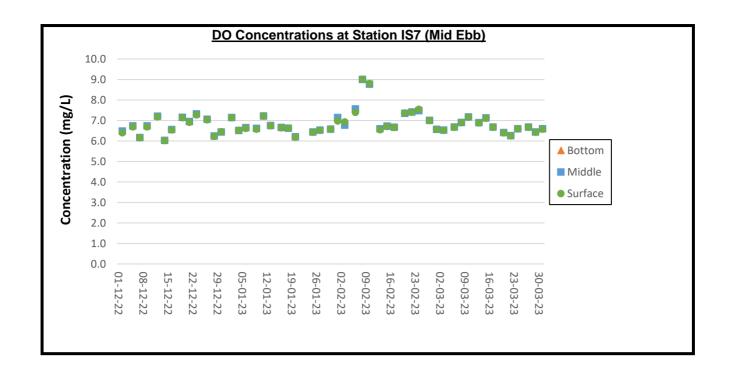
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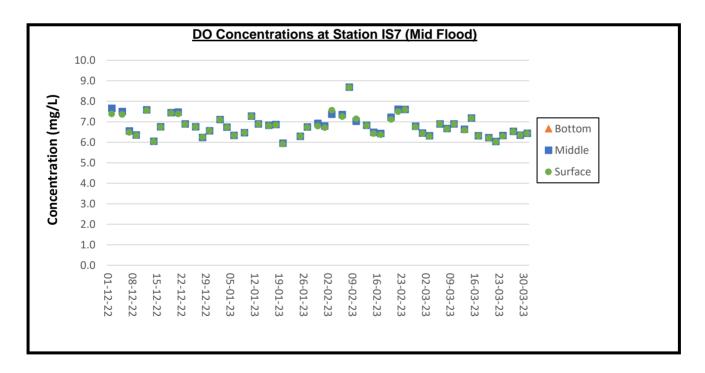
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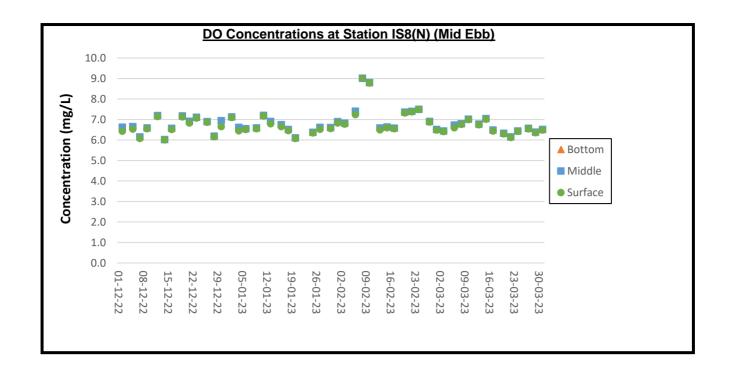
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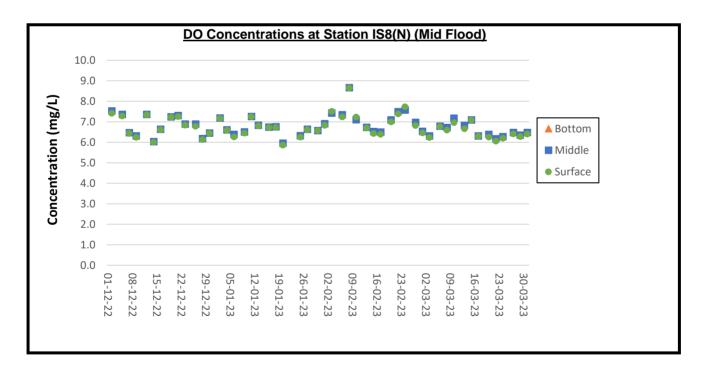
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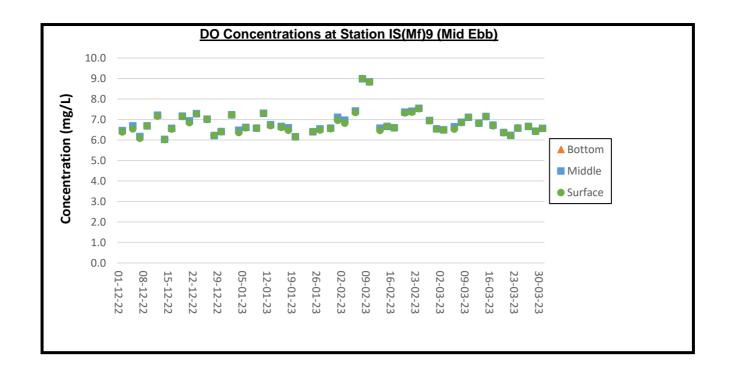
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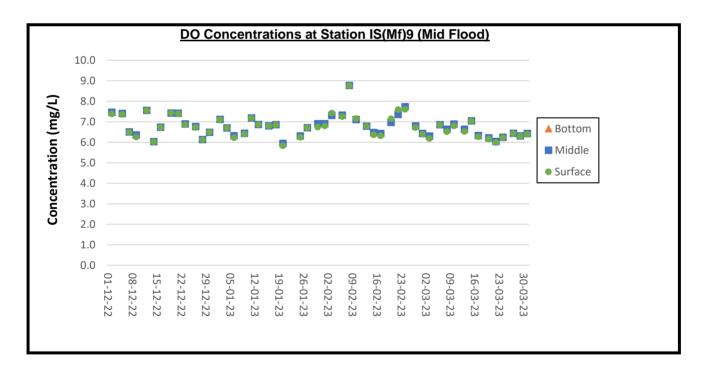
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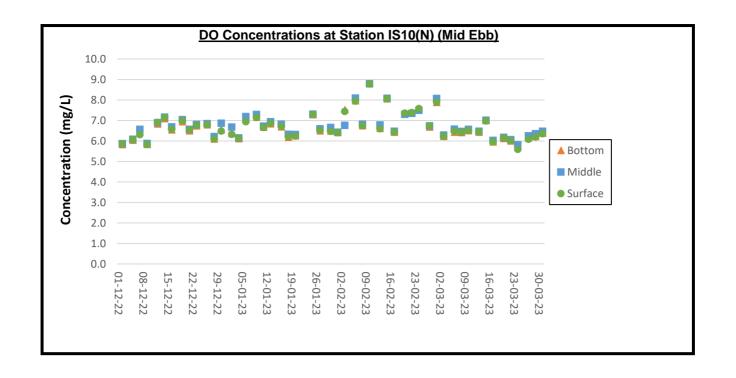
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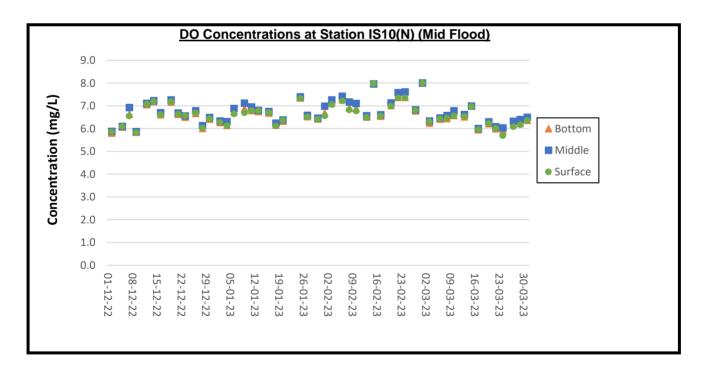
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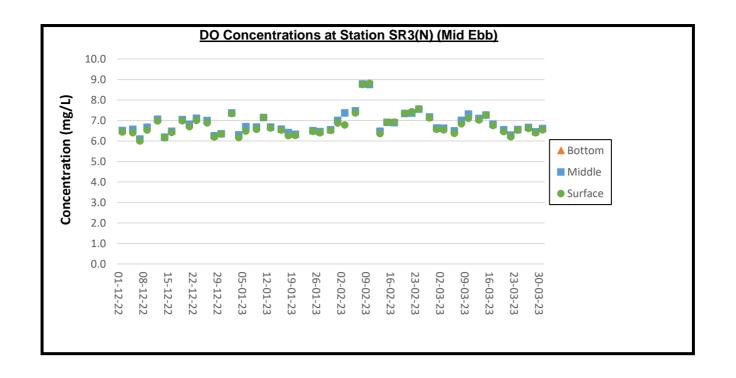
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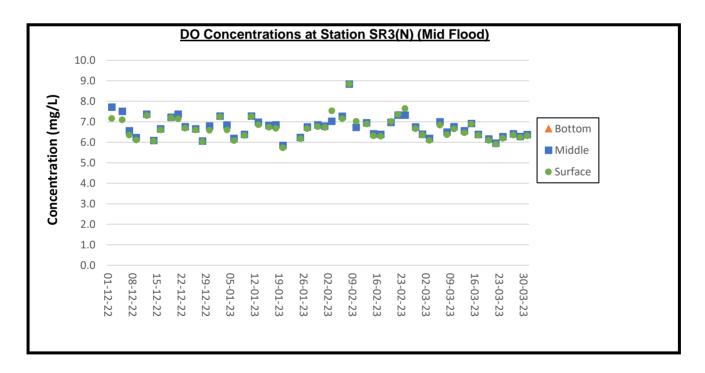
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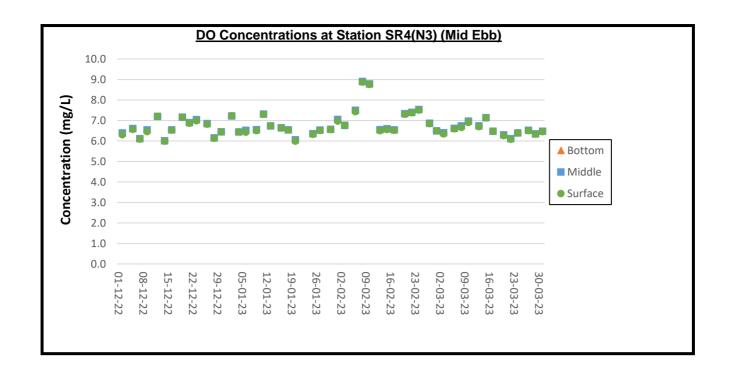
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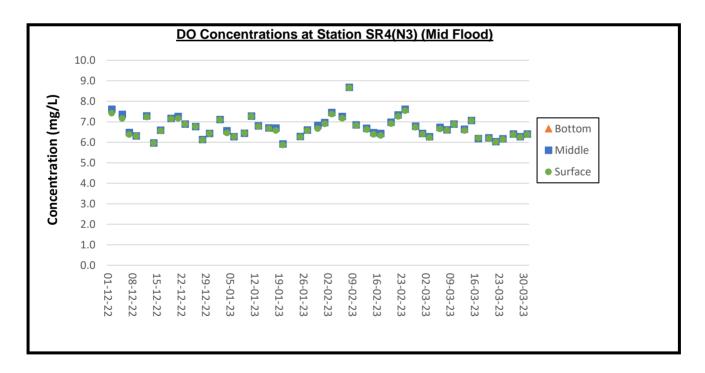
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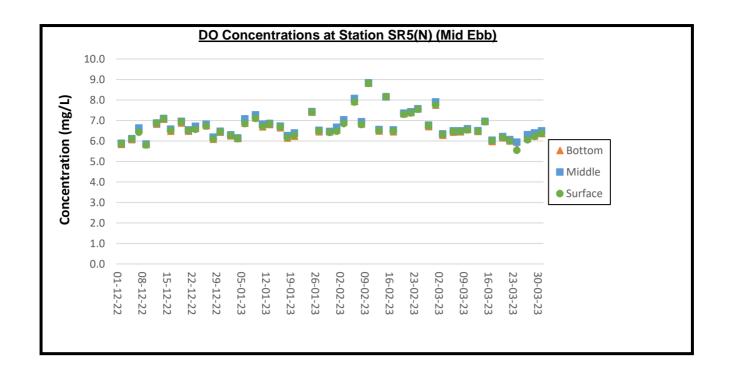
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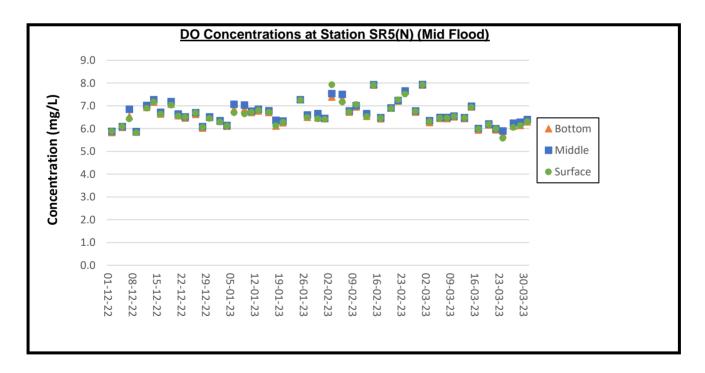
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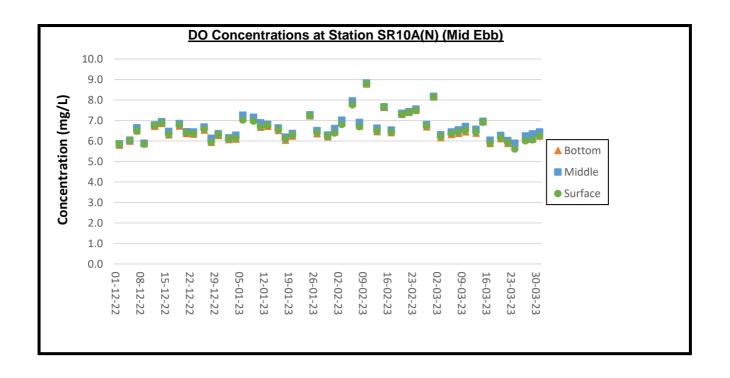
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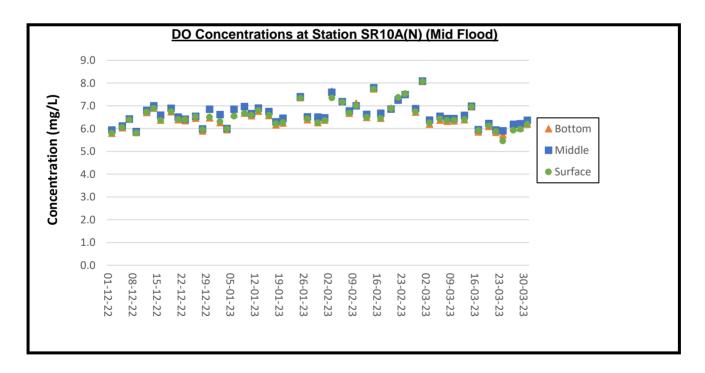
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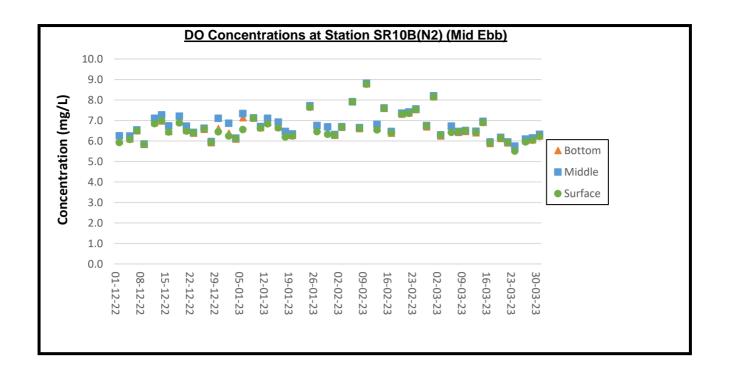
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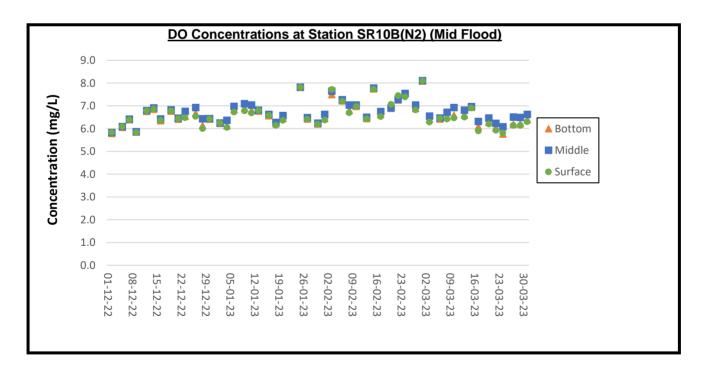
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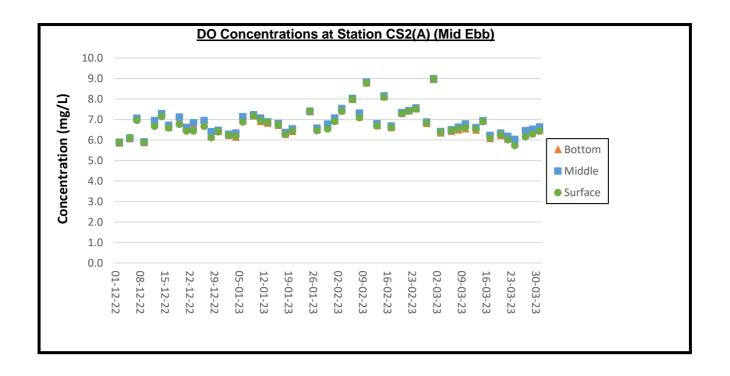
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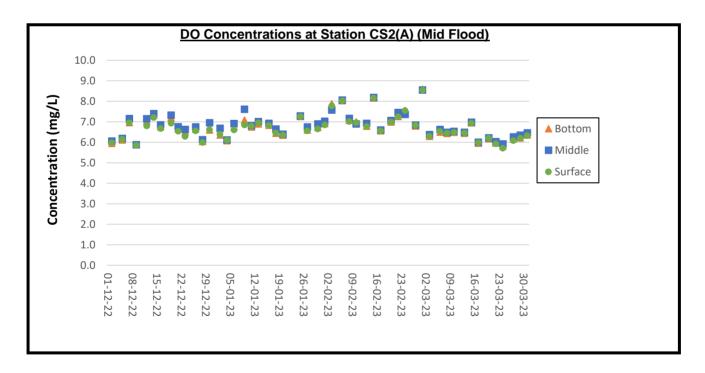
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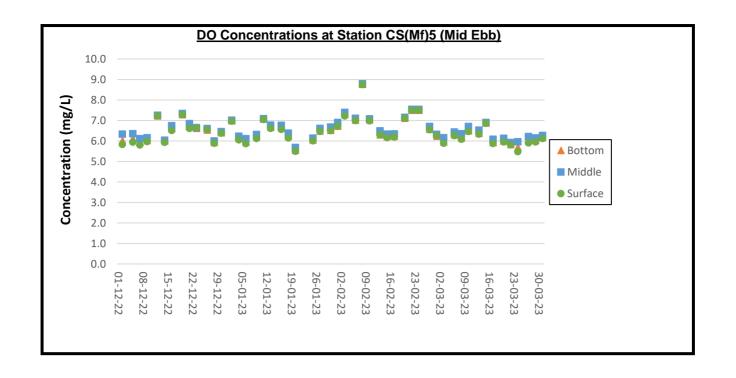
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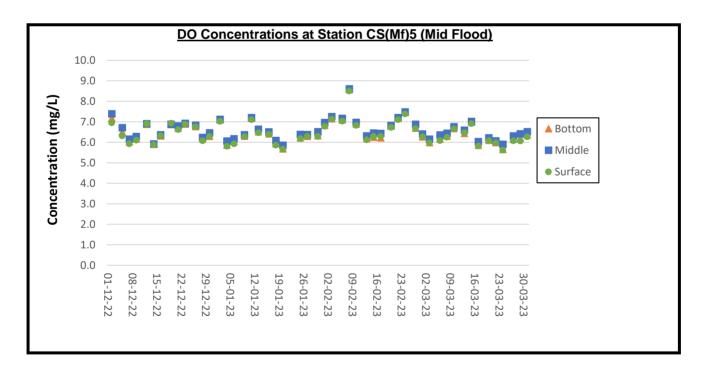
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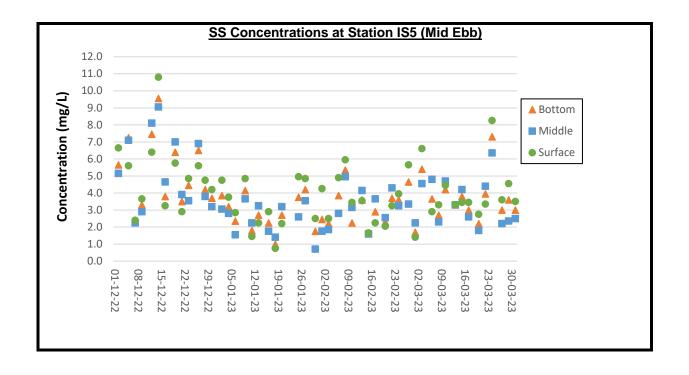
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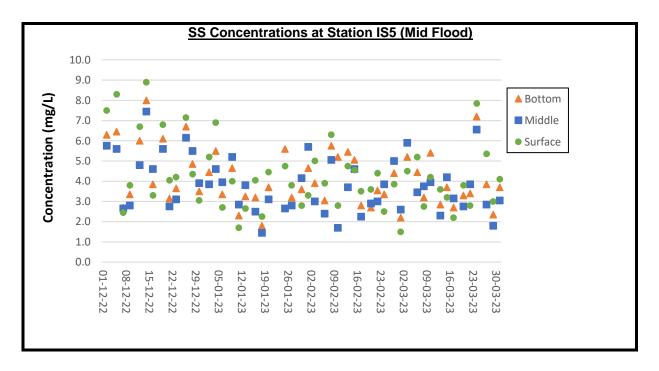
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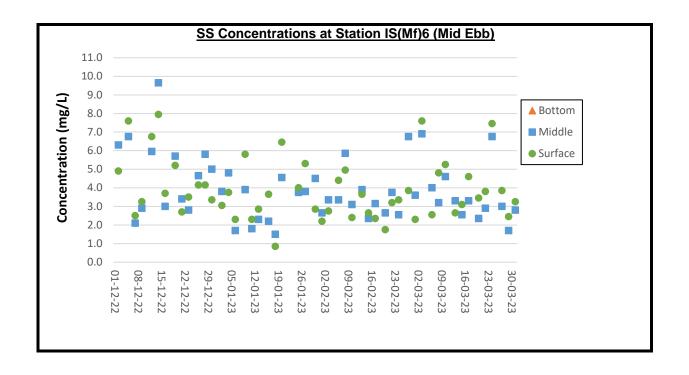
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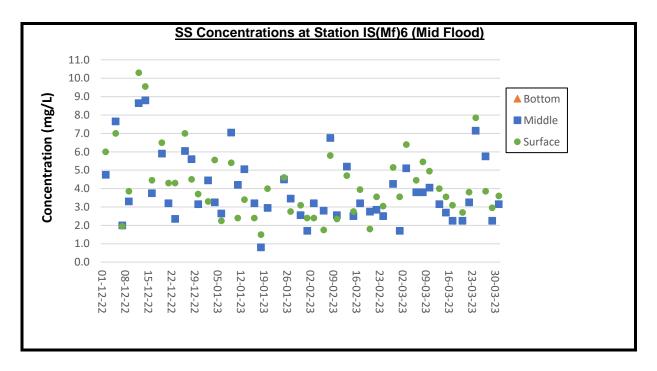
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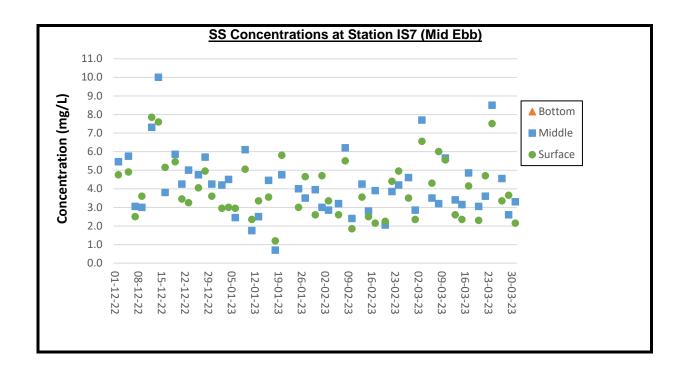
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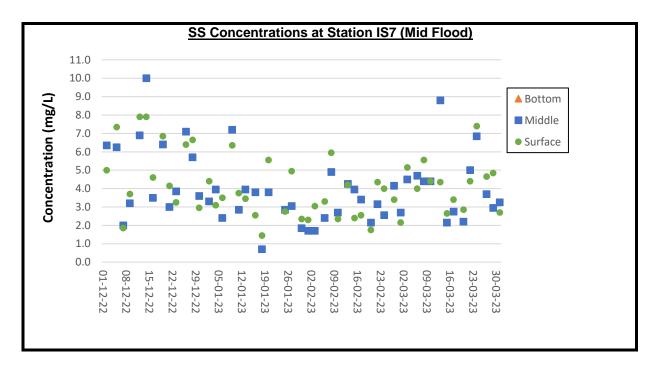
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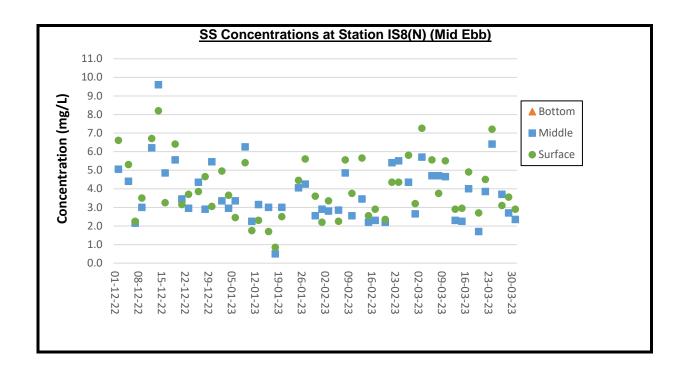
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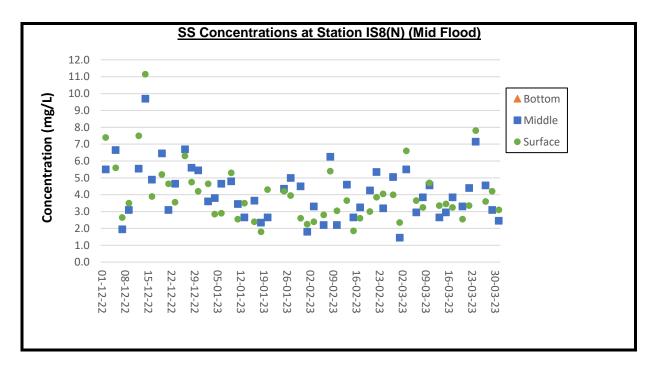
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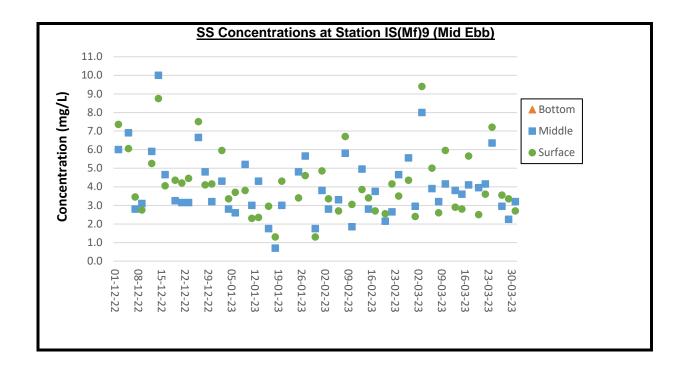
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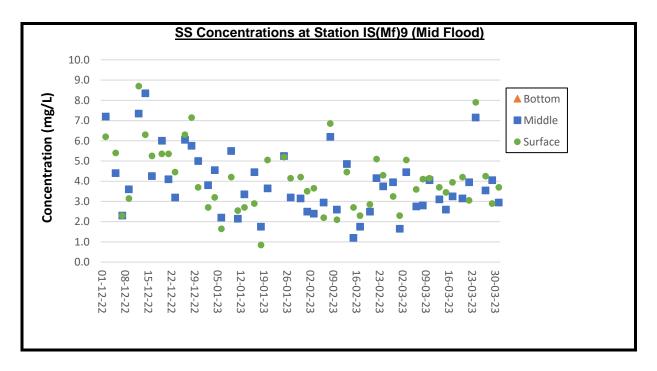
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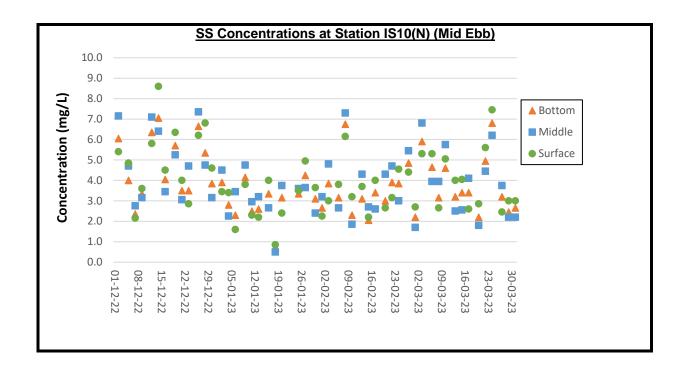
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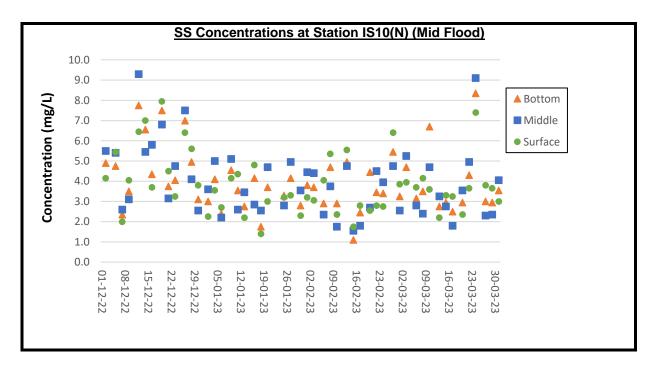
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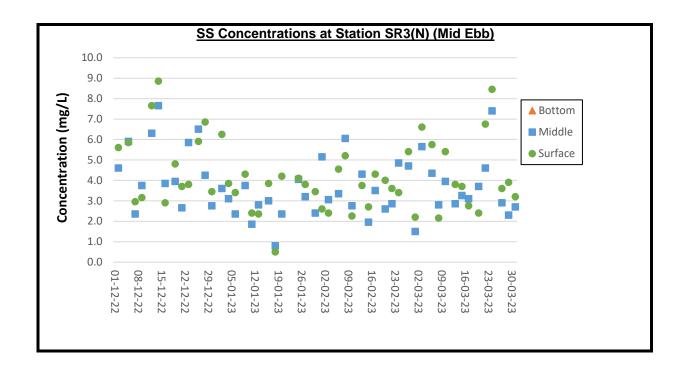
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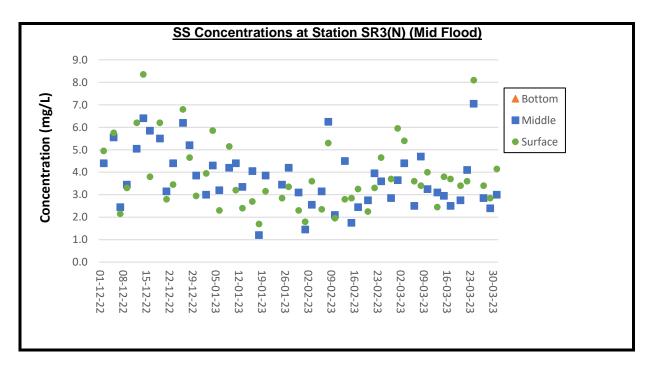
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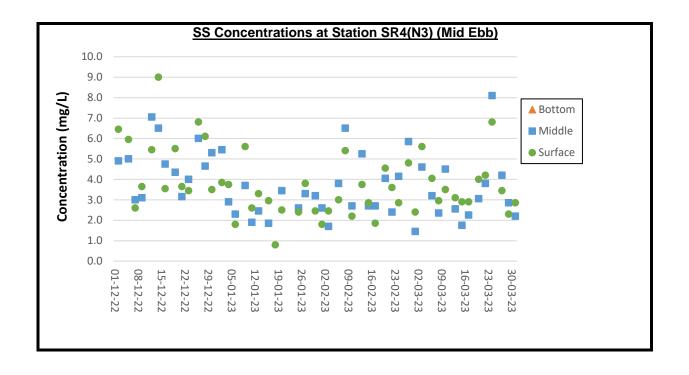
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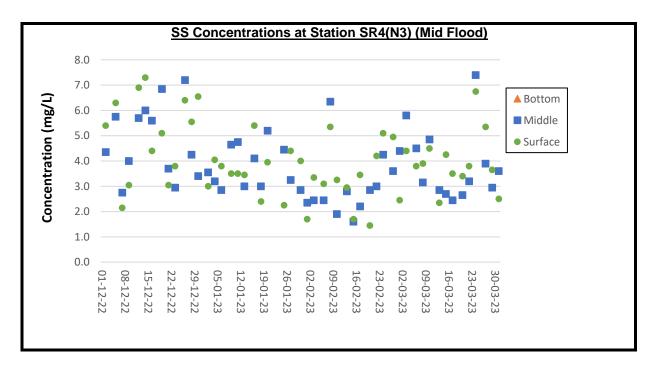
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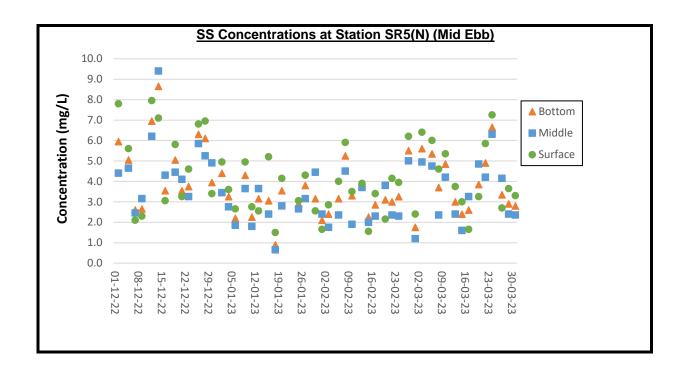
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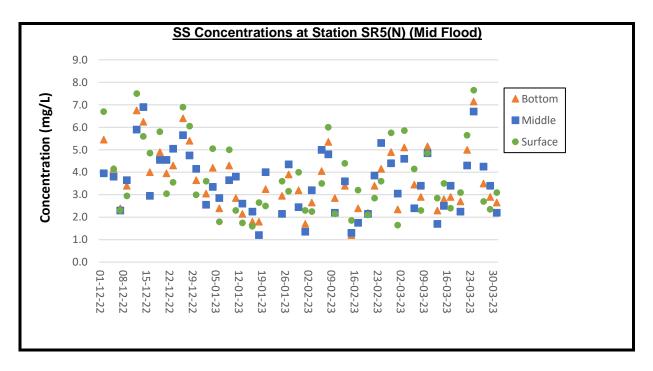
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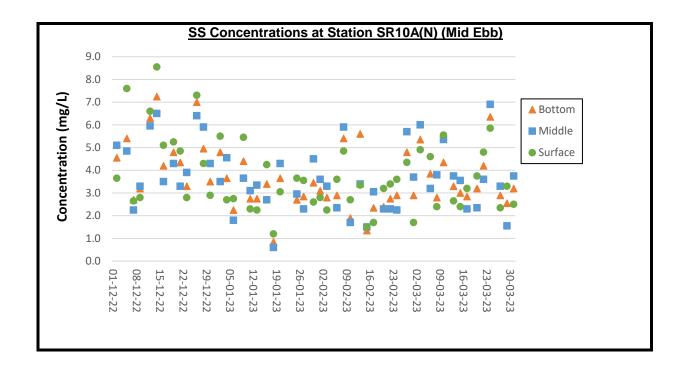
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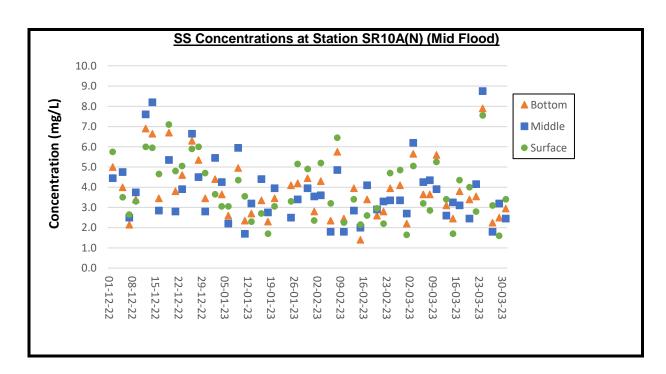
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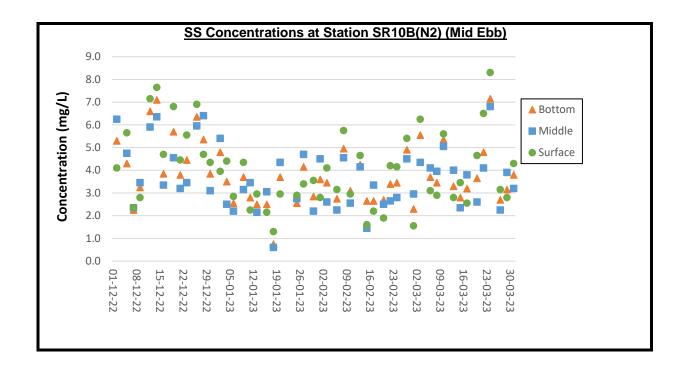
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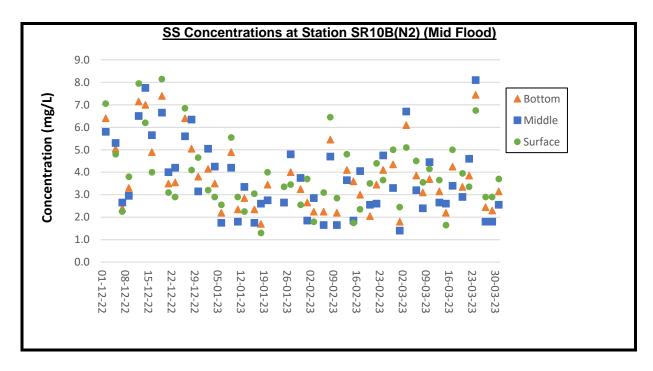
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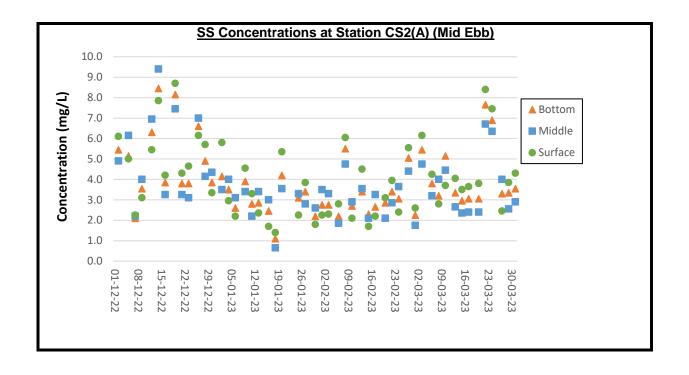
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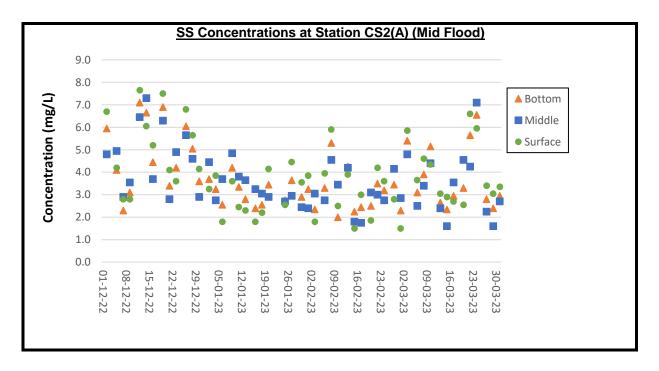
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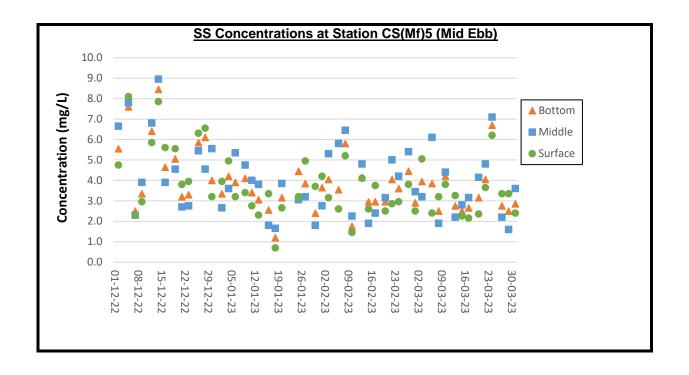
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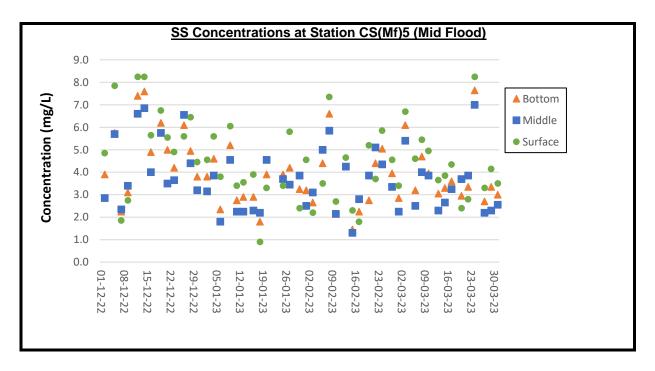
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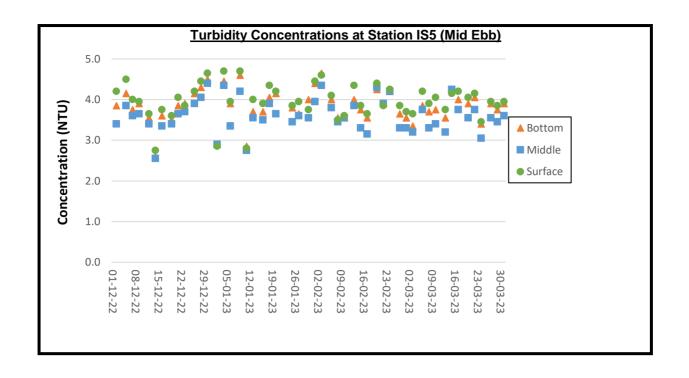
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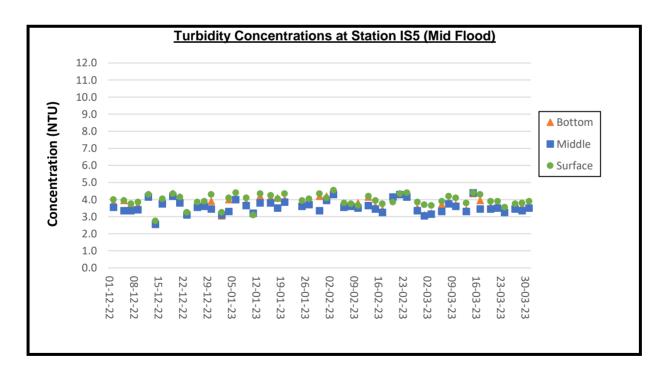
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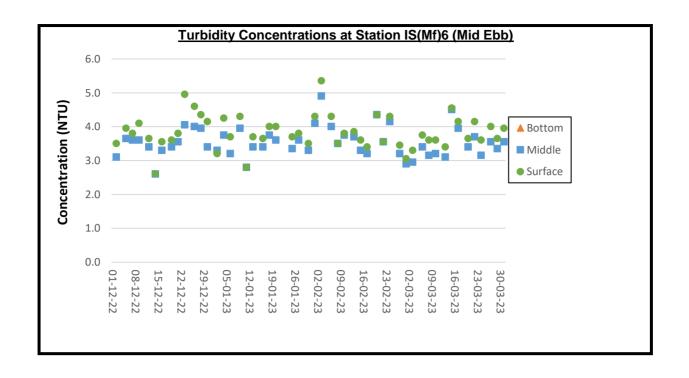
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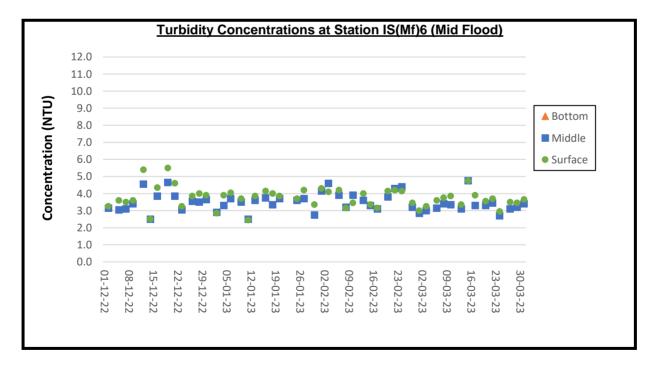
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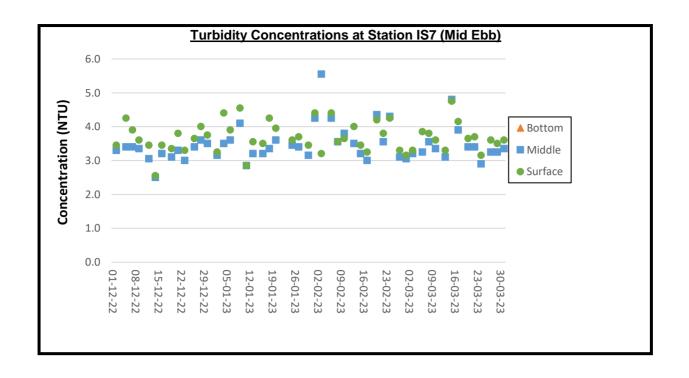
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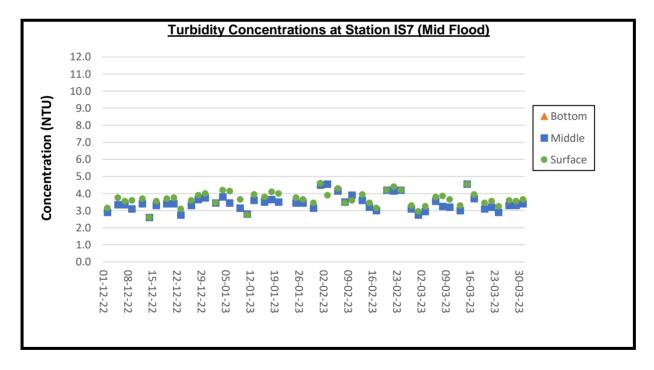
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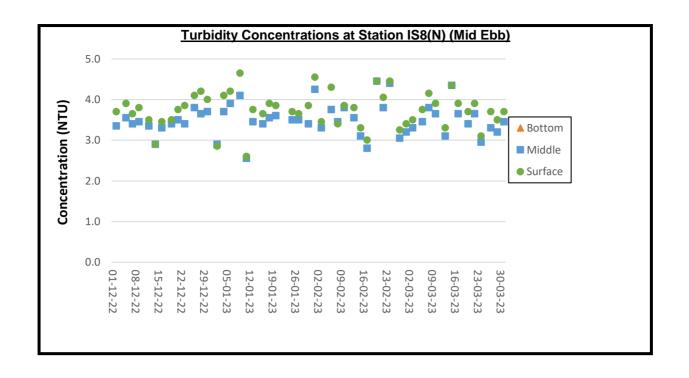
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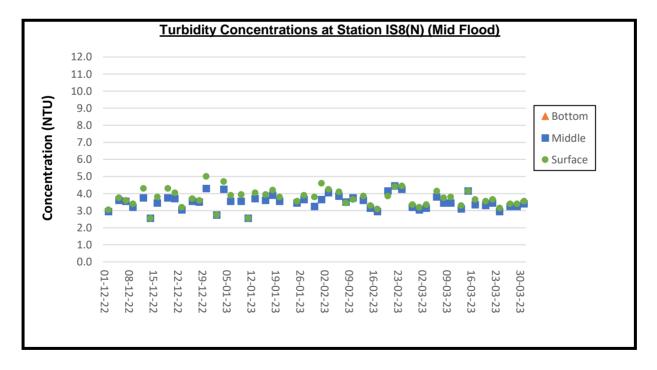
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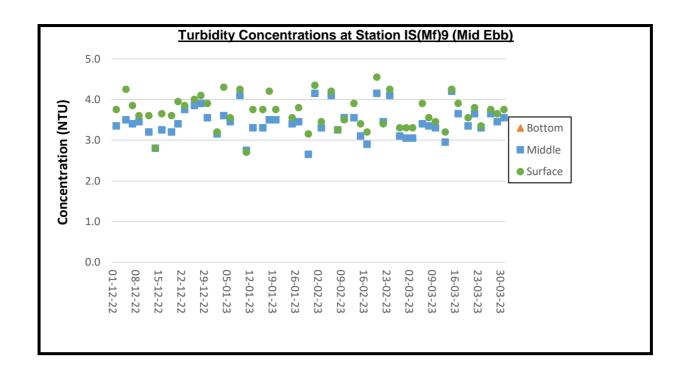
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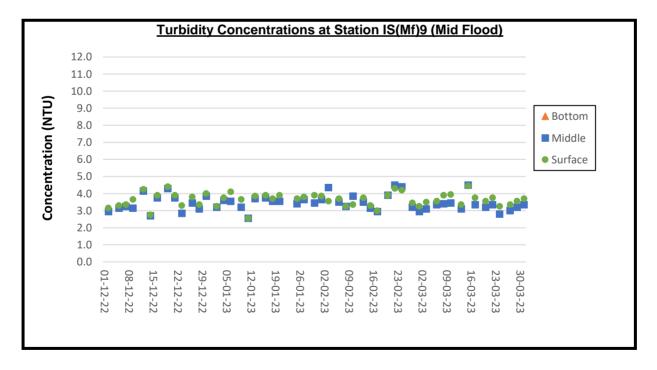
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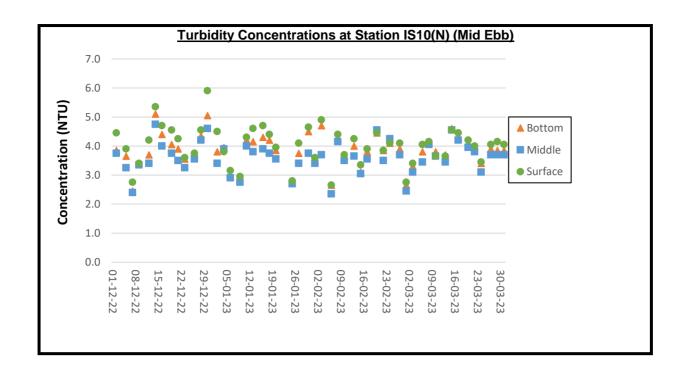
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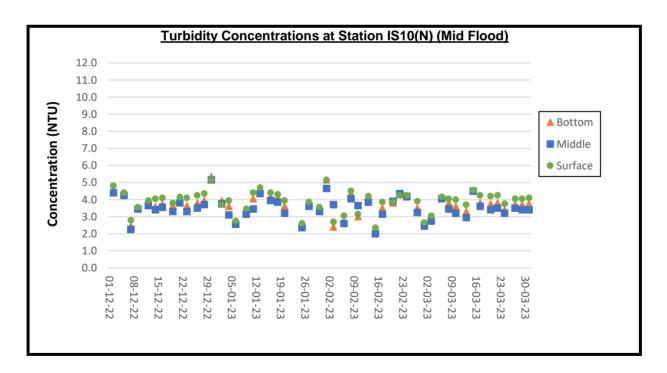
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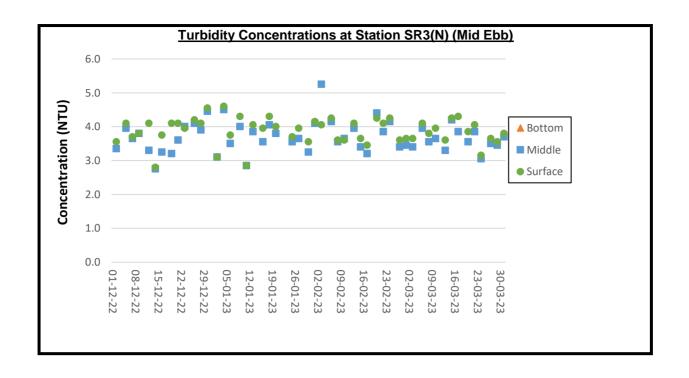
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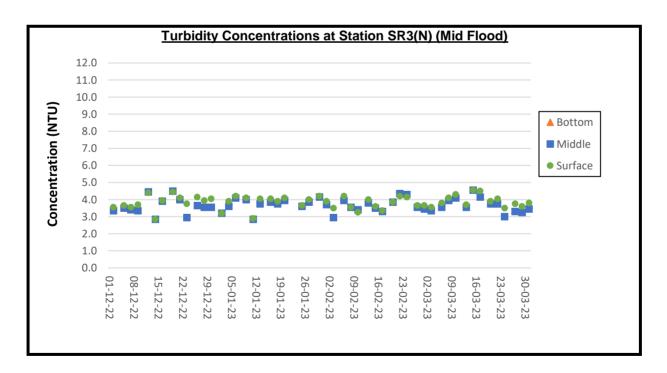
(1) As confirmed by the Contractor, the construction site of the Contract No. 2011/03 was closed and no construction works were conducted on 22, 23 and 24 January 2023. As such, no impact water quality monitoring was scheduled on 23 January 2023.



