

China Harbour Engineering Company Limited

Contract No. HY/2010/02

Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for July 2016

[08/2016]

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Version:	Rev. 0	Date:	12 August 2016	
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Disclaimer

This report is prepared for China Harbour Engineering Company Limited and is given for its sole benefit in relation to and pursuant to Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Reclamation Works and may not be disclosed to, quoted to or relied upon by any person other than China Harbour Engineering Company Limited without our prior written consent. No person (other than China Harbour Engineering Company Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and China Harbour Engineering Company Limited Engineering Company Limited and China Harbour Engineering Company Limited and China Harbour Engineering Company Limited may not rely on it for any purpose other than as described above.

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12 August 2016

By Fax (3698 5999) and By Post

Ove Arup & Partners Chief Resident Engineer's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong

Attention: Mr. Paul Appleton

Dear Sir,

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

Contract No. HY/2010/02 – HZMB HKBCF – Reclamation Works Monthly Environmental Monitoring & Audit Report for July 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for July 2016 certified by the ET Leader (ET's ref.: "60249820/C/RMKY16081201" dated 12 August 2016) and provided to us via e-mail on 12 August 2016.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of EP- 353/2009/K and Condition 4.4 of EP-354/2009/D (for TM-CLKL Southern Landfall Reclamation only).

As per Condition 1.7 of EPs, please be reminded to keep in view on the site condition, in particular on the integrity of the perimeter silt curtain and the effectiveness of perimeter drainage facilities with your on-going surveillance and monitoring and to further update/notify ENPO and EPD, from time to time and prior to each further removal of other section(s) of the perimeter silt curtains.

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

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

Raymond Dai Independent Environmental Checker Hong Kong Link Road

HyD HyD

AECOM

CHEC

c.c.

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Mr.	Wai-Ping Lee
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EXECUTIVE SUMMARY

Contract No. HY/2010/02 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL). It is a designated Project and is governed by the current permits for the Project, i.e. the amended Environmental Permits (EPs) issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).

China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.

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

AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the environmental monitoring and audit (EM&A) works.

The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017. The EM&A programme, including air quality, noise, water quality and dolphin monitoring and environmental site inspections, was commenced on 12 March 2012.

This report documents the findings of EM&A works conducted in the period between 1 and 31 July 2016. As informed by the Contractor, major activities in the reporting period were:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour Total Suspended Particulates (TSP) monitoring	5 sessions
1-hour TSP monitoring	5 sessions
Noise monitoring	4 sessions
Impact water quality monitoring	13 sessions
Impact dolphin monitoring	2 surveys
Joint Environmental site inspection	4 sessions

For impact air quality monitoring, no exceedance of 1-Hour TSP or 24-Hour TSP was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Noise

For construction noise monitoring, no exceedance was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Water Quality

For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Impact Dolphin Monitoring

For dolphin monitoring, a total of 2 sightings were made, one "on effort" and one "opportunistic". All sighting was recorded on the 18 July 2016. The first group sighted on the 18 July 2016 contained 9 individuals that were engaged in feeding behavior, the second comprised 3 individuals and was travelling. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.

Complaint, Notification of Summons and Successful Prosecution

1 complaint about marine litter near Tuen Mun Ferry Pier was received on 16 Jul 2016, 9:19am. The complainant complained that pollution was observed at Tuen Mun Ferry Pier and queried whether the pollutant came from the construction sites of the Lantau area or bridge construction. After investigation, it is considered the marine litter floating near the Tuen Mun Ferry Pier is unlikely to be related to this Contract

No notification of summons or prosecution was received in the reporting period.

Reporting Change

No reporting change in the reporting month.

Future Key Issues

Key issues to be considered in the coming month included:

- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
- Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
- Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic:
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures for operating equipment and machinery on-site, such as erection of movable noise barriers or enclosure for noisy plants;
- Closely check and replace the sound insulation materials regularly;
- Better scheduling of construction works to minimize noise nuisance;
- Properly store and label oil drums and chemical containers placed on site;
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved and confined areas;
- Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.
- Control night-time lighting and glare by hooding all lights.



- Regular review and provide maintenance to dust control measures such as sprinkler system.

1 INTRODUCTION

1.1 Background

- 1.1.1 Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL).
- 1.1.2 The environmental impact assessment (EIA) reports (Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities EIA Report (Register No. AEIAR-145/2009) (HKBCFEIA) and Tuen Mun Chek Lap Kok Link EIA Report (Register No. AEIAR-146/2009) (TMCLKLEIA), and their environmental monitoring and audit (EM&A) Manuals (original EM&A Manuals), for the Project were approved by Environmental Protection Department (EPD) in October 2009.
- 1.1.3 EPD subsequently issued the Environmental Permit (EP) for HKBCF in November 2009 (EP-353/2009) and the Variation of Environmental Permit (VEP) in June 2010 (EP-353/2009/A), November 2010 (EP-353/2009/B), November 2011 (EP-353/2009/C), March 2012 (EP-353/2009/D), October 2012 (EP-353/2009/E), April 2013 (EP-353/2009/F), August 2013 (EP-353/2009/G), January 2015 (EP-353/2009/H), July 2015 (EP-353/2009/I), February 2016 (EP-353/2009/J) and April 2016 (EP-353/2009/K). Similarly, EPD issued the Environmental Permit (EP) for TMCLKL in November 2009 (EP-354/2009) and the Variation of Environmental Permit (VEP) in December 2010 (EP-354/2009/A), January 2014 (EP-354/2009/B), December 2014 (EP-354/2009/C) and March 2015 (EP-354/2009/D).
- 1.1.4 The Project is a designated Project and is governed by the current permits for the Project, i.e. the amended EPs issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).
- 1.1.5 A Contract Specific EM&A Manual, which included all Contract -relation contents from the original EM&A Manuals for the Contract, was issued in May 2012.
- 1.1.6 Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).
- 1.1.7 China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.
- 1.1.8 Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.
- 1.1.9 AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the EM&A works.
- 1.1.10 The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017.
- 1.1.11 According to the Contract Specific EM&A Manual, there is a need of an EM&A programme including air quality, noise, water quality and dolphin monitoring and environmental site inspections. The EM&A programme of the Contract commenced on 12 March 2012.

1.2 Scope of Report

1.2.1 This is the fifty third monthly EM&A Report under the Contract No.HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in July 2016.





1.3 Contract Organization

1.3.1 The Contract organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Party	Position	Name	Telephone	Fax
Engineer's Representative (ER)	Chief Resident Engineer	Paul Appleton	3698 5889	2698 5999
(Ove Arup & Partners Hong Kong Limited)			3030 3003	2030 3333
IEC / ENPO	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
(Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3547 2133	3465 2899
Contractor (China Harbour	Environmental Officer	Louie Chan	3693 2254	2578 0413
Engineering Company Limited)	24-hour Hotline	Alan C.C. Yeung	9448 0325	
ET				
(AECOM Asia Company Limited)	ET Leader	Echo Leong	3922 9280	2317 7609

Table 1.1 Contact Information of Key Personnel

1.4 Summary of Construction Works

- 1.4.1 The construction phase of the Project under the EP commenced on 12 March 2012.
- 1.4.2 As informed by the Contractor, details of the major works carried out in this reporting period are listed below:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

- 1.4.3 The 3-month rolling construction programme of the Contract is shown in Appendix B.
- 1.4.4 The general layout plan of the Contract site showing the detailed works areas is shown in Figure 1.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise, water quality, marine ecology and environmental site inspections for air quality, noise, water quality, waste management, marine ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting month and forthcoming month;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA reports; and
 - Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

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

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 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

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

2.3 Monitoring Locations

- 2.3.1 Monitoring locations AMS2 and AMS7 were set up at the proposed locations in accordance with Contract Specific EM&A Manual. For AMS6 (Dragonair/CNAC (Group) Building), permission on setting up and carrying out impact monitoring works was sought, however, access to the premise has not been granted yet on this report issuing date. For monitoring location AMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 It was observed that a tree near AMS3B may affect the wind flow around the HVS located at AMS3B. With no further comment received from IEC, the HVS at AMS3B has been relocated on 8 September 2014 to slightly more than 2 meters separation from it, measured horizontally. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.3 Reference is made to ET's proposal of the omission of air monitoring station (AMS 6) dated on 1 November 2012 and EPD's letter dated on 19 November 2012 regarding the conditional approval of the proposed omission of air monitoring station (AMS 6) for Contract No. HY/2010/02. The aforesaid omission of Monitoring Station AMS6 is effective since 19 November 2012.
- 2.3.4 The impact air quality monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Company Limited) has been relocated to AMS7 (Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The impact air quality monitoring was conducted at AMS7 (Hong Kong SkyCity Marriott Hotel) since January 2016, action Level for air quality, as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel has been adopted for this air quality monitoring location.



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities – Reclamation WorksMonthly EM&A Report for July 20162.3.5Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description
AMS2	Tung Chung Development Pier	Rooftop of the premise
AMS3B	Site Boundary of Site Office Area at Works Area WA2 On ground at the area bou	
AMS6*	Dragonair/CNAC (Group) Building	On ground at boundary of the premise
AMS7	Hong Kong SkyCity Marriott Hotel	On ground at boundary of the premise

[#]Remarks: Reference is made to EPD conditional approval of the omission of air monitoring station (AMS 6) for the Contract. The omission will be effective on 19 November 2012.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 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) No two samplers should be placed less than 2 meters apart.
 - (iii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iv) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (v) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
 - (vi) No furnace or incinerator flues nearby.
 - (vii) Airflow around the sampler was unrestricted.
 - (viii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (ix) A secured supply of electricity was obtained to operate the samplers.
 - (x) The sampler was located more than 20 meters from any dripline.
 - (xi) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xii) 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 aluminum 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 (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hrs, 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 E.

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 continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
 - (ii) 1-hour validation checking of the TSP meter against HVS is carried out on half-year basis at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for air quality monitoring in July 2016 is provided in Appendix F.

2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

 Table 2.4
 Summary of 1-hour TSP Monitoring Results in the Reporting Period

	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	71	66-76	374	500
AMS3B	72	68-76	368	500
AMS7	72	67-77	370	500

 Table 2.5
 Summary of 24-hour TSP Monitoring Results in the Reporting Period

	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
AMS2	15	9-19	176	260
AMS3B	16	7-25	167	260
AMS7	28	23-35	183	260

- 2.7.2 The event action plan is annexed in Appendix L.
- 2.7.3 Meteorological information collected from the wind station during the monitoring periods on the monitoring dates, as shown in Figure 2, including wind speed and wind direction, is annexed in Appendix H.

3 NOISE MONITORING

3.1 Monitoring Requirements

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

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter 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 is given in Table 3.1.

Table 3.1Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 & B&K2238
Acoustic Calibrator	Rion NC-73 & B&K 4231

3.3 Monitoring Locations

- 3.3.1 Monitoring locations NMS2 was set up at the proposed locations in accordance with Contract Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact noise monitoring was conducted at site boundary of the site office area in Works Area WA2 (NMS3B) respectively. Same baseline noise level (as derived from the baseline monitoring data recorded at Ho Yu College) and Limit Level were adopted for this alternative noise monitoring location.
- 3.3.2 Figure 2 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

 Table 3.2
 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
NMS2	Seaview Crescent Tower 1	Free-field on the rooftop of the premise
NMS3B	Site Boundary of Site Office Area at Works Area WA2	Free-field on ground at the area boundary.

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 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). L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

- 3.5.1 Monitoring Procedure
 - (a) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NMS2. A correction of +3 dB(A) shall be made to the free field measurements.
 - (b) All measurement at NMS3B were free field measurements in the reporting month at NMS3B. A correction of +3 dB(A) shall be made to the free field measurements.
 - (c) The battery condition was checked to ensure the correct functioning of the meter.
 - (d) 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.
 - (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - (f) 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.
 - (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
 - (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.5.2 Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
 - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in July 2016 is provided in Appendix F.



3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq} (30 mins)
NMS2	66	65-67*	75
NMS3B	67	66-68*	70/65^

Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

*+3dB(A) Façade correction included

^ Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

- 3.7.2 No Action or Limit Level Exceedance of construction noise was recorded in the reporting month.
- 3.7.3 Other major noise sources during the noise monitoring included construction activities of the Contract, construction activities by other contracts and nearby traffic noise. Nonetheless, the Contractor of Contract No.HY/2010/02 was reminded to continue to properly implement all noise mitigation measures.
- 3.7.4 The event action plan is annexed in Appendix L.

4 WATER QUALITY MONITORING

4.1 Monitoring Requirements

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

4.2 Monitoring Equipment

4.2.1 Table 4.1 summarises the equipment used in the impact water quality monitoring programme.

 Table 4.1
 Water Quality Monitoring Equipment

Equipment	Brand and Model
Dissolved Oxygen (DO) and Temperature Meter, Salinity Meter and Turbidity Meter	YSI Model 6820
pH Meter	YSI Model 6820 or Thermo Orion 230A+
Positioning Equipment	JRC DGPS 224 Model JLR-4341 with J-NAV 500 Model NWZ4551
Water Depth Detector	Eagle Cuda-168 and 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 4.2 summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

 Table 4.2
 Impact Water Quality Monitoring Parameters and Frequency

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

4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, twenty-one stations (9 Impact Stations, 7 Sensitive Receiver Stations and 5 Control/Far Field Stations) were designated for impact water quality monitoring. The nine Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the seven Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the five Control/ Far Field Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.
- 4.4.2 Due to safety concern and topographical condition of the original locations of SR4 and SR10B, alternative impact water quality monitoring stations, naming as SR4 (N) and SR10B (N), were adopted, which are situated in vicinity of the original impact water quality monitoring stations (SR4 and SR10B) and could be reachable.
- 4.4.3 Same baseline and Action Level for water quality, as derived from the baseline monitoring data recorded, were adopted for these alternative impact water quality monitoring stations.
- 4.4.4 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that a few impact water quality monitoring stations of this Contract will be enclosed by temporary works boundary of 3RS project, as such alternation on the water quality monitoring stations of this Contract will tentatively be proposed in next reporting month.
- 4.4.5 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
SR5	Sensitive receivers (Artificial Reef in NE Airport)	811489	820455
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A	Sensitive receivers (Ma Wan FCZ)1	823741	823495
SR10B(N)	Sensitive receivers (Ma Wan FCZ)2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992

 Table 4.3
 Impact Water Quality Monitoring Stations



Station	Description	East	North	
CSA	Control Station	818103	823064	

4.5 Monitoring Methodology

- 4.5.1 Instrumentation
 - (a) The in-situ water quality parameters, viz. dissolved oxygen, temperature, salinity, turbidity and pH, were measured by multi-parameter meters (i.e. Model YSI 6820 CE-C-M-Y) and pH meter (i.e. Thermo Orion 230A+) respectively.
- 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, mid-depth 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 highdensity polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
 - (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

Table 4.4Laboratory Analysis for Suspended Solids

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

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

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

4.6 Monitoring Schedule for the Reporting Month

4.6.1 The schedule for impact water quality monitoring in July 2016 is provided in Appendix F.

4.7 Results and Observations

4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.

Table 4.5	Summary of Water Quality Exceedances
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Station	Exceedance Level	DO (S&M)	DO (B	ottom)	Tur	bidity		SS	Т	otal
	20101	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action	0	0	0	0	0	0	0	0	0	0
155	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)6	Action	0	0	0	0	0	0	0	0	0	0
13(1011)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
157	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	0	0	0
130	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)9	Action	0	0	0	0	0	0	0	0	0	0
13(1011)9	Limit	0	0	0	0	0	0	0	0	0	0
IS10	Action	0	0	0	0	0	0	0	0	0	0
1310	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)11	Action	0	0	0	0	0	0	0	0	0	0
13(101)11	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)16	Action	0	0	0	0	0	0	0	0	0	0
13(101)10	Limit	0	0	0	0	0	0	0	0	0	0
IS17	Action	0	0	0	0	0	0	0	0	0	0
1317	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0
313	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
3K4(IN)	Limit	0	0	0	0	0	0	0	0	0	0
SR5	Action	0	0	0	0	0	0	0	0	0	0
363	Limit	0	0	0	0	0	0	0	0	0	0
SDC	Action	0	0	0	0	0	0	0	0	0	0
SR6	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	0	0	0
381	Limit	0	0	0	0	0	0	0	0	0	0
SD104	Action	0	0	0	0	0	0	0	0	0	0
SR10A	Limit	0	0	0	0	0	0	0	0	0	0



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Station	Exceedance Level	DO (S&M)	DO (B	ottom)	Tur	bidity		SS	Т	otal
	Level	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
SR10B	Action	0	0	0	0	0	0	0	0	0	0
(N)	Limit	0	0	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	0	0		0
	Limit	0	0	0	0	0	0	0	0		0

Note: S: Surface; and

M: Mid-depth.

4.7.2 No exceedance was recorded at all monitoring stations in the reporting month.

4.7.3 The event action plan is annexed in Appendix L.

5 DOLPHIN MONITORING

5.1 Monitoring Requirements

- 5.1.1 Vessel based surveys for the Chinese White Dolphin (CWD), *Sousa chinensis,* are to be conducted by a dedicated team comprising a qualified marine mammal ecologist and experienced marine mammal observers (MMOs). The purpose of the surveys are to evaluate the impact of the HKCBF reclamation and, if deemed detrimental, to take appropriate action as per the EM&A manual.
- 5.1.2 This 'Impact Monitoring' follows several months of 'Baseline Monitoring' so similar survey methodologies have been adopted to facilitate comparisons between datasets. Further, the data collected are compatible with, and are available for, incorporation into the data set managed by the Agriculture, Fisheries and Conservation Department (AFCD) as part of Hong Kong's long term Marine Mammal Monitoring Programme.

5.2 Monitoring Equipment

Table 5.1 summarises the equipment used for the impact dolphin monitoring.

Table 5.1 Dolphin Monitoring Equipment

Equipment	Model
Commercially licensed motor vessel	15m in length with a 4.5m viewing platform
Global Positioning System (GPS) x2	Integrated into T7000
	Garmin GPS Map 76C
Computers (T7000 Tablet, Intel Atom)	Windows 7/MSO 13
	Logger
Camera	Nikon D7100 300m 2.8D fixed focus
	Nikon D90 80-400mm zoom lens
Laser Rangefinder	Range Finder Bushnell 1000m
Marine Binocular x3	Nexus 7 x 50 marine binocular with compass
	and reticules
	Fujinon 7 x 50 marine binocular with compass
	and reticules

5.3 Monitoring Frequency and Conditions

- 5.3.1 Dolphin monitoring is conducted twice per month in each survey area.
- 5.3.2 Dolphin monitoring is conducted only when visibility is good (e.g., over 1km) and the sea condition is at a Beaufort Sea State of 4 or better.
- 5.3.3 When thunder storm, black rain or typhoon warnings are in force, all survey effort is stopped.

5.4 Monitoring Methodology and Location

- 5.4.1 The impact dolphin monitoring is vessel-based and combines line-transect and photo-ID methodology. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as:
- 5.4.2 Northeast Lantau survey area; and
- 5.4.3 Northwest Lantau survey area.
- 5.4.4 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that transect lines of this Contract will be enclosed by temporary works boundary of 3RS project, as such alternation of the transect lines of this Contract will tentatively be proposed in next reporting month.



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities – Reclamation WorksMonthly EM&A Report for July 20165.4.5The co-ordinates for the transect lines and layout map have been provided by AFCD and are shown in Table 5.2 and Figure 4.

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Table 5.2

Monthly EM&A Report for July 2016 Impact Dolphin Monitoring Line Transact Co-ordinates (Provided by AECD)

	able 5.2 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)						
	HK Grid System		Long Lat in WGS84				
ID	X	Y	Long	Lat			
1	804671	815456	113.870287	22.277678			
1	804671	831404	113.869975	22.421696			
2	805475	815913	113.878079	22.281820			
2	805477	826654	113.877896	22.378814			
3	806464	819435	113.887615	22.313643			

1	004071	010400	113.070207	22.211010
1	804671	831404	113.869975	22.421696
2	805475	815913	113.878079	22.281820
2	805477	826654	113.877896	22.378814
3	806464	819435	113.887615	22.313643
3	806464	822911	113.887550	22.345030
4	807518	819771	113.897833	22.316697
4	807518	829230	113.897663	22.402113
5	808504	820220	113.907397	22.320761
5	808504	828602	113.907252	22.396462
6	809490	820466	113.916965	22.323003
6	809490	825352	113.916884	22.367128
7	810499	820880	113.926749	22.326757
7	810499	824613	113.926688	22.360464
8	811508	821123	113.936539	22.328966
8	811508	824254	113.936486	22.320900
<u> </u>	812516	821303	113.936466	22.337241
9	812516	824254	113.946279	22.357255
10*	813525	820827	113.956112	22.326321
10*	813525	824657	113.956066	22.360908
11	814556	818853	113.966155	22.304858
11	814556	820992	113.966125	22.327820
12	815542	818807	113.975726	22.308109
12	815542	824882	113.975647	22.362962
13	816506	819480	113.985072	22.314192
13	816506	824859	113.985005	22.362771
14	817537	820220	113.995070	22.320883
14	817537	824613	113.995018	22.360556
15	818568	820735	114.005071	22.325550
15	818568	824433	114.005030	22.358947
16	819532	821420	114.014420	22.331747
16	819532	824209	114.014390	22.356933
17	820451	822125	114.023333	22.338117
17	820451	823671	114.023317	22.352084
18	821504	822371	114.033556	22.340353
18	821504	823761	114.033544	22.352903
19	822513	823268	114.043340	22.348458
19	822513	824321	114.043331	22.357971
20	823477	823402	114.052695	22.349680
20	823477	824613	114.052686	22.360610
21	805476	827081	113.877878	22.382668
21	805476	830562	113.877811	22.414103
22	806464	824033	113.887520	22.355164
22	806464	829598	113.887416	22.405423
23	814559	821739	113.966142	22.334574
23		1	1	
20	814559	824768	113.966101	22.361920

Remarks:

(a) *Due to the presence of deployed silt curtain systems at the site boundaries of the Contract, some of the transect lines shown in Figure 5 could not be fully surveyed during the regular survey. Transect 10 is reduced from 6.4km to approximately 3.6km in length due to the HKBCF construction site. Therefore the total transect length for both NEL and NWL combined is reduced to approximately 108km.



(b) Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015.