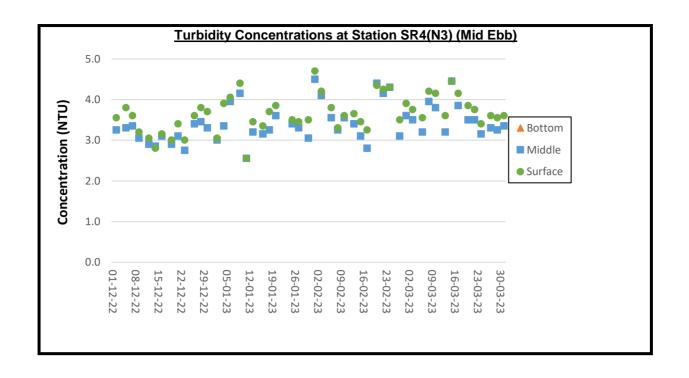
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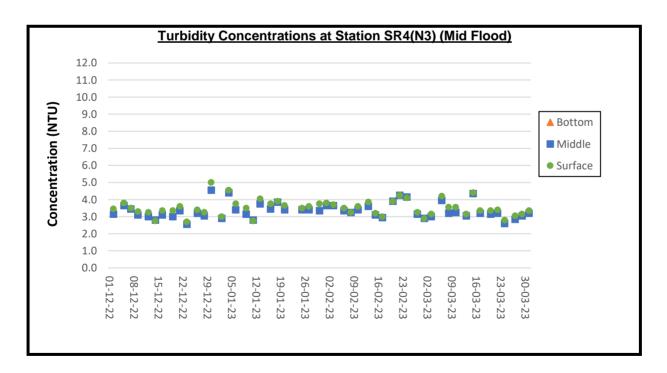
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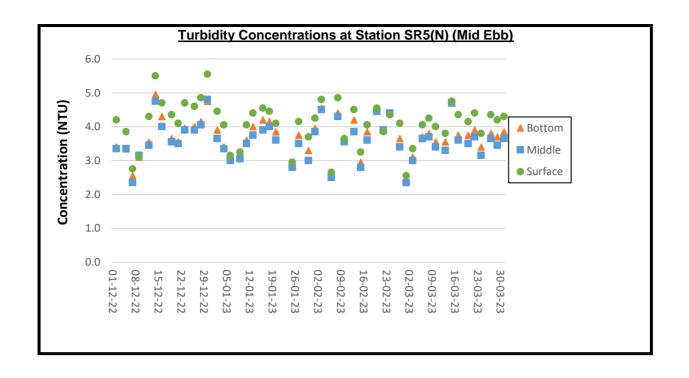
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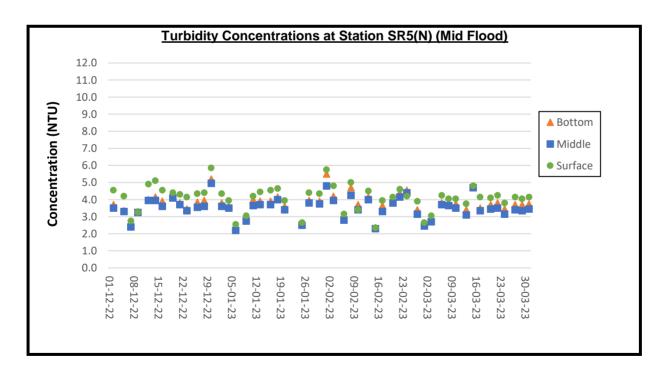
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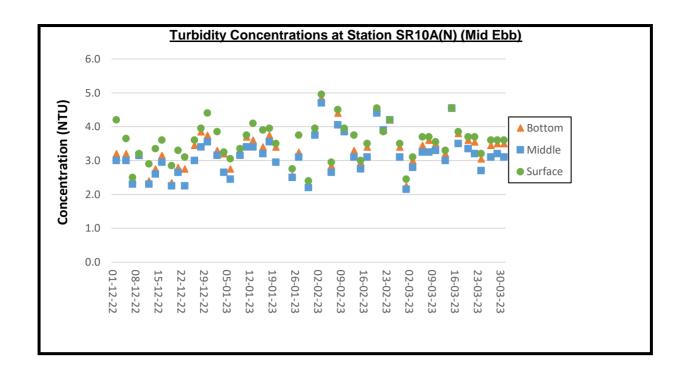
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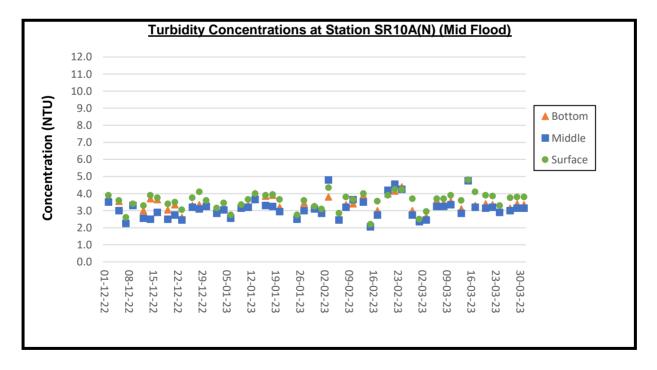
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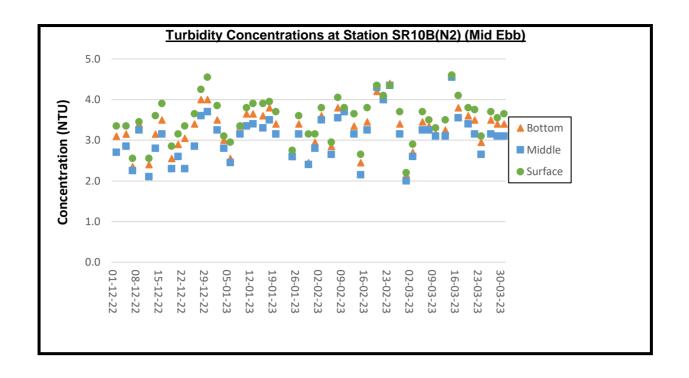
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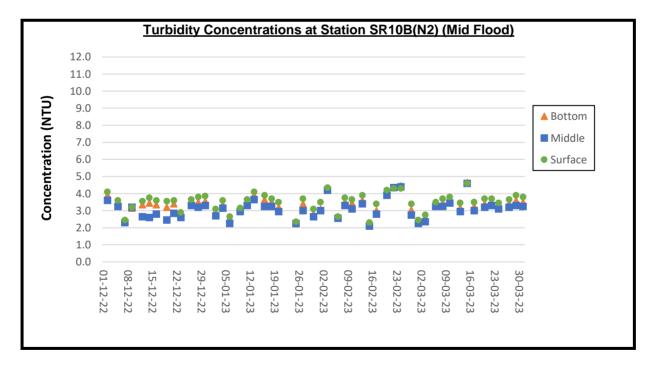
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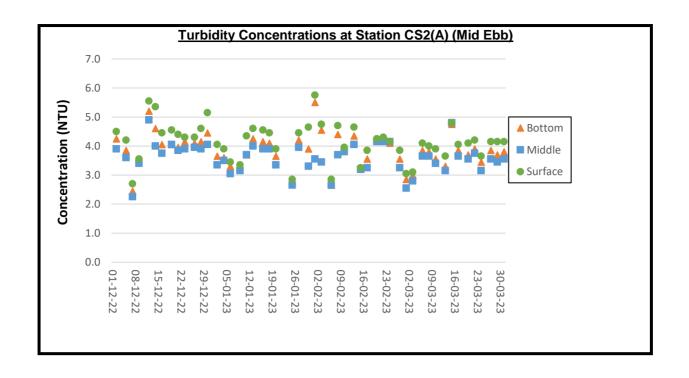
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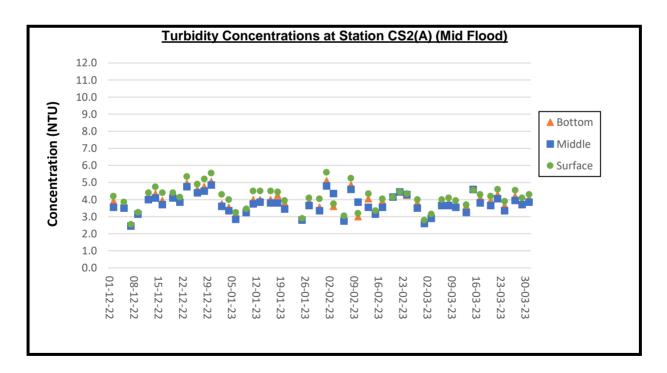
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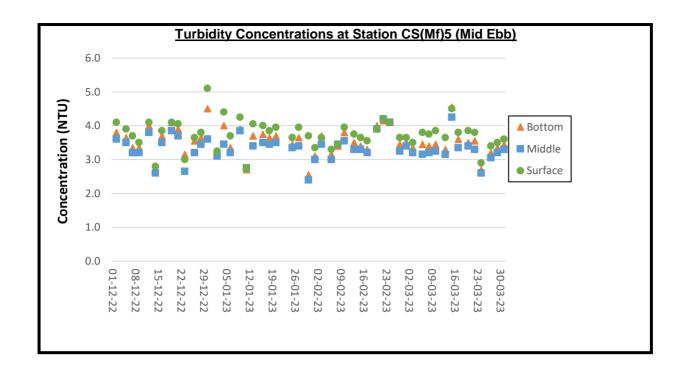
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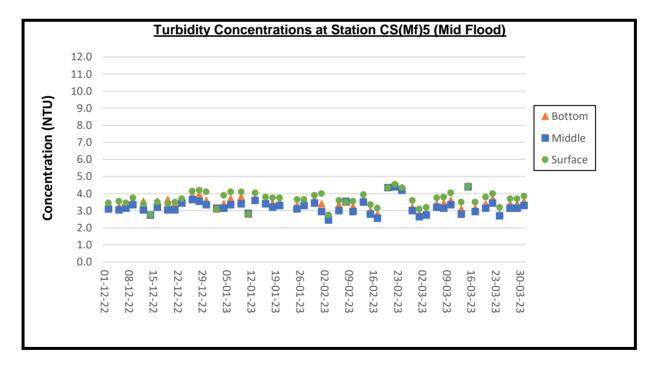
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Remarks:



(1) As confirmed by the Contractor, the construction site of the Contract No. 2011/03 was closed and no construction works were conducted on 22, 23 and 24 January 2023. As such, no impact water quality monitoring was scheduled on 23 January 2023.



Remarks:

APPENDIX F

Event and Action Plan

Event and Action Plan for Air Quality

Event		Actio	on	
	ET	IEC	so	Contractor
Exceedance of Action Level for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and SO; Repeat measurement to confirm finding; Increase monitoring frequency to daily.	Check monitoring data submitted by ET; Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	Identify source; Inform IEC and SO; Advise the SO on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and SO; If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor;	Submit proposals for remedial to SO within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Event	Action			
	ET	IEC	so	Contractor
Exceedance of Limit Level for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform SO, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results.	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the SO on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	1. Notify IEC, SO, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and SO to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring.	Discuss amongst SO, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Noise

Event	Action			
	ET	IEC	so	Contractor
Exceedance of Action Level	Identify source, investigate the causes of exceedance and propose remedial measures; Notify IEC and Contractor; Report the results of investigation to the IEC, SO and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Exceedance of Limit Level	 Identify source; Inform IEC, SO, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, SO and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; If exceedance stops, cease additional monitoring. 	Discuss amongst SO, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Water Quality

	d Action Plan for Water C	Action				
Event	ET Leader	IEC	SO	Contractor		
Action level being exceeded by one sampling day		Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of non-compliance in writing; Notify Contractor.	confirm notification of		
being exceeded by	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SO and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level. 	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly; Supervise the implementation of mitigation measures.	the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented;	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; Implement the agreed mitigation measures. 		
Limit level being exceeded by one sampling day		submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed	notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation	confirm notification of the non-compliance in writing; 2. Rectify unacceptable		

Event		Action		
Event	ET Leader	IEC	so	Contractor
Limit level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SO and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SO and Contractor; Ensure mitigation measures are implemented; 	submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation	ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are	exceedance; 2. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit

Event and Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor.	Discuss monitoring with the IEC and any other measures proposed by the ET; 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.	Inform the ER/SOR and confirm notification of the noncompliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; Implement the agreed measures.
Limit Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 	Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 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; Supervise / Audit the	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring	1. Inform the ER/SOR and confirm notification of the noncompliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Event	ET Leader	IEC	ER / SOR	Contractor
	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.	implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.	and/or any other mitigation measures.	

Event and Action Plan for Mudflat Monitoring

Event	ET Leader	IEC	so	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Discuss additional monitoring and any other measures, with the IEC and Contractor.	Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented.	Inform the SO and in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER; Implement the agreed measures.

Action Plan for Landscape Works

Event	ACTION			
	ET Leader	IEC	so	Contractor
Conflicts occur	Check Contractor's proposed remedial design conforms to the requirements of EP and prepare checking report(s)	 Check and endorse ET's report(s). Check and certify Contractor's proposed remedial design 	Supervise the Contractor to carry out the proposed remediation work	Propose remedial design and carry out the proposed work

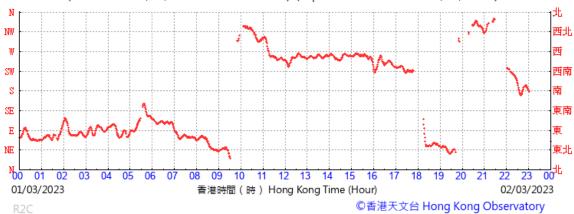


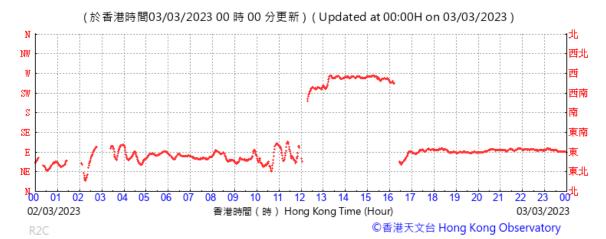
APPENDIX G

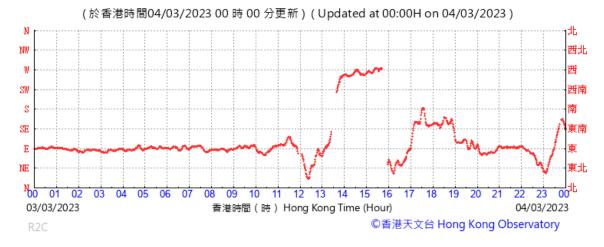
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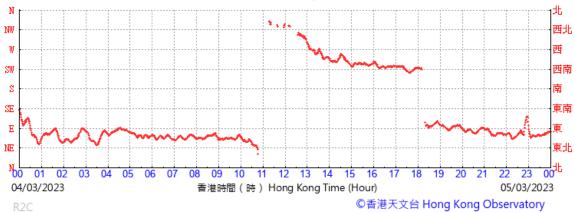
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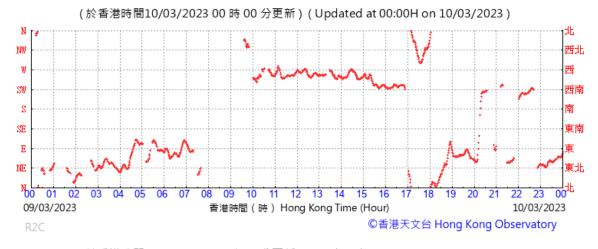




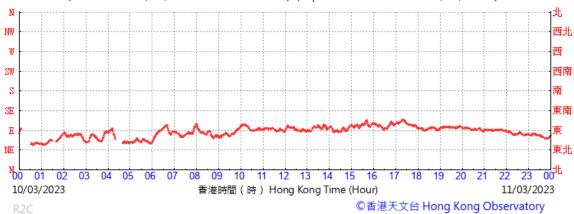
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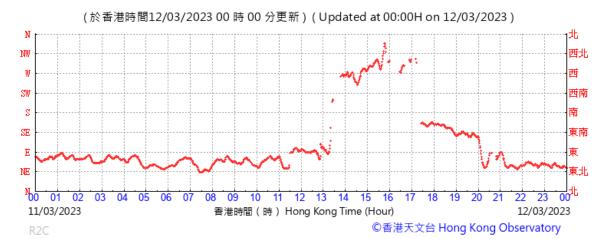


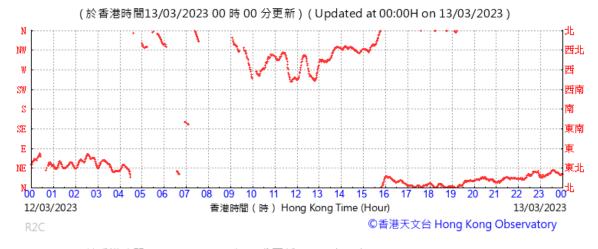
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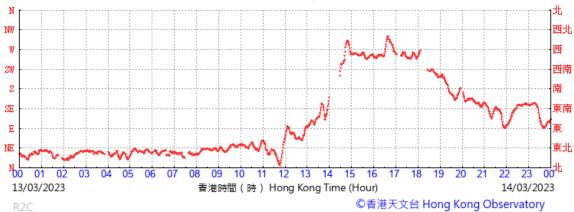
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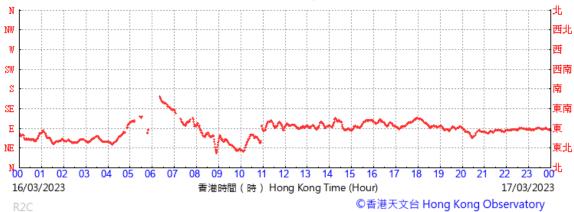
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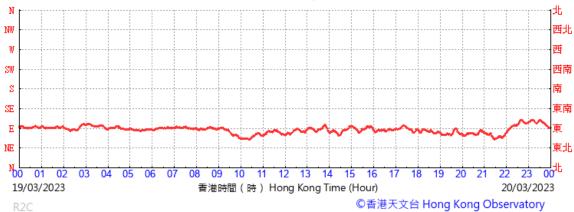
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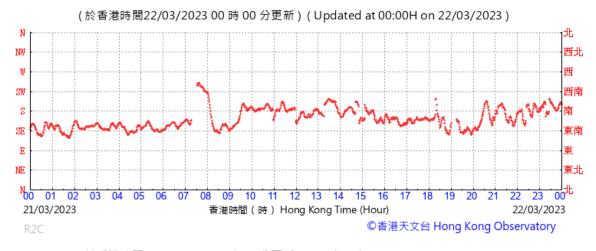




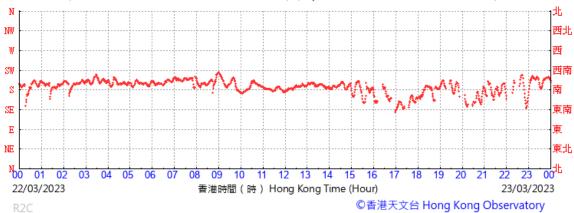
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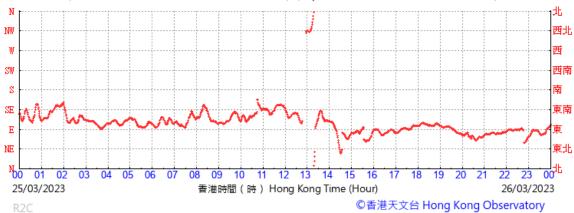
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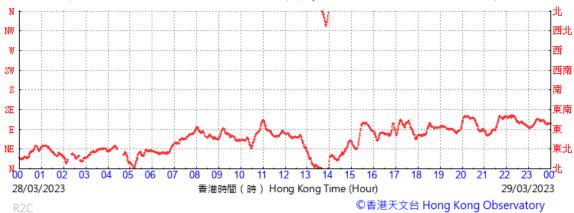
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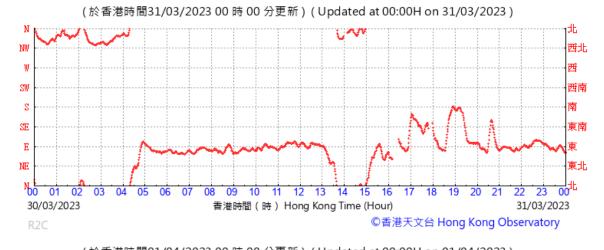




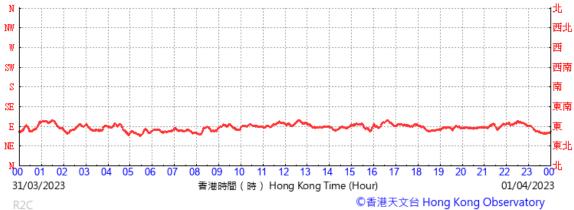
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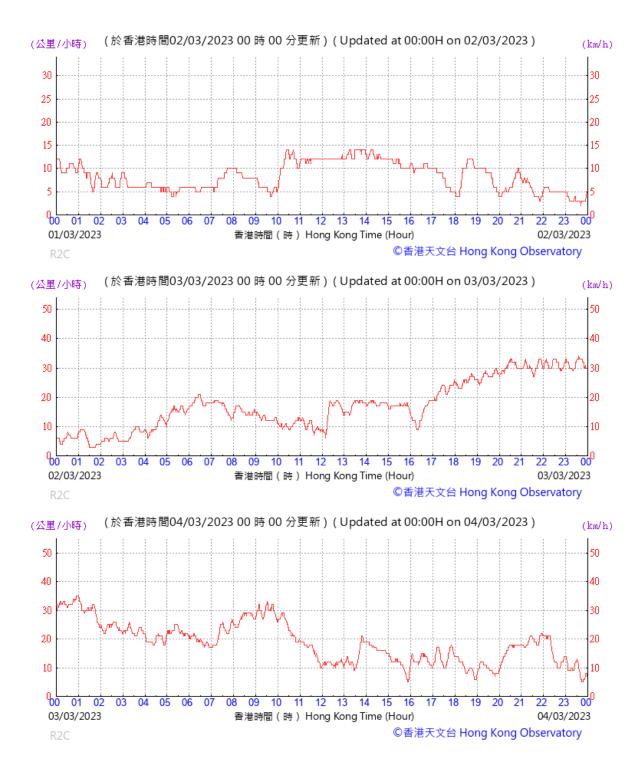
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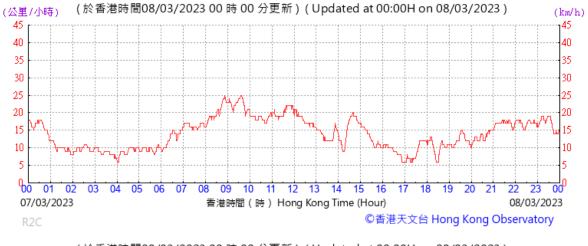








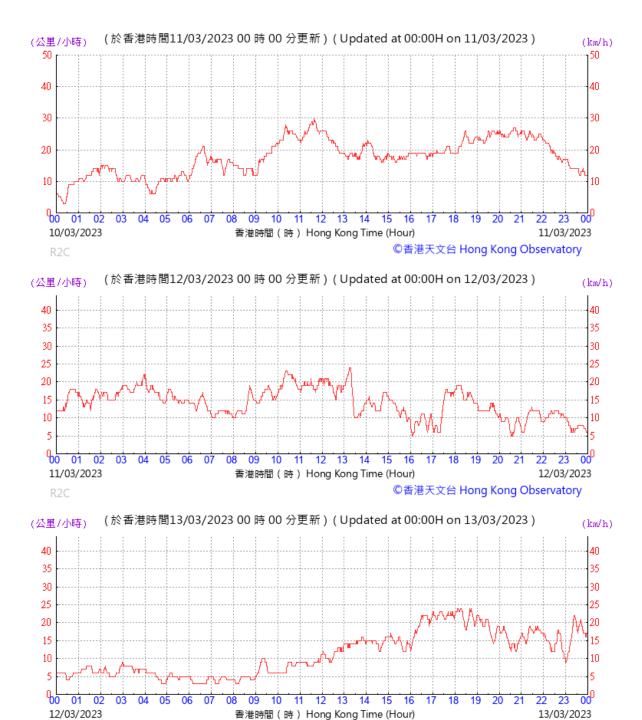








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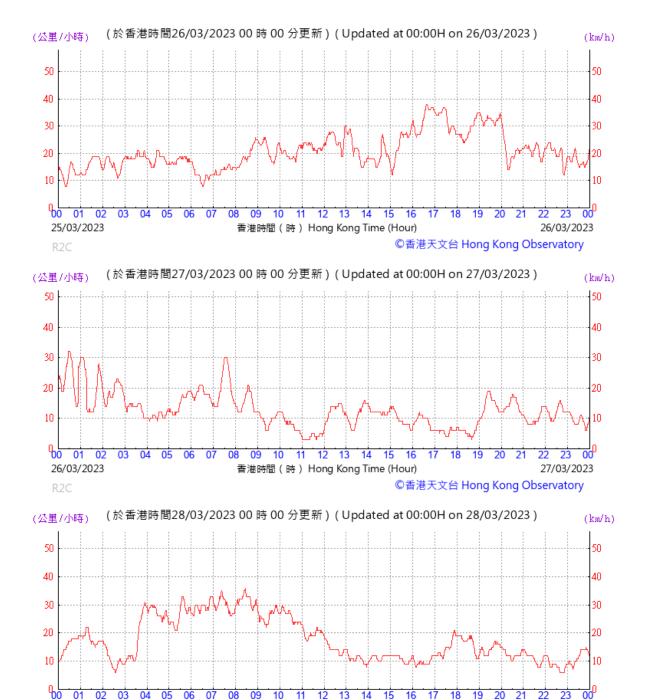






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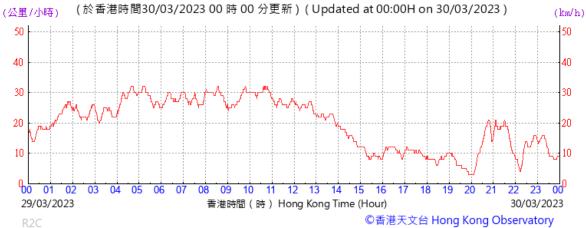