5.5 Monitoring Procedures

- 5.5.1 The study area incorporates 23 transects which are to be surveyed twice per month. Each survey day lasts approximately 9 hours.
- 5.5.2 The survey vessel departs from Tung Chung Development Pier, Tsing Yi Public Pier or the nearest safe and convenient pier.
- 5.5.3 When the vessel reaches the start of a transect line, "on effort" survey begins. Areas between transect lines and traveling to and from the study area are defined as "off effort".
- 5.5.4 The transect line is surveyed at a speed of 6-8 knots (11-14 km/hr). For the sake of safety, the speed was sometimes a bit slower to avoid collision with other vessels. During some periods, tide and current flow in the survey areas exceeds 7 knots which can affect survey speed. There are a minimum of four marine mammal observers (MMOs) present on each survey, rotating through four positions, observers (2), data recorder (1) and 'rest' (1). Rotations occur every 30 minutes or at the end of dolphin encounters. The data recorder records effort, weather and sightings data directly onto the programme Logger and is not part of the observer team. The observers search with naked eye and binoculars between 90° and 270° abeam (bow being 0°).
- 5.5.5 When a group of dolphins is sighted, position, bearing and distance data are recorded immediately onto the computer and, after a short observation, an estimate made of group size. These parameters are linked to the time-GPS-ships data which are automatically stored in the programme Logger throughout the survey period. In this manner, information on heading, position, speed, weather, effort and sightings are stored in a format suitable for use with DISTANCE software for subsequent line transect analyses.
- 5.5.6 Once the vessel leaves the transect line, it is deemed to be "off effort". The dolphins are approached with the purpose of taking high resolution pictures for proper photo-identification of individual CWD. Attempts to photograph all dolphins in the group are made. Both the left and right hand sides of the dorsal fin area of each dolphin in the group are photographed, if possible. On finishing photographing, the vessel will return to the transect line at the point of departure and "on effort" survey is resumed.
- 5.5.7 Sightings which are made while on the transect line are referred to as "on effort sightings", while not on the actual transect line are referred to as an "opportunistic sightings" (e.g. another group of dolphins is sighted while travelling back to the transect line). Only "on effort sightings" can be used in analyses which require effort or rate quantification, e.g., encounter rate per 100km searched. This is also how "on effort sightings" are treated in the baseline report. "Opportunistic sightings" provide additional information on individual habitat use and population distribution and they are noted accordingly.
- 5.5.8 As time and GPS data are automatically logged throughout the survey and are linked to sightings data input, start and end times of encounters and deviation from the transect lines are recorded and can be subsequently reviewed.

5.6 Monitoring Schedule for the Reporting Month

- 5.6.1 The schedule for dolphin monitoring in July 2016 is provided in Appendix F.
- 5.6.2 Two surveys covering both study areas were completed.

5.7 Results and Observations

5.7.1 Dolphin surveys were conducted on 4, 5, 6, 18 and 19 July 2016. A total of 217.8km of transect line was conducted, 198.7km was conducted during Beaufort Sea State 3 or better (favourable water conditions).



The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in July 2016 are plotted in Figure 5a-b. For Table 5.3, only on-effort information is included. Transects conducted in all Beaufort Sea State are included. Compared to previous monthly reports, the whole number Beaufort Sea State scale is used so as to ease comparison with other dolphin monitoring reports.

					Total Distance Travelled	
Survey	Date	Area	Beaufort	Effort (km)	(km)	
	07/04/2016	NWL	1	0.2		
	07/04/2016	NWL	2	14.7		
	07/04/2016	NWL	3	16		
	07/04/2016	NWL	4	3.3		
1	07/05/2016	NWL	2	16.5	105.2	
	07/05/2016	NWL	3	21.9		
	07/05/2016	NEL	1	0.8		
	07/05/2016	NEL	2	16.3		
	07/05/2016	NEL	3	15.5		
	07/06/2016	NEL	1	3.6		
	07/18/2016	NWL	1	4.5		
	07/18/2016	NWL	2	31.4		
	07/18/2016	NWL	3	10.7		
2	07/18/2016	NWL	4	15.8	112.6	
2	07/19/2016	NWL	2	8.1	112.0	
	07/19/2016	NWL	3	1.9		
	07/19/2016	NEL	1	21.2		
	07/19/2016	NEL	2	11.1		
	07/19/2016 NEL 3 4.3					
TOTAL in July 2016						

Table 5.3Impact Dolphin Monitoring Survey Effort Summary, Effort by Area and Beaufort
Sea State

*Remark: Surveys conduct under Beaufort Sea State 3 or below are considered as under favourable condition.

 Table 5.4
 Impact Dolphin Monitoring Survey Details July 2016

Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
	NWL	0	0
07/04/2016	NEL	0	0
	NWL	0	0
07/05/2016	NEL	0	0
07/06/2016 &	NWL\WL	1 (on 07/18/2016)	1*(on 07/18/2016)
07/18/2016	NEL	0	0
	NWL	0	0
07/19/2016	NEL	0	0
Т	OTAL in JULY 2016	1	1

* Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

 Table 5.5
 The Encounter Rate of Number of Dolphin Sightings & Total Number of Dolphins per Area^



Encounter Rate of Number of Dolphin Sightings (STG)*							
Date	NEL Track (km)	NWL Track (km)	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate	
4 & 5 July 2016	32.6	69.3	0	0	0.0	0.0	
6, 18 and 19 July 2016	40.2	56.6	0	1	0.0	1.8	
Encounter Rate of Total Number of Dolphins (ANI)**							
Date	NEL Track (km)	NWL Track (km)	NEL Dolphins	NWL Dolphins	NEL Encounter Rate	NWL Encounter Rate	
4 & 5 July 2016	32.6	69.3	0	0	0.0	0.0	
6, 18 and 19 July 2016	40.2	56.6	0	3	0.0	5.3	

* Encounter Rate of Number of Dolphin Sightings (STG) presents encounter rates in terms of groups per 100km.

** Encounter Rate of Total Number of Dolphins (ANI) presents encounter rates in terms of individuals per 100km. And the encounter rate is not corrected for individuals, calculation may represent double counting.

[^]The table is made only for reference to the quarterly STG & ANI, which were adopted for the Event & Action Plan.

- 5.7.2 A total of 2 sightings were made, one "on effort" and one "opportunistic". All sighting was recorded on the 18 July 2016. The first group sighted on the 18 July 2016 contained 9 individuals that were engaged in feeding behavior, the second comprised 3 individuals and was travelling. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.3 In June 2016, one resighting is noted no new dolphins have been added to the photo-identification catalogue for dolphin impact monitoring. HZMB 114 was first sighted in 2013, a second time in 2015 and, for the third time during dolphin impact monitoring surveys, in June 2016. An error is noted in June 2016 photo-identification reporting. On further review, newly added individual HZMB 133 is now positively identified as HZMB 125. HZMB 133 has been removed from the resightings table (Appendix K).
- 5.7.4 Noteworthy Observation¹:
- 5.7.4.1 When impact monitoring was conducted at the southern parts of transect lines 1 & 2, the view of the area was partially blocked by the working vessels and fixed structures which do not belong to HKBCF Reclamation Works. The number of fixed structures has increased and in many areas, it is no longer possible to pass between them by ship. And the number of working vessels appears to have decreased, it is considered that they will temporarily affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour, whereas the fixed structures will continuously affect survey protocol, survey data collection, dolphin behaviour.
- 5.7.4.2 The HKBCF and adjoining "Southern Landfall" Projects effected lines 11 and 12. The view of the area was partially blocked by the working vessels and in water structures. As the working vessels will move as construction progresses, they will cause temporary effects to survey protocol and survey data collection. In time, the fixed structures will affect all survey protocols and dolphin ecology in the long term. As construction is ongoing, it is not yet known if these fixed structures will affect the transect lines passage. It is noted that fewer vessels occupy this area compared to previous months



¹ A noteworthy observation is to show that either the conduct of the surveys themselves is affected, i.e., the noted vessel or works impedes the progress or view of the survey platform. In addition, the vessel or construction works may be different or additional to that observed previously and further, are of such a nature that they are a likely to create an impact on the movement or behaviour of the subject of the impact survey, in this case, the dolphins.

- 5.7.4.3 Fishing Vessels were noted anchored on several occasions at line 2. Previously, dolphins have been known to be attracted to fishing vessels, both active and anchored, and as such the anchored vessels may have temporarily affected the dolphins distribution.
- 5.7.4.4 Travel to the northern end of line 10 and line 23 was slightly impeded by anchorages. After checking with the Contractor, there are no trans-boundary vessels that are required to anchor at northern ends of lines 10 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in this anchorage through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.5 Several single anchored vessels were noted on lines 13, 18 and 23 which caused the monitoring vessel to divert slightly from the trackline or blocked the transect area view. It is unknown who these vessels belong to or even if they were Project related. After checking with the Contractor, there are no transboundary vessels that are required to anchor on lines 13, 18 and 23 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in anchor on these lines through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.6 New projects were noted on lines 2, 4, 6, 7 and 8 which blocked the transect area view. After checking with the Contractor, these new project do not belongs to this Contract and it is unknown what activities occur under this project or how long it may occur for and, as such, it is considered that this new project may affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.7 The survey effort log notes the areas in which the visibility is limited or the survey is affected so that these can be accounted for in any subsequent analyses. Some of these obstructions will become permanent and some will be temporary as the HZMB is built and other projects progress. It is advised that the impact monitoring surveys should be completed as close to the predefined lines as possible (as per Figure 4 of this report).
- 5.7.4.8 The above noteworthy observations are largely a result of multiple and on-going infrastructure projects within the Lantau area. No amendment to EM&A protocols can negate the effects of these projects, e.g., it is a highly dynamic environment and viewing conditions may alter every survey (sometimes within surveys) and most of the survey area is affected, to some degree, by marine construction works. Instead, survey data analyses should incorporate any noteworthy observations which may affect either data collection or dolphin distribution and behavioural changes. The above mentioned activities recorded during boat survey will not affect implementation of the EM&A Programme provided appropriate data analyses are conducted.
- 5.7.5 The event action plan is annexed in Appendix L.

6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

6.1 Site Inspection

- 6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting month, 4 site inspections were carried out on 7, 14, 21 and 28 July 2016.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

- 6.1.3 An excavator was observed without NNRM label at TKO fill bank area 137 sorting facility. The Contractor was reminded to properly affix NNRM label to the excavator. The Contractor subsequently affix NNRM label to the excavator. (Closed)
- 6.1.4 Fugitive dust generated during loading and unloading of rock materials was observed at Portion B on 14 July 2016
- 6.1.5 2016 and near seawall on 21 July 2016. The Contractor should provide watering during the loading and unloading works properly. The Contractor subsequently provided watering during loading and unloading works. (Closed)

Noise

6.1.6 No relevant adverse impact was observed in the reporting month.

Water Quality

6.1.7 Damaged drip tray was observed at Portion D. The Contractor should repair and replace the drip tray to avoid potential leakage. (Follow up)

Chemical and Waste Management

- 6.1.8 Oil drums were observed without drip tray at workshop area of HKBCF Reclamation Works, the Contractor was advised to provide drip tray to all oil drums. The Contractor subsequently provided drip tray to oil drums. (Closed)
- 6.1.9 Chemical container placed on ground was observed at portion D. The Contractor should store the chemical containers with drip tray properly. (Follow up)
- 6.1.10 Silt curtain was observed temporarily disconnected near Portion D. The Contractor was reminded to ensure mitigation measures such as the silt curtain is properly implemented. (Follow up)
- 6.1.11 Insufficient bunding was observed at entrance area of an idle landing barge 徳大 1, the Contractor was reminded to provide measures to prevent runoff of turbid water to the sea when there are operations on this barge. (Reminder)

Landscape and Visual Impact

6.1.12 No relevant adverse impact was observed in the reporting month.

Others

6.1.13 No relevant adverse impact was observed in the reporting month.



- 6.2 Advice on the Solid and Liquid Waste Management Status
- 6.2.1 The Contractor had registered as a chemical waste producer for this Project. Receptacles were available for general refuse collection and sorting.
- 6.2.2 As advised by the Contractor, 32,000m³ of inert C&D material was reused in other projects. 54,308.7m³ of fill material were imported for the Contract use in the reporting period. 420kg of paper/cardboard packaging and 71.5m³ of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in Appendix M.
- 6.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes storage, collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 6.2.4 The Contractor is reminded that chemical waste 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, Labeling and Storage of Chemical Wastes.
- 6.2.5 The treated marine sediment and/or treated excavated filling material specified by Contract no. HY/2013/01 has been received as public fill for Contract no. HY/2010/02's reclamation filling works since January 2015. As informed by the Contractor in the reporting month, such site arrangement has been discontinued since 24 February 2016.
- 6.2.6 After checking with the Contractor, surcharge material was removed off site to Macau from 27 April 2016 and it is continued in the reporting month. Surplus surcharge was exported to Macau during the reporting month. The Contractor was reminded to ensure consistency in quantities in case of any C&D material disposed off-site and/or no surcharge material removed off site.
- 6.2.7 As advised by the Contractor, 118,747.7m³ of surplus surcharge was exported to Macau during the reporting month.

6.3 Environmental Licenses and Permits

6.3.1 The environmental licenses and permits for the Contract and valid in the reporting month is summarized in Table 6.1.

Table 6.1 Summary of Environmental Licensing and Permit Status

Statutory Reference			Permit		Remarks		
			From	То	Holder		
	Environmental	EP- 353/2009/K	11/04/2016	N/A		Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities	
EIAO	Permit	EP- 354/2009/D	13/03/2015	N/A	HyD	Tuen Mun – Chek Lap Kok Link (TMCLKL Southern Landfall Reclamation only)	
APCO	NA notification		30/12/2011		CHEC	Works Area WA2 and WA3	
APCO	NA notification		25/07/2014		CHEC	Works Area WA1	
WDO	Chemical Waste Producer Registration	5213-951- C1186-30	28/10/2015	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA1)	
WDO	Chemical Waste Producer Registration	5213-951- C1186-21	30/3/2012	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA2)	
WDO	Chemical Waste Producer Registration	5213-839- C3750-02	13/09/2012		CHEC	Registration as Chemical Waste Producer at TKO 137(FB)	
WDO	Billing Account for Disposal of Construction Waste	7014181	05/12/2011	N/A	CHEC	Waste disposal in Contract HY/2010/02	
NCO	Construction Noise Permit	GW- RE0385-16	19/04/2016	14/10/2016	CHEC	Section of TKO Fill Bank under Contract HY/2010/02	
NCO	Construction Noise Permit	GW- RS0747-16	22/07/2016	21/01/2017	CHEC	Reclamation Works in Contract HY/2010/02	

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity Check), regular checking were conducted by the experienced MMOs within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. Any dolphin spotted within the enclosed silt curtain systems was reported and recorded. Relevant procedures were followed and measures were well implemented. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.
- 6.4.5 Acoustic decoupling measures on noisy plants on construction vessels were checked regularly and the Contractor was reminded to ensure provision of ongoing maintenance to noisy plants and to carry out improvement work once insufficient acoustic decoupling measures were found.
- 6.4.6 Frequency of watering per day on exposed soil was checked; with reference to the record provided by the Contract, watering was conducted at least 8 times per day on reclaimed land. The frequency of watering is the mainly refer to water truck. Sprinklers are only served to strengthen dust control measure for busy traffic at the entrance of Portion D. As informed by the Contractor, during the mal-function period of sprinkler, water truck will enhance watering at such area. The Contractor was reminded to ensure provision of watering of at least 8 times per day on all exposed soil within the Contract site and associated works areas throughout the construction phase.
- 6.4.7 After review, 1 floating grout production was in operation at any time in July 2016 for Contract No.HY/2010/02. Condition 3.26A of EP-353/2009/K for Contract No.HY/2010/02 is complied with during the reporting month.
- 6.4.8 As informed by the Contractor, the perimeter silt curtain near Portion B of HKBCF has been arranged on 3 February 2016. A notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 was sent to IEC/ENPO by the ET for their review on 8 March 2016, IEC/ENPO issued comments on 10 March 2016 and the notification of realignment of perimeter silt curtain is under ET's further review in the reporting in the reporting month. The concerned notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 will be sent to the Authority once the review is completed.
- Further to our letter (ET's letter's ref.: 60249820/rmky16033001) dated 30/3/2016 regarding the 6.4.9 notification of silt curtain removal programme and arrangement, as informed by RSS on 18 May 2016. the Contractor provided an updated programme on 17 May 2016 to indicate the current site situation. According to CHEC's latest removal programme during the reporting month, stage 1 (southern section of Portion B) removal work was rescheduled and therefore not carried out in June 2016. Tentative completion for stage 1 removal work and dates for the subsequent stages have also been updated in the reporting month, while the overall phasing arrangement has not changed. A notification letter was prepared in the reporting month and sent to IEC/ENPO on 1 June 2016 via email to inform them that the removal of perimeter silt curtain of Stages 1, 2, 3 and 4 has been rescheduled. IEC/ENPO expressed on 7 June 2016 that the update on the proposal is mainly on time schedule and as such, they have no objection in principle. However prior to IEC/ENPO's reply to confirm ET's updated proposal, ET was requested to provide site photos to show ET's checking of the current site condition with respect to the reminders given in their previous letter (Our Ref.: HYDHZMBEEM00_0_4102L.16 dated 22 April 2016). After checking, it is noted that seawall and reclamation filling at the concerned section were completed and as informed by the Contractor, Stages 1 removal of the perimeter silt curtain has been commenced during the reporting month.



6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.4 For dolphin monitoring, a total of 2 sightings were made, one "on effort" and one "opportunistic". All sighting was recorded on the 18 July 2016. The first group sighted on the 18 July 2016 contained 9 individuals that were engaged in feeding behavior, the second comprised 3 individuals and was travelling. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- 6.5.5 Environmental site inspection was carried out 4 times in July 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.5.6 Cumulative statistics on exceedance is provided in Appendix N.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 6.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 6.
- 6.6.2 A complaint about marine litter near Tuen Mun Ferry Pier was received on 16 Jul 2016, 9:19am, also refer to below photo. The complainant complained that pollution was observed at Tuen Mun Ferry Pier and queried whether the pollutant came from the construction sites of the Lantau area or bridge construction.



6.6.2.1 Investigation actions:

- 1: Review of the information and provided by the complainant
- 2: Review the work activities conducted by Contract HY/2010/02 HKBCF Reclamation on 16 July 2016.
- 3. Review site condition

6.6.2.2 Investigation results:

- The photo provided by the complainant was reviewed and it shows that marine litter floating on sea near Tuen Mun Ferry Pier.

- Information provided by the Contractor was checked, marine activities being conducted by Contract HY/2010/02 on 16 July 2016 were accroprode/rock-fill placement for the construction of the seawall by using a pelican with mechanical grab. In addition, since the location of Tuen Mun Ferry Pier is approximately 5km away from the active works contract HY/2010/02, these construction activities are unlikely related to the floating litter on sea observed near Tuen Mun Ferry Pier on 16 July 2016.

- Joint site inspection was also conducted on 21 July 2016 with the Contractor, IEC, ET and RSS. No litter was observed on sea during the inspection of the perimeter of HKBCF reclamation works.



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- As such, it is considered the marine litter floating near the Tuen Mun Ferry Pier is unlikely to be related to this Contract.

- 6.6.2.3 Nevertheless, the Contractor was reminded to continue to fully maintain all waste management mitigation measures.
- 6.6.3 Notification of summons or prosecution was received in the reporting period.
- 6.6.4 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix N.

7 FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major works for the Contract in August and September 2016 will be *:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Construction of Permanent Seawall
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

*Construction activities in August and September 2016 will be changed subject to works progress.

7.2 Key Issues for the Coming Month

- 7.2.1 Key issues to be considered in the coming months:-
 - Site runoff should be properly collected and treated prior to discharge;
 - Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
 - Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface runoff during rainstorm;
 - Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
 - Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
 - Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
 - Quieter powered mechanical equipment should be used;
 - Provision of proper and effective noise control measures for operating equipment and machinery onsite, such as erection of movable noise barriers or enclosure for noisy plants;
 - Closely check and replace the sound insulation materials regularly;
 - Better scheduling of construction works to minimize noise nuisance;
 - Properly store and label oil drums and chemical containers placed on site;
 - Proper chemicals, chemical wastes and wastes management;
 - Maintenance works should be carried out within roofed, paved and confined areas;
 - Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
 - Proper protection and regular inspection of existing trees, transplanted/retained trees.
 - Control night-time lighting and glare by hooding all lights.
 - Regular review and provide maintenance to dust control measures such as sprinkler system.

7.3 Monitoring Schedule for the Coming Month

7.3.1 The tentative schedule for environmental monitoring of August 2016 is provided in Appendix F.

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

- 8.1.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.4 For dolphin monitoring, a total of 2 sightings were made, one "on effort" and one "opportunistic". All sighting was recorded on the 18 July 2016. The first group sighted on the 18 July 2016 contained 9 individuals that were engaged in feeding behavior, the second comprised 3 individuals and was travelling. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- 8.1.5 1 complaint about marine litter near Tuen Mun Ferry Pier was received on 16 Jul 2016, 9:19am. The complainant complained that pollution was observed at Tuen Mun Ferry Pier and queried whether the pollutant came from the construction sites of the Lantau area or bridge construction. After investigation, it is considered the marine litter floating near the Tuen Mun Ferry Pier is unlikely to be related to this Contract
- 8.1.6 No notification of summons or prosecution was received in the reporting period.
- 8.1.7 Environmental site inspection was carried out 4 times in July 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

8.2 Recommendations

8.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality Impact

- All working plants and vessels on site should be regularly inspected and properly maintained to avoid dark smoke emission.
- All vehicles should be washed to remove any dusty materials before leaving the site.
- Haul roads should be sufficiently dampened to minimize fugitive dust generation.
- Wheel washing facilities should be properly maintained and reviewed to ensure properly functioning.
- Temporary exposed slopes and open stockpiles should be properly covered.
- Enclosure should be erected for cement debagging, batching and mixing operations.
- Water spraying should be provided to suppress fugitive dust for any dusty construction activity.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

Construction Noise Impact

- Quieter powered mechanical equipment should be used as far as possible.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Proper and effective noise control measures for operating equipment and machinery on-site should be provided, such as erection of movable noise barriers, enclosure for noisy plants or enhancement works to provide sufficient acoustic decoupling measure(s). Closely check and replace the sound insulation materials regularly
- Vessels and equipment operating should be checked regularly and properly maintained.
- Noise Emission Label (NEL) shall be affixed to the air compressor and hand-held breaker operating within works area.
- Acoustic decoupling measures should be properly implemented for all existing and incoming construction vessels with continuous and regularly checking to ensure effective implementation of acoustic decoupling measures.

Water Quality Impact

- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing of material.
- Silt, debris and leaves accumulated at public drains, wheel washing bays and perimeter uchannels and desilting facilities should be cleaned up regularly.
- Silty effluent should be treated/ desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Exposed slopes and stockpiles should be covered up properly during rainstorm.