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APPENDIX H

Dolphin Monitoring Results

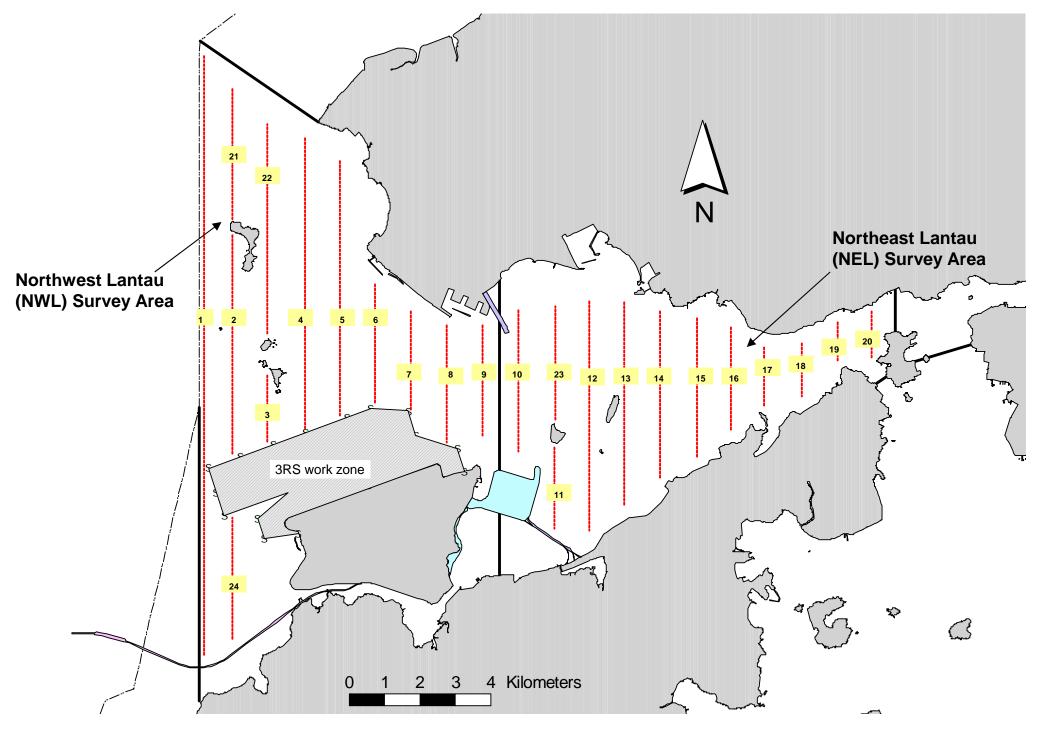


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

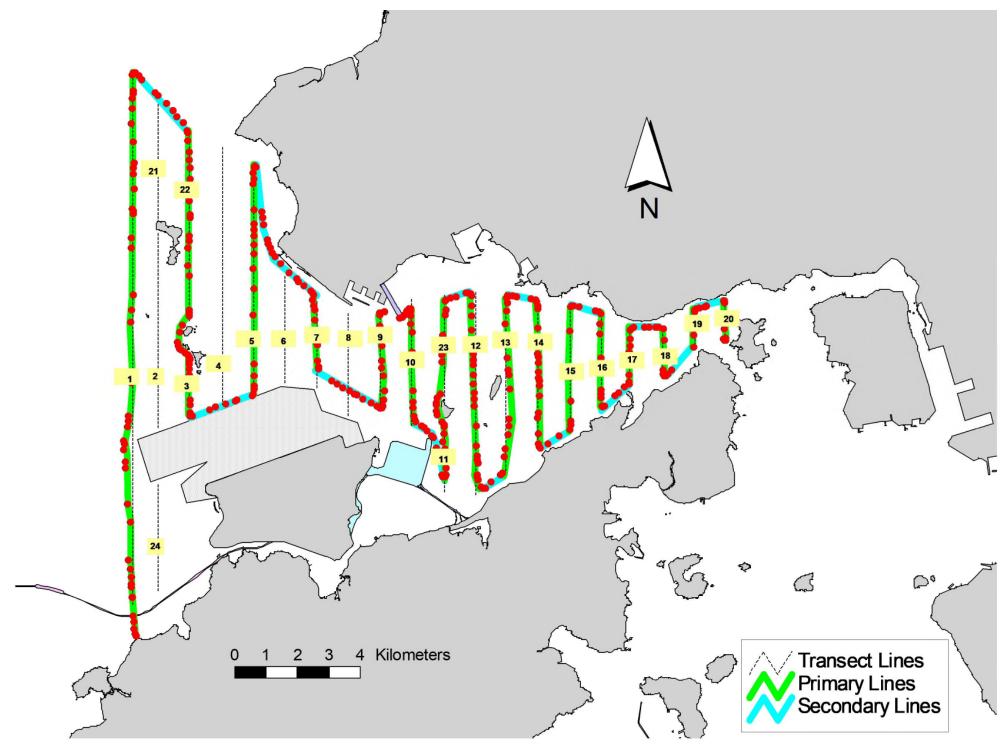


Figure 2. Survey Route on March 3rd, 2023

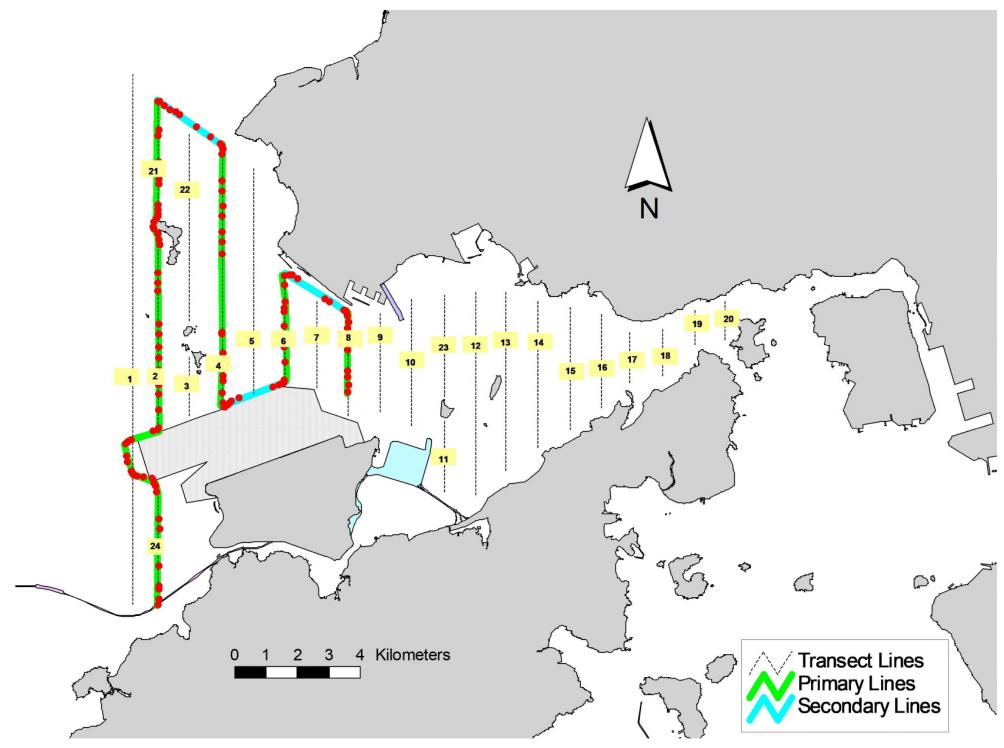


Figure 3. Survey Route on March 7th, 2023

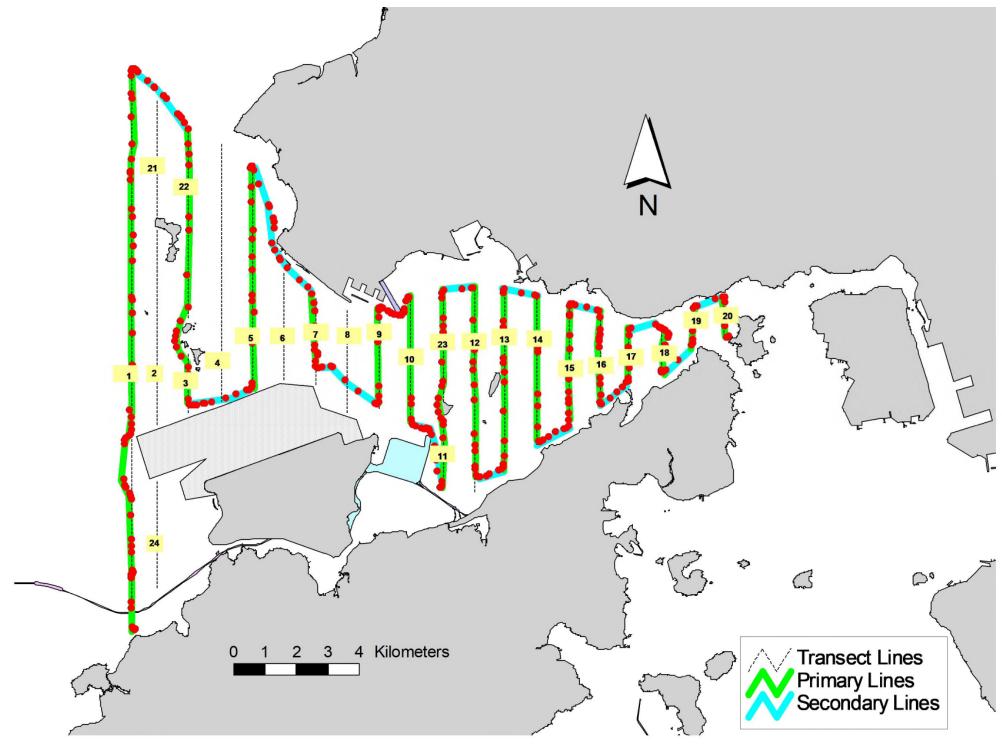


Figure 4. Survey Route on March 16th, 2023

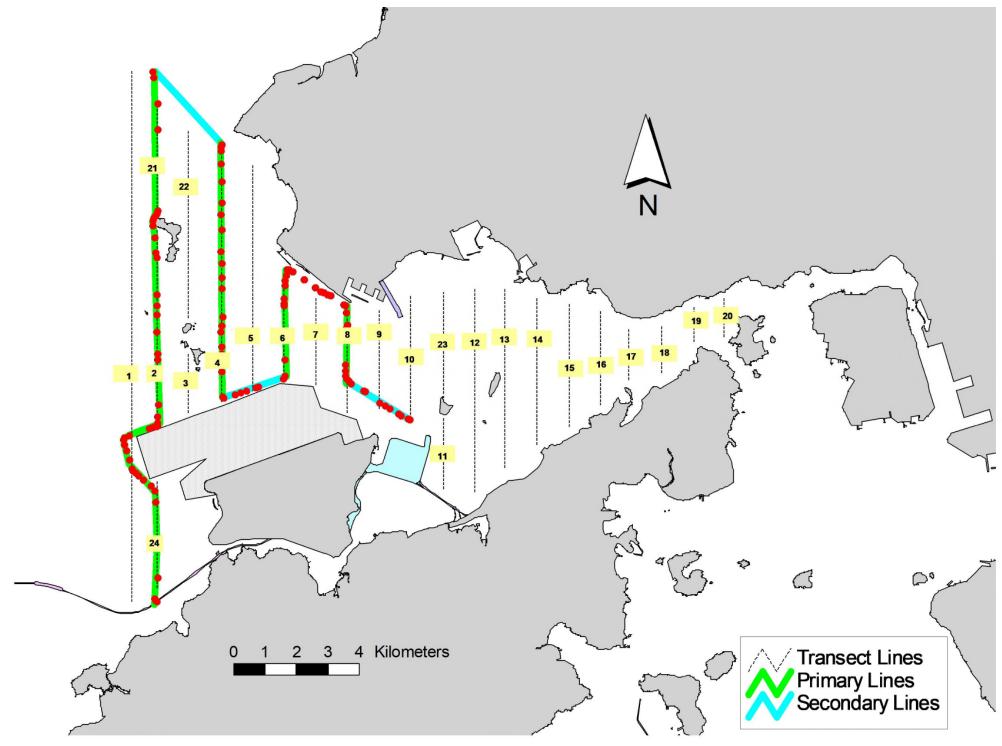


Figure 5. Survey Route on March 24th, 2023

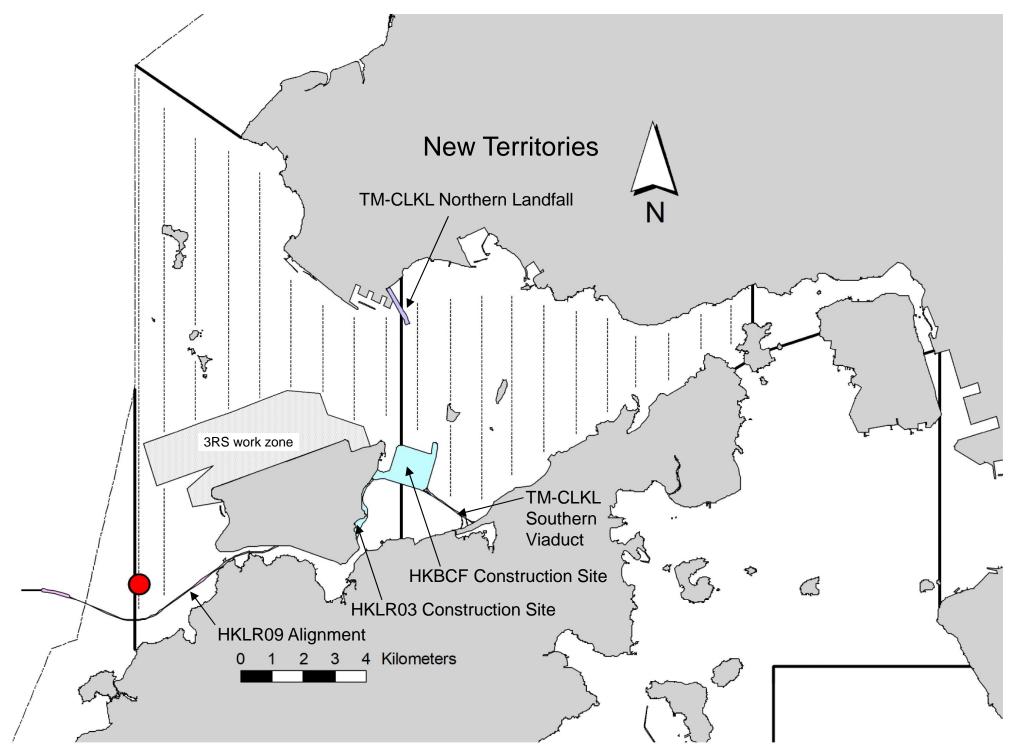


Figure 6. Distribution of Chinese White Dolphin Sightings during March 2023 HKLR03 Monitoring Surveys

Annex I. HKLR03 Survey Effort Database (March 2023)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
3-Mar-23	NW LANTAU	1	0.94	SPRING	STANDARD36826	HKLR	Р
3-Mar-23	NW LANTAU	2	16.40	SPRING	STANDARD36826	HKLR	Р
3-Mar-23	NW LANTAU	3	18.70	SPRING	STANDARD36826	HKLR	Р
3-Mar-23	NW LANTAU	2	10.20	SPRING	STANDARD36826	HKLR	S
3-Mar-23	NW LANTAU	3	2.90	SPRING	STANDARD36826	HKLR	S
3-Mar-23	NE LANTAU	2	35.62	SPRING	STANDARD36826	HKLR	Р
3-Mar-23	NE LANTAU	2	12.18	SPRING	STANDARD36826	HKLR	S
7-Mar-23	NW LANTAU	2	22.93	SPRING	STANDARD36826	HKLR	Р
7-Mar-23	NW LANTAU	3	3.70	SPRING	STANDARD36826	HKLR	Р
7-Mar-23	NW LANTAU	2	8.27	SPRING	STANDARD36826	HKLR	S
7-Mar-23	NW LANTAU	3	2.00	SPRING	STANDARD36826	HKLR	S
16-Mar-23	NW LANTAU	2	14.28	SPRING	STANDARD36826	HKLR	Р
16-Mar-23	NW LANTAU	3	18.00	SPRING	STANDARD36826	HKLR	Р
16-Mar-23	NW LANTAU	2	5.45	SPRING	STANDARD36826	HKLR	S
16-Mar-23	NW LANTAU	3	11.20	SPRING	STANDARD36826	HKLR	S
16-Mar-23	NE LANTAU	2	13.96	SPRING	STANDARD36826	HKLR	Р
16-Mar-23	NE LANTAU	3	22.86	SPRING	STANDARD36826	HKLR	Р
16-Mar-23	NE LANTAU	2	7.23	SPRING	STANDARD36826	HKLR	S
16-Mar-23	NE LANTAU	3	5.05	SPRING	STANDARD36826	HKLR	S
24-Mar-23	NW LANTAU	2	18.51	SPRING	STANDARD36826	HKLR	Р
24-Mar-23	NW LANTAU	3	7.45	SPRING	STANDARD36826	HKLR	Р
24-Mar-23	NW LANTAU	2	5.84	SPRING	STANDARD36826	HKLR	S
24-Mar-23	NW LANTAU	3	2.10	SPRING	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (March 2023)

(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 Lines)

DATE	STG#	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
16-Mar-23	3 1	1012	1	NW LANTAU	2	103	ON	HKLR	816234	804653	SPRING	NONE	Р

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in March 2023

ID#	DATE	STG#	AREA
WL79	16/03/23	1	NW LANTAU



Annex IV. Photograph of Identified Individual Dolphin in March 2023 (HKLR03)



APPENDIX I

Mudflat Monitoring Results

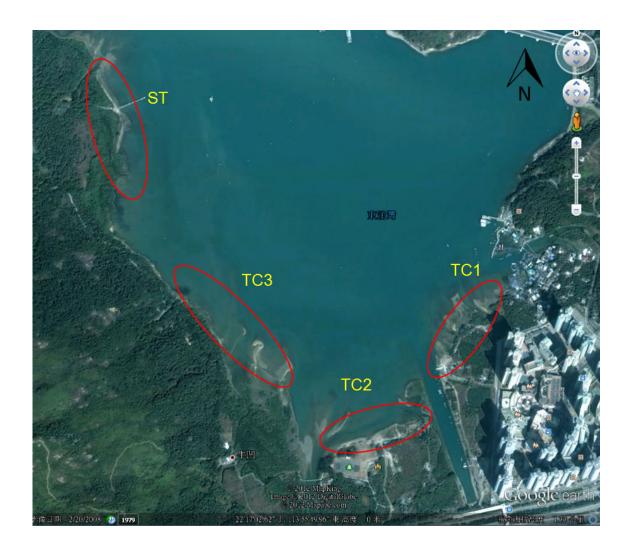


Figure 2.1. Locations of sampling zones. The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).

TC1 TC2

TC3 ST

TC3

Figure 2.2 Photographic record of the environment in every sampling zone. (March 2023)



Figure 2.3 Examples of photographic record of the big trashes found on the mudflat.

ST Carcinoscorpius rotundicauda



ST Tachypleus tridentatus



Figure 3.1 Examples of photographic records of horseshoe crab (Mar 2023)

Table 3.1. Summary of juvenile horseshoe crab survey in every sampling zone in Mar 2023

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
Carcinoscorpius				
rotundicauda				
No. of individuals	0	0	4	1
Mean prosomal width (mm)	\	\	51.46	56.66
Maxprosomal width (mm)	\	\	59.21	56.66
Min. prosomal width (mm)	\	\	44.18	56.66
Search record (ind. hr-1 person-	0	0	0.67	0.17
1)				
Tachypleus tridentatus				
No. of individuals	0	0	2	5
Mean prosomal width (mm)	\	\	60.73	63.47
Maxprosomal width (mm)	\	\	61.23	79.15
Min. prosomal width (mm)	\	\	60.22	51.28
Search record (ind. hr-1 person-	0	0	0.33	0.83
1)				

March 2015 - ST



Figure 3.2 Photographic records of mating pairs of horseshoe crab



(Female) (Male)

Figure 3.2(Cont'd) Photographic records of mating pair of horseshoe crab



Figure 3.2 (Cont'd). Photographic records of mating pair of horseshoe crab

TC1



TC2



Figure 3.3 Photographic records of newly hatched individuals of horseshoe crab (September 2018)

Carcinoscorpius rotundicauda June 2017



Figure 3.4 Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis

Tachypleus tridentatus September 2017



June 2019



March 2020



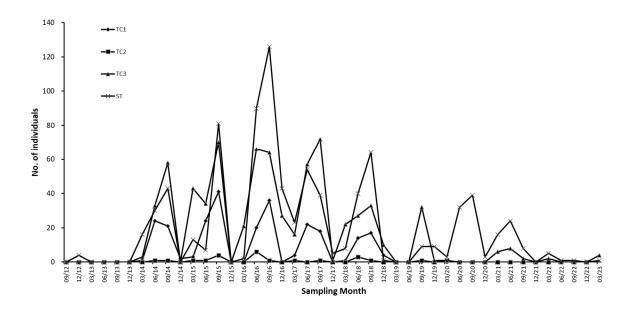
June 2022



September 2022



Figure 3.4 (Cont'd) Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis (Mark updated)



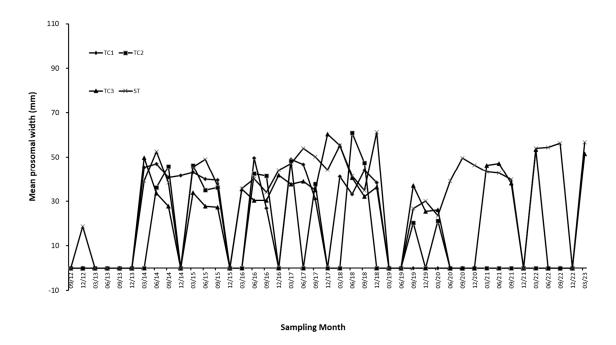


Figure 3.5 Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months

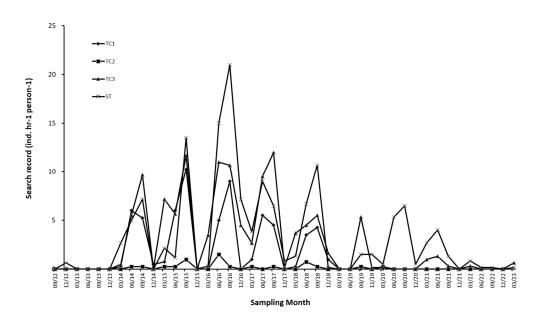
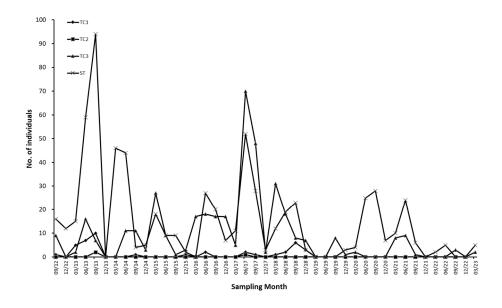


Figure 3.5 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months



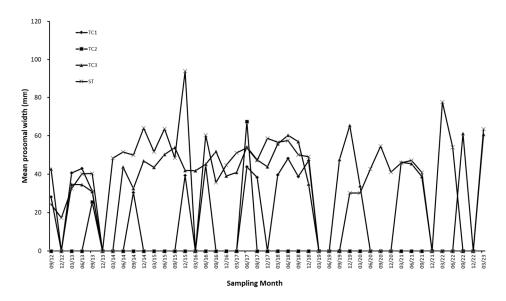


Figure 3.6 Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months

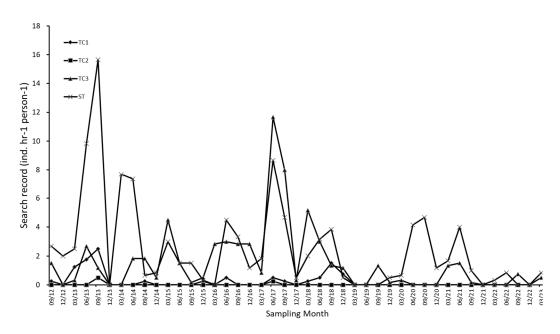


Figure 3.6 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months

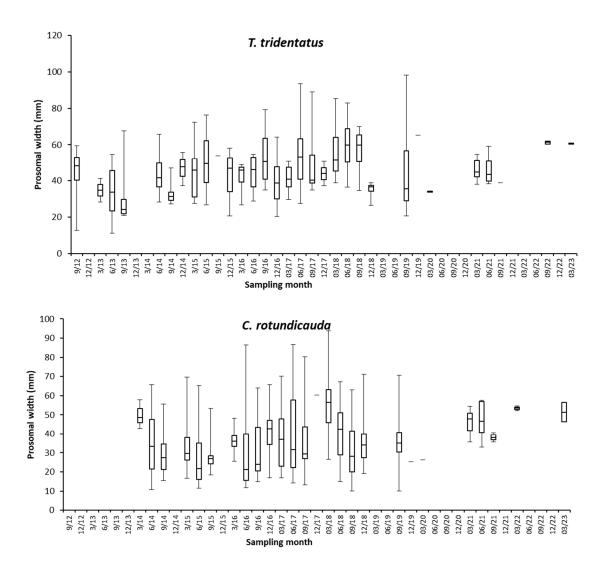


Figure 3.7 Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively)

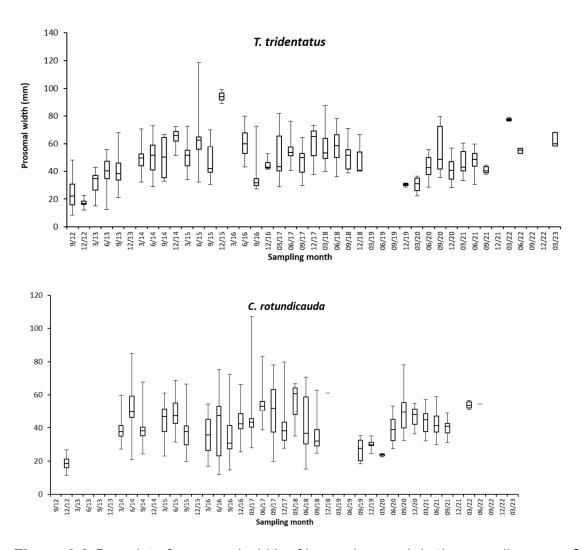


Figure 3.8 Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively.)

Photos below: Brown filemental algae bloom at ST, March 2022





Photos below: Brown filemental algae at seagrass bed at ST disappeared, June 2022, Halophila ovalis covered large area of mudflat





Halophila ovalis in TC3



Halophila ovalis and Zostera japonica in ST



Figure 3.9 (Cont'd) Photographic record of seagrass beds in present survey.



Single (left) and extended (right) patch of Halophila ovalis

TC3 - ST



Medium, horizontal patch of Zostera japonica

Figure 3.10 Examples of photographic records of seagrass beds (record in June 2017)

 Table 3.2. Summary of seagrass beds survey

Sampling zone	TC3	ST	ST	
	Halophila ovalis	Halophila ovalis	Zostera japonica	
Number of patches	3	6	1	
Total area (m²)	3900	14070	20	
Average area (m ²)	1300.00	2345.00	20.00	



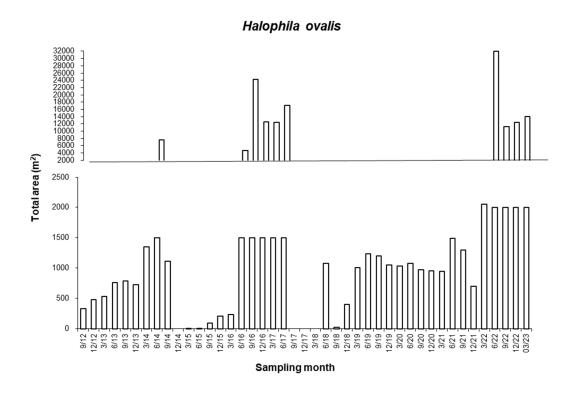


Figure 3.11 Temporal changes of estimated total area of seagrass beds in ST

June 2014

September 2015



September 2017-March 2018 (no seagrass)



December 2014 (no seagrass)



June 2017



September 2018



Figure 3.12 Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds. The picture of December 2018 was lacking due to night-dawn survey time.

March 2019

June 2019



1x/ox 2018

September 2019

December 2019



March 2020



June 2020



September 2020

December 2020



March 2021

June 2021



September 2021



December 2021



March 2022 June 2022





September 2022

December 2022



March 2023



Figure 3.12 (Cont'd) Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds. The picture of December 2018 was lacking due to night-dawn survey time.

Table 3.3. Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.

Tidal level	Gravels and Boulders	<u> </u>	
	Craveis and Doulders	Sands	Soft mud
			_
Н	95	5	0
M	70	10	20
L	5	5	90
Н	90	5	5
М	80	10	10
L	10	15	75
Н	60	20	20
M	50	20	30
L	20	15	65
ш	70	15	15
			30
L	5	10	85
	L H M L H M L	M 70 L 5 H 90 M 80 L 10 H 60 M 50 L 20 H 70 M 50	M 70 10 L 5 5 H 90 5 M 80 10 L 10 15 H 60 20 M 50 20 L 20 15 H 70 15 M 50 20 M 50 20

H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.

TC1 H TC1 L

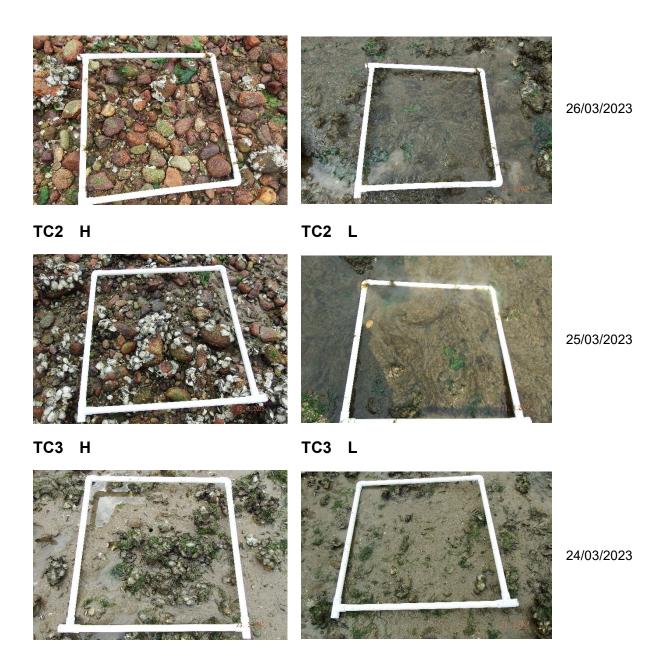


Figure 3.13 Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)

ST H ST L

23/03/2023

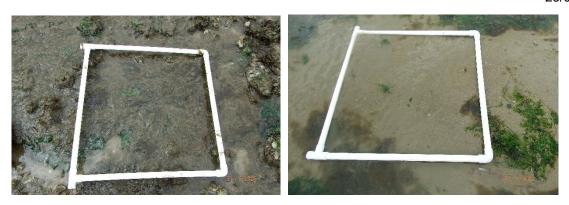


Figure 3.13.(Cont'd) Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)

Table 3.4 Total abundance, density and number of taxon of every phylum

Phylum	Total Abundance	%	Density (ind. m ⁻²)	Number of Taxon
<u>Mar 2023</u>				
Mollusca	7607	89.8	254	32
Arthropoda	582	6.9	19	6
Annelida	126	1.5	4	3
Sipuncula	84	1.0	3	2
Nemertea	42	0.5	1	1
Cnidaria	27	0.3	1	1
Platyhelminthes	1	0.0	0	1
Total	8469			

^{0.0 %:} Total abundance of the phylum is less than 0.1% of relative abundance.