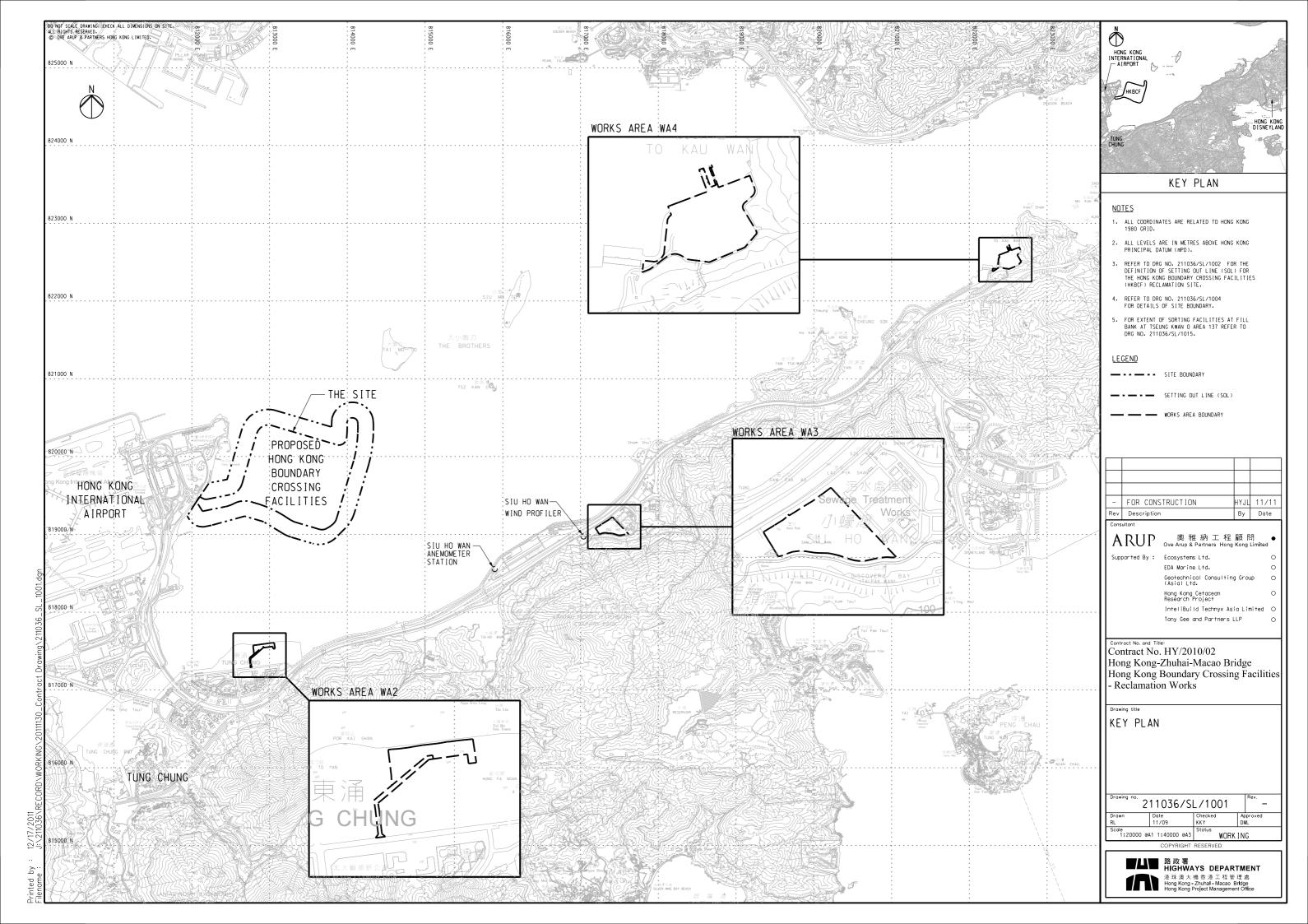


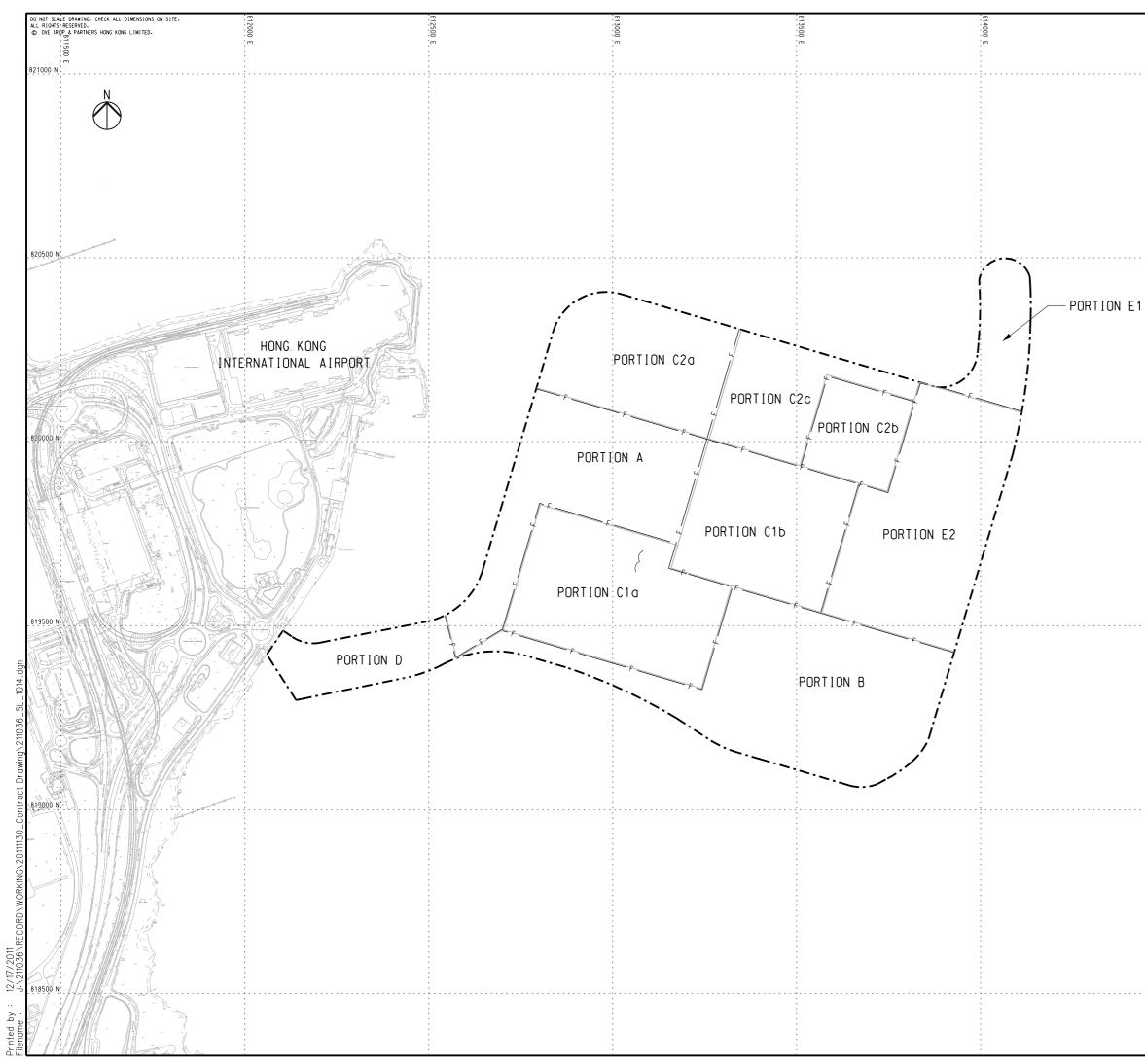
Chemical and Waste Management

- All types of wastes, both on land and floating in the sea, should be collected and sorted properly and disposed of timely and properly. They should be properly stored in designated areas within works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and labelled.
- All plants and vehicles on site should be properly maintained to prevent oil leakage. Proper measures, like drip trays and/or bundings, should be provided for retaining leaked oil/chemical from plants.
- All kinds of maintenance works should be carried out within roofed, paved and confined areas.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil and chemical waste leakage.
- Oil stains on soil surface, accumulated oil mixture and empty chemical containers should be cleared and disposed of as chemical waste.
- Regular review should be conducted for working barges and patrol boats to ensure sufficient measures and spill control kits were provided on working barges and patrol boats to avoid any spreading of leaked oil/chemicals.

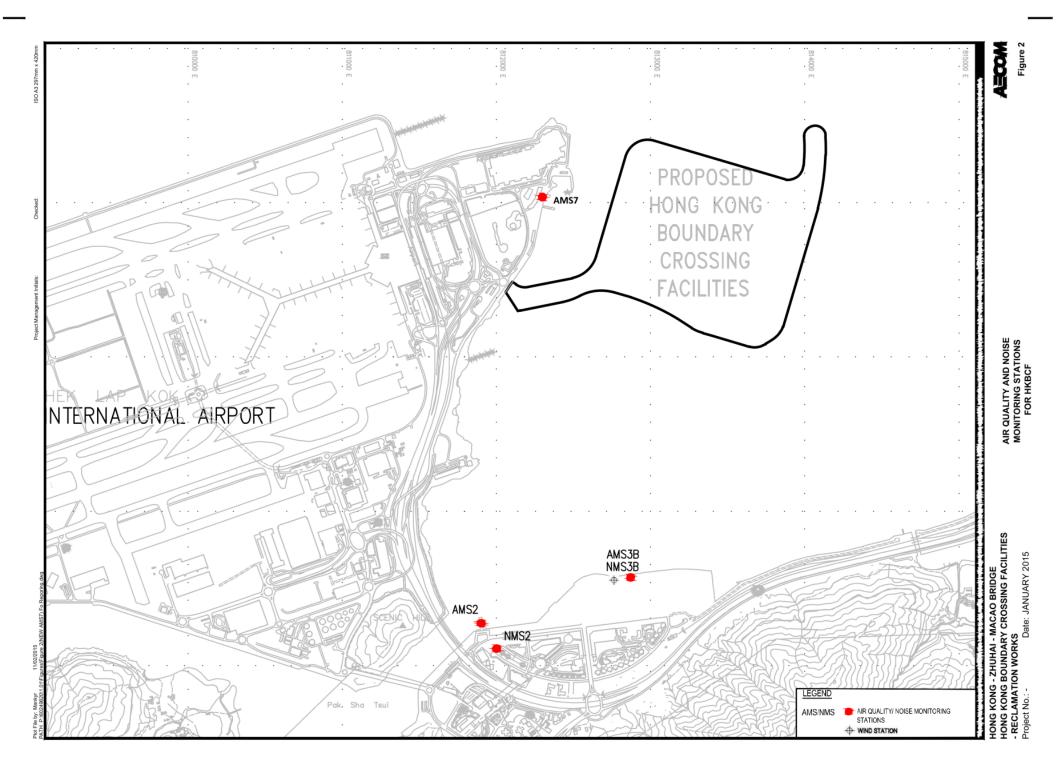
Landscape and Visual Impact

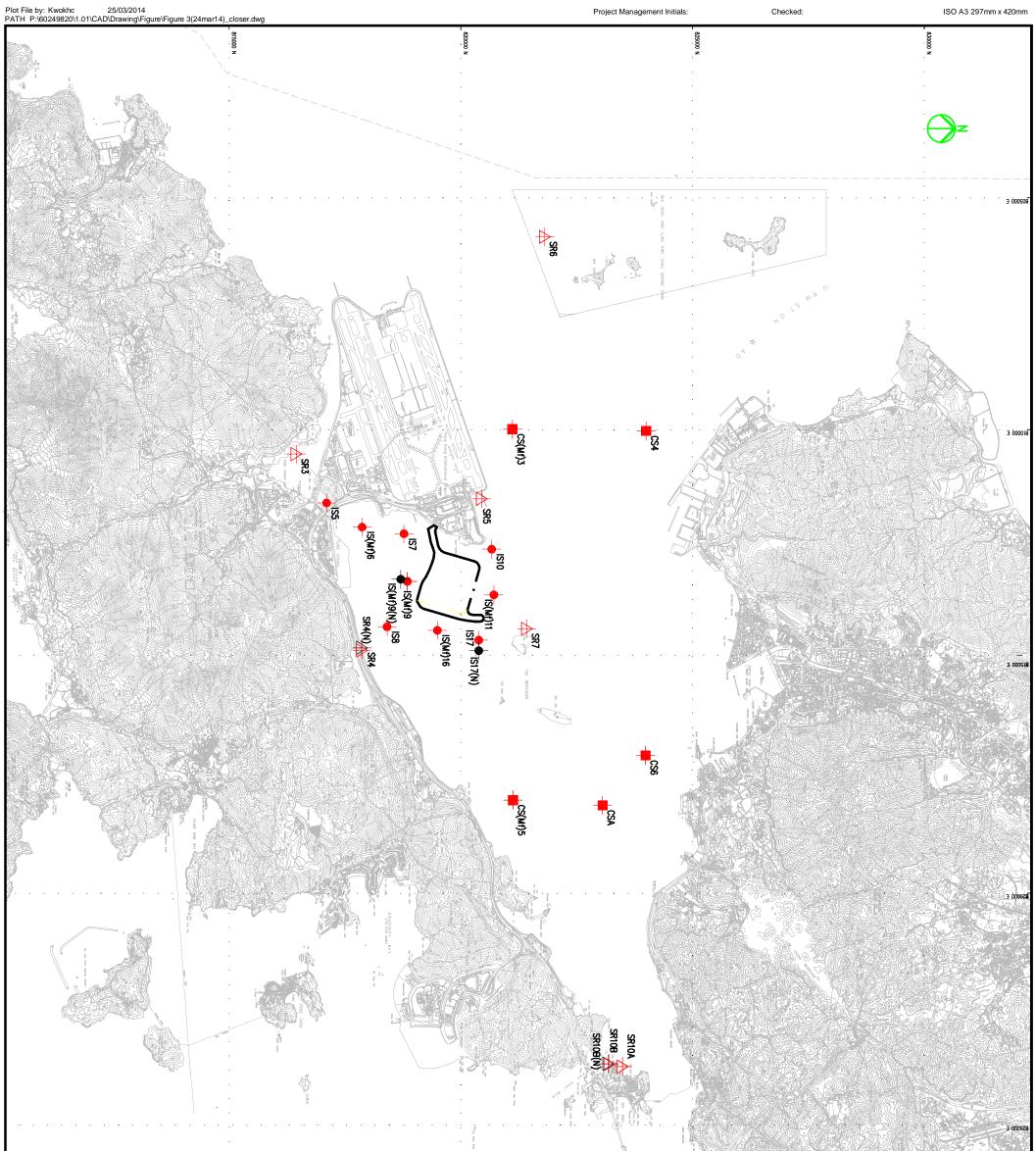
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.





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	HONG KONG INTERNATIONAL
	AIRPORT
	нквсг
	HONG KONG DISNEYLAND
	TUNG CHUNG
	KEY PLAN
	NOTES
	 FOR LEGENDS AND NOTES FOR CHAIN LINK FENCE AND GATE REFER TO DRG ND. 211036/SL/1013.
	 THE ERECTION OF CHAIN LINK FENCE AND GATES SHALL BE COMPLETED BY THE HANDOVER DATE OF
	EACH PORTION OF SITE, OR AS INSTRUCTED BY THE ENGINEER.
	 FOR SETTING OUT COORDINATES OF DIFFERENT PORTIONS OF SITE REFER TO DRG NO. 211036/SL/1003.
	 ACCESS POINTS BETWEEN PORTIONS SHALL BE PROVIDED BY THE CONTRACTOR, AND THE LOCATIONS SHALL BE AGREED WITH THE ENGINEER ON SITE.
	 FOR HOARDING AND FENCE AT FILL BANK AT TSEUNG KWAN O AREA 137 REFER TO DRG NO. 211036/SL/1015.
	LEGEND
	WORKS AREA BOUNDARY
	PORTIONS BOUNDARY LINE
	- FOR CONSTRUCTION HYJL 11/11 Rev Description By Date
	Consultant
	ARUP 奥雅納工程顧問 ● Ove Arup & Partners Hong Kong Limited
	Supported By: Ecosystems Ltd. O EDA Marine Ltd. O
	Geotechnical Consulting Group O (Asia) Ltd.
	Hong Kong Cetacean O Research Project
	InteliBuild Technyx Asia Limited O Tony Gee and Partners LLP O
	Contract No. and Title: Contract No. HY/2010/02
	Hong Kong-Zhuhai-Macao Bridge
	Hong Kong Boundary Crossing Facilities - Reclamation Works
	Drawing title
	WORKS AREA LAYOUT
	AND HORADING PLAN
	(SHEET 2 OF 3)
	Drawing no. Rev.
	Drawn Date Checked Approved
	RL 06/10 KKY DML Scale Status
	1:5000 @A1 1:10000 @A3 WORKING COPYRIGHT RESERVED
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:	港珠澳大橋香港工程管理處 Hong Kong - Zhuhal - Macao Bridge Hong Kong Project Management Office
	in grinning material





Setting out sc	Schedule	
MONITORING	CO-OR EASTING	CO-ORDINATES
IS2	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
8SI	814251	818412
IS(Mf)9	813273	818850
IS(Mf)9(N)	813226	818708
IS10	812577	029028
IS(Mf)11	813562	820716
IS(Mf)16	814328	819497
IS17	814539	820391
IS17(N)	814767	820391
SR3	810525	816456
SR4(N)	814705	817859
SR5	811489	820455
SR6	805837	821818
SR7	814293	821431
SR10A	823741	823495
SR10B(N)	823683	823187
CS(Mf)3	686608	821117
CS(Mf)5	817990	821129
CS4	810025	824004
CS6	817028	823992
CSA	818103	823064

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HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

Project No.: -Date: MAR 2014

WATER QUALITY MONITORING STATION

Figure 3

IMPACT STATIONS

↓ IEGEND

ខ

CONTROL / FAR FIELD STATIONS

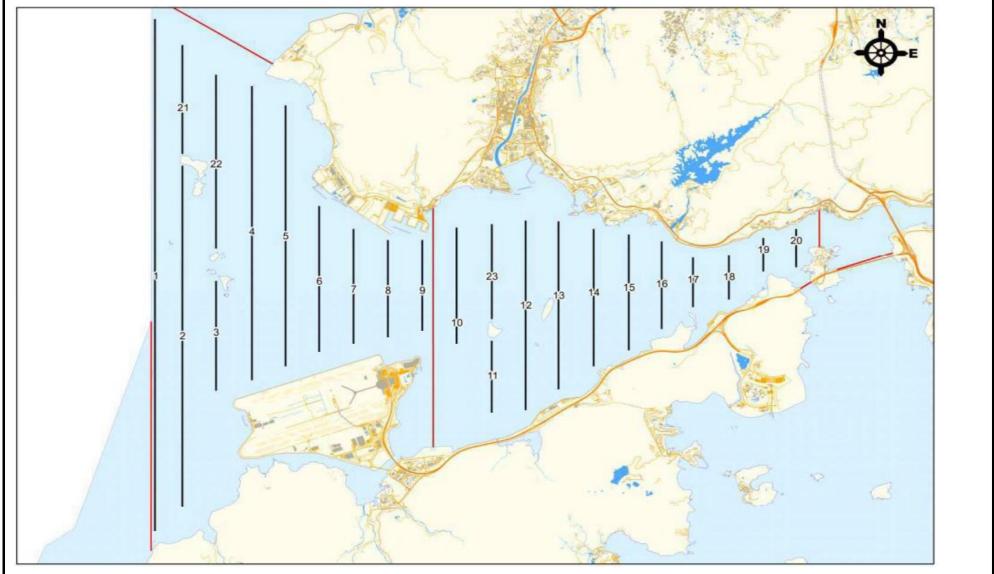
SENSITIVE RECEIVERS STATIONS

SENSITIVE RECEIVERS STATIONS (RELOCATED)

IMPACT STATIONS (RELOCATED)

\$ ₽ \$ ₽ SR -∳-





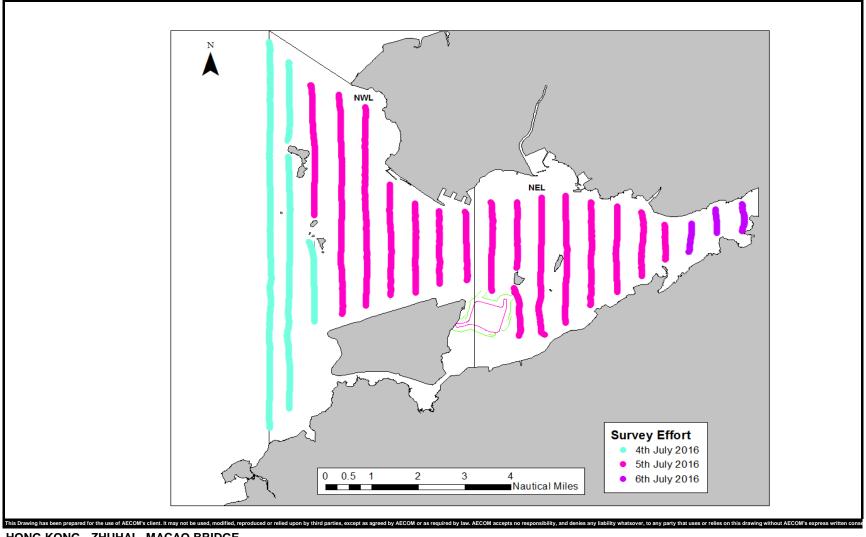
Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

*Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km. This Drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM or casepts no responsibility, and denies any liability whatsover, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All meass

Impact Dolphin Monitoring Line Transect Layout Map

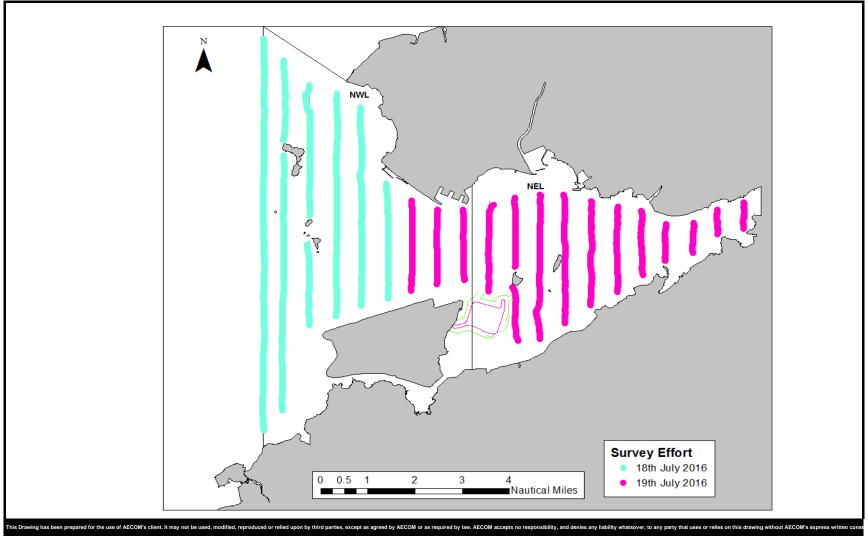
ients must be obtai



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: August 2016

Impact Dolphin Monitoring Survey Efforts on 4, 5 and 6 July 2016

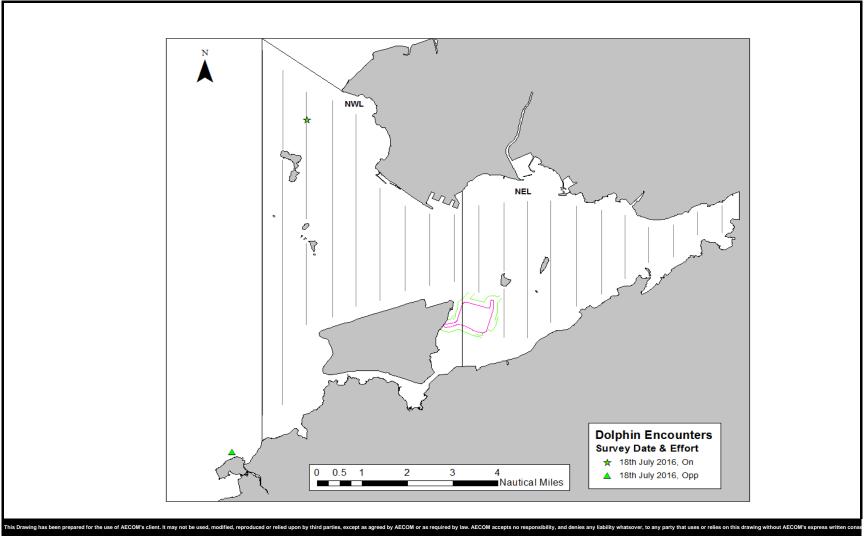
Figure 5a



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: August 2016

Impact Dolphin Monitoring Survey Efforts on 18 and 19 July 2016

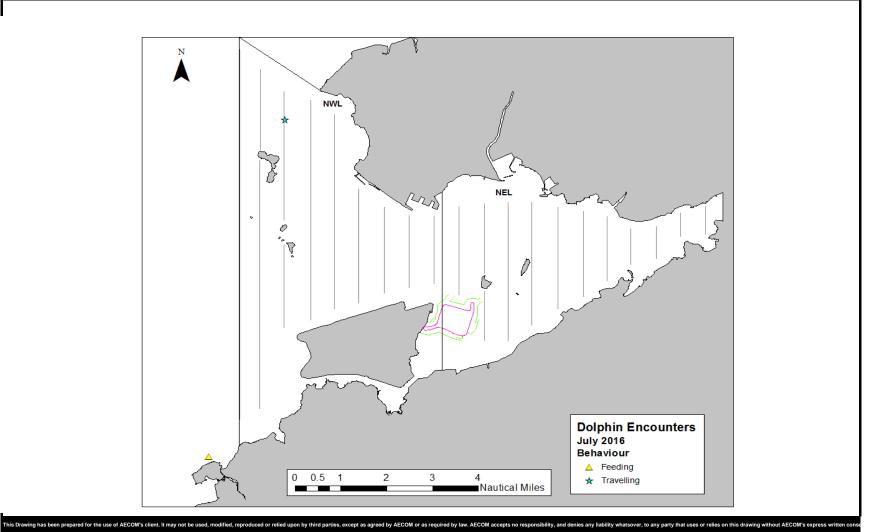
Figure 5b



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: August 2016

Impact Dolphin Monitoring Survey Sightings in July 2016

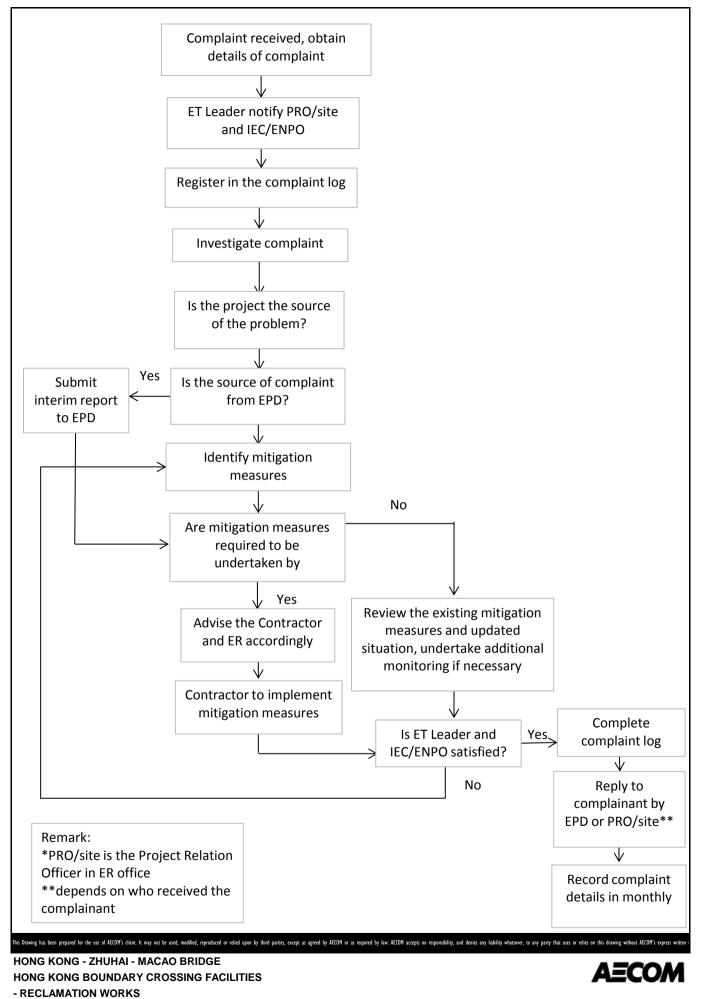
Figure 5c



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: August 2016

Impact Dolphin Monitoring Survey Behaviour Map in July 2016

Figure 5d

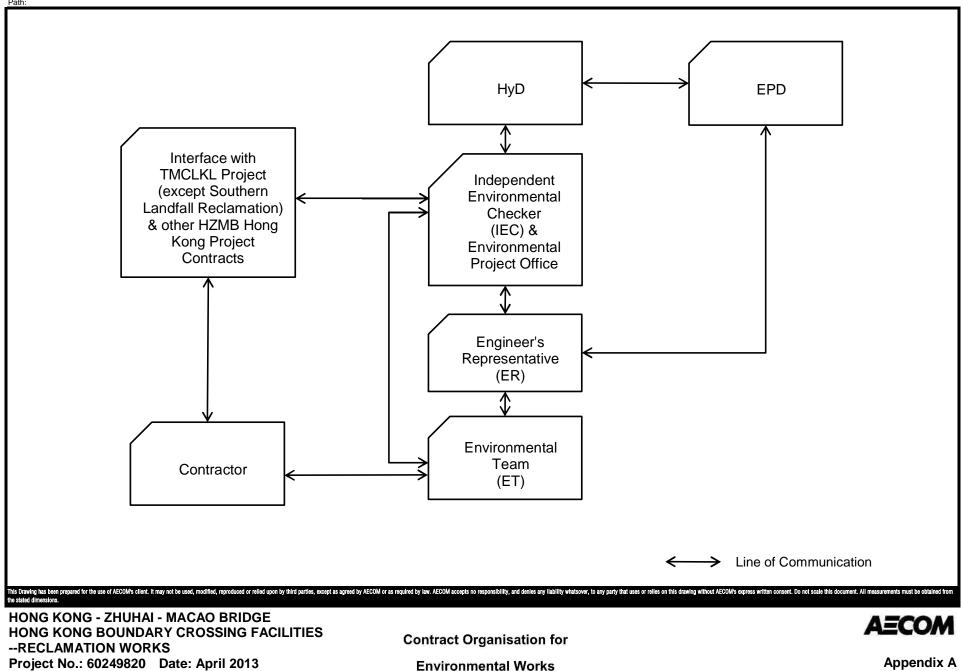


Environmental Complaint Handling Procedure



Checked:

ISO A4 210mm X 297mm



ntract No.	Hong Kong - Zhuhai - Macao Bri	dge Hong K	U U	•	sing Facilitie	es - Re	clama	ation W			
/ity ID	Activity Name		Original Duration		Finish	Total Float		Jul	20 Aug	Sep	Oct
6th Monthly	y Progress Report Status as on 2	1.lul2016	1745	21-May-12 A	28-Feb-17	272		56	57	58	59
-	s defined in PS Clause 1.03(6)		447	09-Nov-15 A	20-Jan-17	311					
Portion A, B,			447	09-Nov-15 A	20-Jan-17	311					-
Portion A, B, C			447	09-Nov-15 A	20-Jan-17	311	-				
Seawall			439	09-Nov-15 A	20-Jan-17	311	-				
Optimizing Rubbl	e Mound Seawalls		435	09-Nov-15 A	20-Jan-17	311					
Rock Armour			435	09-Nov-15 A	20-Jan-17	311					
Seawall Portion	A C120-C134 Ch5+050 - Ch5+650		201	09-Nov-15 A	31-Aug-16	453				-	
RFA0-010	PA at C118 - C134 Removal of Temporary Rockfill (170,000	m3, 1,500m3/day)	170	09-Nov-15 A	30-Jun-16 A		-				
RFA0-020	PA at C118 - C134 Underlayer (21,600m3 1,000m3/day)		179	15-Nov-15 A	25-Jul-16	476		<u> </u>			
RFA0-030	PA at C118 - C134 Rock Armour (1-3ton 30,840m3 & 0.3-1t	on 14,466m3 244m3/day)	179	01-Dec-15 A	31-Aug-16	453				_ -	
Seawall Portion	B K013-K027 Ch0+450 - Ch1+100		142	01-Sep-16	20-Jan-17	297					
RFB0-010	PB at K013 - K027 Removal of Temporary Rockfill (170,000	m3, 1,500m3/day)	114	01-Sep-16	23-Dec-16	297					
RFB0-020	PB at K013 - K027 Cat1 (16,900m3, 1000m3/day)		98	01-Oct-16	06-Jan-17	297				L.	
RFB0-030	PB at K013 - K027 Underlayer (200-500kg) 16,832m3 1000	m3/day	98	15-Oct-16	20-Jan-17	297					⊾
Seawall Portion	C2a C113-C119 Ch4+710 - Ch5+050		155	21-Jul-16	22-Dec-16	340					
RFC2a010	PC2a at C113 - C117 Removal of Temporary Rockfill (190,0	00m3, 1,500m3/day)	127	21-Jul-16	24-Nov-16	340				-	
RFC2a030	PC2a at C113 - C117 Underlayer 21,600m3 1000m3/day		111	20-Aug-16	08-Dec-16	340			L		
RFC2a040	PC2a at C113 - C117 Rock Armour (0.3-1 ton 33904m3 305	m3/day)	111	03-Sep-16	22-Dec-16	340					
Conforming Slop	ing Seawalls		367	16-Nov-15 A	16-Nov-16	376					
Rock Armour - B	efore Surcharge Period		367	16-Nov-15 A	16-Nov-16	376					
ACP1-00030	Precasting Accropode (18,092nos), 90nos/day		265	16-Nov-15 A	09-Sep-16	-572					
Portion E1 & E2	2 In Front of Cells Ch1+990 - 3+810		175	01-May-16 A	15-Nov-16	-628					
	· · · · · · · · · · · · · · · · · · ·	56th Monthly Progress Repo	ort Statue oc c	on 21 Jul2016		Three	Mant				
 Remaining Leve Actual Level of I 		Page 1		JII ∠ IJUI∠U IO	TASK filter:	. mee	WOIL		y.		
Actual Work	,	raye i	0110								
Remaining WorkCritical Remaining										Primavera	I System

tract No.	Hong Kong - Zhuhai - Macao Brid		sing Faciliti	es - Recla	amation			
y ID	Activity Name	Original Start Duration	Finish	Total Float	Jul	Aug	016 Sep	Oct
Portion E2 Ch	2+260 - Ch2+430	50 15-Aug-16	03-Oct-16	-606	56	57	58	59
RFE2-110	PE2 Ch2+260 - Ch2+430 Trimming at the toe (170m)	17 15-Aug-16*	31-Aug-16	-606				
RFE2-120	PE2 Ch2+260 - Ch2+430 Geotextile	3 31-Aug-16	03-Sep-16	-606				
RFE2-130	PE2 Ch2+260 - Ch2+430 10-60kg Underlayer	6 03-Sep-16	09-Sep-16	-606				
RFE2-140	PE2 Ch2+260 - Ch2+430 1-3ton Armour	24 09-Sep-16	03-Oct-16	-606				-
Portion E2 Ch	2+430 - Ch2+630	9 01-May-16 A	31-Jul-16	-620				
RFE2-240	PE2 Ch2+430 - Ch2+630 1-3ton Armour	9 01-May-16 A	31-Jul-16	-620		-		
Portion E2 Ch	2+630 - Ch2+750	78 01-Aug-16	17-Oct-16	-620				
RFE2-310	PE2 Ch2+630 - Ch2+750 Trimming at the toe (120m)	14 01-Aug-16*	14-Aug-16	-620				
RFE2-320	PE2 Ch2+630 - Ch2+750 Geotextile	2 15-Aug-16	16-Aug-16	-620		L L		
RFE2-330	PE2 Ch2+630 - Ch2+750 10-60kg Underlayer	15 17-Aug-16	31-Aug-16	-620		L-		
RFE2-340	PE2 Ch2+630 - Ch2+750 1-3ton Armour	47 01-Sep-16	17-Oct-16	-620			-	
Portion E2 Ch	2+750 - Ch2+870	77 21-Jul-16	05-Oct-16	-587				
RFE2-410	PE2 Ch2+750 - Ch2+870 Trimming at the toe (120m)	14 21-Jul-16*	03-Aug-16	-587	-	-		
RFE2-420	PE2 Ch2+750 - Ch2+870 Geotextile	2 04-Aug-16	05-Aug-16	-587		L_		
RFE2-430	PE2 Ch2+750 - Ch2+870 10-60kg Underlayer	30 06-Aug-16	04-Sep-16	-587				
RFE2-440	PE2 Ch2+750 - Ch2+870 1-3ton Armour	31 05-Sep-16	05-Oct-16	-587				-
Portion E1 Ch	2+870 - Ch2+980	104 15-Jun-16 A	02-Oct-16	-584			· · · · · · · · · · · · · · · · · · ·	•
RFE1b-010	PE1 Ch2+870 - Ch2+980 Trimming at the toe (110m)	24 15-Jun-16 A	31-Jul-16	-584		-		
RFE1b-020	PE1 Ch2+870 - Ch2+980 Geotextile	2 01-Aug-16	02-Aug-16	-584		L.		
RFE1b-030	PE1 Ch2+870 - Ch2+980 10-60kg Underlayer	30 03-Aug-16	01-Sep-16	-584			P	
RFE1b-040	PE1 Ch2+870 - Ch2+980 1-3ton Armour	31 02-Sep-16	02-Oct-16	-584				.
Portion E1 Ch	2+980 - Ch3+160	73 18-Jul-16 A	01-Oct-16	-579			+	▼
		56th Monthly Progress Report Status as on 21Jul2016	TASK filter		onth Polli	ing	. '	<u>.</u>
 Remaining Level Actual Level of 		Page 2 of 15				nıg.		
Actual Work								
Remaining Wo	rk ing Work						Primavera	System

y ID	Activity Name	Original Start	Finish	Total		20	16	
y ib		Duration		Float	Jul 56	Aug 57	Sep 58	Oc 59
RFE1b-050	PE1 Ch2+980 - Ch3+160 Removal of temporary rockfill	15 18-Jul-16 A	31-Jul-16	-579		<u> </u>		<u>0</u> ;
RFE1b-060	PE1 Ch2+980- Ch3+160 Geotextile & Underlayer 10-60kg 15m/day	31 01-Aug-16	31-Aug-16	-579		-		
RFE1b-070	PE1 Ch2+980 - Ch3+160 Rock Armour 1-3ton	31 01-Sep-16	01-Oct-16	-579			-	.
Portion E1 Ch	3+160 - Ch3+250	76 11-Aug-16	25-Oct-16	-607				
RFE1b-110	PE1 Ch3+160-Ch3+250 Trimming at the toe (180m)	18 11-Aug-16	28-Aug-16	-606		r=====]	
RFE1b-120	PE1 Ch3+160-Ch3+250 Geotextile	4 29-Aug-16	01-Sep-16	-606		L	j	
RFE1b-130	PE1 Ch3+160-Ch3+250 10-60kg Underlayer	6 02-Sep-16	07-Sep-16	-606				
RFE1b-140	PE1 Ch3+160-Ch3+250 1st layer 2-5ton Rock Armour	3 08-Sep-16	10-Sep-16	-606			L-g	
RFE1b-150	PE1 Ch3+160-Ch3+250 100-200kg Underlayer	8 11-Sep-16	18-Sep-16	-606			╘╼═	
RFE1b-160	PE1 Ch3+160-Ch3+250 1st 6 rows Accropode (684nrs)	9 19-Sep-16	27-Sep-16	-606			-	
RFE1b-170	PE1 Ch3+160-Ch3+250 2nd Iyaer 2-5ton Rock Armour	3 28-Sep-16	30-Sep-16	-606			<u>ا</u> ا	
RFE1b-180	PE1 Ch3+160-Ch3+250 2nd Accropode (1116nrs)	14 02-Oct-16	15-Oct-16	-607			-	
RFE1b-190	PE1 Ch3+160-Ch3+250 3rd 2-5ton Rock Armour	10 16-Oct-16	25-Oct-16	-607				
Portion E1 Ch	3+250 - Ch3+340	130 09-Jun-16 A	15-Nov-16	-628				
RFE1b-210	PE1 Ch3+250-Ch3+340 Trimming at the toe (160m)	16 09-Jun-16 A	20-Jul-16 A					
RFE1b-220	PE1 Ch3+250-Ch3+340 Geotextile	3 21-Jul-16	23-Jul-16	-605	• •			
RFE1b-230	PE1 Ch3+250-Ch3+340 10-60kg Underlayer	6 24-Jul-16	29-Jul-16	-605	┡			
RFE1b-240	PE1 Ch3+250-Ch3+340 1st layer 2-5ton Rock Armour	3 30-Jul-16	01-Aug-16	-605	ļ			
RFE1b-250	PE1 Ch3+250-Ch3+340 100-200kg Underlayer	8 02-Aug-16	09-Aug-16	-605				
RFE1b-260	PE1 Ch3+250-Ch3+340 1st 6 rows Accropode (608nrs)	8 20-Aug-16	27-Aug-16	-615				
RFE1b-270	PE1 Ch3+250-Ch3+340 2nd Iyaer 2-5ton Rock Armour	3 28-Aug-16	30-Aug-16	-615				
RFE1b-280	PE1 Ch3+250-Ch3+340 2nd Accropode (992nrs)	19 13-Sep-16	01-Oct-16	-628				j
RFE1b-290	PE1 Ch3+250-Ch3+340 3rd 2-5ton Rock Armour	45 02-Oct-16	15-Nov-16	-628			L	
							i.	

Page 3 of 15

- Actual Level of Effort Summary
- Actual Work

- Remaining Work
 - Critical Remaining Work

Primavera Systems, Inc.

/ ID	Activity Name	Original	Start	Finish	Total			201		
		Duration			Float	Jul 56		Aug 57	Sep 58	0 5
Portion E1 Ch	3+340 - Ch3+510	76	16-Jun-16 A	22-Sep-16	-574					V
RFE1b-320	PE1 Ch3+340-Ch3+510 Geotextile	4	16-Jun-16 A	23-Jul-16	-621					
RFE1b-330	PE1 Ch3+340-Ch3+510 10-60kg Underlayer	7	24-Jul-16	30-Jul-16	-621	╘	-			
RFE1b-340	PE1 Ch3+340-Ch3+510 1st layer 2-5ton Rock Armour	3	31-Jul-16	02-Aug-16	-621		╘┋║			
RFE1b-350	PE1 Ch3+340-Ch3+510 100-200kg Underlayer	8	03-Aug-16	10-Aug-16	-621		╘╴┢╴			
RFE1b-360	PE1 Ch3+340-Ch3+510 1st 6 rows Accropode (684nrs)	9	11-Aug-16	19-Aug-16	-621		•	-		
RFE1b-370	PE1 Ch3+340-Ch3+510 2nd Iyaer 2-5ton Rock Armour	3	20-Aug-16	22-Aug-16	-621			┈╘╼┓		
RFE1b-380	PE1 Ch3+340-Ch3+510 2nd Accropode (1116nrs)	14	30-Aug-16	12-Sep-16	-628					
RFE1b-390	PE1 Ch3+340-Ch3+510 3rd 2-5ton Rock Armour	10	13-Sep-16	22-Sep-16	-574					1
Portion E1 Ch	3+510 - Ch3+810	103	21-May-16 A	01-Oct-16	-583					
RFE1b-410	PE1 Ch3+510-Ch3+810 Trimming at the toe (200m)	20	21-May-16 A	10-Jul-16 A						
RFE1b-420	PE1 Ch3+510-Ch3+810 Geotextile	4	11-Jul-16 A	14-Jul-16 A						
RFE1b-430	PE1 Ch3+510-Ch3+810 10-60kg Underlayer	6	15-Jul-16 A	20-Jul-16 A						
RFE1b-440	PE1 Ch3+510-Ch3+810 1st layer 2-5ton Rock Armour	3	21-Jul-16	23-Jul-16	-628	╞╸				
RFE1b-450	PE1 Ch3+510-3+810 100-200kg Underlayer	8	24-Jul-16	31-Jul-16	-628	┞	╸			
RFE1b-460	PE1 Ch3+510-3+810 1st 6 rows Accropode (760nrs)	10	01-Aug-16	10-Aug-16	-628					
RFE1b-470	PE1 Ch3+510-3+810 2nd lyaer 2-5ton Rock Armour	3	11-Aug-16	13-Aug-16	-628		L			
RFE1b-480	PE1 Ch3+510-3+810 2nd Accropode (1240nrs)	16	14-Aug-16	29-Aug-16	-628			╘╴══╋)	
RFE1b-490	PE1 Ch3+510-3+810 3rd 2-5ton Rock Armour	33	30-Aug-16	01-Oct-16	-583			L	-	-
Portion E1 & E	2 on Cells C049 - C091	180	01-May-16 A	16-Nov-16	-629					
Portion E2 C0	49-C059	87	01-May-16 A	02-Oct-16	-605					
PFE2a-110	PE2 C049-C059 Trimming	24	01-May-16 A	31-Jul-16	-605		-			
PFE2a-120	PE2 C049-C059 Geotextile	6	01-Aug-16	06-Aug-16	-605					

Actual Level of Effort Summary

Actual Work

Remaining Work

Critical Remaining Work

Primavera Systems, Inc.