⁰ ind. m^{-2} : Density of the phylum is less than 1 ind. m^{-2} .

Table 3.5 The number of individuals, relative abundance (percentage) and density of each phylum in every sampling zone

		D	ensity		D	ensity		D	ensity		D	ensity
Phylum	TC1	% (ind. m ⁻	TC2	% (i	nd. m ⁻	TC3	% (i	nd. m ⁻	ST	% (i	ind. m ⁻
			²)			²)			²)			²)
Mollusca	1588	91.9	212	1796	83.9	239	2141	91.8	285	2082	91.8	278
Arthropoda	89	5.2	12	306	14.3	41	93	4.0	12	94	4.1	13
Annelida	26	1.5	3	0	0.0	0	51	2.2	7	49	2.2	7
Sipuncula	13	8.0	2	15	0.7	2	29	1.2	4	27	1.2	4
Nemertea	0	0.0	0	12	0.6	2	18	8.0	2	12	0.5	2
Cnidaria	12	0.7	2	12	0.6	2	0	0.0	0	3	0.1	0
Platyhelminthes	0	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0
Sub-total	1728			2141			2333			2267		

^{0.0 %:} Total abundance of the phylum is less than 0.1% of relative abundance of the sampling zone.

⁰ ind. m⁻²: Density of the phylum is less than 1 ind. m⁻² of the sampling zone.

Table 3.6 The abundant species (relative abundance >10%) in every sampling zone

Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
Bi	Saccostrea cucullata	108	41	41
G	Monodonta labio	70	27	68
Bi	Saccostrea cucullata	73	38	38
G	Monodonta labio	37	20	58
G	Batillaria multiformis	53	22	22
Bi	Barbatia virescens	42	17	39
G	Nodilittorina radiata	34	14	53
	Bi G Bi G G Bi	Bi Saccostrea cucullata G Monodonta labio Bi Saccostrea cucullata G Monodonta labio G Batillaria multiformis Bi Barbatia virescens	Bi Saccostrea cucullata 108 G Monodonta labio 70 Bi Saccostrea cucullata 73 G Monodonta labio 37 G Batillaria multiformis 53 Bi Barbatia virescens 42	Bi Saccostrea cucullata 108 41 G Monodonta labio 70 27 Bi Saccostrea cucullata 73 38 G Monodonta labio 37 20 G Batillaria multiformis 53 22 Bi Barbatia virescens 42 17

Table 3.6(Cont'd) The abundant species (relative abundance >10%) in every sampling zone

Sampling zone TC2	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	132	40	40
	G	Monodonta labio	55	17	57
Mid	Bi	Saccostrea cucullata	92	29	29
	G	Monodonta labio	51	16	45
	G	Batillaria zonalis	44	14	59
Low	Bi	Barbatia virescens	42	20	20
	G	Lunella granulata	21	10	30
	G	Batillaria multiformis	21	10	40
	G	Batillaria zonalis	22	10	50

Table 3.6(Cont'd) The abundant species (relative abundance >10%) in every sampling zone

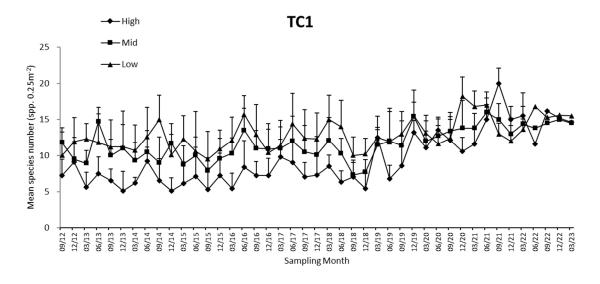
Sampling zone TC3	ng zone TC3 Group Species		Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	122	42	42
	G	Monodonta labio	62	21	63
Mid	Bi	Saccostrea cucullata	116	31	31
	G	Monodonta labio	56	15	46
Low	G	Lunella granulata	44	17	17
	G	Batillaria multiformis	38	14	31
	G	Batillaria zonalis	36	14	45
	Bi	Barbatia virescens	34	13	58

Table 3.6(Cont'd) The abundant species (relative abundance >10%) in every sampling zone

Sampling zone ST	ng zone ST Group Species		Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	120	40	40
	G	Monodonta labio	54	18	58
	G	Batillaria multiformis	38	13	71
Mid	Bi	Saccostrea cucullata	111	33	33
	G	Monodonta labio	62	18	51
Low	G	Batillaria zonalis	50	18	18
	G	Lunella granulata	48	18	36

Table 3.7 Mean values of species number, density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every tidal level and in every sampling zone

Samling	Tidal	Mean species numb	er Mean species numbe	r Mean density	Mean density	Mean H	Mean H' across	Mean J	Mean J across
zone	Tidal	(spp. 0.25m-2)	across tidal levels	(ind. m-2)	across tidal levels	wean H	tidal levels		tidal levels
TC1	Н	15	15	262	230	1.9	2.10	0.7	0.77
	М	15		191		2.1		0.8	
	L	16		238		2.3		8.0	
TC2	Н	18	16	329	285	2.1	2.23	0.7	0.80
-	M	16		314		2.2		0.8	
	L	15		213		2.4		0.9	
TC3	Н	13	16	290	311	1.9	2.23	0.7	0.80
	M	21		379		2.4		0.8	
	L	15		264		2.4		0.9	
ST	Н	14	15	299	302	1.9	2.10	0.7	0.80
	M	16		336		2.1		0.8	
	L	14		272		2.3		0.9	



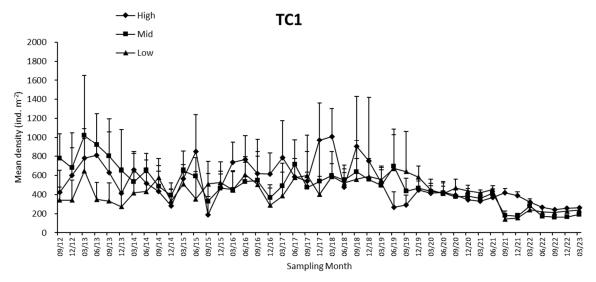
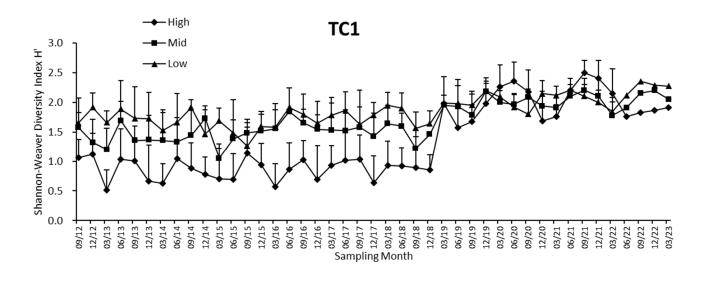


Figure 3.14 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1



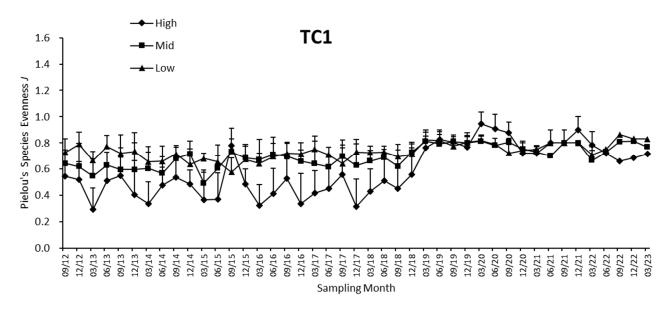
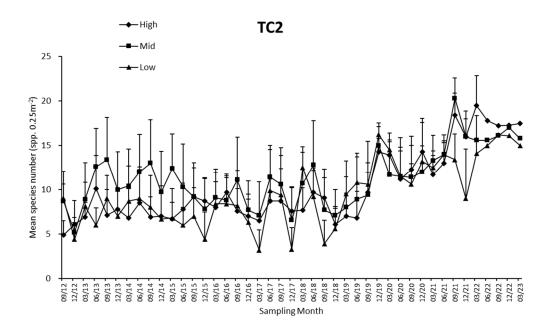


Figure 3.14(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1



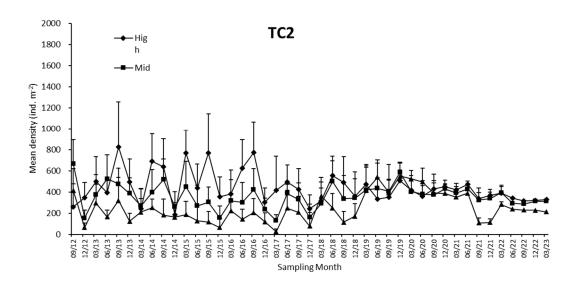
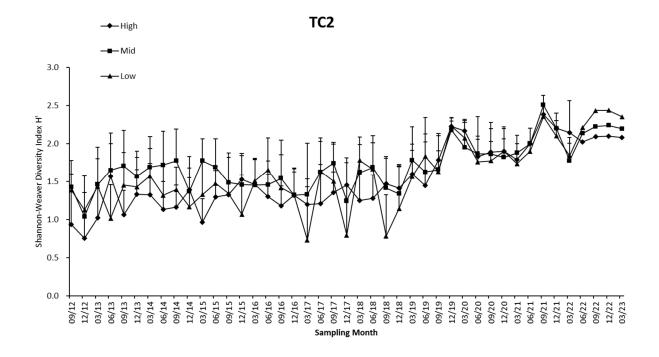


Figure 3.15 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2



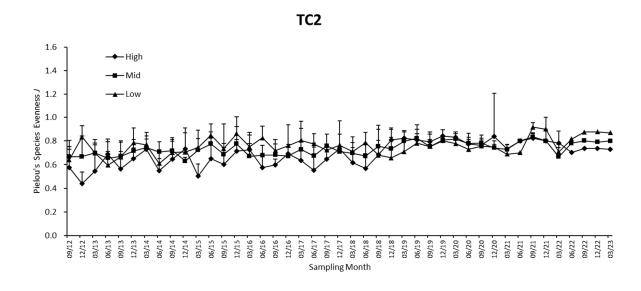
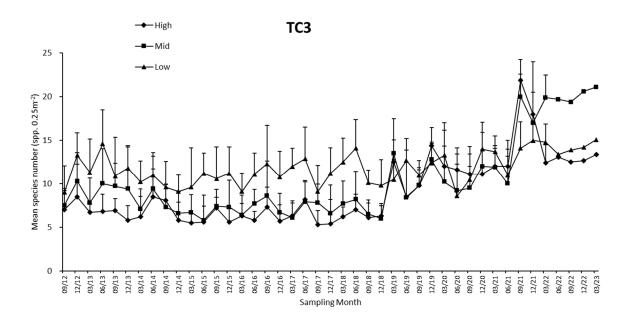


Figure3.15(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2



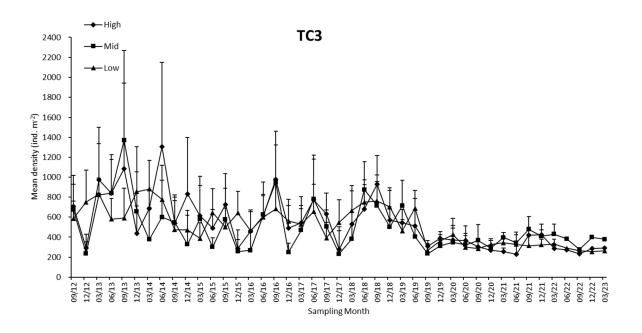
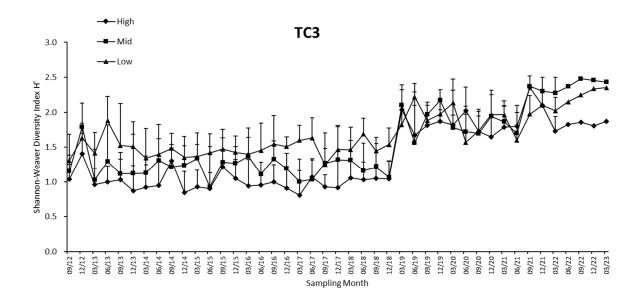


Figure 3.16 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3



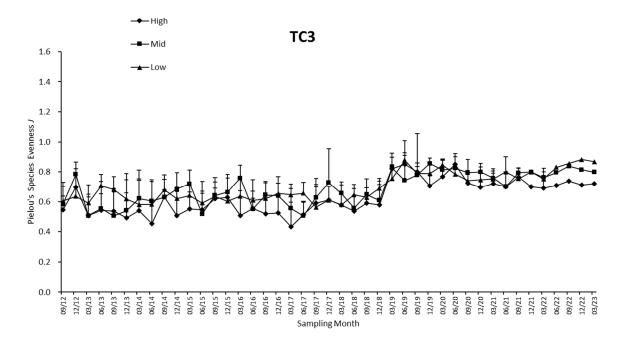
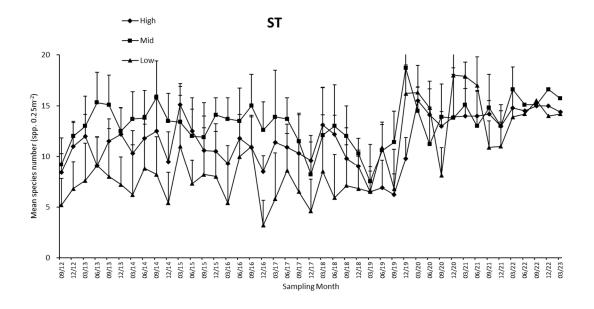


Figure 3.16(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3



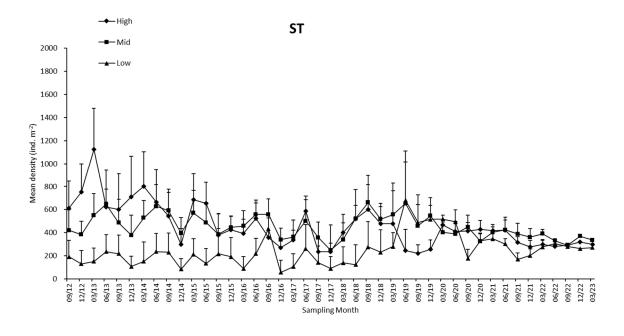
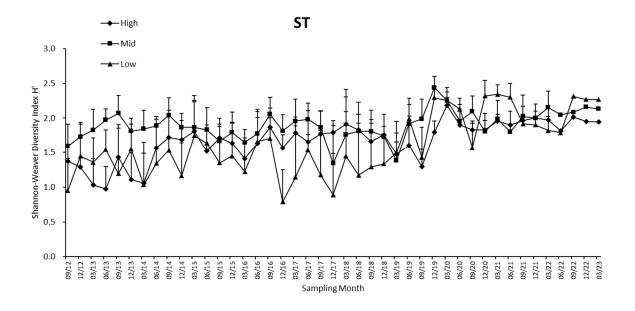


Figure 3.17 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST



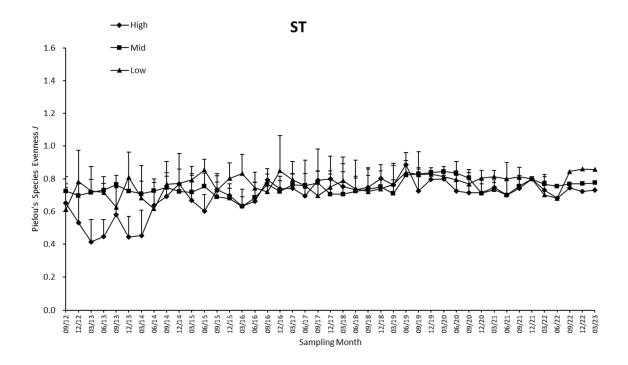
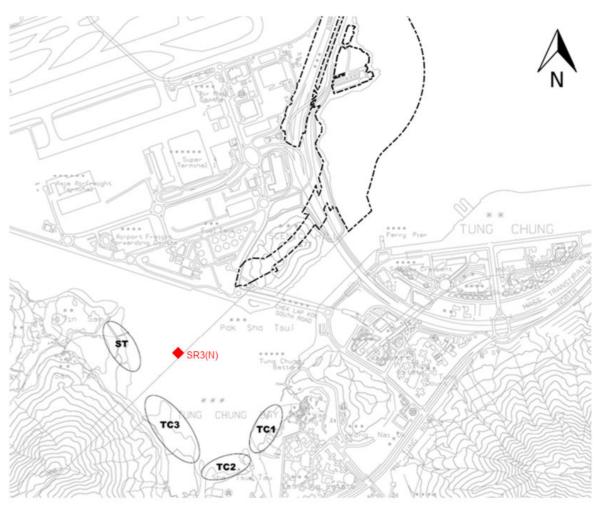


Figure 3.17(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST

Annex I. Location of sampling zones (map from ATKINS China Ltd.)



Annex II Record of horseshoe crab survey in every sampling zone.

No.	Sub.	GPS coord	inate	Record of prosomal width (mm)		
Samplin	ng site TC1	(Search hou	ır = 2 hrs)	Carcinoscorpius rotundicauda	Tachypleus tridentatus	
	No record					
	No. of ind.			0	0	
<u>Samplir</u>	Sampling site TC2 (Search hour = 2 hrs)		<u>ır = 2 hrs)</u>	Carcinoscorpius rotundicauda	Tachypleus tridentatus	
		No record				
		No. of ind.		0	0	
Samplir	ng site TC3	(Search hou	ır = 3 hrs)	Carcinoscorpius rotundicauda	Tachypleus tridentatus	
1	1 M	22°17'05"	113°55'34"	55.48		
2	2 M	22°17'05"	113°55'34"	59.21		
3	3 M	22°17'05"	113°55'34"	46.98		
4	1 M	22°17'05"	113°55'34"	44.18		
5	5 M	22°17'09"	113°55'38"		60.22	
6	6 M	22°17'09"	113°55'38"		61.23	
		No. of ind.		4	2	

Sampling	Sampling site ST (Search hour = 3 hrs)		Carcinoscorpius rotundicauda	Tachypleus tridentatus		
1	М	22°17'16"	113°55'30"	56.66		
2	М	22°17'16"	113°55'31"		68.32	
3	М	22°17'16"	113°55'30"		51.28	
4	М	22°17'16"	113°55'30"		79.15	
5	М	22°17'16"	113°55'29"		60.11	
6	М	22°17'16"	113°55'29"		58.49	
		No. of ind.		1	5	

Ind. #: number of Individuals (individuals in a group are shown at the same row)

<u>Underlined</u>: size of mating pair or large individual (excluded from data analysis)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Annex III Record of seagrass beds survey in every sampling zone

Estimated	Estimated									
area (m²)	coverage (%)		GPS coordinate		Remark					
TC1& TC2	TC1& TC2 (search hour = 2 hrs)									
No record										
TC3 Haloph	nila ovalis (sear o	ch hour = 3 hr	rs)							
1800	40-70	horizontal	22°17'007"N	113°55'033"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					
1000	40-70	line	22°17'007"N	113°55'033"E	area at tidal level 1.5 m above C.D.					
1500	30-60	horizontal	22°17'001"N	113°55'038"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					
1500	30-00	line	22°17'001"N	113°55'038"E	area at tidal level 1.5m above C.D.					
600	20-50	horizontal	22°17'007"N	113°55'034"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					
		line	22°17'007"N	113°55'034"E	area at tidal level 1.5m above C.D.					
ST Zostera	Japonica (seard	ch hour = 3 hi	rs)							
E	10-60	horizontal	22°17'012"N	113°55'029"E	A horizontal strand of seagrass bed nearby the seaward side of					
5	10-00	line	22°17'012"N	113°55'029"E	mangrove area at tidal level 2.0 m above C.D.					
ST Halophil	a ovalis (search	hour = 3 hrs)							
7200	40 50	horizontal	22°17'018"N	113°55'030"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					
7200	40-50	line	22°17'018"N	113°55'030"E	area at tidal level 1.5 m above C.D.					
4500	20.40	horizontal	22°17'017"N	113°55'031"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					
4500	30-40	line	22°17'017"N	113°55'031"E	area at tidal level 1.5 m above C.D.					
1500	20-30	horizontal	22°17'015"N	113°55'030"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove					

		line	22°17'015"N	113°55'030"E	area at tidal level 1.5 m above C.D.
E00	20.20	horizontal	22°17'013"N	113°55'029"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove
500	20-30	line	22°17'013"N	113°55'029"E	area at tidal level 1.5 m above C.D.
000	4E 20	horizontal	22°17'012"N	113°55'032"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove
220	15-20	line	22°17'012"N	113°55'032"E	area at tidal level 1.5 m above C.D.
150	40.00	horizontal	22°17'010"N	113°55'032"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove
150	10-20	line	22°17'010"N	113°55'032"E	area at tidal level 1.5 m above C.D.

Annex IV. Taxonomic resolution of every recorded species of intertidal soft shore community survey

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Polycheata	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polycheata	Sabellida	Sabellidae	Sabellidae imbricatus
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Gaetice depressus
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Metopograpsus latifrons
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Metopograpsus quadridentatus
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	Pagurus dubius
Animalia	Arthropoda	Malacostraca	Decapoda	Varuniae	Hemigrapsus penicillatus
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	Balanus amphitrite
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	Diadumene lineata
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	Barbatia virescens
Animalia	Mollusca	Bivalvia	Mytioida	Mytilidae	Brachidontes variabilis
Animalia	Mollusca	Bivalvia	Mytioida	Mytilidae	Xenostrobus atratus
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	Saccostrea cucullata
Animalia	Mollusca	Bivalvia	Venerida	Veneridae	Ruditapes philippinarum
Animalia	Mollusca	Bivalvia	Venerida	Glauconomidae	Glauconome chinensis
Animalia	Mollusca	Bivalvia	Venerida	Veneridae	Anomalocardia squamosa
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Trochidae	Monodonta labio
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	Lunella coronata
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	Lunella granulata
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	Batillaria multiformis
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	Batillaria zonalis
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	Pirenella asiatica
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	Pirenella incisa
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Clithon faba
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Clithon retropictus
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita chamaeleon
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita lineata
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita polita
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita squamulata
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	Littoraria articulata
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	Thais clavigera
Animalia	Mollusca	Gastropoda	Neotaenioglossa	Littorinidae	Nodilittorina radiata
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Lottia dorsuosa
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Lottia luchuana
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Nipponacmea concinna

Annex IV. Taxonomic resolution of every recorded species of intertidal soft shore community survey

Animalia	Mollusca	Gastropoda	Trochida	Tegulidae	Chlorostoma argyrostomum
Animalia	Mollusca	Gastropoda		Lottiidae	Patelloida pygmaea
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	Lepidozona spp.
Animalia	Nemertea				Nemertea spp.
Animalia	Platyhelminthes				Platyhelminthes sp.
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	Siphonosoma sp.
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	Sipunculus nudus

AnnexV. List of recorded fauna of intertidal soft shore community survey in every sampling zone

time

Mar 2023 Sampling Zone TC1

High tidal level (2.0 m above C.D.)

Ba Balanus amphitrite 0 0 0 0 0 0 0 0 0			1		2		3		4		5		6		7		8		9		10		
Bis Barbatia virescens 1 2 1 1 2 1 2 1 2 1 2 1 1 2 1 2 2 1 1 2 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 3 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3	Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Bil Brachidontes variabilis 3 0 1 1 2 1 2 2 2 1 13 3 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 39 30 24 23 269 2 2 2 2 2 2 2 3 2 39 30 24 23 269 20 20 2 2 2 2 3 2 30 3 2 3 2 3 2 3 2 3 3 4 3 3 1 4 4 3 4 3 4 3 4 3 4 3 1 4 4 2 1 4 4 2 4 3 4 3 4 3 4 3 4 3	Ва	Balanus amphitrite	0								0				0		0		4				4
Bi Glauconome chinensis 0 1 1 1 2 2 2 2 2 2 2 2 2 3 2 39 30 24 23 269	Bi	Barbatia virescens	1		2						1				2		1		1				8
Bi	Bi	Brachidontes variabilis	3		0		1		1		2		1		2		2				1		13
Bit Saccostrea cucullata 4 3 0 8 0 8 39 30 24 23 269 Bit Xenostrobus atratus 1 2 1 3 1 3 1 1 1 1 14 C Gaetice depressus 1	Bi	Glauconome chinensis			0										1				1				2
C Gaetice depressus 1 1 1 1 1 1 1 1 1 1 1 6 6 C Metopograpsus latifrons 2 3 2 3 2 5 1 6 6 C Pagurus dubius 1 0 1 1 1 1 1 2 1 2 1 7 G Batillaria multiformis 3 1 6 2 6 1 2 1 4 29 G Batillaria zonalis 1 3 6 3 4 3 1 4 4 4 2 9 Cn Diadumene lineata 2 2 2 2 2 2 2 2 1 6 G Cellana toreuma 0 3 1 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 3 4 1 4 1	Ві	Saccostrea cucullata													39		30		24		23		269
C Metopograpsus latifrons 2 3 1 6 6 1 2 1 6 C Pagurus dubius 1 0 1 1 0 1 2 1 7 G Batillaria multiformis 3 1 6 2 6 1 2 1 1 22 G Batillaria zonalis 1 3 6 3 4 3 1 4 4 4 22 Cn Diadumene lineata 2 2 2 1 4 4 22 1 6 G Cellana toreuma 2 2 2 2 2 2 2 2 2 2 2 2 3 4 G Chlorostoma argyrostomum 0 3 1 0 1 3 4 G Clithon faba 2 2 2 2 2 2 2 1 3 4 G Clithon faba 1 1 3 4	Bi	Xenostrobus atratus	1		2		1		3		1		3				1		1		1		14
C Pagurus dubius 1 0 1 1 0 1 2 1 7 G Batillaria multiformis 3 1 6 2 6 1 2 1 2 1 22 G Batillaria zonalis 1 3 6 3 4 3 1 4 4 4 2 4 29 Cn Diadumene lineata 2 2 2 1 2 1 6 G Cellana toreuma 2 2 2 2 2 2 2 2 3 8 G Chlorostoma argyrostomum 0 3 1 0 2 2 2 2 2 2 2 2 2 2 2 3 4 G Clithon faba 1 1 3 4 1 4 1 1 2 1 1 3 4 G Clithon faba 1 1 3 4 1 4 1 1<	С	Gaetice depressus		1	1				1			1	1					1					6
G Batillaria multiformis 3 1 6 2 6 1 2 1 22 G Batillaria zonalis 1 3 6 3 4 3 1 4 4 4 29 Cn Diadumene lineata 2 - - 1 - 2 2 1 6 6 G Cellana toreuma 2 - 2 2 2 2 2 2 2 8 G Chlorostoma argyrostomum 0 3 1 - 0 - 1 5 G Clithon faba - - - 1 4 1 4 1 2 1 2 1 4 G Littoraria articulata 1 1 3 4 1 4 1 1 2 1 1 1	С	Metopograpsus latifrons			2		3														1		6
G Batillaria zonalis 1 3 6 3 4 3 1 4 4 29 Cn Diadumene lineata 2 - 1 - 1 2 1 6 G Cellana toreuma 2 - 2 2 2 2 2 2 2 2 8 G Chlorostoma argyrostomum 0 3 1 0 - 1 5 G Clithon faba - - - - 1 3 4 1 4 - 1 2 - 17 G Littoraria articulata 1 1 3 4 1 4 1 1 2 1 17	С	Pagurus dubius	1		0		1				1				0		1		2		1		7
Cn Diadumene lineata 2 1 2 1 6 G Cellana toreuma 2 2 2 2 2 2 2 2 8 G Chlorostoma argyrostomum 0 3 1 0 1 1 5 G Clithon faba 1 1 3 4 1 4 1 2 1 17	G	Batillaria multiformis	3				1		6		2		6		1		2				1		22
G Cellana toreuma 2 2 2 2 2 2 2 8 G Chlorostoma argyrostomum 0 3 1 0 0 1 5 G Clithon faba 1 1 3 4 1 4 1 2 1 17 G Littoraria articulata 1 1 3 4 1 4 1 2 2 2	G	Batillaria zonalis	1		3		6		3		4		3		1		4				4		29
G Chlorostoma argyrostomum 0 3 1 0 0 1 5 G Clithon faba 1 1 3 4 1 4 1 2 17 G Littoraria articulata 1 1 3 4 1 4 1 2 17	Cn	Diadumene lineata	2								1						2		1				6
G Clithon faba 1 1 3 4 1 3 4 1 2 17	G	Cellana toreuma							2				2		2				2				8
G Littoraria articulata 1 1 3 4 1 4 1 2 17	G	Chlorostoma argyrostomum	0		3		1				0						0				1		5
	G	Clithon faba													1				3				4
G Lottia dorsuosa 1 0 1 3 1 3 1 1 1 11	G	Littoraria articulata	1		1		3		4		1		4				1		2				17
	G	Lottia dorsuosa	1		0		1		3		1		3				1				1		11