Page 4 of 15

10	Hong Kong - Zhuhai - Macao Bri	•		-					
ID	Activity Name	Original Duration	Start	Finish	Total Float	Jul	201 Aug	Sep	
PFE2a-130	PE2 C049-C059 10-60kg Underlayer	20	07-Aug-16	26-Aug-16	-605	56	57	58	
PFE2a-140	PE2 C049-C059 2-5ton Rock Armour	37	27-Aug-16	02-Oct-16	-605				÷.
Portion E2 C06	60-C067 & E1 C068-C070	77	21-Jul-16	05-Oct-16	-608				
RFE2a-210	PE2 C060-C067 & PE1 C068-C070 Trimming	24	21-Jul-16*	13-Aug-16	-608				
RFE2a-220	PE2 C060-C067 & PE1 C068-C070 Geotextile	6	14-Aug-16	19-Aug-16	-608		╘╺═		
RFE2a-230	PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer	15	20-Aug-16	03-Sep-16	-608		└╺═╸	÷	
RFE2a-240	PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour	32	04-Sep-16	05-Oct-16	-608				
Portion E1 C07	71-C076	77	01-Sep-16	16-Nov-16	-629			Y	
RFE1a-110	PE1 C071-C076 Trimming	24	01-Sep-16*	24-Sep-16	-629				
RFE1a-120	PE1 C071-C076 Geotextile	6	25-Sep-16	30-Sep-16	-629				1
RFE1a-130	PE1 C071-C076 10-60kg Underlayer	15	01-Oct-16	15-Oct-16	-629			L.	-
RFE1a-140	PE1 C071-C076 2-5ton Rock Armour	32	16-Oct-16	16-Nov-16	-629				L
Portion E1 C07	77-C079	85	01-May-16 A	31-Aug-16	-629			-	
RFE1a-210	PE1 C077-C079 Trimming	6	01-May-16 A	10-Jul-16 A					
RFE1a-220	PE1 C077-C079 Geotextile	2	11-Jul-16 A	22-Jul-16	-629				
RFE1a-230	PE1 C077-C079 10-60kg Underlayer	10	23-Jul-16	01-Aug-16	-629	╘┵╔═			
RFE1a-240	PE1 C077-C079 2-5ton Rock Armour	30	02-Aug-16	31-Aug-16	-629	l	-		
Portion E1 C08	30-C085	20	19-May-16 A	06-Aug-16	-527		-		
RFE1a-340	PE1 C080-C085 2-5ton Rock Armour	20	19-May-16 A	06-Aug-16	-527				
Portion E1 C08	36-C091	133	01-May-16 A	30-Sep-16	-582				Y
RFE1a-410	PE1 C086-C091 Trimming	12	01-May-16 A	14-Aug-16	-582				
RFE1a-420	PE1 C086-C091 Geotextile	3	15-Aug-16	17-Aug-16	-582				
RFE1a-430	PE1 C086-C091 10-60kg Underlayer	10	18-Aug-16	27-Aug-16	-582				
- Romaining Laws	el of Effort ♦ ♦ Milestone	56th Monthly Progress Report Status as o	n 21Jul2016	TASK filter	· Three Mo	onth Rollin			
 Remaining Leve Actual Level of 							·9·		

Primavera Systems, Inc.

Remaining Work

Critical Remaining Work

y ID	Activity Name	Original Start	Finish	Total		201	6	
		Duration		Float	Jul 56	Aug 57	Sep 58	Oc 59
RFE1a-440	PE1 C086-C091 2-5ton Rock Armour	34 28-Aug-	16 30-Sep-16	-582		L		1
Portion C2c & C2	b At C090 - C101 (Ch3+810 - Ch4+262)	195 04-Feb-	16 A 31-Jul-16	23		•		
BF-RFC2c-030	PC2c at C091 - C101 on cells Rock Armour 2-5ton m3 25771m3 221m3/day	148 04-Feb-	16 A 04-Jul-16 A					
BF-RFC2c-060	PC2c at C091 - C101 in front of cells Rock Armour 2-5ton 20,296m3 221m3/day	92 21-Apr-1	6 A 31-Jul-16	23				
Portion C2a At C	102 - C112 (Ch4+262 - Ch4+710)	194 21-Mar-	16 A 30-Sep-16	423				Y
BF-RFC2a-010	PC2a at C102 - C112 on cells Removal of temporary rockfill	41 21-Mar-	16 A 15-Aug-16	469				
BF-RFC2a-020	PC2a at C102 - C112 on cells Geotextile & Underlayer 10-60kg 10907m3 200m3/day	55 21-Apr-2	6 A 31-Aug-16	-283				
BF-RFC2a-030	PC2a at C102 - C112 on cells Rock Armour 2-5ton m3 25,210m3 221m3/day	42 05-Aug-	16 15-Sep-16	-283				
BF-RFC2a-040	PC2a at C102 - C112 in front of cells Removal of temporary rockfill 31,987m3	32 21-Apr-1	6 A 31-Jul-16	484				
BF-RFC2a-050	PC2a at C102 - C112 Accropode 5,226nrs 60nrs/day	87 17-May-	16 A 31-Aug-16	-298				
BF-RFC2a-060	PC2c at C102 - C112 in front of cells Rock Armour 2-5ton 19,855m3 221m3/day	30 01-Sep-	16 30-Sep-16	-298				.
Surcharge		442 14-Nov-	15 A 28-Dec-16	334				
Land Portion B		240 09-Jan-1	6 A 31-Aug-16	453			*	
Edge Areas		240 09-Jan-	6 A 31-Aug-16	453			¥	
SURB0-090	Completion of Section B in Edge Areas	0	31-Aug-16*	-609			+ -1	
at K013 - K027		240 09-Jan-2	6 A 31-Aug-16	-720			▼	
SUEB0-040	PB Edge Area K013-K027 Sand Surcharge Period at +11.5mPD 8mths (4Sep2016)	240 09-Jan-	6 A 28-Jul-16	-720				
SUEB0-042	PB Edge Area K013-K027 Sand Surcharge Removal instructed by the Engineer	0 29-Jul-1	6*	-720				
SUEB0-050	PB Edge Area K013-K027 Sand Surcharge Removal 84,258m3 + 20,880m3(C1a) 10,000m3/day	31 29-Jul-1	6 31-Aug-16	-661	╎╹		q	
SUEB0-120	PB Edge Area K013-K027 Completion (Target Date = 31Dec2014)	0	31-Aug-16*	-720			+-	
at K028 - K035		194 20-Feb-	16 A 31-Aug-16	453			*	
SUEB0-090	PB Edge Area K028-K035 Sand Surcharge Period +11.5mPD 5mths	150 20-Feb-	16 A 12-Jul-16 A					
SUEB0-092	PB Edge Area K028-K035 Sand Surcharge Removal instructed by the Engineer	0 26-Jul-1	5*	490	•			

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Actual Level of Effort Summary

Actual Work

Remaining Work

Critical Remaining Work

Primavera Systems, Inc.

ontract No.	Hong Kong - Zhuhai - Macao Bridge	Hong Kong Boun	dary Cross	sing Faciliti	es - Recl	amation	n Works		
vity ID	Activity Name	Original Duration	Start	Finish	Total Float	Jul	2016 Aug	Sep	Oct
SUEB0-094	PB Edge Area K020-K035 Sand Surcharge Removal instructed by the	Engineer 0	12-Jul-16 A			<u>56</u>	57	58	59
SUEB0-100	PB Edge Area K028-K035 Sand Surcharge Removal 49,985m3 + 14,9	004m3 5,000m3/day 13	13-Jul-16 A	31-Aug-16	-661				
SUEB0-110	PB Edge Area K028-K035 Completion (Target Date = 31Dec2014)	0		31-Aug-16*	-720			•	
at K047 - K052 ((w Deep Cement Mixing)	5	27-Jun-16 A	21-Jul-16	495		,		
DCM-2072	PB Edge Area K047-K052 36-73m Surcharge Removal instructed by the	ne Engineer 0		21-Jul-16*	495				
DCM-2080	PB Edge Area K047-K052 36-73m Surcharge Removal 20,000m3	5	27-Jun-16 A	01-Jul-16 A		.			
DCM-2090	PB Edge Area K047-K052 Completion (Target Date = 31Dec2014)	0		01-Jul-16 A		*			
Land Portion C2a	a	442	14-Nov-15 A	28-Dec-16	334				
Edge Areas		442	14-Nov-15 A	28-Dec-16	-402				
Deep Cement M	lixing Works at C101 - C103	245	17-Dec-15 A	17-Aug-16	-688				
DCM-3070	PC2a Edge Area C101-C103 Surcharge Period 8mths (Land Side) (12	Aug2016) 240	17-Dec-15 A	12-Aug-16	-688				
DCM-3080	PC2a Edge Area C101-C103 Surcharge Removal 36,000m3	5	13-Aug-16	17-Aug-16	-688		╘╼		
DCM-3090	PC2a Edge Area C101-C103 Completion at 43-73m	0		17-Aug-16*	-688		•		
VO - Deep Cem	ent Mixing Works at C104 - C107	240	13-Mar-16 A	07-Nov-16	-599				
DCM-4180	PC2a Edge Area C104-C107 Surcharge Period 8mths (Land Side)(07N	lov2016) 240	13-Mar-16 A	07-Nov-16	-599				
VO - Deep Cem	ent Mixing Works at C108 - C109	240	21-Mar-16 A	15-Nov-16	-604				
DCM-5180	PC2a Edge Area C108-C109 Surcharge Period 8mths (Land Side) 15N	lov2016 240	21-Mar-16 A	15-Nov-16	-604				
at C110 - C112 C	Cellular Seawall	240	03-May-16 A	28-Dec-16	-647				
VO - Deep Cem	nent Mixing Works at C110 - C112	240	03-May-16 A	28-Dec-16	-647			1	
DCM-4280	PC2a Edge Area C110-C112 Surcharge Period 8mths (Land Side) 29D	ec2016 240	03-May-16 A	28-Dec-16	-647				
CH4+710 - CH5+	+110 Rubble Mound Seawall	438	14-Nov-15 A	25-Dec-16	-399				
Deep Cement N	Mixing at CH4+710 - CH4+880	240	30-Apr-16 A	25-Dec-16	-399				
DCM-5070	PC2a Ch4+710 - Ch4+880 Surcharge Monitoring 8mths (25Dec2016)	240	30-Apr-16 A	25-Dec-16	-399				
	Poil M	anthly Dragross Dapart Status	n 21 Jul2016				lling		1
 Remaining Level Actual Level of 		onthly Progress Report Status as c	11 2 IJUI20 IB	TASK filter:	i nree Iv	ionth Ro	ning.		
Actual Work		Page 7 of 15							
Remaining WorlCritical Remaini								Primavera	System

tract No.	Hong Kong - Zhuhai - Macao Bri	dge Hong Ko		· · ·	sing Facilitie	es - Re	clam	ation W			
ty ID	Activity Name		Original Duration	Start	Finish	Total Float		Jul	2016 Aug	Sep	Oc
10-73m Ch4+880) - Ch5+010			18-Jun-16 A	11-Jul-16 A			<u>56</u> ▼	57	58	59
SUEC2a-1130	PC2a Ch4+880 - Ch5+010 Surcharge Sand Removal 24,00	0m3 5,000m3/day		18-Jun-16 A	11-Jul-16 A						
SUEC2a-1140	Completion of Section PC2aC2 at Ch4+880 - Ch5+010		0		11-Jul-16 A			*			
73-120m			255	14-Nov-15 A	20-Jul-16 A						
SUEC2a-2090	PC2a C113-C117 73m-120m Surcharge Sand Period 8mths	(10Jul2016)	240	14-Nov-15 A	30-Jun-16 A		—				
SUEC2a-2092	PC2a C113-C117 73m-120m Surcharge removal instructed b	y the Engineer	0	30-Jun-16 A			•				
SUEC2a-2100	PC2a C113-C117 73m-120m Sand Surcharge Removal 54,0	00m3 10,000m3/day	5	11-Jul-16 A	20-Jul-16 A		4	- 			
SUEC2a-2110	Completion of Section PC2aC2 at C113 - C117 73m-120m		0		20-Jul-16 A			•			
Reclamation Area	S		42	30-Jun-16 A	21-Jul-16	495	-				
C2aC1			22	30-Jun-16 A	21-Jul-16	495		<mark>-</mark>			
SURC2aC1-072	PC2a C2aC1 Sand Surcharge Completed by the instruction	from the Engineer	0		21-Jul-16	495		•			
SURC2aC1-080	PC2a C2aC1 Top up to +11.5mPD 193,082m3 10,000m3/da	y for completion	19	30-Jun-16 A	12-Jul-16 A			•			
C2aC2			30	30-Jun-16 A	30-Jun-16 A		•				
SURC2aC2-072	PC2a C2aC2 Sand Surcharge Removal instruction by the E	ngineer	0	30-Jun-16 A							
SURC2aC2-080	PC2a C2aC2 Sand Surcharge Removal		10	30-Jun-16 A	30-Jun-16 A		•				
SURC2aC2-090	Completion of Section PC2a in C2aC2 Main Areas		0		30-Jun-16 A		*				
Land Portion C1a			6	21-Jul-16	26-Jul-16	-674					
Reclamation Area	s		6	21-Jul-16	26-Jul-16	-674					
C4			6	21-Jul-16	26-Jul-16	-674					
SURC1a-152	PC1a South Sand Surcharge Removal instruction by the En	gineer	0	21-Jul-16		-675					
SURC1a-160	PC1a South East Land Area Sand Surcharge Removal		3	21-Jul-16	23-Jul-16	-619		L-b			
SURC1a-170	PC1a South West Land Area Sand Surcharge Removal		3	24-Jul-16	26-Jul-16	-619		┡┓	1		
SURC1a-180	Completion of Section C1aC4		0		26-Jul-16	-674		•	J		
- Pompining Level	of Effort A Milostopo	56th Monthly Progress Repor	t Status as o	n 21Jul2016	TASK filter:	Three	Mont	h Rollin	a		
 Remaining Level Actual Level of E 		Page 8 c					worn		а.		
Actual Work	-										
Remaining Work										Primavera	System

ntract No.	Hong Kong - Zhuhai - Macao Bridge	Hong Kong Bou	ndary Cross	ing Facilitie	es - Recla	mation W	orks		
vity ID	Activity Name	Origina	al Start	Finish	Total Float	Jul	201 Aug	6 Sep	Oct
						56	57	58	59
Land Portion E2		33	9 21-Jan-16 A	24-Dec-16	-197				
North Part		33	9 21-Jan-16 A	24-Dec-16	-197				
Edge Areas - Nor	rth (C3)	15	0 01-Jun-16 A	24-Dec-16	-200				
SUEE2-370	PE2 North Edge C3 Sand Surcharge Laying up to +11.5mPD 18,	248m3 5,000m3/day	4 01-Jun-16 A	27-Jul-16	-171				
SUEE2-380	PE2 North Edge C3 Sand Surcharge Period as +11.5mPD 5mths	s 15	0 28-Jul-16	24-Dec-16	-200	┖╾═			
Edge Areas - Nor	rth (TM)	15	0 21-Apr-16 A	20-Sep-16	-593				
SUEE2-480	PE2 North Edge TM Sand Surcharge Period as +11.5mPD 5mth	s (17Sep2016) 15	0 21-Apr-16 A	17-Sep-16	-593				
SUEE2-490	PE2 North Edge TM Sand Surcharge Removal 14,600m3 5,000m	n3/day	3 18-Sep-16	20-Sep-16	-543			┕┓	
Edge Areas - Eas	st (TM) C064-C067	15	0 21-Apr-16 A	20-Sep-16	-593				
SUEE2-150	PE2 East Edge C064-C067 Sand Surcharge Period as +11.5mPI	D 5mths (17Sep2016) 15	0 21-Apr-16 A	17-Sep-16	-593				
SUEE2-160	PE2 East Edge C064-C067 Sand Surcharge Removal 14,600m3	5,000m3/day	3 18-Sep-16	20-Sep-16	-543			┕╸	
Land Areas - Eas	t (TM) C057 - C063 Ch2+300 to Ch2+600	1	2 21-Jul-16	01-Aug-16	<mark>-543</mark>		•		
SURE2-055	PE2 Land C057-C063 Removal of Surcharge instructed by the Er	ngineer	0 21-Jul-16*		-542	_ +			
SURE2-060	PE2 Land C057-C063 Tunnel Sand Surcharge Removal at tunnel 10,000m3/day	l area 107,437m3	1 21-Jul-16	01-Aug-16	-496		I		
Land Areas - Wes		22	6 21-Jan-16 A	02-Sep-16	-84			-	
SURE2-180	PE2 Land C061-C064 Non-Tunnel Sand Surcharge Period as +11 7mths 17Aug2016	1.5mPD non tunnel area 21	0 21-Jan-16 A	17-Aug-16	-84				
SURE2-190	PE2 Land C061-C064 Non-Tunnel Sand Surcharge Removal non 10.000m3/dav	tunnel Area 147,437m3 1	5 18-Aug-16	02-Sep-16	-78		-	.	
SURE2-299	Completion of Section PE2 in Land C061-C064 Non-tunnel Recla	amation Area	0	02-Sep-16	-84			⊷	
South Part		18	6 15-Apr-16 A	29-Sep-16	-111				
Edge Areas East	C058 to C063	15	0 21-Apr-16 A	29-Sep-16	-602				
SUEE2-040	PE2 Edge C058-C063 Sand Surcharge Period as +11.5mPD 5mt	ths (17Sep2016) 15	0 21-Apr-16 A	17-Sep-16	-601				
SUEE2-050	PE2 Edge C058-C063 Sand Surcharge Removal 100,481m3 10,0	000m3/day 1	1 18-Sep-16	29-Sep-16	-551			· L	
VO DCM Edge Ar	reas East C056 to C057	15	0 21-Apr-16 A	21-Sep-16	-594				
Remaining Level	of Effort Milestone 56	Oth Monthly Progress Report Status as	on 21Jul2016	TASK filter:	Three Mo	onth Rolling	3.		
Actual Level of E		Page 9 of 15					y -		
Actual Work									
Remaining Work	a Modr							Primavera	Systems

Critical Remaining Work

tract No.	Hong Kong - Zhuhai - Macao Bridge			ing Facilitie		amation			
y ID	Activity Name	Original Duration	Start	Finish	Total Float	Jul	201 Aug	Sep	0
DCM-4380	PE2 Edge C056-C057 Surcharge Period 7mths (Land Side) (17Se	ep2016) 150	21-Apr-16 A	19-Sep-16	-594	56	57	58	5
DCM-4390	PE2 Edge C056-C057 Surcharge Removal 5,000m3	2	20-Sep-16	21-Sep-16	-594			Ŀ	
DCM-4400	PE2 Edge C056-C057 Completion of 43-73m	0		21-Sep-16	-594			L.	
Edge Areas East	C052 to C055	150	21-Apr-16 A	22-Sep-16	-595				
SURE2-440	PE2 Edge C052-C055 300m Zone Sand Surcharge Period as +11	.5mPD 5mths 150	21-Apr-16 A	17-Sep-16	-595				
SURE2-450	PE2 Edge C052-C055 300m Zone Sand Surcharge Removal 52,8	91m3 10,000m3/day 5	18-Sep-16	22-Sep-16	-545			└ -■	
Land Areas		125	15-Apr-16 A	21-Jul-16	-40				
300m to 100m Z	one	97	15-Apr-16 A	21-Jul-16	-40				
SURE2-540	PE2 Land C052-C056 300m Zone Sand Surcharge Removal 105,	782m3 10,000m3/day 17	15-Apr-16 A	30-Jun-16 A					
SURE2-550	Completion of Section PE2 in Land C052-C056 300m Zone Recla	mation Area 0		21-Jul-16	-40	-			
Out of K052 300	m	16	01-Jul-16 A	18-Jul-16 A		· · · · · · · · · · · · · · · · · · ·			
SURE2-030	PE2 Land C052-C060 Non-Tunnel Sand Surcharge Removal 158, 10,000m3/day	673m3 + 28,116m3(C1b) 16	01-Jul-16 A	18-Jul-16 A			i		
Land Portion E1	10,000m3/day	220	04-May-16 A	26-Dec-16	-690				
Edge Areas South	nern Part	220	04-May-16 A	26-Dec-16	-690	·			
DCM-4450	PE1 Edge Area East Zone Additional DCM Works 1,029nrs by 3 p	plant 86	04-May-16 A	15-Jul-16 A	-				
DCM-4460	PE1 Edge Area West Zone Additional DCM Works 927nrs by 3 pla	ant 58	16-Jul-16 A	31-Aug-16	-573	•			
SUEE1-030	PE1 Edge Area at South of C071 Surcharge Laying up to +11.5m	PD 50,000m3 4,200m3/day 12	23-May-16 A	29-Jul-16	-603		3		
SUEE1-040	PE1 Edge Area at South of C071 Surcharge Period as +11.5mPD	0 5mths 150	30-Jul-16	26-Dec-16	-707		►		
Land Portion C2b		278	22-Mar-16 A	24-Dec-16	-284				
Edge Areas		174	13-Jun-16 A	24-Dec-16	-284				
SUEC2b-070-11	PC2b Edge Area Sand Surcharge at 11.0mPD Observational App	roach 6	13-Jun-16 A	26-Jul-16	-284		9		
SUEC2b-070-12	PC2b Edge Area Sand Surcharge Laying 11.0mPD to 11.5mPD 2	,009m3 1	27-Jul-16	27-Jul-16	-284		1		
SUEC2b-080	PC2b Edge Area Sand Surcharge Period as +11.5mPD 5mths	150	28-Jul-16	24-Dec-16	-284	Ļ			
	of Effort A Milestone 56	th Monthly Progress Report Status as o	n 21Jul2016	TASK filter:		onth Roll	ina		
 Remaining Level Actual Level of E⁻ 		Page 10 of 15							
Actual Work									
 Remaining Work Critical Remaining 								Primavera	Systen