														Tota	655
Sp	Siphonosoma sp.				0	1	1			1				1	3
Ро	Lepidozona spp.											1			1
P	Sabellidae imbricatus		1	2	1				1		1				6
G	Pirenella asiatica	1													1
Р	Nereididae spp.				2	1	1					1		1	5
G	Patelloida pygmaea	1		0	1		1	1	1		1		2		8
G	Nodilittorina radiata				2	<u> </u>				1			2		5
G	Nipponacmea concinna			2	C)				1			0		3
G	MONOGONIA IADIO	4		0	5	5	8	4	8	20	14	5	10		170
G	Monodonta labio	1		2	1		2	1	2	20	4.4	5	18		176
G	Lunella granulata	1		1	1			1			1	1	1		7
G	Lunella coronata	0		1			1	0	1		0	2			5
G	Lottia luchuana	1			1			0			0		2		4

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Mar 2023	Sampling Zone TC1	Mic	d tida	al lev	el (1	.5 m	abov	ve C.	.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite	1				0		1		2		0				1		0				5
Bi	Barbatia virescens	1		2				1		1				1				0				6
Bi	Brachidontes variabilis																	1				1
Bi	Glauconome chinensis	2					1	2			2		1	1	1	1		0				11
Bi	Saccostrea cucullata	2		1 7		2		2		2 7		2		1		15		12		13		183
Bi	Xenostrobus atratus	2		3		2		2		3		2		2				2		1		19
С	Gaetice depressus	1				1		1		1		1				1		1				7
С	Hemigrapsus penicillatus			1										2						1		4
С	Metopograpsus latifrons									1						2		2				5
G	Batillaria multiformis	3		2				2		2		3		2		2		5		2		23
G	Batillaria zonalis	0		2				0		2						2						6
G	Chlorostoma argyrostomum		1		1	2			1	1		2						4		1		13
G	Clithon faba	1		1				1								1		1		2		7
G	Clithon retropictus													3								3
G	Littoraria articulata			4		4				2		1				5		2		2		20
G	Lottia dorsuosa	0		1		1		0		1		1		3						1		8
G	Lunella coronata			1		1						2		1		1		1				7
G	Lunella granulata	2		2				2		1				2		2		1		3		15

																Tota	al	477
Sp	Sipunculus nudus		1	1			1						1		1		1	6
Sp	Siphonosoma sp.																	0
Po	Lepidozona spp.								3									3
Р	Nereididae spp.			1		1		1		1	2		1				1	8
G	Pirenella asiatica								1			1						2
G	Patelloida pygmaea	1			1	1			1									4
G	Nodilittorina radiata				3			1	1		1			2				8
G	Nipponacmea concinna	1		2		1										1		5
G	Nerita squamulata			1								1				2		4
G	моподота тарго	1		5	Э	4		4	0		5	2		11		3		94
G	Monodonta labio	1		1	9	1		1	1		5	2		11		2		94

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Mar 2023	Sampling Zone TC1	Lov	v tida	al lev	el (0	.5 m	abo	ve C	.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite					1		1								3				6		11
Bi	Barbatia virescens	3		2		21		5		7		3		22		8		21		11		103
Bi	Anomalocardiasquamosa		1								1											2
Bi	Brachidontes variabilis			1								2								1		4
Bi	Glauconome chinensis		1		1	1		1	1		1		1	1		1		1				10
Bi	Saccostrea cucullata	3		8		5		3		2		9		5		2		5		2		44
Bi	Xenostrobus atratus	3		4		2				3		4		2				2		6		26
С	Gaetice depressus	1			1		1	1		1			1		1	1			1			9
С	Hemigrapsus penicillatus	1								1											1	3
С	Metopograpsus latifrons			3		4						3		3				4				17
С	Pagurus dubius			2				1				1				1						5
Cn	Diadumene lineata															3				3		6
G	Batillaria multiformis	11		18		16		22		19		12		11		6		16		1		132
G	Batillaria zonalis	4		2		3		2		3		2		3		2		3				24
G	Chlorostoma argyrostomum																					0
G	Clithon retropictus					3		1				1		3				3				11
G	Littoraria articulata	2		4		4		6				6		4		1		4		6		37
G	Lottia dorsuosa	1		2								2								1		6
G	Lottia luchuana															1						1

Sipunculus nudus						1					1
						4					
Siphonosoma sp.			1				1		1		3
Lepidozona spp.						1		1			2
Sabellidae imbricatus											0
Nereididae spp.	1			1	1 2			1		1	7
Nodilittorina radiata	8	8	8	8	8	8	8	15	8	5	84
Nipponacmea concinna				1						1	2
Nerita squamulata		3				2		1			6
Nerita polita											0
Nerita lineata			1				2		1		4
Monodonta labio	2	1	2	0	0	1	2	0	2	1	11
Lunella granulata	2				2			2		8	14
Lunella coronata	3	1		1	2	2		1		1	11
	Lunella granulata Monodonta labio Nerita lineata Nerita polita Nerita squamulata Nipponacmea concinna Nodilittorina radiata Nereididae spp. Sabellidae imbricatus Lepidozona spp. Siphonosoma sp.	Lunella granulata 2 Monodonta labio 2 Nerita lineata Nerita polita Nerita squamulata Nipponacmea concinna Nodilittorina radiata 8 Nereididae spp. 1 Sabellidae imbricatus Lepidozona spp. Siphonosoma sp.	Lunella granulata 2 Monodonta labio 2 1 Nerita lineata Nerita polita Nerita squamulata 3 Nipponacmea concinna Nodilittorina radiata 8 8 Nereididae spp. 1 Sabellidae imbricatus Lepidozona spp. Siphonosoma sp.	Lunella granulata2Monodonta labio212Nerita lineata1Nerita polita3Nerita squamulata3Nipponacmea concinna88Nodilittorina radiata88Nereididae spp.1Sabellidae imbricatusLepidozona spp.1Siphonosoma sp.1	Lunella granulata2Monodonta labio2120Nerita lineata11Nerita polita31Nerita squamulata31Nipponacmea concinna11Nodilittorina radiata888Nereididae spp.11Sabellidae imbricatus11Lepidozona spp.51Siphonosoma sp.11	Lunella granulata22Monodonta labio21200Nerita lineata111Nerita squamulata333Nipponacmea concinna111Nodilittorina radiata8888Nereididae spp.1112Sabellidae imbricatusLepidozona spp.Siphonosoma sp.111	Lunella granulata 2 2 Monodonta labio 2 1 2 0 0 1 Nerita lineata 1 1 1 1 Nerita polita 3 2 2 2 Nipponacmea concinna 1 1 1 1 Nodilittorina radiata 8 8 8 8 8 8 Nereididae spp. 1 1 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 1 1 1 1	Lunella granulata 2 2 Monodonta labio 2 1 2 0 0 1 2 Nerita lineata 1 1 2 2 Nerita polita 3 2 2 2 Nipponacmea concinna 1 1 5 3 2 2 3 2 2 3 3 2 2 4	Lunella granulata 2 2 2 2 2 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 1 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0	Lunella granulata 2 2 2 2 2 2 0 0 1 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2 1 2 0 2 1 1 1 1 2 0 2 1 1 1 1 2 1 1 1 1 1 1 1 2 1	Lunella granulata 2 2 2 2 8 Monodonta labio 2 1 2 0 0 1 2 0 2 1 Nerita lineata 1 1 2 2 1 1 2 1

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Mar 2023	Sampling Zone TC2	Hig	h tid	lal le	/el (2	2.0 m	abo	ove (C.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite	2		2		3		2		1		2		5		1		2		5		25
Bi	Barbatia virescens	0		1		1		1		0		0		1		0		1		1		6
Bi	Brachidontes variabilis	2				1		1		1		2		1		1		1		1		11
Bi	Glauconome chinensis		1		1			0						1			1	0		1		5
Bi	Saccostrea cucullata	25		34		31		35		30		35		36		35		33		36		330
Bi	Xenostrobus atratus	4		2		1		4		2		5		1		4		4		1		28
С	Gaetice depressus	1				1	1	3		1	1			1	1	1		2		1	1	15
С	Hemigrapsus penicillatus							0				1						0				1
С	Metopograpsus latifrons	2								1						1						4
С	Metopograpsus quadridentatus					1		1		3								1				6
Cn	Diadumene lineata					1						1										2
G	Batillaria multiformis	3		10		11		3		4		9		12		2		2		12		68
G	Batillaria zonalis	1		4				1				5		7		1		4		7		30
G	Chlorostoma argyrostomum					1		1				4						1				7
G	Clithon retropictus			3		3				1		4		1						1		13
G	Littoraria articulata							5		1		1		0				5		0		12
G	Lottia dorsuosa	4		1				2		2		1		2		4		2		2		20
G	Lunella coronata	2		1				1				0		4		1		1		4		14
G	Lunella granulata	1						3		3		3		3		3		3		3		22

											Total	823
Sp	Siphonosoma sp.				1		1	1				3
Po	Lepidozona spp.	1			1	2			1	1		6
Ne	Nemertea sp.	0			2		2 1	1	0		1	7
G	Pirenella incisa											0
G	Pirenella asiatica	2		1	2	2			1	1		9
G	Patelloida pygmaea	1	1	1	1	2			1	1		8
G	Nodilittorina radiata	4		1	0	1	1		3	0		10
G	Nipponacmea concinna	1	1	1	3		2		1	3		12
G	Nerita squamulata	0		1				5	0		5	11
G	Monodonta labio	18	10	9	8	12	9	22	17	11	22	138

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Mar 2023	Sampling Zone TC2	Mid tic	lal level	(1.5 m	abov	/e C.E	D.)													
		1	2	3		4		5		6		7		8		9		10		
Gp	Taxon	Q C	Q	C Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite	1	1			7		2				3				1		1		16
Bi	Barbatia virescens	2		1		1				3		1		3		2				13
Bi	Brachidontes variabilis	1	1			4		5		2		2				1		3		19
Bi	Glauconome chinensis				1					2		1		1			1			6
Bi	Saccostrea cucullata	24	30	21		27		24		21		21		24		17		22		231
Bi	Xenostrobus atratus	1	1	2		4		3		2				1		3		3		20
С	Gaetice depressus					2		2							1	1				6
С	Metopograpsus latifrons	5	4									1				1				11
С	Pagurus dubius	2	2	2		1		1		1				2						11
Cn	Diadumene lineata			1		2								1						4
G	Batillaria multiformis	7	11	5				13		10		7		2		1		13		69
G	Batillaria zonalis	15	12	12		14		11		14		11		7		4		10		110
G	Clithon faba			1										4		2				7
G	Clithon retropictus	1	1		1	1				5		4				0				13
G	Littoraria articulata					2		2				1				12		1		18
G	Lottia dorsuosa	2	2	3		2		3		1			1	2				3		19
G	Lunella coronata	1	1	6						1		2		2		2				15
G	Lunella granulata			3		3						4		2		1				13

											Total	786
Sp	Sipunculus nudus	1	1					1		1		4
Po	Lepidozona spp.				1		1			1		3
Ne	Nemertea spp.		:	2 1		2						5
G	Pirenella incisa	2	1					4				7
G	Patelloida pygmaea				4	4			2	1	4	15
G	Nodilittorina radiata	1	3	2	2		1			1		10
G	Nipponacmea concinna					2	2	2	3	2	2	13
G	Monodonta labio	17	15	8	13	9	15	17	10	10	14	128

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Mar 2023 Sampling Zone TC2

Low tidal level (0.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
		I		2		3		4		5		0		1		0		9		10		Ch
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ba	Balanus amphitrite	2		2		3				1		2		3				2		1		16
Bi	Anomalocardia squamosa							1								1						2
Bi	Barbatia virescens	17		18		11		7		2		17		11		7		7		8		105
Bi	Brachidontes variabilis	3		1				2				3				2		2				13
Bi	Glauconome chinensis	1		1						3		1						1		5		12
Bi	Isognomon isognomum					1					1			1				1				4
Bi	Saccostrea cucullata	2		1		4		5		2		2		4		5		0		1		26
Bi	Xenostrobus atratus	1		1		3				4		1		3				2		3		18
С	Gaetice depressus			1		1		1		2				1		1				1		8
С	Hemigrapsus penicillatus			2		3								3				1				9
С	Metopograpsus latifrons							1		2						1						4
С	Pagurus dubius	1		3						1		1						2				8
Cn	Diadumene lineata									1										2		3
G	Batillaria multiformis							14		9						14		11		4		52
G	Batillaria zonalis	2		4		7		7		7	1	2		7		7		3		7		54
G	Clithon retropictus			2																		2
G	Littoraria articulata					2		3						2		3		2				12
G	Lottia dorsuosa									3								4		3		10

Siphonosoma sp. Sipunculus nudus				1 1	1	1		1	1 1			1	6 2
Siphonosoma sp.				1	1	1		1	1			1	6
Lepidozona spp.	1					1							2
Pirenella incisa		1		1				1			1		4
Patelloida pygmaea					2					1		2	5
Nodilittorina radiata	6	6	5	5	7	6	5		5	1			46
Nipponacmea concinna				5	3				5			1	14
Monodonta labio	5	3		2		5			2	1			18
Lunella granulata	2	2	9	5	11	2	9		5			8	53
Lunella coronata	3	4	4		3	3	4					3	24

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Sampling Zone TC3

Mar 2023

		9		(-				,													
		1	2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q C	C Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Bi	Barbatia virescens	2	2		1				4		2				2		1				14
Bi	Brachidontes variabilis						2		1						1						4
Bi	Glauconome chinensis	2	1			3					2							3		1	12
Bi	Saccostrea cucullata	36	24		31		27		34		28		33		28		33		31		305
Bi	Xenostrobus atratus				3				8				4		8		1				24
С	Gaetice depressus						2		1						1		1				5
С	Metopograpsus latifrons	2	2				6				2										12
С	Pagurus dubius						7						1							1	9
G	Batillaria multiformis	2	2		6		2		4		7		3		2		2				30
G	Batillaria zonalis				1		1		1						1		1		4		9
G	Clithon oualaniensis	4	5				2				5		3						1		20
G	Clithon retropictus		3						2		2		3		2						12
G	Littoraria articulata				5												4		3		12
G	Lunella coronata	7	4		2				2		2						2		3		22
G	Lunella granulata	3	2				1		1		2		5		1				3		18
G	Monodonta labio	11	15		13		11		27		9		17		16		18		18		155
G	Nerita chamaeleon	1																			1

High tidal level (2.0 m above C.D.)

724
1
4
3
4
8
2
16
6
11
3
2

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

G

Lunella granulata

Mar 2023	Sampling Zone TC3	Mid tid	dal leve	el (1.	5 m	abov	ve C.	D.)													
		1	2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q C	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite		2						2		2				2				2		10
Bi	Barbatia virescens	1	3		1		2				3		2				2		1		15
Bi	Brachidontes variabilis	2					2		5		4		1		4		2		4		24
Bi	Glauconome chinensis						1		3				1		3		8				16
Bi	Saccostrea cucullata	25	21		27		22		33		32		21		37		31		41		290
Bi	Xenostrobus atratus	7	4		7				2		7				2		6		7		42
С	Gaetice depressus	4	1		3				1		2				1		1		2		15
С	Metopograpsus latifrons		1				1		3		1		1		1		2		1		11
G	Batillaria multiformis	7	2		2		10		1		7		10		1		1		7		48
G	Batillaria zonalis	1	2		1		6		2		6		5		2						25
G	Clithon faba	2			2	1											7				12
G	Clithon oualaniense	7	1						3		2				3		2		1		19
G	Clithon retropictus								2						1						3
G	Littoraria articulata	1			1		2						2				2				8
G	Lottia dorsuosa								3		2				3				2		10
G	Lunella coronata	1	1		1		3				5		1						7		19

G	Monodonta labio	15	9		10	1	18	14		11		18		11		18	17		141
G	Nerita chamaeleon	1	1		1	1	1	2		1		1		2		2			12
G	Nerita lineata							6						5		1			12
G	Nerita polita		1		2					3							3		9
G	Nerita squamulata					3	3	1				3		1		3			11
G	Nipponacmea concinna	2	1		2			1		2				1			2		11
G	Nodilittorina radiata	1	2		1					7						1	7		19
G	Patelloida pygmaea	1						2		2				2			2		9
G	Pirenella asiatica		3			7	7			5		7					5		27
G	Pirenella incisa					5	5					5				5			15
Ne	Nemertea spp.		1	2		1 2	2 1		2		2	2	1		2			2	18
Р	Sabellidae imbricatus		2		1	2	2	3		3		2		3			2		18
Ро	Lepidozona spp.	1				1	1	2		2		1		2		1	2		12
Sp	Siphonosoma sp.		2	1		2	1				1		1			2		1	11
Sp	Sipunculus nudus			1			1		1		1		1		1			1	7

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Total

948

Mar 2023 Sampling Zone TC3

Low tidal level (0.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite	3		2								1		2						3		11
Bi	Barbatia virescens	10		3		3		14		3		15				11		14		12		85
Bi	Anomalocardia squamosa		1		2		1	3			1				2		1	3			1	15
Bi	Ruditapes philippinarum			3				3						3				3		1		13
Bi	Brachidontes variabilis			3		3		1		3						3		1				14
Bi	Glauconome chinensis											1									1	2
Bi	Saccostrea cucullata	3		5		8		2		8		0		3		2		0		2		33
Bi	Xenostrobus atratus	3		2		3		3		3		2	1	2		3		4		3		29
С	Gaetice depressus			1		2				2		4		1		2						12
С	Metopograpsus latifrons					1				1		5				1						8
С	Pagurus dubius	17				1		14		1		15		12		9		14		12		95
G	Batillaria multiformis	13		2		3		10		3		20		9		8		10		13		91
G	Batillaria zonalis					2		1		2								1				6
G	Clithon oualaniensis	2				6				6		4								2		20
G	Littoraria articulata																					0
G	Lottia dorsuosa			2		4		2		4				2		4		2		1		21
G	Lunella coronata	15		5		7		8		7		20		12		15		8		14		111
G	Lunella granulata	2		9		8		0		8		0		2		2		0		2		33

																			Tot	tal	661
Sp	Sipunculus nudus								1									1			2
Sp	Siphonosoma sp.		1				1		1	•	1	1				1		2		1	9
Р	Sabellidae imbricatus	1		1	1	3		2		3		2	1	1	3		2		1		21
Р	Nereididae spp.											1									1
G	Pirenella incisa	2																	2		4
G	Patelloida pygmaea	2																	2		4
G	Nipponacmea concinna	1		2		3		3		3			2		3		3		1		21
G	Monodonta labio																				0

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Key for faunal groups (Gp):

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

G

G

Clithon retropictus

Littoraria articulata

Mar 2023	Sampling Zone ST	_	n tidal lev	•	m														
		1	2		3	4		5		6	7		8		9		10		
Gp	Taxon	Q	C Q	С	Q	C Q	С	Q	С	Q (C Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite										3								3
Bi	Barbatia virescens	1						1											2
Bi	Brachidontes variabilis	1	2		2	3		0					3		2		2		15
Bi	Glauconome chinensis	2			3	1		2		2	2						1		13
Bi	Saccostrea cucullata	34	31	1	29	40)	37		29	28	}	27		21		23		299
Bi	Xenostrobus atratus												2						2
С	Gaetice depressus		1		1								2		1				5
С	Metopograpsus latifrons	1	2		2	1		1		1	1		2		2				13
С	Pagurus dubius	2						0		2	2						1		7
Cn	Diadumene lineata		1							1	1								3
G	Batillaria multiformis	11	15	5	8	7		5		7	14		8		15		5		95
G	Batillaria zonalis	3				2		3			3								11
G	Cellana toreuma		1								1		2		1				5
G	Clithon faba	1	5					1							3		2		12

3

1

2

2

13

2

3

2

2

																	Tota	ı	747
Sp	Siphonosoma sp.			1	1		1					2		1		1		1	8
Sp	Sipunculus nudus			1	1							1				1			4
Po	Lepidozona spp.					1		2									2		5
Р	Sabellidae imbricatus	3	1	1		2		2	2	1	2				1		4		19
G	Pirenella incisa																	2	2
G	Patelloida pygmaea		2	1									2		2				7
G	Nodilittorina radiata	1	1					0	2		6		1						11
G	Nipponacmea concinna		1	1		2							1		1		4		10
G	Nerita polita																2		2
G	Nerita chamaeleon																1		1
G	Monodonta labio	18	15	1	7	13		12	9		11		13		11		15		134
G	Lunella granulata	4	5	5		3		1	1		1				5		2		27
G	Lunella coronata		3	3							2		1		3				12
G	Lottia dorsuosa	5																	5

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Mar 2023	Sampling Zone ST	Mid	tida	l leve	el (1.	5 m	abov	ve C.	D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Bi	Barbatia virescens					2		2		1		2		1		1		2		1		12
Bi	Glauconome chinensis			2		1		2				1				1		2				9
Bi	Brachidontes variabilis							3		2				2		1		3		4		15
Bi	Saccostrea cucullata	28		22		27		27		33		27		40		31		20		22		277
Bi	Xenostrobus atratus	6				2		2		3		2		2				2		2		21
С	Gaetice depressus			3		2																5
С	Metopograpsus latifrons											2				1				2		5
С	Pagurus dubius									3												3
G	Batillaria multiformis	3		23		8		1		3		8		3		1		1		2		53
G	Batillaria zonalis	13		6				11								9		11		2		52
G	Chlorostoma argyrostomum			2				3										1				6
G	Clithon faba	1				4		1				1				2						9
G	Clithon oualaniense			2		3		2		4				2				1				14
G	Clithon retropictus					2		1				2						1				6
G	Littoraria articulata	1				3		8		1		3						8		8		32
G	Lottia dorsuosa			1				1														2
G	Lunella coronata	2				4		5		7		4		2		4				1		29
G	Lunella granulata	8		4				7		7		6		7		6				4		49

	·													Total		841
Sp	Sipunculus nudus		1		2				2							5
Sp	Siphonosoma sp.			2			1						1		1	5
Po	Lepidozona spp.	2				2	2			2	1	2				11
Р	Sabellidae imbricatus	3	1		2				2		2			3		13
Ne	Nemertea spp.			1				2		2					2	7
G	Pirenella incisa		3		2											5
G	Patelloida pygmaea	1	1		3	3	1	3		1	1	3				17
G	Nodilittorina radiata					2					5					7
G	Nipponacmea concinna	3					3				1					7
G	Nerita squamulata		2		3						2					7
G	Nerita lineata	2	1													3
G	Nerita chamaeleon													1		1
G	Monodonta labio	20	11		14	21	13	14		11	14	21		15		154

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

Mar 2023 Sampling Zone ST

Low tidal level (0.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub- total
Ва	Balanus amphitrite	1		7		1		6				2		1		7		5		1		31
Bi	Anomalocardia squamosa		1				1		1	3			1	2							1	10
Bi	Barbatia virescens	2		15		2		8				8		13		15		8		2		73
Bi	Brachidontes variabilis	1				1		3				3								1		9
Bi	Glauconome chinensis			2				4				4		2		2						14
Bi	Saccostrea cucullata	0		1		5		2		14		2		1		1		1		0		27
Bi	Xenostrobus atratus	8				8		5				5		3						8		37
С	Gaetice depressus			2						4	1					2						9
С	Hemigrapsus penicillatus									2												2
С	Metopograpsus latifrons			1												1						2
С	Metopograpsus quadridentatus	3				3														3		9
Cn	Diadumene lineata																					0
G	Batillaria multiformis	8		3		11		3		8		3		6		3		2		8		55
G	Batillaria zonalis	19		18				9		7		9		11		18		15		19		125
G	Chlorostoma argyrostomum									3												3
G	Clithon faba																					0
G	Lottia dorsuosa	4		2		4		5				5				2		1		4		27

																		To	tal	679
Sp	Sipunculus nudus																			0
Sp	Siphonosoma sp.								2			2		1						5
Po	Lepidozona spp.																			0
Р	Sabellidae imbricatus		1	2	2		1	2			2		2		2	2			1	17
Ne	Nemertea spp.		1			2	1												1	5
G	Pirenella incisa									2				1						3
G	Patelloida pygmaea												8				3			11
G	Nodilittorina radiata	6				6				1			1					6		20
G	Nipponacmea concinna			2				1	;	3	1		5		2		3			17
G	Nerita squamulata									1										1
G	Nerita lineata	2				2							1					2		7
G	Monodonta labio	0		3		9		0		5	0		0		3		2	0		22
G	Lunella granulata	7		15		4		21	;	8	21		11		15		11	7		120
G	Lunella coronata			1				2			2		7		1		5			18

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

APPENDIX J

Waste Flow Table

Monthly Summary Waste Flow Table for 2023

	Actu	ıal Quantities	of Inert C&I	D Materials G	enerated Mo	nthly	Actual	Quantities of C	&D Wastes	Generated N	lonthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (Note 8)	Reused in Other Projects (Note 8)	Disposed as Public Fill (Note 6)	Imported Fill (Note 6)	Metals	Paper / Cardboard Packaging	Plastics (Note 3)	Chemical Waste	Others, e.g. general refuse (Note 8)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	8.803	0.000	0.000	8.803	0.000	0.000	0.000	0.000	0.000	0.000	0.020
Feb	11.078	0.000	0.000	11.078	0.000	0.000	0.000	0.000	0.000	0.000	0.007
Mar	20.765	0.000	0.000	20.629	0.136	0.000	0.000	0.000	0.000	0.000	0.020
Apr											
May											
Jun											
Sub-total	40.646	0.000	0.000	40.510	0.136	0.000	0.000	0.000	0.000	0.000	0.046
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Sub- total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	40.646	0.000	0.000	40.510	0.136	0.000	0.000	0.000	0.000	0.000	0.046

		Forecas	t of Total Qu	antities of C	&D Materials	to be Genera	ated from the	Contract*		
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
310.805	21.788	224.130	40.265	24.622	1362.000	10.000	4.600	0.500	3.400	2.350

Notes: (1) The performance target are given in ER Appendix 8J Clause 14

- (2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³.
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for
- (6) Conversion factors for reporting purpose: excavated (bulk): rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³ sand=1.9tonnes/m³ Metal=7.85tonnes/m³
- (7) Numbers are rounded off to the nearest three decimal places
- (8) 30T dump truck carries C&D waste of 8.0m³; 24T dump truck carries C&D waste of 6.5m³