tract No.	Hong Kong - Zhuhai - Macao Bri	•	•	-		mation W			
y ID	Activity Name	Original Duration	Start	Finish	Total Float	Jul	201 Aug	6 Sep	0
Reclamation Areas	 د		22-Mar-16 A	30-Jul-16	-199	56	57	58	5
North			21-Jul-16	29-Jul-16	-198				
									1
SURC2b-030	PC2b Main Area North Public Surcharge Removal 42,609m	-	21-Jul-16	29-Jul-16	-181				
SURC2b-040	Completion of Section PC2b at Reclamation Area North	0		29-Jul-16	-198	~~			
South		131	22-Mar-16 A	30-Jul-16	-199				
SURC2b-036	PC2b Main Area South PBF Surcharge Removal 137,244m	3 5,000m3/day 46	22-Mar-16 A	30-Jul-16	-182				
SURC2b-050	Completion of Section PC2b at Reclamation Area South	0		30-Jul-16	-199	╘╼			
Land Portion C2c		339	21-Jan-16 A	24-Dec-16	-251				1
Edge Areas		166	15-Jun-16 A	24-Dec-16	-260				
SUEC2c-030-11	PC2c Edge Area Sand Surcharge at 11.0mPD Observationa	al Approach 6	15-Jun-16 A	22-Jul-16	-260				
SUEC2c-030-12	PC2c Edge Area Sand Surcharge Laying 11.0mPD to 11.5m	nPD 7,232m3 4	23-Jul-16	27-Jul-16	-223				
SUEC2c-040	PC2c Edge Area Sand Surcharge Period 2nd stage 5mths	150	28-Jul-16	24-Dec-16	-260	╘╸═			
Reclamation Areas	S	259	21-Jan-16 A	05-Oct-16	-171				-
West		19	21-Jul-16	08-Aug-16	-113				1
SURC2c-W032	PC2c Main Area PBF Surcharge Removal instructed by the	Engineer 0		21-Jul-16	-134	4			
SURC2c-W040	PC2c Main Area PBF Surcharge Removal 90162m3 10,000	0m3/day 18	21-Jul-16	08-Aug-16	-124				
SURC2c-W050	Completion of Section PC2c at Reclamation Area	0		08-Aug-16	-113		L_		
East		259	21-Jan-16 A	05-Oct-16	-172				
SURC2c-E030	PC2c Main Area PBF Surcharge Period 7mths (17Aug2016) 210	21-Jan-16 A	16-Sep-16	-172				
SURC2c-E040	PC2c Main Area PBF Surcharge Removal 90163m3 10,000	0m3/day 18	17-Sep-16	05-Oct-16	-160				
SURC2c-E050	Completion of Section PC2c at Reclamation Area	0		05-Oct-16	-172				•
Portion D		121	13-Jun-16 A	07-Nov-16	361				
Site Construction	on	121	13-Jun-16 A	07-Nov-16	361				
 Remaining Level 	of Effort Milestone	56th Monthly Progress Report Status as o	n 21Jul2016	TASK filter	: Three Mo	onth Rolling	-		
Actual Level of Et	ffort VSummary	Page 11 of 15							
Actual Work									
Remaining Work Critical Remaining								Primavera	Systen

ntract No.	Hong Kong - Zhuhai - Macao Brid				clamation			
ity ID	Activity Name	Original Start Duration	Finish	Total Float	Jul	Aug	016 Sep	00
C1 to C4		118 13-Jun-16 A	07-Nov-16	361	56	57	58	59
Installations of Pr	ecast Culverts except sloping outfalls	32 21-Jun-16 A	22-Jul-16	-204		,		
Culvert C3		16 21-Jun-16 A	06-Jul-16 A					
C3-2		4 21-Jun-16 A	24-Jun-16 A		▼			
PD-C3-2-120	PD C3-2 Backfill Manhole upto +5.5mPD	4 21-Jun-16 A	24-Jun-16 A	-				
C3-3		4 25-Jun-16 A	28-Jun-16 A					
PD-C3-3-120	PD C3-3 Backfill Manhole upto +5.5mPD	4 25-Jun-16 A	28-Jun-16 A					
C3-4		4 29-Jun-16 A	02-Jul-16 A		₩			
PD-C3-4-120	PD C3-4 Backfill Manhole upto +5.5mPD	4 29-Jun-16 A	02-Jul-16 A		►			
C3-5		4 03-Jul-16 A	06-Jul-16 A		-			
PD-C3-5-120	PD C3-5 Backfill Manhole upto +5.5mPD	4 03-Jul-16 A	06-Jul-16 A		•			
Culvert C4		16 07-Jul-16 A	22-Jul-16	-204		,		
C4-2		4 07-Jul-16 A	10-Jul-16 A					
PD-C4-2-120	PD C4-2 Backfill Manhole upto +5.5mPD	4 07-Jul-16 A	10-Jul-16 A		-			
C4-3		4 11-Jul-16 A	14-Jul-16 A					
PD-C4-3-120	PD C4-3 Backfill Manhole upto +5.5mPD	4 11-Jul-16 A	14-Jul-16 A					
C4-4		4 15-Jul-16 A	18-Jul-16 A					
PD-C4-4-120	PD C4-4 Backfill Manhole upto +5.5mPD	4 15-Jul-16 A	18-Jul-16 A		•			
C4-5		4 19-Jul-16 A	22-Jul-16	-204		,		
PD-C4-5-120	PD C4-5 Backfill Manhole upto +5.5mPD	4 19-Jul-16 A	22-Jul-16*	-204	►			
Removal of Temp	orary Bridge and Channel Beside Existing Seawall	48 13-Jun-16 A	30-Jul-16	-355				
PD-TD1-0050	PD EC1 Beside Existing Seawall - Reinstatement	30 13-Jun-16 A	20-Jul-16 A					
PD-TD1-0060	PD EC1 Existing Seawall Type 2 & Backfill	10 21-Jul-16 A	30-Jul-16	-355	-			
Remaining Level		56th Monthly Progress Report Status as on 21Jul2016	TASK filter:	: Three	Month Rol	ling.		
 Actual Level of E Actual Work 	Effort VIII Summary	Page 12 of 15						
Remaining Work	c .						Primavera	a Systen

Critical Remaining Work

y ID	Activity Name	Original Start	Finish	Total			2016		
-		Duration		Float	Ju 56		Aug 57	Sep 58	Oc 59
PD-TD1-0999	Completion of PD EC1	0	30-Jul-16	-327			0.		
Construction of P	Permanent Seawall	110 21-Jun-16 A	07-Nov-16	361					
Vertical Seawall	Type V2 6+136 to 5+650	110 22-Jun-16 A	07-Nov-16	361					
Seawall Blocks	Installation	18 21-Jul-16	08-Aug-16	-566			7		
PD-V2-0070	PD C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2A 352nrs (20nrs/day)	18 21-Jul-16	08-Aug-16	-566					
Rockfill Type 2 I	behind seawall	20 22-Jun-16 A	11-Aug-16	-550			-		
PD-V2-0180	PD C1 West - Vertical Seawall V2 Rockf ill Type 2 VSOP22-20 1,400m3	3 09-Aug-16	11-Aug-16	-550			9		
PD-V2-0220	PD C4 East - Vertical Seawall V2 Rockf ill Type 2 VSOP04-01 2,500m3	9 22-Jun-16 A	30-Jun-16 A						
Geotextile Type	1	13 01-Jul-16 A	13-Aug-16	-550					
PD-V2-0230	PD C1 West - Vertical Seawall V2 Geotextile Type 1 VSOP22-20 1,000m2	2 12-Aug-16	13-Aug-16	-550			2		
PD-V2-0270	PD C4 East - Vertical Seawall V2 Geotextile Type 1 VSOP04-01 1,700m2	3 01-Jul-16 A	04-Jul-16 A		-				
Reclamation up	to +3.25mPD	31 05-Jul-16 A	22-Aug-16	-550					
PD-V2-0280	PD C1 West - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP22-20	8 15-Aug-16	22-Aug-16	-550					
PD-V2-0320	PD C4 East - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP05-01	6 05-Jul-16 A	20-Jul-16 A			•			1
Insitu Concrete	Coping	110 01-Jul-16 A	07-Nov-16	361					<u>}</u>
PD-V2-0322	Allow Completion of Coping before end June 2017 from Interface Contract C03	0 21-Jul-16		471		•			
PD-V2-0340	PD C1/C2 - Insitu Coping VSOP20-16 11bays	22 01-Jul-16 A	06-Aug-16	222					
PD-V2-0350	PD C2/C3 - Insitu Coping VSOP16-11 17bays	34 07-Aug-16	12-Sep-16	222					
PD-V2-0360	PD C3/C4 - Insitu Coping VSOP11-05 16bays	32 13-Sep-16	16-Oct-16	222				-	
PD-V2-0370	PD C4 East - Insitu Coping VSOP05-01 10bays	20 17-Oct-16	07-Nov-16	222					
Reclamation up	to +5.5mPD	82 07-Aug-16	02-Nov-16	226		-			
PD-V2-0390	PD C1/2 - Coping backfill with compaction upto +5.5mPD VSOP20-16	11 07-Aug-16	18-Aug-16	264		4-□	—		
PD-V2-0400	PD C2/3 - Coping backfill with compaction upto +5.5mPD VSOP16-11	17 13-Sep-16	30-Sep-16	241					ŧ

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Summary

Actual Level of Effort

Actual Work

1

- Remaining Work
- Critical Remaining Work

Primavera Systems, Inc.

' ID	Activity Name	Original Start	Finish	Total			2016		
		Duration		Float	Jul 56	Au 5		Sep 58	O 5
PD-V2-0410	PD C3/4 - Coping backfill with compaction upto +5.5mPD VSOP	1-05 16 17-Oct-16	02-Nov-16	226	00		<u> </u>		
Rock Armour		49 22-Jun-16 A	08-Sep-16	-617				▼	
PD-V2-0910	PD C1 West - Vertical Seawall V2 Armour VSOP22-20	29 09-Aug-16	08-Sep-16	-566		-		┓	
PD-V2-0950	PD C4 East - Vertical Seawall V2 Armour VSOP05-01	29 22-Jun-16 A	30-Jul-16	-558					
PD-V2-0990	Completion of North Vertical Seawall	0	08-Sep-16*	-617			Ļ	÷	
Sloping Seawall 1	Гуре S1 0+000 to 0+420	91 21-Jun-16 A	19-Oct-16	-568	1				
Removal of Sout	h Temporary Seawall S1	35 21-Jun-16 A	26-Aug-16	-517					
PD-S1-0010	PD C1 West - Removal of S1 Temporary seawall	14 21-Jun-16 A	05-Jul-16 A						
PD-S1-0015	PD C1/2 - Removal of S1 Temporary seawall	14 06-Jul-16 A	20-Jul-16 A		-				
PD-S1-0020	PD C2/3 - Removal of S1 Temporary Seawall	14 21-Jul-16	04-Aug-16	-517	A				
PD-S1-0025	PD C3/4 - Removal of S1 Temporary Seawall	14 05-Aug-16	19-Aug-16	-517					
PD-S1-0030	PD C4 East - Removal of S1 Temporary Seawall	7 20-Aug-16	26-Aug-16	-517					
S1 Rockfill Type	1	91 06-Jul-16 A	19-Oct-16	-568	-				
PD-S1-1010	PD C1 West - Sloping Seawall Type S1 Reconstruction	14 06-Jul-16 A	20-Jul-16 A						
PD-S1-1020	PD C1/2 - Sloping Seawall Type S1 Reconstruction	21 21-Jul-16	11-Aug-16	-524	-				
PD-S1-1030	PD C2/3 - Sloping Seawall Type S1 Reconstruction	21 12-Aug-16	03-Sep-16	-524		╘			
PD-S1-1040	PD C3/4 - Sloping Seawall Type S1 Reconstruction	21 04-Sep-16	26-Sep-16	-524					
PD-S1-1045	PD C4 East - Sloping Seawall Type S1Reconstruction	22 27-Sep-16	19-Oct-16	-524				╘╾∎	
PD-S1-1050	Completion of Southern Sloping Seawall	0	19-Oct-16*	-568					
Extension Culver	t EC1	42 21-Jun-16 A	19-Jul-16 A		V				
Backfilling & Recla	amation	42 21-Jun-16 A	19-Jul-16 A		v				
PD-EC1-0100-020	PD EC1-1 Backfill and Compaction	6 21-Jun-16 A	24-Jun-16 A						
PD-EC1-0100-030	PD EC1-2 Backfill and Compaction	5 25-Jun-16 A	28-Jun-16 A	- -					
- Domoising Laure	of Effort A Milestons	th Monthly Progress Report Status as on 21Jul2016	TASK filter		onth Ro	lling	·		
 Remaining Level Actual Level of E¹ 						ining.			

Primavera Systems, Inc.

Remaining Work

E

Critical Remaining Work

ivity ID		idge Hon	ng Kong Boundary Cross		$c_{s} - \kappa c$	Clamatic				
	Activity Name		Original Start Duration	Finish	Total Float	Ju		201 Aug	Sep	Oct
PD-EC1-0100-040	PD EC1-3 Backfill and Compaction		5 29-Jun-16 A	02-Jul-16 A		50	<u>}</u>	57	58	59
PD-EC1-0100-050	PD EC1-4 Backfill and Compaction		5 03-Jul-16 A	06-Jul-16 A						
PD-EC1-0100-060	PD EC1-5 Backfill and Compaction		5 07-Jul-16 A	10-Jul-16 A		►				
PD-EC1-0100-070	PD EC1-6 Backfill and Compaction		5 11-Jul-16 A	14-Jul-16 A		•				
PD-EC1-0100-080	PD EC1-7 Backfill and Compaction		5 14-Jul-16 A	16-Jul-16 A		M				
PD-EC1-0100-090	PD EC1-8 Outfall Backfill and Compaction		5 17-Jul-16 A	19-Jul-16 A		•	ſ			
Norks Area W	A2 (Tung Chung)		1434 21-May-12 A	28-Feb-17	0					
Zone A			1434 21-May-12 A	28-Feb-17	0					
A1880	Maintenance of Engineer's Accommodation		1434 21-May-12 A	28-Feb-17	0	 	-			
Norks Area TK	O Fill Bank		1254 25-Sep-12 A	30-Nov-16	0					
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities in Zone	A, B1 & B2	1254 25-Sep-12 A	30-Nov-16	0					
 Remaining Level of Ef Actual Level of Ef 			Report Status as on 21Jul2016	TASK filter	: Three	Month R	olling			

Appendix C - Implementation	Schedule of Environmental Mitigation Measures

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Air Quality		•		
S5.5.6.1 of	A1	The contractor shall follow the procedures and requirements given in the Air Pollution	All construction sites	V
HKBCFEIA		Control (Construction Dust) Regulation		
S5.5.6.2 of HKBCFEIA and S4.8.1 of TKCLKLEIA	A2	 Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by 	All construction sites	V
INCERTEIA		impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;		
		• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;		
		• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.		
		• 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;		
		• 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		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;		
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;		
		 Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; 		
		 Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 		
		 Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; 		
		 Any skip hoist for material transport should be totally enclosed by impervious sheeting; 		
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;		
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;		
		 All unpaved roads/exposed area shall be watered which results in dust suppression by forming moist cohesive films among the discrete grains of road surface material. No burning of debris or other materials on the works areas is allowed; Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created; 		
		 Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading; During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards; 		
		 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 		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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.		
S5.5.6.3 of	A3	The Contractor should undertake proper watering on all exposed spoil and associated	All construction sites	V
HKBCFEIA		work areas (with at least 8 times per day) throughout the construction phase.		
and S4.8.1 of				
TKCLKLEIA				
S5.5.6.4 of	A4	Implement regular dust monitoring under EM&A programme during the construction	Selected	V
HKBCFEIA		stage.	representative dust	
and S4.11 of			monitoring station	
TKCLKLEIA				
S5.5.7.1 of	A5	The following mitigation measures should be adopted to prevent fugitive dust emissions	All construction sites	N/A
HKBCFEIA		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;		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 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.		
S5.5.2.7 of	A6	The following mitigation measures should be adopted to prevent	All construction sites	N/A
HKBCFEIA		fugitive dust emissions at barging point:		(Construction in
		All road surface within the barging facilities will be paved;		process)
		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.		
Construction	Noise (Air bor	ne)		I
S6.4.10 of	N1	Use of good site practices to limit noise emissions by considering the following:	All construction sites	V
HKBCFEIA		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		

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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.		
S6.4.11 of	N2	Install temporary hoarding located on the site boundaries between noisy construction	All construction sites	V
HKBCFEIA		activities and NSRs. The conditions of the hoardings shall be properly maintained		
		throughout the construction period.		
S6.4.12 of	N3	Install movable noise barriers (typically density @14kg/m ²), acoustic mat or full	For plant items listed	N/A
HKBCFEIA		enclosure close to noisy plants including air compressor, generators, saw.	in Appendix 6D of the	
			EIA report at all	
			construction sites	
S6.4.13 of	N4	Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed	V
HKBCFEIA			in Appendix 6D of the	
			EIA report at all	
			construction sites	
S6.4.14 of	N5	Sequencing operation of construction plants where practicable.	All construction sites	V
HKBCFEIA			where practicable	
S5.1 of	N6	Implement a noise monitoring under EM&A programme.	Selected	V

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA			representative noise	
			monitoring station	
Waste Manag	jement (Const	ruction Waste)		
S12.6 of	WM1	The Contractor shall identify a coordinator for the management of waste.	All construction sites	V
TMCLKLEIA			All construction sites	
S12.6 of	WM2	The Contractor shall apply for and obtain the appropriate licenses for the disposal of	All construction sites	V
TMCLKLEIA		public fill, chemical waste and effluent discharges.		
S12.6 of	WM3	EM&A of waste handling, storage, transportation, disposal procedures and		V
TMCLKLEIA		documentation through the site audit programme shall be undertaken.	All construction sites	
S8.3.8 of	WM4	Construction and Demolition Material		V
HKBCFEIA		The following mitigation measures should be implemented in handling the waste:		
and S12.6 of		Maintain temporary stockpiles and reuse excavated fill material for backfilling and		
TMCLKLEIA		reinstatement;		
		Carry out on-site sorting;	All construction sites	
		Make provisions in the Contract documents to allow and promote the use of	All construction sites	
		recycled aggregates where appropriate;		
		Adopt 'Selective Demolition' technique to demolish the existing structures and		
	facilities with a view t	facilities with a view to recovering broken concrete effectively for recycling purpose,		
		where possible;		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; 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. 		
		 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; and The surplus surcharge should be transferred to a fill bank. 		
S8.3.9- S8.3.11 of HKBCFEIA and S12.6 of TMCLKLEIA	WM5	 <u>C&D Waste</u> 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 and falsework 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 	All construction sites	V

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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.		
S8.2.12-	WM6	Chemical Waste	All construction sites	V
S8.3.15 of		Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal		
HKBCFEIA		(Chemical Waste) (General) Regulation, should be handled in accordance with the		
and S12.6 of		Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.		
TMCLKLEIA		Containers used for the storage of chemical wastes should be suitable for the		
		substance they are holding, resistant to corrosion, maintained in a good condition,		
		and securely closed; have a capacity of less than 450 liters unless the specification		
		has been approved by the EPD; and display a label in English and Chinese in		
		accordance with instructions prescribed in Schedule 2 of the regulation.		
		• The storage area for chemical wastes should be clearly labelled and used solely for		
		the storage of chemical waste; enclosed on at least 3 sides; have an impermeable		
		floor and bunding of sufficient capacity to accommodate 110% of the volume of the		
		largest container or 20 % of the total volume of waste stored in that area, whichever		
		is the greatest; have adequate ventilation; covered to prevent rainfall entering; and		
		arranged so that incompatible materials are adequately separated.		
		• 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		

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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.		
S8.3.16 of	WM7	Sewage	All construction sites	V
HKBCFEIA		Adequate numbers of portable toilets should be provided for the workers. The		
and S12.6 of		portable toilets should be maintained in a state, which will not deter the workers		
TMCLKLEIA		from utilizing these portable toilets. Night soil should be collected by licensed		
		collectors regularly.		
S8.3.17 of	WM8	General Refuse	All construction sites	V
HKBCFEIA		The site and surroundings shall be kept tidy and litter free. General refuse		
and S12.6 of		generated on-site should be stored in enclosed bins or compaction units separately		
TMCLKLEIA		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		

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Water Quality	(Construction	 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. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. All waste containers shall be in a secure area on hardstanding. 		
	W1	Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of backfilling, as well as protection measures. Details of the measures are provided below:	During filling	V

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
EIA Ref.		 Reclamation filling for the Project shall not proceed until at least 200m of leading seawall at the reclamation area formed above +2.2mPD, unless otherwise agreement was obtained from EPD, except for the 300m gaps for marine access. All underwater filling works shall be carried out behind seawalls to avoid dispersion of suspended solids outside the Project limit; Except for the filling of the cellular structures, not more than 15% public fill shall be used for reclamation filling below +2.5mPD during construction of the seawall; After the seawall is completed except for the 300m marine access as indicated in the EPs, not more than 30% public fill shall be used for reclamation filling below +2.5mPD, unless otherwise agreement from EPD was obtained; Upon completion of 200m leading seawall, no more than a total of 60 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 60,000 m3 for HKBCF and TMCLKL southern landfall reclamation during the filling operation; and Upon completion of the whole section of seawall except for the 300m marine access 	Location	-
		as indicated in the EPs, no more than a total of 190 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 190,000 m3 for the		
		 remaining filling operations for HKBCF and TMCLKL southern landfall reclamation. Floating type perimeter silt curtains shall be around the HKBCF site before the commencement of marine works. Staggered layers of silt curtain shall be provided 		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 to prevent sediment loss at navigation accesses. The length of each staggered layers shall be at least 200m; Single layer silt curtain to be applied around the North-east airport water intake; The silt-curtains should be maintained in good condition to ensure the sediment plume generated from filling be confined effectively within the site boundary; The filling works shall be scheduled to spread the works evenly over a working day; Cellular structure shall be used for seawall construction; A layer of geotextile shall be placed on top of the seabed before any filling activities take place inside the cellular structures to form the seawall; The conveyor belts shall be fitted with windboards and conveyor release points shall be covered with curtain to prevent any spillage of filling materials onto the surrounding waters; and An additional layer of silt curtain shall be installed near the active stone column installation points. A layer of geotextile with stone blanket on top shall be placed on the seabed prior to stone column installation works. 		
S9.11.1.3 of HKBCFEIA and S6.10 of	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:	All land-based construction sites	V

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA	Ref	 wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt 		Status
		or debris into any drainage system;		
		open stockpiles of construction materials (e.g. aggregates and sand) on site		

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EM&A Log	Environmental Mitigation Measures	Location	Implementation
Ref			Status
Ref	 should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 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 		Status
	•	Ref should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 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	Ref should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; • 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

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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 storm water system		
S9.14 of	W3	Implement a water quality monitoring programme	At identified	V
HKBCFEIA			monitoring location	
and S6.10 of				
TMCLKLEIA				
S6.10 of	W4	All construction works shall be subject to routine audit to ensure implementation of all	All construction site	V
TMCLKLEIA		EIA recommendations and good working practice.	areas	
Ecology (Con	struction Phas	e)		
S10.7 of	E1	Install silt curtain during the construction	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
and S8.14 of				
TMCLKLEIA		Construct seawall prior to reclamation filling where practicable		

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Good site practices		
		Strict enforcement of no marine dumping		
		Site runoff control		
		Spill response plan		
S10.7 of	E2	Watering to reduce dust generation; prevention of siltation of freshwater habitats;	Land-based works	V
HKBCFEIA		Site runoff should be desilted, to reduce the potential for suspended sediments,	areas	
		organics and other contaminants to enter streams and standing freshwater.		
S10.7 of	E3	Good site practices, including strictly following the permitted works hours, using	Land-based works	V
HKBCFEIA		quieter machines where practicable, and avoiding excessive lightings during night	areas	
and S8.14 of		time.		
TMCLKLEIA				
S10.7 of	E4	Dolphin Exclusion Zone	Marine works	V
HKBCFEIA		Dolphin watching plan		
and S8.14 of				
TMCLKLEIA				
S10.7 of	E5	Decouple compressors and other equipment on working vessels	Marine works	V
HKBCFEIA		Proposal on design and implementation of acoustic decoupling measures applied		
and S8.14 of		during reclamation works		
TMCLKLEIA		Avoidance of percussive piling		
S10.7 of	E6	Control vessel speed	Marine traffic	V

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
HKBCFEIA		Skipper training		
and S8.14 of		Predefined and regular routes for working vessels; avoid Brothers Islands		
TMCLKLEIA				
S10.10 of	E7	Vessel based dolphin monitoring	Northeast and	V
HKBCFEIA			Northwest	
and S8.14 of			Lantau	
TMCLKLEIA				
Fisheries				
S11.7 of	F1	Reduce re-suspension of sediments	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
		Good site practices		
		Strict enforcement of no marine dumping		
		Spill response plan		
S11.7 of	F2	Install silt-grease trap in the drainage system collecting surface runoff	Reclamation area	V
HKBCFEIA				
Landscape &	Visual (Constr	uction Phase)		
S14.3.3. 3 of	LV1	Mitigate Landscape Impacts	All construction site	N/A
HKBCFEIA			areas	
and S10.9 of		G1/CM4 Grass-hydroseed or sheeting bare soil surface and stock pile areas.		
TMCLKLEIA		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		

Monthly EM&A Report for July 2016

EIA Ref.	EM&A Log Ref	Environmental Mitigation Measures	Location	Implementation Status
		rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of new coastline.		
S10.9 of TMCLKLEIA	LV2	Mitigate Landscape Impacts CM7 Ensure no run-off into water body adjacent to the Project Area.	All construction site areas	V
S14.3.3. 3 of HKBCFEIA	LV4	Mitigate Visual ImpactsV1Minimize time for construction activities during construction period.	All construction site areas	V
S10.9 of TMCLKLEIA	LV5	<u>Mitigate Visual Impacts</u> CM6 Control night-time lighting and glare by hooding all lights.	All construction site areas	V
EM&A				
S15.2.2 of HKBCFEIA	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	All construction site areas	V
S15.5 - S15.6 of HKBCFEIA	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	All construction site areas	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

Appendix D - Summary of Action and Limit Levels

Location	Action Level	Limit Level
AMS2	374 μg/m ³	500 μg/m ³
AMS3B*	368 μg/m ³	500 μg/m ³
AMS6	360 μg/m ³	500 μg/m ³
AMS7	370 μg/m ³	500 μg/m ³

Table 1 – Action and Limit Levels for 1-hour TSP

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Location	Action Level	Limit Level
AMS2	176 μg/m³	260 μg/m ³
AMS3B*	167 μg/m³	260 μg/m ³
AMS6	173 μg/m³	260 μg/m ³
AMS7	183 μg/m ³	260 μg/m ³

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdavs)

Location	Action Level	Limit Level
NMS2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
NMS3B	weekdays, is received	*65 / 70 dB(A)
	from any one of the sensitive	
	receivers	

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

Parameters	Action	Limit
DO in mg L ⁻¹	Surface and Middle	Surface and Middle
(Surface, Middle & Bottom)	5.0	4 .2 (except 5 mg/L for FCZ)
	Bottom	<u>Bottom</u>
	4.7	3.6
SS in mg L ⁻¹	23.5 and 120% of upstream	34.4 and 130% of upstream
(depth-averaged)	control station's SS at the	control station's SS at the same
	same tide of the same day	tide of the same day and
		10mg/L for WSD Seawater
		intakes
Turbidity in NTU	27.5 and 120% of upstream	47.0 and 130% of upstream
(depth-averaged)	control station's turbidity at	control station's turbidity at the
	the same tide of the same	same tide of the same day
	day	

Table 4 – Action and Limit Levels for Water Quality

Notes:

- 1. "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- 2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table 5(a) Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL):

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

For North Lantau Social Cluster, action level will be trigger if either NEL **or** NWL fall below the criteria; limit level will be triggered if both NEL **and** NWL fall below the criteria.

Table 5(b) Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

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

Station	Tung Chung Deve	lopment Pier (A	MS2) Operator:	Leung Yiu Ting	_
Cal. Date:	18-May-16		Next Due Date:	18-Jul-16	_
Equipment No.:	A-001-78T		Serial No.	3383	
			Ambient Condition		
Temperat	ure, Ta (K)	299	Pressure, Pa (mmHg)	757.8	

	(Drifice Transfer Sta	andard Information		
Serial No:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15		mc x Qstd + bc = [[OH x (Pa/760) x (298/Ta)] ^{1/2}	
Next Calibration Date:	29-May-16		Qstd = {[DH x (Pa/i	760) x (298/Ta)] ^{1/2} -bc} / mc	

		Calibration o	of TSP Sampler		
		Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.9	2.80	1.41	48.0	47.85
13	6.7	2.58	1.30	42.0	41.87
10	4.9	2.21	1.11	34.0	33.89
7	3.8	1.94	0.98	28.0	27.91
5	2.5	1.58	0.79	22.0	21.93
Slope , mw = Correlation Coe		0.9936	Intercept, bw =	-12.1	1393
Slope , mw = Correlation Coe	41.9392 efficient* =	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co	41.9392	check and recalibrate.	Intercept, bw = Calculation	-12.	1393
Slope , mw = Correlation Coe If Correlation Co	41.9392	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point rve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation		1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		1393
Slope , mw = Correlation Coe If Correlation Coe From the TSP F From the Regree	41.9392 efficient* = coefficient < 0.990, of ield Calibration Cur ssion Equation, the	check and recalibrate. Set Point rve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation x [(Pa/760) x (298/7		42.51

Remarks:			
QC Reviewer: _	KY Shim	Signature:	Date: 18/5//6
			D:\HVS Calibration Certificate (Existing

Station	Tung Chung De	velopment Pier (A	MS2) Operator:	Leung Yiu Ting						
Cal. Date:	15-Jul-16	t majas	Next Due Date:	15-Sep-16						
Equipment No.:	A-001-78T		Serial No.	3383	e e e e e e e e e e e e e e e e e e e					
	Ambient Condition									
Temperat	ure, Ta (K)	303.2	Pressure, Pa (mmHg)	755.4						
· '	. , /	LI								

Orifice Transfer Standard Information								
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737			
Last Calibration Date:	31-May-16	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}						
Next Calibration Date:	31-May-17	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc						

		Calibration of	of TSP Sampler		
		Orfice	HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.7	2.74	1.39	47.0	46.45
13	6.6	2.54	1.29	42.0	41.51
10	4.9	2.19	1.11	34.0	33.61
7	3.7	1.90	0.97	27.0	26.69
5	2.6	1.59	0.81	21.0	20.76
Correlation Coe		0.9987 heck and recalibrate.	_		
			Calculation		
From the TSP Fie	eld Calibration Curv	ve, take Qstd = 1.30m ³ /min			
From the Regres	sion Equation, the	'Y" value according to			
		mw x Qstd + bw = IC	х [(Pa/760) x (298/Л	Γa)] ^{1/2}	
Therefore, Set Po	oint; IC = (mw x Q	std + bw) x [(760 / Pa) x (Ta / 29	98)] ^{1/2} =		42.66

Remarks:						
QC Reviewer:	WS	CHAN	Signature:	Zi	Date:	alibration Certificate (Existing

Station	Site Boundary of	Site Office (WA2)) (AMS3B) Operator:	Leung Yiu Ting	
Cal. Date:	29-Jun-16		Next Due Date:	29-Aug-16	
Equipment No.:	A-001-79T	_	Serial No.	3384	
			Ambient Condition		
Temperat	ure, Ta (K)	302.0	Pressure, Pa (mmHg)	756.3	

	Orifice Transfer Standard Information								
Serial No:	Serial No: 988 Slope, mc 1.99349 Intercept, bc -0.027								
Last Calibration Date:	31-May-16	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}							
Next Calibration Date:	Next Calibration Date: 31-May-17 Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc								

	Station Station	Calibration	of TSP Sampler	CONTRACTOR OF THE		
		Orfice	HVS Flow Recorder			
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.3	- 2.68	1.36	49.0	48.56	
13	6.1	2.45	1.24	43.0	42.61	
10	4.9	2.19	1.11	35.0	34.68	
7	3.2	1.77	0.90	25.0	24.77	
5	2.0	1.40	0.72	15.0	14.86	
By Linear Regre Slope , mw = Correlation Coe	ession of Y on X 52.4586 fficient* =	0.9985	Intercept, bw =	-22.8	3441	
Slope , mw = Correlation Coe	52.4586 fficient* =		Intercept, bw = _	-22.8	3441	
Slope , mw = Correlation Coe	52.4586 fficient* =	0.9985 heck and recalibrate.	Intercept, bw = _	-22.8	3441	
Slope , mw = Correlation Coe *If Correlation Co	52.4586 fficient* = pefficient < 0.990, c	heck and recalibrate. Set Point	Intercept, bw = Calculation	-22.8	3441	
Slope , mw = Correlation Coe *If Correlation Co	52.4586 fficient* = pefficient < 0.990, c	heck and recalibrate.	-	-22.8	3441	
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fie	52.4586 fficient* = pefficient < 0.990, c eld Calibration Curr	heck and recalibrate. Set Point	-	-22.8	3441	
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fie	52.4586 fficient* = pefficient < 0.990, c eld Calibration Curr	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		3441	

Signature:

4

QC Reviewer: US CHAN

Date: <u>29/06/16</u>

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Station	Hong Kong SkyCi	ity Marriott Hotel (AMS7) Operator:	Leung yiu ting	_	
Cal. Date:	29-Jun-16		Next Due Date:	29-Aug-16	-	
Equipment No.:	A-001-80T	-	Serial No.	3385		
			Ambient Condition			
Temperat	ure, Ta (K)	302.0	Pressure, Pa (mmHg)	756.3		

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737		
Last Calibration Date:	31-May-16	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}					
Next Calibration Date: 31-May-17 Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc							

		Calibration o	of TSP Sampler	and the second		
		Orfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.3	.** 2.68	1.36	50.0	49.55	
13	6.4	2.51	1.27	44.0	43.60	
10	5.0	2.22	1.13	37.0	36.66	
7	3.4	1.83	0.93	24.0	23.78	
5	2.3	1.50	0.77	16.0	15.85	
		check and recalibrate.	_			
Slope , mw =	57.3614	- 0.9971	Intercept, bw =	-28.	6477	
Correlation Coe			_			
	Semelent < 0.000, 0	Shour and roodilbrato.				
		Set Point	t Calculation			
From the TSP Fi	ield Calibration Cur	rve, take Qstd = 1.30m ³ /min				
From the Regres	ssion Equation, the	"Y" value according to				
				1/2		
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)]**		
Therefore Set P	Point ⁻ IC = (mw x C	Qstd + bw) x [(760 / Pa) x (Ta / 2	98)] ^{1/2} =		46.34	
morororo, ootr	o, . o (
		an and a second s				
Remarks:		,				
QC Reviewer: _	~	Signature:	81		Date: 29/06/16	

D:\HVS Calibration Certificate (Existing



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 31,	2016 Rootsmeter	-/	438320	Ta (K) -	298
Operator Tisch	Orifice I.1		0988	Pa (mm) -	754.38
PLATE VOLUM OR STAR Run # (m3) 1 N 2 N 3 N 4 N 5 N	T STOP (m3) A NA A NA A NA A NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3670 0.9750 0.8700 0.8260 0.6830	METER DIFF Hg (mm) 3.2 6.4 7.9 8.7 12.7	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9884 0.9842 0.9821 0.9811 0.9758	0.7230 1.0094 1.1289 1.1878 1.4288	1.4090 1.9926 2.2278 2.3365 2.8179		0.9957 0.9915 0.9894 0.9884 0.9831	0.7284 1.0170 1.1373 1.1967 1.4394	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slop intercept coefficie	t (b) = ent (r) =	1.99349 -0.02737 0.99988 Pa/760) (298/5	[[Qa slope intercept coefficie y axis =	t (b) =	1.24829 -0.01727 0.99988 Ca/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	Rupprecht & Patashnick TEOM [®]				
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 140	DOAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6	_			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

557	CPM
557	CPM

Hour	Date (dd-mm-yy)	Time		a contraction	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	12:15	-	13:15	28.1	77	0.04530	1812	30.20
2	07-05-16	13:15	-	14:15	28.2	76	0.04659	1863	31.05
3	07-05-16	14:15	-	15:15	28.4	78	0.04560	1824	30.40
4	07-05-16	15:15	-	16:15	28.5	77	0.04434	1774	29.57

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9969	
Validity of Calibration Record:	7 May 2017	
valuity of Galibration Record.	I Way LOTT	

R	en	na	rk	S:	

QC Reviewer:	YW Fung	Signature: _	M	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.08a
Sensitivity Adjustment Scale Setting:	702 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 140	OAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

702	CPM
702	CPM

Hour	Date	Time		Amb		Concentration ¹	Total	Count/	
	(dd-mm-yy)				Cond Temp (°C)	R.H. (%)	(mg/m ³) Y-axis	Count ²	Minute ³ X-axis
1	07-05-16	12:30	-	13:30	28.2	77	0.04611	1727	28.78
2	07-05-16	13:30	-	14:30	28.2	77	0.04678	1758	29.30
3	07-05-16	14:30	-	15:30	28.4	78	0.04574	1717	28.62
4	07-05-16	15:30	-	16:30	28.5	77	0.04353	1634	27.23

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0016	
Correlation coefficient:	0.9977	

Validity of Calibration Record: 7 May 2017

Remarks:					
QC Reviewer:	YW Fung	Signature:	4/	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	0AB					
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K _o :	12500			
Last Calibration Date*:	7 May 201	6					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

797	CPM
797	CPM

Hour	Date (dd-mm-yy)	Time		Amb Cond	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	11:45	-	12:45	28.2	77	0.04623	1847	30.78
2	07-05-16	12:45	-	13:45	28.2	78	0.04708	1885	31.42
3	07-05-16	13:45	-	14:45	28.3	76	0.04591	1836	30.60
4	07-05-16	14:45	-	15:45	28.4	77	0.04333	1726	28.77

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9964	
Validity of Calibration Record:	7 May 2017	

R	em	nar	ks:

QC Reviewer:	YW Fung	S

C Signature:

Date: 09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.10a
Sensitivity Adjustment Scale Setting:	753 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	OAB					
Serial No:	Control: 140AB219899803						
	Sensor:	1200C143659803	Ko:	12500			
Last Calibration Date*:	7 May 201	6	_				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 753 CPM 753 CPM

Hour	Date (dd-mm-yy)	Time			pient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	10:00	-	11:00	28.3	76	0.04945	1975	32.92
2	08-05-16	11:00	-	12:00	28.3	77	0.05116	2049	34.15
3	08-05-16	12:00	-	13:00	28.4	76	0.04767	1912	31.87
4	08-05-16	13:00	-	14:00	28.3	76	0.04593	1833	30.55

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

0015
9975

Validity of Calibration Record: 8 Ma

8 May	2017	

Re	m	2	rl	10	
L/G		a		20	٠

QC Reviewer:	YW Fung	Signature:	4/	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.11a
Sensitivity Adjustment Scale Setting:	799 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®			
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 140	Series 1400AB			
Serial No:	Control:	Control: 140AB219899803			•
	Sensor:	1200C143659803	Ko:	12500	
Last Calibration Date*:	7 May 201	6			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

799	CPM
799	CPM

Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	09:30	-	10:30	28.3	77	0.04959	1893	33.05
2	08-05-16	10:30	-	11:30	28.4	77	0.05173	2071	34.52
3	08-05-16	11:30	-	12:30	28.3	76	0.04817	1922	32.03
4	08-05-16	12:30	-	13:30	28.3	77	0.04562	1828	30.47

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

Validity of Calibration Record: 8

3	May	2017	

Remarks:

QC	Reviewer:	YW Fung	
		1	

Signature:

Date: 09 May 2016

Laser Dust Monitor
SIBATA
LD-3B
A.005.13a
643 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]			
Venue:	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 1400AB			
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	K₀:	12500
Last Calibration Date*:	7 May 2016	3		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 643 CPM 643 CPM

Hour	Date (dd-mm-yy)	Т	ime)	Amb Cond	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	09:45	-	10:45	28.3	76	0.04923	1977	32.95
2	08-05-16	10:45	-	11:45	28.3	77	0.05086	2034	33.90
3	08-05-16	11:45	-	12:45	28.4	77	0.04834	1936	32.27
4	08-05-16	12:45	-	13:45	28.4	76	0.04617	1850	30.83

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X Slope (K-factor): 0.0015 Correlation coefficient: 0.9981

Validity of Calibration Record: 8 Ma

May	201	1	

Remarks:

QC Reviewer:	YW Fung

Signature:

Date: 09 May 2016

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.14a
Sensitivity Adjustment Scale Setting:	786 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]			
Venue:	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 1400AB			
Serial No:	Control: 140AB219899803			
	Sensor:	1200C143659803	Ko:	12500
Last Calibration Date*:	7 May 2016			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

786 CPM 786 CPM

Hour	Date (dd-mm-yy)	Т	ime)	Amb Cond		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	13:45	-	14:45	28.4	77	0.04652	1994	33.23
2	08-05-16	14:45	-	15:45	28.5	77	0.04837	2071	34.52
3	08-05-16	15:45	-	16:45	28.4	77	0.05162	2205	36.75
4	08-05-16	16:45	-	17:45	28.4	77	0.04983	2135	35.59

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

8 May 2017

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0014	
Correlation coefficient:	0.9987	
Validity of Calibration Record:	8 May 2017	

Remarks:					
QC Reviewer:	YW Fung	Signature:	η	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.16a
Sensitivity Adjustment Scale Setting:	521 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	Rupprecht & Patashnick TEOM [®]			
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 140	Series 1400AB			
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	K _o :	12500	
Last Calibration Date*:	7 May 201	5			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

521	CPM
521	CPM

Hour	Date (dd-mm-yy)		Time	9		dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-07-15	09:30	-	10:30	29.8	75	0.05032	2014	33.57
2	18-07-15	10:45	-	11:45	30.1	76	0.05117	2047	34.12
3	18-07-15	12:15	-	13:15	30.4	77	0.05363	2141	35.68
4	18-07-15	13:40	-	14:40	30.5	78	0.05465	2179	36.32

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X Slope (K-factor): 0.0015 Correlation coefficient: 0.9978

Validity of Calibration Record:

18 July 2016

Remarks:

QC	Reviewer:	YW Fui

ng Signature:

Date: 20 July 2015



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Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	15CA1203 03		Page:	1	of 2	
Item tested						
Description:	Acoustical Calibra	ator (Class 1)				
Manufacturer:	Rion Co., Ltd.	,				
Type/Model No.:	NC-73					
Serial/Equipment No.:	10307223	N. 4 32)				
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CC	LTD.				
Address of Customer:	-					
Request No .:	2 					
Date of receipt:	03-Dec-2015					
Date of test:	03-Dec-2015					
Reference equipment	used in the calib	oration				
Description:	Model:	Serial No.	Expiry Date:	т	raceable to):
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	5	SCL	
Preamplifier	B&K 2673	2239857	22-Apr-2016	C	EPREI	
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	C	EPREI	
Signal generator	DS 360	61227	16-Apr-2016	C	EPREI	
Digital multi-meter	34401A	US36087050	17-Apr-2016	C	EPREI	
Audio analyzer	8903B	GB41300350	17-Apr-2016	C	EPREI	
Universal counter	53132A	MY40003662	16-Apr-2016	C	EPREI	

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

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



Date: 04-Dec-2015



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

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F, 9/F., 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0408 02			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Meter B & K 2238 2285692	(Type 1)	, , , ,	Microphone B & K 4188 2791211 -			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO., - - 08-Apr-2016	LTD.					
Date of test:	11-Apr-2016						
Reference equipment	used in the calibra	ation					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 19-Jun-2016 16-Apr-2016 16-Apr-2016		Traceat CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 50 ± 10 % 1010 ± 5 hPa						
Test specifications							

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

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi



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

12-Apr-2016

Date:

© Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com

Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0704 03-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2800927 / N.009.0		, , ,	Microphone B & K 4188 2791211			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 04-Jul-2016	., LTD.					
Date of test:	07-Jul-2016						
Reference equipment	used in the calib	ration					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 18-Jun-2017 18-Apr-2017 18-Apr-2017		Traceab CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 5 hPa						
Test specifications							

Test specifications

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

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi



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

09-Jul-2016

Date:

© Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.

Work Order:	HK1616643	
Sub-batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	140.5	-4.4
6667	6750	+1.2
12890	12680	-1.6
58670	58320	-0.6
	Tolerance Limit (%)	±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.43	3.40	-0.03
5.50	5.46	-0.04
7.75	7.73	-0.02
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.94	-0.1
22.0	21.97	-0.0
37.5	37.44	-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 Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

Work Order:	HK1616643	
Sub-Batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.05	+0.5
20	19.94	-0.3
30	29.90	-0.3
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	9.9	-1.0
20	20.2	+1.0
50	50.2	+0.4
100	100.4	+0.4
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
1.0	1.00	
4.0	4.02	+0.02
7.0	6.99	-0.01
10.0	10.03	+0.03
	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.

C.M.