APPENDIX K

Cumulative Statistics on Complaints

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-008	22-Oct-2012	16:41	EPD	Environmental (Water Pollution)	· 宋生知5宗滿陽粵聲出車琅測大樓地盤, 4 丙沙米帕彩声 1 使疑是油污) - 污染環境,要求跟進及回覆 • (Photos attached). The "phenomenon" was observed over the past week. The photos attached were taken on 19.10.2012, 22.10.2012 and 23.10.2012	Portion X	The pelican barge as shown in the photos provided on 24 October 2012 did not belong to the Contractor.	Closed	-
COM-2012-009	05-Nov-2012	-	1823 CASE: 1- 391341859	Environmental (Noise and light)	The citizen complained about noise and light pollution from the barges working on the Zhuhai Macau Bridge project. Barge machinery working to about 10pm at right and sometimes can be heard intermittently through the night. The noise is more audible because the machinery is sited on over the water.	Portion X	The Contractor has adjusted the emission angle of the lights on working vessels with a view to minimizing the glaring effect to the adjoining residential areas	Closed	-
COM-2012-009(2)	11-Nov-2012	-	1823 CASE: 1- 391341859	Environmental (Noise, water quality & air quality	The complainant noted that the barges are still working on a Sunday, up until 10pm at night, very noisy, causing pollution of the water and at times expelling black smoke from their engines. A photograph taken at 10.40am on Sunday 11 November) 2012 was attached.	Portion X	-	Closed	-
COM-2012-009(3)	14-Nov-2012	-	1823 CASE: 1- 391341859	Environmental (Noise)	The complainant did not accept the reply. He further said that "All staff has to do is come out either at night or a Sunday to check, so easy. If this continues I will have no choice to call the police out."	Portion X	The Contractor has taken the following further mitigation measures for the reclamation works: (a) Mitigation Measures for Noise Nuisance: improvement of noise occurs onto the generators / motors on barges; and increase frequency of applying lubricant to all moving parts and gear wheels of the working barges. (b) Mitigation Measures for Sincke Emission: increase frequency of maintenance and checking of engines on barges that may emit smoke; and installation/replacement of smoke suppression device such as air filter, at engines where necessary.	Closed	-
COM-2012-010(1)	06-Nov-2012	-	<hr/> <hzmbenquiry@hyd.g ov.hk></hzmbenquiry@hyd.g 	Environmental (Noise)	The complainant stated that lately work has started opposite Le Bleu Deux estate using barges. The work in process is generated high level of noise from powered tools used on those barges. Even if the noise was acceptable on weekdays during dayline, it is definitely creating nuisance to local resident at right (past Tym) and on Sunday. Basically as 5 November 12 evening, he could not leave his window open as the elevel of noise prevent his belay to sleep and he could not even hear the 17 his his flat. the noise coming from the site is higher then the sounds from my TV. He would like to know what measure you are planning to put in place to address this issue. He did not think that the current level of noise are acceptable past 7pm and on Sunday.	Portion X	-	Closed	-
COM-2012-010(2)	15-Nov-2012	-	<hr/> <hzmbenquiry@hyd.g ov.hk></hzmbenquiry@hyd.g 		The noise can be very annoying, on days depending of the wind direction, you are making more noise than the plane taking off (I measured it myself), to give you and idea of the disturbance you are creating again. I would also like to bring an orbit repic beside the noise. Since the beginning of the flight operation, very strong small of exhaust pipe gas can be small in the residential area and it think this is a huge health concern for the local population. On certain days when the wind is blowing towards the residential area, I have the feeling that there is a diesel engine running in my living room! I would like to know how you are planning to address this?	Portion X	-	Closed	-

COM-2012-010(3)	15-Nov-2012	- EPD	Environmental (Noise, water quality & air qual Environmental (Air quality and Noise)	The complainant has copied his reply from HyD dated 15 Nov 2012 to EPD and Health Department and he further complained not he following issues: 1y) - Noise nuisance generated by diesel engine: - Smell of orbusts pipe age in his residence; and - Suspected marine water pollution (see enclosed photo). The complainant also requested EPD to install noise and air quality monitoring at Le Bleu Deux estate. The complainant filed again a complaint for the strong exhaust pipe furnes smell coming for the construction site in Tung Chung tonight as well as the extremely high level of noise as at at 10:30 pm (19/11/12).	WA6 Portion X WA6	Notes from blowing horn from vessels and barges and Metallic Parts thrown on Ground - Reminded the Contractor for presuse the captains of the vessels and barges not blowing the horn except in case of emergency or prevention of ship collisions/serious safety matters; 'The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation and take corresponding actions; and 'To enhance the work force of RSS to supervise each step of construction activities and the use of hand tools until the completion of the site office erection. Noise from Enjense and Cranes of the Barges during Marine Operation Installation of noise covers onto the generators / motors on all working barges; Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and 'Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at night time and	Closed	-
COM-2012-010(5)	24-Nov-2012	13:42 hrs. EPD (cc to HyD) 22:02 hrs. 22:08 hrs. EPD (cc to HyD)	Environmental (Air quality and Noise)	The noise is coming for the following sources: - power generator - engines from the barges used for marine operation - noise from the cranes use of the construction barges. - engine from the boat used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - power generators - marine operation The complianant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/11/10 at 1347. I can assure you that is it not "not that bad" whatever that means for you. And again strong noise of metallic parts being thrown on the ground. I thought you have already sorted out that problem according to your multiple replies to my complaints since July??? A pictures taken this morning (25/11/12) around 9-30am-10am showing the water pollution in different area outside the floating barriers. At 21:56 hrs., boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.	WA6	Sundays. Noise from power generators * All generators shall be either screened or covered by adequate sound reducing materials; * All generators shall be either screened or covered by adequate sound reducing materials; * All generators situated in front of Le Bleu Deux estate will be switched off at 19:00 hrs, except two generators will be kept running up to 22:00hrs and one generators will be kept running overnight for maintaining minimum power requirement; and * Arrangement with CLP Power HLK tid (CLP) for the permanent power supply to the site offices has been chased in a matter of urgency. The use of power generators will be terminated in phase starting from 6 December 2012. Eshabats Fume Emission * Tight control on using the machine and generators in the vicinity of Le Bleu Deux estate; and * Closely monitor the frequency on engine cleansing and replacement of dust filter. Change of Saa Water in Yellow * The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible.		
COM-2012-012(1)	13-Nov-2012	22:27 hrs. HyO	Environmental (Noise)	Once again your site continues to work late. The attached photo was taken at 10.15pm on Tuesday 13 Nov. The machinery used on the barges is very noisy. Why do you continue to work till 10pm and why do you work on a Sunday. Surely this is classified as a construction site for which you are in breach of various ordinances. An early reply is appreciated.	Portion X	The following further mitigation measures during the course of the reclamation works will be taken: Installation of noise covers onto the generators / motors on all working barges; Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound. Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at nighttime and Sundays.	Closed	-
COM-2013-015	17-Jan-2013	- EPD	Environmental (Air)	The complainant raised that construction dust was arising from construction site of China State Contruction Engineering (Hong Kong) Ltd near Siu Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY/2011/03 would take the following actions with immediate effect *To ensure no loosed earth material exposed at the edges of eth stockpiled earth materials i.e. to prevent erosion by wind and water; *To cover the stockpiled earth material by adequate tarpaulin; *To enhance the frequency of watering (3 times per day) onto existing haul road and other area as appropriate; and *To install a water sprinkler system to enhance the existing dust suppression measures once the water point is ready for water supply by WSD.	Closed	

			1	1	The state of the s		,		
COM-2013-016	18-Jan-2013	-	EPD	Environmental (Water)	The complainant advised that turbid water and concrete/cement has been arising from the Hong Kong-Zhuhal-Macao Bridge Hong Kong Projects to marine water. The complainant did not specify the soure of the turbid water and concrete/cement.	N/A	-	Closed	-
COM-2013-018	02-Mar-2013	-	НуD	Environmental (Noise)	The complainant advised that "It seems that the Contractor's cranes operating on the barges are again in need of bit of lubricant, as this evening i.e. 2 March 2013, the cranes are again polluting the neighborhood with intolerable noise." The complainant requested Mr. Ng from EPD to take note of this complaint and expected a detailed report.	Portion X	The Contractor has been reminded to continue the process of applying jubricant/ grease to all barges which are to be worked in the site area near Le Bleu Deux.	Closed	-
COM-2013-018 (2)	04-Mar-2013	-	EPD	Environmental (Noise)	The complainant complained that the cranes operating on the barges for the HZMB HK project generating squeak noise in the evening of 1 March 2013 causing an annoyance to him/her.	Portion X	The Contractor implemented the following measures: - Briefing given to the operator for the proper operation of marine vessels; - Keep adequate routine maintenance; - Minimize the quantities of plant after 7pm; & - Review the working hours of night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-018 (3)	13-Mar-2013	-	HyD	Environmental (Noise)	The complainant asked what noise mitigation the Contractor was taking. The complainant pointed out that the noise in question was so strong that it woke up his baby girl.	Portion X	-	Closed	-
COM-2013-018 (4)	22-Mar-2013 24-Mar-2013	14:19 hrs	НуО	Environmental (Noise)	The complainant complained that "the lifting appliance was operated gently and softly to keep the noise emission as low as possible" but the noise still wede up his baby "Luticant was regularly applied to smoothen all moving parts and gear wheels of the working barges" that did not seem to be the case at all. The complainant pointed that the crane operating at 10:27 hrs on 24 March 2012 needed lubricant.	Portion X	The Contractor will keep on closely monitoring the situation and carry out the necessary noise miligation measures while barges are working in the site area nearby residential area.	Closed	-
COM-2013-018 (5)	31-Mar-2013 1-Apr-2013		НуD	Environmental (Noise)	The complainant complained that noise emitted from a crane at 10:19 hrs. The complainant further complained that noise was generated from a barge at 07:30 hrs.	Portion Y	-	Closed	-
COM-2013-018 (6), (7) & (9)	15-Apr-2013	15:41 hrs	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the construction site near Tung Chung Development Plet operating for the Hong Kong-Quihael-Macao Bridge Hong Kong during the normal working hours on 6 April 2013 and 13 April 2013 and the late evening of 10 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours and non-restricted hours, the Contractor has implemented the following additional measures: - Poperating barge by experienced operators only: - Repenjan glavage by experienced operators only: - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to minimize squeak noise; - Install noise covers onto noisy equipment where practicable. - Install noise covers onto noisy equipment where practicable. - Minimized the quantities of plant used after 7pm as far as practicable; - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-

COM-2013-018 (11)	28-Apr-2013	15:44	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the reclamation site near Tung Chung Development Pier at around 22:00 of 28 April 2013 causing nulsance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the protential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to avoid squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-022	08-Apr-2013	-	EPD	Environmental (Water)	The complaint alleged that oil was dumped from various vessels operating for HZMB HIK projects near Tung Chung Development Pier over the past few months. Photos were provided by the complainant.	Portion X	The Contractor has checked the photos provided by the complainant and confirmed that the vessels and boats shown in the photos do not belong to Contract No. HY/2011/03.As this complaint is not related to this Contract, no follow up action is required. The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan (SRP) in case of accidental release of oils from vessel.	Closed	-
COM-2013-022(2)	23-May-2013	09:15 hrs	EPD	Environmental (Water)	This complaint was a follow-up of a previous complaint received by EPD on 8 April 2013 regarding oil sticks caused by vessels. It was alleged that oil was still being dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. On the other hand, the complainant would also like to know whether the owners of the vessels could present engine oil disposal records for the vessels which supported the HZMB project.	Portion X	The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan in case of accidental release of oils from vessel and handle the chemical waste (waste oil) in accordance with the requirements provided in the EM&A Manual.	Closed	-
COM-2013-023	02-May-2013	1	HyD	Environmental (Noise)	The complainant alleged that there were metal parts dropped on the ground creating noise at 12:58 on 1 May 2013	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-024	23-May-2013	09:50 hrs	EPD	Environmental (Noise)	A complaint was received on 23 May 2013 regarding noise generated from dropping metal parts on numerous occasion on the pier opposite Le Blaut Deux at around 08:45 to 10:00 hrs of 18 May 2013 and loading/unloading activities creating noise disturbance by the contractor of HY/2011/03.	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-027	29-Jun-2013	10:02 hrs	RSS	Environmental (Noise)	A complaint was received on 29 June 2013 regarding noise generated from the works area near the site office (WA6) around 10:00 hrs on 29 June 2013	WA6	The Contractor was recommended to minimize the potential noise impacts generated from the construction sites as far as practicable in future.	Closed	-
COM-2013-033	13-Sep-2013	Around 22:00 hrs	RSS	Environmental (Noise)	A complaint was received regarding the noise nuisance from barge at about 22:20 hrs on 13 September 2013 and 02:30 hrs on 14 September 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: -Minimized the quantities of plan tosed after 7 pm as fra as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-034	17-Sep-2013		HyD	Environmental (Noise)	A complaint was received on 17 September 2013 regarding the noise nuisance from tree transplanting activities in the morning of 14 September 2013.	Portion Y	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, he Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Powerlar raider of plant used of plant used of the planting of t	Closed	-
COM-2013-037	8-Oct-2013 9- Oct-2013 16- Oct-2013		Supervising Officer's Representative	Environmental (Noise)	The complainant complained the noise from barge operation from 21:30 to 22-30 hrs on 4 October 2013. The complainant complained that several loud bangs were heard starting from 21:00 hrs on 7 October 2013. The complainant complained that it was very noisy at the noon of 14 October 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during sestricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: -minimize the quantities of plant used during restricted hours as far as practicable; and -regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-

COM-2013-041	31-Oct-2013	21:52 hrs	EPD	Environmental A complaint was received on 31 October 2013 regarding the noise generated from a barge being moved by a tug boat in the N/A The	Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. Closed	-
				- mir	minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: iminize the quantities of plant used during restricted hours as far as practicable; and guiar review of working duration for restricted hours works and switch off all unnecessary machinery and plants during the night- and early morning period (7pm to 7am).	
COM-2013-043	11-Nov-2013	-	EPD	(Noise) construction site after 23:00 hrs on 8 November 2013.	Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. Closed minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: nimize the quantities of plant used during restricted hours as far as practicable; and plant of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted restricted hours works and switch off all unnecessary machinery and plants during restricted restricted hours works and switch off all unnecessary machinery and plants during restricted restricted hours.	-
COM-2013-045	27-Dec-2013	-	HyD	(Noise) afternoon of 26 December 2013. To n - mir	Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. Closed minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: immirate the quantities of plant used during restricted hours as far as practicable; and gular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted for some contractions of the contraction of the contra	-
COM-2014-046	16-Jan-2014	17:22 hrs	HyD		Contractor has implemented the following measure to minimize exhaust furnes generated from machinery: Closed antenance for the all machinery regularly.	-
COM-2014-048	18-Jan-2014	-	EPD		ed on the investigation results, it is considered that the blackish mud raised in the complaint was not related to HKLR03 Contract. Closed is case, no follow up action is required.	-
COM-2014-050	24-Mar-2014	-	EPD	Environmental A complaint was received by EPD on 24 March 2014. The complainant advised that there was dredged material found being (Other: Dredged mixed with soil in the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Project in the vicinity of Marine Sediment) (2Ab headquarters and transported out of the site. The complainant suspected that there was improper disposal of dredged marine sediment.	ed on the investigation results, it is considered that the complaint is invalid. In this case, no follow up action is required. Closed	-
COM-2014-051	29-Apr-2014	-	SOR		ed on the Contractor's site dairy and our investigation, no non-compliance was identified. Closed	-
COM-2014-053	02-May-2014		EPD	(Noise) the evening of 1 May 2014. To n - mir	Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. Closed minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: iminize the quantities of plant useful during restricted hours as far as practicable; and gular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted rs.	-
COM-2014-063	03-Dec-14		Arup		ed on the investigation results, it is found that the noise complaint is not related to Contract No. Closed 2011/03. In this case, no follow up action is required.	

COM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Qulity)	A complaint was received on 24 December 2014 regarding the increase of marine refuse (water bottles and debris) along the shore from Yat Tung to Tai O, where the complainant considered might be in relation to the HZMB project(s).	Portion X	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. Nevertheless, the Contractor is reminded to implement all recommended mitigation measures for waste management and avoid dumping rubbish into the sea.	Closed	-
COM-2015-066	08-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Dust)	According to Arup's email to CSCE on 8 April 2015, the ET was informed that a complaint had been received by EPD at about 18:29 hrs on 2 Apr 2015 regarding construction dust from construction site (\$15) at Kwo Lo Wan Road, Tung Chung."	S15	Based on the Contractor's information and our investigation, no non-compliance was identified. The Contractor is reminded to continuously implement the dust suppression measures to minimize potential dust impact.	Closed	-
COM-2015-068	10-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Noise)	According to Arup's email to CSCE on 10 April 2015, it is noted that EPD received a noise complaint from a resident of Caribbean Coast. According to the complainant, he was disturbed by noise from construction activities of the HZMB Project during weekends and holiday. The complainant was referring to those activities carried out between Scenic Hill and HKBCF because the complainant mentioned the contractor was China State.	N/A	Based on the information provided and our investigation, the Contractor had complied with the conditions laid down in Construction Noise Permit (CNPT) hosts. GW-RS0113-15 and GW-RS0356-15. Hence, no non-compliance was identified. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to maintaine the potential noise impact during restricted hours the quantities of plant used during restricted hours and read switch of all unnecessary to the contraction of the co	Closed	-
COM-2015-074	16-Jul-15	Nil	EPD	Environmental (Wastewater)	According to EPD's email to Highways Department, ET, SOR and ENPO, a complaint was received on 16 July 2015 regarding wastewater splashing from vehicles to pedestrian at Tung Fai Road. The complainant complained that wastewater was splashed to people waiting at the bus stop near Civil Aviation Department Headquarters Office Building when vehicles leaving the HZMB site to Tung Fai Road.	Tung Fai Road	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. The Contractor has been reminded to slow down their vehicles when leaving the concerned construction site.	Closed	-
COM-2015-076	17-Jul-15	Nil	EPD (An email forwarded by ENPO)	Environmental (Noise)	According to EPD's email to ENPO on 17 July 2015, it is noted that EPD received a noise complaint from public. The complainant said that he/she was disturbed by the noise generated from construction sites of the HZMB Project during the daytime period of past few Sundays. Alterwards, EPD contacted the complainant and confirmed that the noise was generated from construction sites along Kwo Lo Wan Road and signs of "China State Construction Engineering (HK) Ltd" were noted.	Kwo Lo Wa Road	Based on the information provided and our investigation, the Contractor complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0733-15 and GW-RS0740-15 and no noncomplaince was found. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: imitinize the quantities of plant used during restricted hours as are spracticable; and spracticable; andregular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-079	07-Dec-15	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to SOR and ET on 7 December 2015, a complaint was received by EPD on 2 December 2015 regarding water quality near HKLR work site. The complainant mentioned that If moved to Tung Chung since July and it was the second fine Is saw similar situation polluting the sea. Last time it was even worse in red colour. Please lock into this matter and let me know what was being diropped into the sea and whether it was hazardous to the sea." EPD has contacted the complainant and obtained the additional information from the complainant. EPD suspected that the incident happened in the afternoon on 28 November 2015.	Portion X	According to the information provided by the Contractor, the derrick barge belongs to Contract No. HY/2011/03. The concerned sediment plume was likely to be caused by stirring up of mud in the seabed by the derrick barge sailed at the navigation channel situated at shallow water zone where the water depth ranging from 3.25m – 3.75m, Public III materials were placed on the derrick barge. The barge was in good conditions with no materials being dumped into the sea. The Contractor has been implementing the mitigation measures as specified in the implementation Schedule of Environmental Miligation Measures that is all vessels to be sized such that adequate clearance is maintained between vessels and the sea bad at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. The Contractor is recommended to arrange vessels to move out of the site area during high tide to avoid the disturbance to the seabed as far as practicable and deploy marrine vessels effectively in order to minimize the number of trips and disturbance to seabed in shallow waters.	Closed	-
COM-2016-087	28-Jun-16	Nil	EPD	Environmental (Water Quality)	According to EPD's email, a complaint was received on 28 June 2016 regarding polluted water discharge incident opposite to Tung Chung Development Pier.	N/A	The Contractor has designated competent persons to operate, check and maintain individual wastewater treatment plant as an existing control measures. In case of breakdown of wastewater treatment plants, no discharge of wastewater will be allowed until repair is completed to resume the normal operation of the treatment plant. Specific toolbox / refreshment training trainings have been providing for the staff and workers for each of the wastewater treatment plants. The Contractor has been reminded to implement the above control measures and ensure no untreated wastewater will be discharged into open channel.	Closed	-
COM-2016-098	11-Nov-16	16:33	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to EMPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 11 November 2016, it is noted that EDP received a complaint lodged by a member of the public regarding sediment plume generated by a vessel named "Figil 308 (Chang Sheng 308)" during the vessel travelling from construction site of Hong Kong-Zhuhae- Macao Bridge near Scenic Hill to Tung Chung New Development Ferry Pier.	Portion X	The Contractor has been reminded to schedule the vessel to move in / out of the construction site during higher tide and minimize number of this to avoid the stirring up of the seabed mud when the vessel travelling in very shallow water areas as much as practicable. Also, the Contractor was reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule (EMIS).	Closed	-
COM-2016-099	02-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Other: Slurry on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 2 December 2016 that EPD received a complaint lodged by a member of the public regarding slurry on East Coast Road. The complainant considered the slurry might relate to the construction site of China Harbour Engineering Company Limited next to a hotel.	East Coast Road	During the weekly site inspection undertaken on 7 December 2016, no slurry was observed at the section of East Coast Road adjoining the site boundary of Contract No. HV/2011/03. The Contractor has constructed wheel washing facilities at all the site accesses, including the one near the site access of China Harbour Engineering Company Limited next to the Marriott Holde (which is believed to be the hotel mentioned by the complainant), to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or other debris would be throught to the public area. In addition, regular watering is conducted by water truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 to minimize dust emission. Based on the investigation results, it is considered that the complaint unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-100	14-Dec-16	Nil	ENPO (Contract No. HY/2010/02 project team received an environmental complaint referred by Government's hotline (1823) on 2 December 2016. ENPO forwarded the Complaint to Contract No. HY/2011/03.)	Environmental (Other: mud/ derbris on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a complaint lodged by a member of the public regarding muddebris on public road. The complainant complainant complaination and the whole stretch of less Cloast Road & Tung Fal Road is truly disguisting. The stone debris big and small and the mud is a nuisance to those who use the road every day. When dry there is a lot of dust and when it rains or when the road weshing trucks are out it becomes a muddy mess. Cars and pedestrians are overed in dust or mud, cars are hit by stones is a daily hazard. Washing of construction vehicles is inadequate as the sand and soil is carried out onto the roads. Oversight of road conditions are not carried out by Airport Authority. An alternative route should be created for the large number of construction vehicles as they drive fast.*	East Coast Road and Tung Fai Road	During the ET's inspection on 7 December 2016 (weekly routine inspection) and 16 December 2016, no mud or debris was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 as well as the section of Tung Fa Road iteding to the site access of Contract No. HY/2011/03. The Contractor provided wheely weshing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fa Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that nor mud or debris would be brought to the public area. It was observed that the areas of the wheel washing facilities and the respective road section between the wheel washing facilities and the site accesses of East Coasta Road and of Tung Fa Road were perwed with concrete. High pressure jets were also provided at the wheel washing facilities for cleaning of vehicles before the vehicles were allowed to leave the construction site. In addition, regular watering at the section of East Coasta Road adjoining the site boundary of Contract No. HY/2011/03. Nasc conducted by water trucks at least twice per day to minimize dust emission. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. Natwithstanding that, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-103	14-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a noise complaint todged by a member of public. The complaint was about hammering noise generated from construction sites at midnight in the past month. The complainant could not identify the source but suspected that the noise was generated from rEXMS Project. It was also noted from ENMS or and on 21 December 2016 that EPD supplemented that the complainant lives in Seewiev Crescorent. The complainant sometimes heard noise created by impacting metals or metal/ground, particularly in December 2016.	N/A	The Contractor confirmed that no hammering works was conducted and no impact noise was generated at midnight in November 2016 and December 2016. The Contractor complied with the conditions laid down CNP No. GW-R5740-16 and no non-compliance was found. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY201103. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Notes undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours as far as practicable; - regularly review the working duration for restricted hours works; and - switch off all unnecessary machinery and plant during restricted hours.	Closed	·

COM-2017-104	09-Jan-17	Nil	IEC (EPD referred the email from Complainant to IEC)	Environmental (Other: Cleanliness problem at East Coast Road and Tung Fai Road)	It was noted from IEC's email to the Environmental Team, Supervising Officer's Representative and Contractor on 9 January 2017 that EPD received a complaint lodged by a member of the public (a bus operator at the HKIA) regarding cleanliness problem at East Coast Road and Tung Fai Road.	East Coast Road and Tung Fai Road	During the ET's inspection on 10 January 2017, it was observed that the Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fail Road, to wash and clean all whicles before allowing them to leave the construction site to ensure that no mud or debries would be brought to the public rare. An Omud was observed at the section of Tung Fail Road leading to the site access of Contract No. HY/2011/03. However, some mud was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. Boaded on our investigation result, although there is no officer devidence showing that the complaint is related to Contract No. HY/2011/03. the Orntractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site. Road sweeper will be employed to sweep along the East Coast Road twice per week and remove the deposited mud underneath the water-filled barrier to	Closed	-
							facilitate the road-weahing water to be drained away from the carriageway. It should be of note that the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road and the Site of HY/2011/03 receives unidirectional flow of surface runoff from the East Coast Road. In addition, the following measures will be implemented to enhance dust suppression: Stockpile along East Coast Road will be reduced in height and compacted as far as practicable 2. Hauf road will be demarcated to prevent retricious from going into not-wetted surface. 3. Site access 51 of will be throughly cleaned and all vehicles will be stopped for second washing after being washed in the wheel washing bay. 4. Water sprinklers will be installed and operated at the stockpiles behind the water-filled barriers along East Coast. Road.		
COM-2017-108	23 February 2017 and 2 March 2017	Nil	Airport Authority Hong Kong (AAHK) via SOR / Referred to ENPO by HyD	Environmental (Air quality, Water quality and Other: Cleanliness problem at East Coast Road)	AAHK stated in their email to SOR on 25 February 2017 that there was sandimutely water accumulating along the water barriers at East Coast Road Southbound. AAHK also lodged a complaint to hyD, which HyD referred to ENPO on 1 March 2017 (received by ET on 2 March 2017). AAHK reported that the clearliness of East Coast Road remained unsatisfactory with dust all over the water barriers/traffic aids, and sands accumulating along the carriageway.	East Coast Road	During ET's observation on 3 and 13 March 2017, properly functioning wheel washing facilities were provided to vash all vehicles prior to leaving the site. The section of road between the wheel washing facilities and the site access (S25) was hard paved and no mud' sill was observed at the concerned road section and the site access. As the ground level of site boundary of HV2011(03 adjoining the East Coast Road is lower than that of East Coast Road, the possibility of muddy water seepage from S25 to East Coast Road is low Based on our investigation result, the complaint is unlikely to be related to Contract No. HV2011(103. Nevertheless, the Contractor has been reminded to strictly upkeap the proper practice of washing all vehicles leaving the site access (S25). Also, the Contractor has zeized the majority of the temporary traffic signs to a higher level to avoid muddy water splashing on them. Also, the temporary traffic signs will be cleaned regularly.	Closed	-
COM-2017-112	27 March 2017	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise and Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 28 March 2017 has EPD received a noise complaint lodged by a resident of Centrul Link on 27 March 2017. The complaint was about "影像" (e. 28 March 2017) 大约十野纪、BAY開教育并不管理会,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,但是国家政策的企业,是国家政策的企业,是国家政策的企业,是国家政策的企业,但是国家政策的企业,但是国家政策的企业,但是国家政策的企业,但是国家政策的企业,但是国家政策的企业的企业,但是国家政策的,但是国家政策的企业,但是国家政策的,但是国家政策的企业,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家政策的,但是国家,但是国家政策的,但是国家政策的,但是国家政策的,但是国家,但是国家政策的,但是国家政策的,但是国家政策的,但是国家,但是国家政策的,但是国家,但是国家政策的,但是国家政策的,但是国家,但是国家,但是国家,但是国家,但是国家,但是国家,但是国家,但是国家	Nil	Based on the information provided by the Contractor and our investigation, it was concluded that the Contractor had complied with the conditions laid down in CNPs No. GW-RS-1135-16 and GW-RS-0161-17 and that no non-compliance on variety regularly was found. It is considered that the complaint is unlikely related to Contract No. HY/2011/03. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions sipulated in the Construction Noise Permit for construction works undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours used using restricted hours as far as practicable; - inimimize the number of machinery and plant used during restricted hours as far as practicable; - switch off all unnecessary machinery and plant during restricted hours. The Contractor was also reminded to schedule, according to the predicted tides of the Hong Kong Observatory, their working vessels to travel to and from work site at high tide in order to reduce the sediment plume at shallow water areas.	Closed	·
COM-2017-113	20-Apr-17	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 20 April 2017 find EPP proceived a complaint on 19 April 2017 folded by a green group. The complaint was about "本庫XXXQ投訴指移澳大樓所將商於 2 0 1 5 年設置隔泥網的方向不當。產生污染。而屬片是由路及電提供,是真確圖片,本會網建模保署調查圖片中的情況,並對承辦商作出營告,以及要求承隸商準確放置現時的隔泥網,確保其雙重設計是有效。"	Portion X	Based on the information provided by the Contractor and ET's investigation, It was suspected that the concerned sit plume may be caused by sea current. There was no evidence that the concerned sit plume was caused by y	Closed	-
COM-2016-095(3)	27-May-17	Nii	SOR (HyD referred the email from Complainant to SOR)	Environmental (Noise)	It was noted from SOR's email to the Environmental Team and Contractor on 28 May 2017 that HyO received a complaint on 12 May 2017 lodged by a member of public. The complaint was about "Wed like to follow up on this case. Pls help take pictures & point out to us where your noise barriers are located. If those seen in the attached pics are so-called noise barriers, then we believe the contractor needs a lot of improvement in helping to reduce this noise pollution".	Near Dragonair/ CNAC (Group) Building (HKIA)	Upon the receipt of the compliant in May 2017, the Contractor had been instructed to immediately install additional noise barriers at the appropriate location and cover the breaker tip with acoustic materials as noise mitigation measure against the noise emission associated with the aforesaid construction activities. Moreover, the noise barriers have been located as close as possible to the noise source (rock breaking work). Also, gaps and openings at joints in the barrier material have been minimized. The rock breaking work was completed on 31 May 2017 and the rock breaking machine had been demobilized off site. According to information from Contractor, removal C&D materials will be carried out at the site near CAD and CNAC buildings in the future. As such, noise nuisance generated from a site will be minimized. Notwithstanding that, the Contractor has been reminded to implement noise mitigation measures on the site to minimize the potential noise implact. Based on our investigation result, it is considered that the complaint is likely related to Contract No. HY/2011/03. The Contractor has implemented the following measures to minimize the potential noise impact: - Additional noise barriers have been erected in the active working area to further mitigate the associated noise emissions as far as practicable; - Cover the breaker tip with acoustic material. - Noise barriers have been incated as close as possible to the noise source. Also, gaps and openings at joints in the barriers material have been minimized. - Minimize the quantities of noisy plant as far as practicable. - Regular review of working duration and switch off all unnecessary machinery and plant.	Closed	
COM-2016-095(4)	15-Aug-17	Nil	НуО	Environmental (Noise)	HyD received a complaint concerning the rock breaking works near CNAC Buildings, as described below: "I am writing to let you know re-captioned works interrupted seriously our staff daily office works. Understand the rock encountered was much stronger than the original expected, the rock tressing works near CNAC Tower has been never ending. Recently a buildozer is working nearby and no noise barriers/sound prod's were set up. Please take corrective action asap. Kindly advise us when this buildozing work is scheduled to complete."	Dragonair / CNAC	The major rock breaking works near CNAC Tower were substantially completed on 31 May 2017. However, survey record revealed that minor rock breaking trimming work was required at the formation level for the construction of box culvert no. PR14. Hence, the Contractor used a hydraulic breaked for minor rock breaking/trimming work in the afternoon on 15 August 2017. According to the photos provided by the complainant, movable noise barriers were not located near the noise source (nock breaking/trimming work). As such, noise generated by rock breaking/trimming work was not efficiently screened by the noise barriers. According to the Contractor's records and the photos provided by the complainant, no buildozer was used at PR14 on 15 August 2017. In addition, no buildozer was its scheduled a PR14 in lener future. ET conducted an investigation on 16 August 2017. The minor rock breaking/ rock trimming work was completed. Only one excavator was operating for forming the haul road at the concerned location. No significant noisy activity was observed during the investigation on 16 August 2017. Also, buildozer was not deserved on the site. Based on our investigation result, it was likely that concerned noise emission was due to the minor rock breaking/ trimming works by the hydraulic breaker. It is considered that the complaint is likely related to Contract No. HY2011/103. According to Contractor's information, no substantial rock breaking works will be conducted at near CNAC Tower. Only minor nosk breaking/ trimming work may be occasionally conducted at the concerned work area. The Contractor has been recommended to implement the following measures to minimize the potential noise impact when minor rock breaking/ trimming work may be occasionally conducted at the concerned work area. The Contractor has been recommended to implement the following measures to minimize the potential noise impact when minor rock breaking/ trimming work to be conducted: - Locate noise barriers as close as possible to the noise source. Also, g	Closed	

COM-2017-122	03-Oct-17	Nii Nii	1823 Integrated Call Centre received a complaint lodged by a member of the public on 30 September 2017. SOR referred the complaint details from 1823 - HyD to ET on 3 Oct 2017 ENIPO's email to the Supervising Officer's Representative and Contractor on 8. Left of the complaint of the public regarding cleanliness robbem at East Coast Road on 29 December 2017	(Other: Cleanliness problem at Tung Fai Road) Environmental	1823 Integrated Call Centre received a complaint lodged by a member of the public regarding deanliness problem at Tung Fai Road, as described below: "现5万术编山海角央琿路 11號港湖、建野出、巴士达附近、是港珠港大橋地盤其中一個出入口、經常有大量重型工程車稱進出地盤。每逢有巴士或重型車稱與經濟 路別多邊根已退"沙慶署",每候巴士的來客便遭殃,以府有灑水車噴水減低沙塵,現在灑水車部沒有出現。要求部門改善沙塵問題。" HyD received a complaint lodged by a member of the public regarding deanliness problem at East Coast Road on 29 December 2017. The complaint details are described below: 现5万人及市沃地山東北部、包足港港大地工作的。以26万人被市沃地山東北部、包足港港大地工作,只是向路面源水、令原本的沙里整成泥碛,但但沒沒有海球人地山東北部、包足港港大地工作,另外,为海坝是市的高海水平坝型、观量平坝、广山的沙港传机等出来的高海水平坝里等,或是中域市场地域、出来的车辆海水平坝里等,现40元的沙港传机等出来的东西港市场港港市的海港水平均上的沙港传机等出来的东西港市场港港市场港港市场港港市场港港市场港港市场港港市场港港市场港港市场港港市场	S16 East Coast Road	During the ET's inspection on 3 October 2017, it was observed that the Contractor did provide wheel washing facility with high pressure jets at the site access \$16 all Tung Fait Road to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debies would be brought to the public renal. I was also been well that the Contractor did provide water bowser to thoroughly clean Tung Fait Road. No mud was observed at the section of Tung Fait Road leading to the site access \$16 of Contract No. HYZ01103. Another inspection was conducted on 12 October 2017, the section of the road between the wheel washing facility and the site access \$16 was hard paved and no mudsilit was observed at the section of the road adverted washing facility with high pressure jets is provided at the site access \$16 to wash and and the mentioned bus stop, wheel washing facility with high pressure jets is provided at the site access \$16 to wash and clean all vehicles before allowing them to leave the construction site. No mud or debris would be brought to the public area. Therefore, there is no direct evidence showing that the complaint is related to Contract No. HYZ01103. Wheretheless in order to enhance dust suppression measures, the Contractor will increase the frequency of road cleaning by water bowser from three times per day to four times per day, subject to regular review with relevant stakeholders in the vicinity. Based on our investigation result, there is no direct evidence showing that the complaint is related to Contract No. HYZ01103. The Contractor has been reminded to implement the following measures to minimize dust impact improve cleanliness at East Coast Road: "manual control by rope stopping vehicles entering public road without wheel washing. - close monitor on the proper functioning of the road sweeper and water truck and provide maintenance to water truck and road sweeper properly for road washing. - close monitor on the proper functioning of the road sweeper and water truck	Closed	
COM-2018-132	13, 14 February 2018	Nil	HyD (SOR referred the email from HyD to Contractor and ET) and EPD (ENPO referred the	Dust, Water Quality, Construction Waste, Noise and vibration	The complaint was received from the SOR's email on 13 February 2018 with the following details: "We have witnessed increased construction activities causing concerns such as nuisance, air and water pollution, construction waste landfill which may cause health and safety to the surroundings. Nuisance – construction noise and vibration Air and Water Pollution – poor dust control causing air pollution.	Near Dragonair / CNAC (Group) Building	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. The Contractor has implemented Environmental Mitigation Implementation Schedule as per the EM&A Manual. Also, the Contractor was reminded to remove the concerned stockpile of the fill materials as soon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	•
			email from EPD to SOR, SOR sent the email to Contractor and ET)		Construction Waste Landfill Hill – increased height, size and degree of the slope of the construction waste landfill Moreover, we are particularly concerned with the stability of the construction waste landfill hill, and has grown taller and larger in size with steep slopes which may cause potential danger and hazardous to the surrounding area. It is appreciated that if you can investigate on the issue, and rectify the situation to a safe and healthy condition. Please confirm when and how the rectification will be completed. " Another complaint to EPD was received from the SDR's email on 14 February 2018. The complaint was the same as the abovementioned with two figures showing the location of Dragonair & CNAC (Group) Building and Cathay Dragon House.	(HKIA)			
Follow-ups of Complaint No COM- 2018-132	16 March 2018 and 21 March 2018	Nil	HyD (SOR referred the email from HyD to the Contractor and ET) and EPD (ENPO referred the email from EPD to SOR, who sent the email to the Contractor and ET)	Dust and Construction Waste,	The complaint of 16 March 2018 was addressed to HyD and its details were as follows: 1) It was observed from daily photos that: a. Inadequate dust suppression measures implemented. b. Green tarp does not cover the entire pile of the waste land fill. c. Dry soil constantly being observed, and constantly picked-up by strong gusty winds within CLK area. d. Large boulders and steep slopes on waste landfill, with inadequate safety measures implemented. 2) It was noted that the open stockpile of construction waste landfill will be removed by the end of March 2018. Please confirm the date of completion of the removal of the stockpile. 3) Please advise if the slope and setting of the piles of earth complies within Building and other relevant Regulations. 4) The works on the site should be within a valid gazetted period, please confirm if the works are within a valid gazette period, within CLK Lot No1 Land lease or otherwise." The complaint of 21 March 2018 was addressed to EPD and its details were as follows: 'Re: Large construction landfill waste outside Cathay Dragon House, CLK,	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. It was noted that no Action and Limit Level exceedances of 1-hr and 24-hr 159 were recorded at air monitoring station AMS6 - Dragonair Bulling during the period from 1 February 2018 to 30 April 2018. Part of the stockpile was observed dry during ET's site inspection on 27 March 2018. Proper watering on the stockpiles was observed understeam afterwards. The Contractor has been continuously reminded to properly implement Environmental Mitigation Measures as per the EM&A Manual. The Contractor was also reminded to remove the concerned stockpile of the fill materials as soon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	-
					We refer to your letter ref; [FE3/N09/RS00004678-18] dated 09 March 2018, would like to further draw your attention to the open stockypole of construction waste landfill, and the enclosed daily photo. We have continued to observe the following: - Inadequate dust suppression measures implemented. o Green tarp does not cover the whole of the waste landfill. o Dry soil constantly observed, and constantly picked-up strong gusty winds within CLK area Large boulders and and steep slopes on waste landfill, with inadequate safety measures implemented Poor housekeeping of the construction site. Fruthermore, we would like to raise the query regarding the validity period for the occupation of the site under the current gazette.				
COM-2018-142	29 June 2018 & 6 July 2018	Nii	EPD (ENPC) referred the email to SOR, Contractor and ET)	Noise	The complaint of 29 June 2018 was received from EPO and its details were as follows:- EPD have recently received a complaint regarding frequent noise from construction works next to Cathay Dragon House, facing Tung Chung direction. The complaint details are described as below: "We would like to raise your attention and forward a complaint regarding frequent noise from construction works next to our Cathay Dragon House, facing Tung Chung direction. From the video link below, it seems like the noise is mainly from the breaking of rocks using powered mechanical equipment. https://www.dropbox.com/s/654sf2p3op399s/JIMG_3137.MOV7d1=0 Our colleagues at Cathay Dragon House has complaint that such disturbance has been going on for a week and works are carried out throughout the whole day. Please advise whether: 1. Such noisy works have been carried out with EPD or Highways' "Approved Permit"; 2. The noise level have been limited by your permit; 3. Any regular monitoring works or report have been sent to your department. 4. When will the work/noise stops; Furthermore, 5. Mr Lai mentioned in your previous email 18 April 2018 that the works should have completed end April 2018. Why is the works still going on? 6. Mr Lo mentioned in the letter dated 11 April 2018, you would conduct site inspections. Have you noticed any non-compliance? 7. The compliance? 8. Mr Lo mentioned in the letter dated 11 April 2018, you would conduct site inspections. Have you noticed any non-compliance? 8. Mr Lo mentioned in the letter dated 11 April 2018, you would conduct site inspections.	Near / Dragonair / CNAC (CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. The Contractor has implemented Environmental Mitigation implementation Schedule as per the EM&A Manual, such as cover the breaker by with muffler, minimize the quantities of noisy plant as far as practicable. Although the rock breaking works outside the Cathay Dragon Housef Dragonair & CNAC (Group) Building were completed on 9 July 2018, the Contractor has been continuously reminded to properly implement Environmental Mitigation Measures as per the EM&A Manual to minimize the potential noise nuisance caused to the public/ surrounding.	Closed	

				"A further complaint was received on 6 July 2018 from EPD and its details were as follows:- "Further to our previous complaints which are in vain, we would like to continue to put forward the complaint against t				
				noise from the construction works next to Cathay Dragon House at CLK, which has never been ceased and been causin great disturbance to the accommodations (aviation control centre) and staff within our Cathay Dragon building and CNAC tower. Below is the time schedule our staff regarding the noise disturbance from the site which is frequent and continuous.	9			
				Date Time 3 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm 4 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm 5 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm				
				Please advise what has been your action upon this matter. This has been intolerable for months. If there is nothing tha your depts., can impose to stop the disturbance, we may need to seek other alternative complain channel.	t			
				Your immediate action on this matter is highly appreciated."				
				"We would like to get your urgent attention to the noise nuisance matters that is occurring outside Cathay Dragon Hou (facing seaside Tung Chung). There have been extreme noisy works conducted, without proper noise mitigation matter with noise DB everis reaching 70-1008b, and is seriously affecting our company operations.	se ,			
				Please urgently attend to the matter and advise further on the email below, and implement the proper noise reducing and mitigation procedures.				
COM-2018-158	24-Dec-18	the ema Contrac IEC/EN		Other: Intercept of the details of the complaint were as follows: Instruction work. Sunday Morning Flow come someone is doing some construction work on sunday morning (23/12/18, 10:30am)??? Looks like your christnas holidays; joing to turn into an investigation holiday!!! Looking forwards to hearing from you? I am sure Day will be more than happy to assist your investigation over the holidays!!"	N.A.	Based on our investigation result, the concerned work activity complied with the valid CNP. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Noise Permit for construction works undertaken during restricted hours.	Closed	
				Email received by HyD on 23 December 2018 at 11:11 hrs "by the way have you issue a "permit to annoy people" based on merit to operate a crane this sunday? If not I am looking forwards to know the action you will take. Don't esitate to contact Chief Lam he will surely be very happy to provide any assistance you need to find out who is the rogue employee working under him so you can take the necessary local action."				
N/A	03-Apr-19	the ema HyD, S and ET	ENPO referred nail from EPD to SOR, Contractor T) through email	Dust Email received by EPO on 3 April 2019 "投系人表示或理解非互称通路法》,也是这个是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	N.A.	Based on our investigation result, there is no observation of dust emissions arising from the Contract No. HY/2011/03. The Contractor has implemented the Environmental Miligation Implementation Schedule as per the EM&A Manual, the Contractor has been remementation Schedule as per the EM&A Manual, the Contractor has been remembed to strictly maintain the dust miligation measures during carrying out of their construction works to minimize the dust nuisances to nearby sensitive receivers.		•
COM-2019-163	30-Apr-19	of comp Contrac	referred details plaint to actor, ET and NPO through	Waste The details of the complaint were as follows: "rubbish and refuse pile up by the road near a bus stop breeding numerous flies and pests. huge annoyance and hygiene problem to the public. pls clean up."	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, there was no observation of works in the area of complaint on issue of general refuse arising from the Contract N+ NYZO11/03. The Contractor has implemented the Environmental Miligiation implementation Schedule as per the EM&A Manual, the Contractor has been reminded to strictly maintain waste management procedures during their construction works to avoid the hygiene impacts to nearby sensitive receivers.	Closed	٠
COM-2020-165	18-Mar-20	refer cc Contr IEC/E	ne "1823" (SOR prred details of complaint to tractor, ET and ENPO through email)	Waste The details of the complaint were as follows:- "Rubbish are found along the landscape area at Tung Yiu Road. Dear 1823 officer, Regarding the captioned case, I have previously made my complaint to the Airport Authority (AA) of the subject. Yet, AA advises that the concerned area at Tung Yiu Road is not managed by the AA and suggests me to contact 1823 for follow up."	area at Tung Yiu Road/ n S16	Based or our investigation result, there was no observation of works in the area of complaint on issue of general refuse siring from the Contract No. HYZO1103. The Contractor No. Implemented the Environmental Miligration Implementation Schedule as ger the EM&A Manual, the Contractor has been reminded to strictly maintain waste management procedures during their construction works to avoid the hygiene impacts to nearby sensitive receivers.		
COM-2022-166	28-Jun-22	refer co Contr	D (IEC/ENPO orred details of complaint to tractor, ET and through email)	Waste The details of the complaint were as follows:- ************************************	通	Based on our investigation result, there was no observation of works in the area of complaint on issue of general refuse arising from the Contract N+ N+V2D11/03. The Contractor has implemented the Environmental Miligiation implementation Schedule as per the EM&A Manual, the Contractor has been reminded to strictly maintain waste management procedures during their construction works to avoid the hygiene impacts to nearby sensitive receivers.	Closed	-

APPENDIX L

Environmental Licenses and Permits

Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section Between Scenic Hill And Hong Kong Boundary Crossing Facilities License & Permit Register



Summary of Environmental Licences and Permits Application and Status

Environmental Permit

Date Application Submitted	Status	Date EP Issued	EP No.	EP Holder	Expiry Date
04.12.2014	VEP issued	22.12.2014	EP-352/2009/D	Highways Department	N/A
24.03.2016	VEP Issued	11.04.2016	EP-353/2009/K	Highways Department	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
25.05.2012	345690	01.06.2012	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation Form NB

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
31.07.2015	391702	31.07.2015	N/A

Billing Account for Disposal of Construction Waste

Date Application Submitted	Account No	Valid Since	Expiry Date
01.06.2012	7015313	27.06.2012	N/A

Chemical Waste Producer Registration

Date Registration Submitted	Waste Producer No.	Date Registration Issued	Major Waste Type	Expiry Date
20.06.2012	5213-950-C1169-43	12.07.2012	Spent lubricating oil, spent flammable liquid (diesel), surplus paint, spent organic solvent and their containers, spent batteries, soil containing mineral oil	N/A

Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section Between Scenic Hill And Hong Kong Boundary Crossing Facilities License & Permit Register



Wastewater Discharge License

Item No.	Date Application Submitted	Area Applied	Status	Expiry Date
1	22.06.2012	Site Office for Supervising Officer (WA6)	Application Ref. No. 346651 Letter from the EPD (Ref: EP/RS/0000346267) dated 19.07.2012 confirming that license under WPCO is not required.	N/A
2	02.08.2017	Site Office for China States (WA6)	Application Ref. No. 419562 Water Discharge License WT00029546-2017 was granted on 13 Nov 2017	N/A
3	04.01.2018	WA 3	Application Ref No.356237 Water Discharge License Ref. WT00030320-2018 was surrendered on 10 Jan 2020	N/A
4	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was surrendered on 24 May 2018	N/A
5	04.01.2018	Airport Road (Southern)	Application Ref No. EP/RS/0000354266 Water discharge license Ref. WT00032071-2018 was granted on 23 Oct 2018.	Valid until 30.04.2023
6	04.01.2018	Airport Road (Northern)	Application Ref No. EP/RS/0000354018 Water discharge license Ref. WT00031778-2018 was granted on 23 Oct 2018.	Valid until 30.04.2023
7	10.03.2017	WA7	Application Ref. No. 414487 Water Discharge License Ref. WT00027958-2017 was surrendered on 01 Feb 2018	N/A

Construction Noise Permit

Item	Date					Validity of CNP	
No.	Application Submitted	Works Area Applied	Description	Status	CNP No.	From	То
1	01.12.2022	All Works Area	All Works	CNP issued on 16.12.2022	GW-RS1102-22		16.06.2023 2300 hrs

APPENDIX M

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?	Implementation Status
Air Quality	,					ı	II.
S5.5.6.1	A1	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	V
\$5.5.6.2	A2	 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	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	
\$5.5.6.2	A2	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; Any skip hoist for material transport should be totally enclosed by impervious sheeting;	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	√

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?	Implementation Status
\$5.5.6.2	A2	 The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; 	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	
\$5.5.6.2	A2	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

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?	Implementation Status
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	V
S5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria Throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√
S5.5.71	A6	 The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/ pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. 	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	1

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?	Implementation Status
\$5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points.	Control construction dust	Contractor	All construction sites	Construction stage	√
Noise							
S6.4.10	N1	 Use of good site practices to limit noise emissions by considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	√

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?	Implementation Status
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	٧
S6.4.12	N3	Install movable noise barriers (typically density @ 14kg/m²), 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	٧
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	V
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	V
	N6	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	٧
Waste Man (Constructi	agement ion waste)						
S8.3.8	WM1	Construction and Demolition Material The following mitigation measures should be implemented in handling the waste: • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;	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	V

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?	Implementation Status
		 Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005. Environmental Management on Construction Sites. to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation. 					
S8.3.9 - S8.3.11	WM2	Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

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?	Implementation Status
\$8.2.12- \$8.3.15	WM3	 Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	√

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?	Implementation Status
S8.3.16	WM4	Sewage Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	√
S8.3.17	WM5	General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	V

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?	Implementation Status
Water qualit (Construction Phase)			I				
\$9.11.1- \$9.11.1.2	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 filling work, as well as protection measures. Details of the measures are provided below and summarised in the Environmental Mitigation Implementation Schedule in EM&A Manual. Construction of seawalls to be advanced by at least 100-200m before the filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TMCLKL northern reclamation; -TMCLKL southern reclamation (after formation of the nips); - Reclamation filling for Portion 1 of HKLR.	To control construction water quality	Contractor	During seawall filling	Construction stage	√
\$9.11.1- \$9.11.1.2	W1	Single layer silt curtains will be applied around all works; Silt curtain shall be fully maintained throughout the works.	To control construction water quality	Contractor	During seawall filling	Construction stage	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?	Implementation Status
\$9.11.1- \$9.11.1.2	W1	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; barges shall have tight fitting seals to their bottom openings to prevent leakage of material; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	To control construction water quality	Contractor	During seawall filling	Construction stage	1
\$9.11.1.3	W2	Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;	To control construction water quality	Contractor	During seawall filling	Construction stage	√ ·

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?	Implementation Status
S9.11.1.3	W2	 sewage effluent and discharges from on-site kitchen facilities shall be directed to Governmen sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimen basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grishall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washou of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones should always be adequately covered and temporarily sealed so as to prevent silt construction materials or debris from getting into the drainage system, and to prevent storm run-of from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	t water quality of of of of of of of of of o	Contractor	During seawall filling	Construction stage	

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?	Implementation Status
S9.11.1.3	W2	 all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/ grease traps prior to discharge to the stormwater system. 	To control construction water quality	Contractor	During seawall filling	Construction stage	
S9.14	W3	Implement a water quality monitoring programme	Control water quality	Contractor	At identified monitoring location	During construction	V

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?	Implementation Status
Ecology (Construction	n Phase)	I	1		-1	
S10.7	E1	Good site practices to avoid runoff entering woodland habitats in Scenic Hill; Reinstate works areas in Scenic Hill; Avoid stream modification in Scenic Hill.	Avoid potential disturbance on habitat of Romer.s Tree Frog in Scenic Hill	Designer; Contractor	Scenic Hill	During construction	√
S10.7	E2	Install silt curtain during the construction; Construct seawall prior to reclamation filling where practicable; Good site practices; Site runoff control; Spill response plan.	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	Р
S10.7	E4	Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater.	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	√
S10.7	E5	Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time.	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	V
S10.7	E6	Dolphin Exclusion Zone;Dolphin watching plan.	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	V
S10.7	E7	Decouple compressors and other equipment on working vessels; Avoidance of percussive piling; Marine underwater noise monitoring; Temporal suspension of drilling bored pile casing in rock during peak dolphin calving season in May and June; Handling with care for the installation of sheet piling for reclamation site.	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√

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?	Implementation Status
S10.7	E8	 Control vessel speed; Skipper training; Predefined and regular routes for working vessels; avoid Brothers Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	V
S10.10	E9	Dolphin vessel monitoring;	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	V
Fcology ((Operation P	Mudflat ecological monitoring. Masel					√
	•	•	Lance				1
S10.7	E10	Preconstruction dive survey for corals	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR reclamation site	Prior to marine construction works in these locations	V
Fisheries							
S11.7	F2	 Reduce re-suspension of sediments Good site practices Spill response plan 	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	V
S11.7	F3	Install silt-grease trap in the drainage system collecting surface runoff	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	V
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	√

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?	Implementation Status
Landscape (Detailed De		е)				•	
S14.3.3.1	LV1	 General design measures include: Roadside planting and planting along the edge of the reclamation is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually sensitive locations; Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; Considering the decorative urban design elements for HKLR, e.g. decorative road lightings; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; Providing planting area around peripheral of HKLR for tree planting screening effect. Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment (refer to Figure 14.4.3). 	Minimise visual & landscape impact	Detailed designer	HKLR	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?	Implementation Status
Landscape	e & Visual ((Construction Phase)	l				
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic. G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment. G4. Not Applicable. G5 Vegetation reinstatement and upgrading to disturbed areas. G6. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed. G7. Provide planting area around peripheral of and within HKLR for tree screening buffer effect. G8. Plant salt tolerant native tree and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt .natural-look by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance .natural-look. of the new coastline (see Figure 14.4.2 for example).		Contractor	HKLR	Construction stage	
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKLR construction.					

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?	Implementation Status
EM&A							
S15.5 - S15.6	EM2	An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	√

Legends:
√ Implemented
X Not Implemented
P Partially Implemented
N/A Not Applicable

APPENDIX N

Record of "Notification of Summons and Prosecutions

Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A



APPENDIX O

Location of Works Areas