Mr Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order:	HK1630169
Sub-batch:	0
Client:	AECOM ASIA COMPANY LIMITED
Date of Issue:	27/07/2016
Description:	Multifunctional Mater



Multifunctional Meter		
YSI		
6820 V2		
12A101545		
W.026.35		
26 July, 2016	Date of next Calibration:	26 October, 2016
	YSI 6820 V2 12A101545 W.026.35	YSI 6820 V2 12A101545 W.026.35

Parameters:

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	144.7	-1.5
6667	6630	-0.6
12890	12820	-0.5
58670	58660	-0.0
	Tolerance Limit (%)	±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.41	3.40	-0.01
5.52	5.56	+0.04
7.78	7.81	+0.03
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.96	-0.0
22.0	22.04	+0.0
37.5	37.42	-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.

Rouly Mr Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order: Sub-Batch: Client:	HK1630169 0 AECOM ASIA COMPANY LIMITED	
Date of Issue:	27/07/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	26 July, 2016	Date of next Calibration:

Parameters:

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.3	+3.0
20	19.97	-0.2
30	29.87	-0.4
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	10.3	+3.0
20	19.7	-1.5
50	49.6	-0.8
100	100.5	+0.5
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.99	-0.01
7.0	7.03	+0.03
10.0	10.04	+0.04
		10.01
	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.

Kind

Mr Fung Lim Chee Richard General Manager Greater China & Hong Kong

26 October, 2016

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order:	HK1616644	
Sub-batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12D100972	
Equipment No.:	W.026.36	
Date of Calibration:	28 April, 2016	Date of ne

ALS

Date of next Calibration: 28

28 July, 2016

Parameters:

Conductivity

Method Ref: APHA (21th edition), 2510B

E	xpected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
	146.9	142.0	-3.3
	6667	6780	+1.7
	12890	12640	-1.9
	58670	58790	+0.2
		Tolerance Limit (%)	±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.43	3.45	+0.02
5.50	5.51	+0.01
7.75	7.76	+0.01
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.95	-0.1
22.0	22.02	+0.0
37.5	37.53	+0.0
	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 Fung Lim Cheer Rîchard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

Work Order:	HK1616644	
Sub-Batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12D100972	
Equipment No.:	W.026.36	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.05	+0.5
20	20.02	+0.1
30	29.94	-0.2
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	3.9	-2.5
10	9.8	-2.0
20	19.7	-1.5
50	50.5	+1.0
100	99.7	-0.3
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:BExpected Reading (pH Unit)Displayed Reading (pH Unit)Tolerance (pH unit)4.04.01+0.017.07.03+0.0310.010.01+0.01Tolerance 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 Fung Lim Chee, Richard General Manager Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order: Sub-batch: Client: Date of Issue:	HK1630168 0 AECOM ASIA COMPANY LIMITED 28/07/216		(ALS)
Description:	Sonde Environmental Monitoring S	ystem	
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12D100972		
Equipment No.:	W.026.36		
Date of Calibration:	26 July, 2016	Date of next Calibration:	26 October, 2016

Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B Expected Reading (uS/cm) Displayed Reading (uS/cm) Tolerance (%) 146.9 147.0 +0.16667 6680 +0.212890 12830 -0.5 58670 58700 +0.1Tolerance Limit (%) ±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.41	3.42	+0.01
5.52	5.55	+0.03
7.78	7.76	-0.02
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	11.01	+0.0
22.0	22.09	+0.1
37.5	37.44	-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 Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order: Sub-Batch: Client: Date of Issue:	HK1630168 0 AECOM ASIA COMPANY LIMITED 28/07/216		(ALS)
Description:	Sonde Environmental Monitoring S	ystem	
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12D100972		
Equipment No.:	W.026.36		
Date of Calibration:	26 July, 2016	Date of next Calibration:	26 October, 2016

Parameters:

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.02	+0.2
20	19.98	-0.1
30	29.94	-0.2
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.2	+5.0
10	10.2	+2.0
20	20.3	+1.5
50	49.5	-1.0
100	100.4	+0.4
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)		
4.0	4.01	+0.01		
7.0	7.02	+0.02		
10.0	10.02	+0.02		
	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.

R. M. H. Mr Fung Lim Chee, Richard

Mr Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Jul	02-Ju
					Mid-Ebb 10:30	
					Mid-Flood 17:04	
00.11				07.1.1		00.1
03-Jul	04-	Jul 05-Ju	l 06-Jul	07-Jul	08-Jul	09-Ju
	Mid-Flood 05	56	Mid-Flood 07:24		Mid-Flood 08:50	
	Mid-Ebb 12		Mid-Ebb 14:21		Mid-Ebb 15:43	
	Dolphin monitoring	Dolphin monitoring	Dolphin monitoring		13.43	
	Dolphin monitoring	Delphin monitoring	24-hour TSP			
			1-hour TSP			
			Noise			
10-Jul	11-	Jul 12-Ju	13-Jul	14-Jul	15-Jul	16-Ju
	Mid-Flood 11:	15 24-hour TSP	Mid-Ebb 08:14		Mid-Ebb 10:10	24-hour TSP
	Mid-Ebb 17		Mid-Eloo 08:14 Mid-Flood 14:10		Mid-Ebb 10:10 Mid-Flood 17:00	
	IVIId-EDD 17	40 1-nour ISP Noise	IVIId-FI00d 14:10		WIId-Flood 17:00	1-nour ISP
		NOISE				
17-Jul	18-	Jul 19-Ju	20-Jul	21-Jul	22-Jul	23-Ju
			Mid Els ad		Mid Elsed 07:50	
	Mid-Ebb 12		Mid-Flood 06:27		Mid-Flood 07:52	
	Mid-Flood 19	12	Mid-Ebb 13:21		Mid-Ebb 14:36	
	Dalahin menitering	Delahia meniterian			24-hour TSP	
	Dolphin monitoring	Dolphin monitoring			1-hour TSP	
					Noise	
					110100	
24-Jul	25-	Jul 26-Ju	27-Jul	28-Jul	29-Jul	30-Ju
	Mid-Flood 10	20	Mid-Flood 12:50	24-hour TSP	Mid-Ebb 09:13	
	Mid-Ebb 16	42	Mid-Ebb 18:41	1-hour TSP	Mid-Flood 15:58	
				Noise		
31-Jul						
		le circumstances (e.g. adverse				

Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for July 2016

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Au	g 02-Aug	03-Aug	04-Aug	05-Aug	06-Aug
	Mid-Ebb 11:5 Mid-Flood 19:0		Mid-Flood 06:31 Mid-Ebb 13:24 24-hour TSP 1-hour TSP Noise		Mid-Flood 07:56 Mid-Ebb 14:42	
07-Aug	08-Au	g 09-Aug	10-Aug	11-Aug	12-Aug	13-Aug
	Mid-Flood 09:5 Mid-Ebb 16:2 Dolphin monitoring		Mid-Flood 11:46 Mid-Ebb 17:41		Mid-Ebb 08:12 Mid-Flood 15:30	
14-Aug	15-Au		17-Aug	18-Aug	19-Aug	20-Aug
	Mid-Ebb 10:5 Mid-Flood 18:1 24-hour TSP 1-hour TSP Noise		Mid-Ebb 12:20 Mid-Flood 19:21		Mid-Flood 06:59 Mid-Ebb 13:37	24-hour TSP 1-hour TSP
21-Aug	22-Au	g 23-Aug	24-Aug	25-Aug	26-Aug	27-Aug
	Mid-Flood 09:2 Mid-Ebb 15:3		Mid-Flood 11:28 Mid-Ebb 17:17		Mid-Ebb 07:30 Mid-Flood 14:30 24-hour TSP 1-hour TSP Noise	
28-Aug	29-Au	g 30-Aug	31-Aug			
	Mid-Ebb 10:5 Mid-Flood 18:0 Dolphin monitoring		Mid-Ebb 12:26 Mid-Flood 19:14			

Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for August 2016

Appendix G Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m ³)	(µg/m ³)
06-Jul-16	1st Hour	Rainy	n.a.	10:05	67	374	500
06-Jul-16	2nd Hour	Rainy	n.a.	11:05	69	374	500
06-Jul-16	3rd Hour	Rainy	0.76	12:05	68	374	500
12-Jul-16	1st Hour	Fine	0.17	11:40	74	374	500
12-Jul-16	2nd Hour	Fine	0.17	12:40	75	374	500
12-Jul-16	3rd Hour	Fine	0.15	13:40	76	374	500
16-Jul-16	1st Hour	Sunny	0.67	10:15	70	374	500
16-Jul-16	2nd Hour	Sunny	1.54	11:15	72	374	500
16-Jul-16	3rd Hour	Sunny	0.88	12:15	71	374	500
22-Jul-16	1st Hour	Sunny	0.07	11:27	73	374	500
22-Jul-16	2nd Hour	Sunny	0.49	12:27	73	374	500
22-Jul-16	3rd Hour	Sunny	1.94	13:27	75	374	500
28-Jul-16	1st Hour	Sunny	0.00	09:50	68	374	500
28-Jul-16	2nd Hour	Sunny	0.06	10:50	68	374	500
28-Jul-16	3rd Hour	Sunny	0.00	11:50	66	374	500
				Average	71		
				Min	66		
				Max	76		

1-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m ³) ^	(µg/m³)
06-Jul-16	1st Hour	Rainy	n.a.	10:15	69	368	500
06-Jul-16	2nd Hour	Rainy	n.a.	11:15	68	368	500
06-Jul-16	3rd Hour	Rainy	0.76	12:15	68	368	500
12-Jul-16	1st Hour	Fine	0.17	11:50	74	368	500
12-Jul-16	2nd Hour	Fine	0.17	12:50	75	368	500
12-Jul-16	3rd Hour	Fine	0.15	13:50	76	368	500
16-Jul-16	1st Hour	Sunny	0.67	10:25	71	368	500
16-Jul-16	2nd Hour	Sunny	1.54	11:25	72	368	500
16-Jul-16	3rd Hour	Sunny	0.88	12:25	73	368	500
22-Jul-16	1st Hour	Sunny	0.07	11:15	73	368	500
22-Jul-16	2nd Hour	Sunny	0.49	12:15	74	368	500
22-Jul-16	3rd Hour	Sunny	1.94	13:15	74	368	500
28-Jul-16	1st Hour	Sunny	0.00	10:00	69	368	500
28-Jul-16	2nd Hour	Sunny	0.06	11:00	69	368	500
28-Jul-16	3rd Hour	Sunny	0.00	12:00	68	368	500
				Average	72		
				Min	68		
				Max	76		

Remarks:

^ Action Level set out at AMS3 Ho Yu College is adopted.

1-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

	0	Weather	averaged Wind Speed (m/s)*	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
06-Jul-16	1st Hour	Rainy	n.a.	09:55	68	370	500
06-Jul-16	2nd Hour	Rainy	n.a.	10:55	70	370	500
06-Jul-16	3rd Hour	Rainy	0.76	11:55	67	370	500
12-Jul-16	1st Hour	Fine	0.17	12:15	77	370	500
12-Jul-16	2nd Hour	Fine	0.17	13:15	76	370	500
12-Jul-16	3rd Hour	Fine	0.15	14:15	73	370	500
16-Jul-16	1st Hour	Sunny	0.67	10:00	72	370	500
16-Jul-16	2nd Hour	Sunny	1.54	11:00	74	370	500
16-Jul-16	3rd Hour	Sunny	0.88	12:00	71	370	500
22-Jul-16	1st Hour	Sunny	0.07	10:09	74	370	500
22-Jul-16	2nd Hour	Sunny	0.49	11:09	73	370	500
22-Jul-16	3rd Hour	Sunny	1.94	12:09	74	370	500
28-Jul-16	1st Hour	Sunny	0.00	09:40	69	370	500
28-Jul-16	2nd Hour	Sunny	0.06	10:40	68	370	500
28-Jul-16	3rd Hour	Sunny	0.00	11:40	70	370	500
				Average	72		
				Min	67		
				Max	77		

Remarks: Due to malfunction of the wind station monitoring equipment, wind data was not able to be obtained for monitoring event(s) conducted between 16:00:00 5 July 2016 – 11:59:39 6 July 2016. Wind speed and direction data set between 16:00:00 5 July 2016 – 11:59:39 6 July 2016 from the Hong Kong Observatory is not available at time this monthly report is submitted.

Appendix G Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m ³)	(µg/m ³)	(µg/m ³)
05-Jul-16	16:00	06-Jul-16	16:00	Rainy	27.3	1008.4	1.33	1.33	1.33	1909.4	2.8405	2.8722	0.0317	6624.04	6648.04	24.00	17	176	260
11-Jul-16	16:00	12-Jul-16	16:00	Fine	28.1	1003.8	1.33	1.33	1.33	1909.4	2.8540	2.8911	0.0371	6648.04	6672.04	24.00	19	176	260
15-Jul-16	16:00	16-Jul-16	16:00	Sunny	30.6	1008.1	1.33	1.33	1.33	1909.4	2.8107	2.8383	0.0276	6672.04	6696.04	24.00	14	176	260
21-Jul-16	16:00	22-Jul-16	16:00	Sunny	30.0	1010.3	1.33	1.33	1.33	1909.4	2.8340	2.8506	0.0166	6696.04	6720.04	24.00	9	176	260
27-Jul-16	16:00	28-Jul-16	16:00	Sunny	30.1	1009.7	1.33	1.33	1.33	1909.4	2.8024	2.8345	0.0321	6720.04	6744.04	24.00	17	176	260
																Average	15		
																Min	9		
																Max	19		

24-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	(µg/m ³)	(µg/m ³)
05-Jul-16	16:00	06-Jul-16	16:00	Rainy	27.3	1008.4	1.34	1.34	1.34	1923.8	2.8565	2.9050	0.0485	7399.38	7423.38	24.00	25	167	260
11-Jul-16	16:00	12-Jul-16	16:00	Fine	28.1	1003.8	1.34	1.34	1.34	1923.8	2.8503	2.8900	0.0397	7423.38	7447.38	24.00	21	167	260
15-Jul-16	16:00	16-Jul-16	16:00	Sunny	30.6	1008.1	1.34	1.34	1.34	1923.8	2.8048	2.8381	0.0333	7447.38	7471.38	24.00	17	167	260
21-Jul-16	16:00	22-Jul-16	16:00	Sunny	15.5	1019.6	1.34	1.34	1.34	1923.8	2.8322	2.8452	0.0130	7471.38	7495.38	24.00	7	167	260
27-Jul-16	16:00	28-Jul-16	16:00	Sunny	30.1	1009.7	1.34	1.34	1.34	1923.8	2.842	2.8662	0.0242	7495.38	7519.38	24.00	13	167	260
																Average	16		
																Min	7	1	

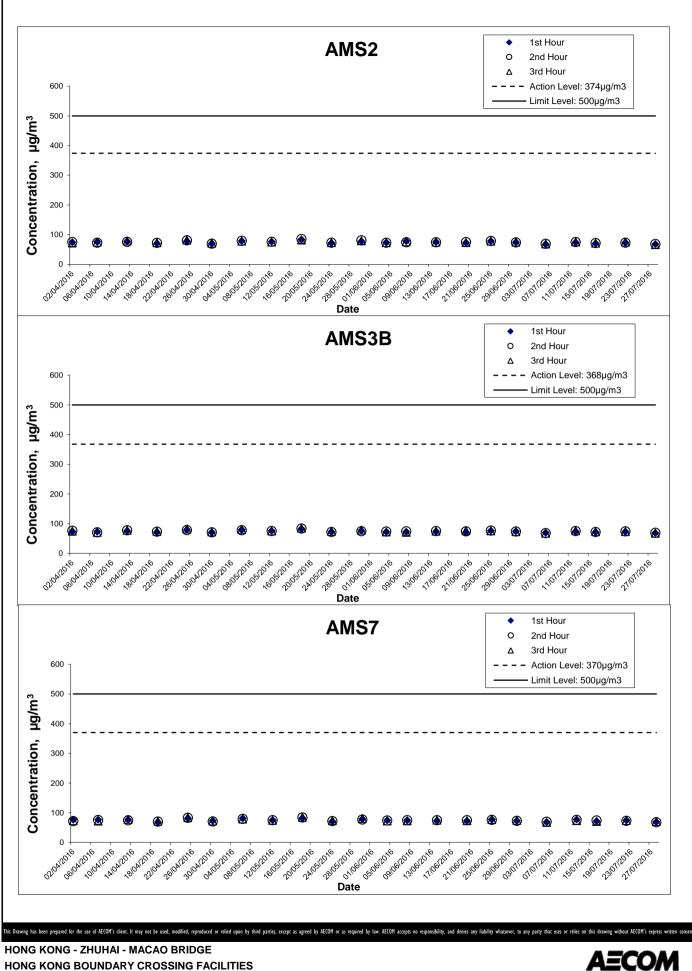
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Max 25
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^ Action Level set out at AMS3 Ho Yu College is adopted.

24-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

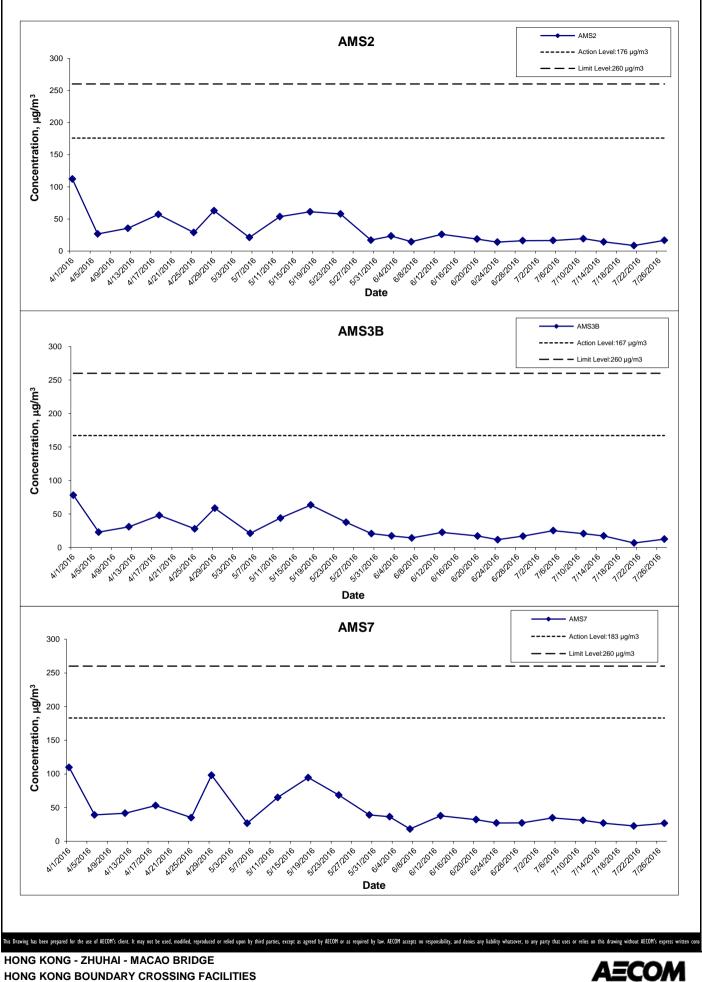
Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	$(\mu q/m^3)$	(µg/m ³)
05-Jul-16	16:00	06-Jul-16	16:00	Rainy	27.3	1008.4	1.30	1.30	1.30	1869.1	2.8574	2.9224	0.0650	6315.91	6339.91	24.00	35	183	260
11-Jul-16	16:00	12-Jul-16	16:00	Fine	28.1	1003.8	1.30	1.30	1.30	1869.1	2.8506	2.9088	0.0582	6339.91	6363.91	24.00	31	183	260
15-Jul-16	16:00	16-Jul-16	16:00	Sunny	30.6	1008.1	1.30	1.30	1.30	1869.1	2.8029	2.8534	0.0505	6363.91	6387.91	24.00	27	183	260
21-Jul-16	16:00	22-Jul-16	16:00	Sunny	15.5	1019.6	1.30	1.30	1.30	1869.1	2.8249	2.8676	0.0427	6387.91	6411.91	24.00	23	183	260
27-Jul-16	16:00	28-Jul-16	16:00	Sunny	30.1	1009.7	1.30	1.30	1.30	1869.1	2.7833	2.8332	0.0499	6411.91	6435.91	24.00	27	183	260
																Avorago	20	1	

Average	28
Min	23
Max	35



Graphical Presentation of Impact 1-hour TSP Monitoring Results

- RECLAMATION WORKS



HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Presentation

Graphical Presentation of Impact 24-hour TSP Monitoring Results Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in July 2016

WIND DATA

WIND DATA	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
Date 07/06/2016	Time 11:59:39	Averaged Wind Speed (m/s) 0.76	Averaged Wind Direction (degrees) 104
07/06/2016	12:59:39	0.04	114
07/06/2016	13:59:39	0.03	103
07/06/2016	14:59:39	0.10	117
07/06/2016	15:59:39	0.01	98
07/06/2016	16:59:39	0.01	100
07/11/2016 07/11/2016	15:59:39 16:59:39	0.03	<u>142</u> 64
07/11/2016	17:59:39	0.03	322
07/11/2016	18:59:39	0.57	130
07/11/2016	19:59:39	0.34	129
07/11/2016	20:59:39	0.08	59
07/11/2016	21:59:39	1.02	115
07/11/2016	22:59:39	0.10	119
07/11/2016	23:59:39	0.18	131
07/12/2016	00:59:39 01:59:39	0.17 0.17	<u>2</u> 139
07/12/2016 07/12/2016	02:59:39	0.17	160
07/12/2016	03:59:39	0.92	342
07/12/2016	04:59:39	0.00	133
07/12/2016	05:59:39	0.00	145
07/12/2016	06:59:39	0.08	116
07/12/2016	07:59:39	0.20	293
07/12/2016	08:59:39	0.07	269
07/12/2016	09:59:39	1.71	254
07/12/2016	10:59:39	0.00	284
07/12/2016 07/12/2016	11:59:39 12:59:39	0.18 0.42	<u>329</u> 65
07/12/2016	13:59:39	0.42	309
07/12/2016	14:59:39	1.43	151
07/12/2016	15:59:39	0.00	116
07/12/2016	16:59:39	0.00	128
07/12/2016	17:59:39	0.01	96
07/15/2016	15:59:39	2.07	31
07/15/2016	16:59:39	0.38	4
07/15/2016	17:59:39	0.57	330
07/15/2016 07/15/2016	18:59:39 19:59:39	1.29 1.15	<u>325</u> 332
07/15/2016	20:59:39	0.88	334
07/15/2016	21:59:39	0.66	339
07/15/2016	22:59:39	1.22	346
07/15/2016	23:59:39	1.57	312
07/16/2016	00:59:39	0.38	35
07/16/2016	01:59:39	0.11	317
07/16/2016	02:59:39	0.00	315
07/16/2016	03:59:39	0.17	326
07/16/2016 07/16/2016	04:59:39 05:59:39	0.04	<u>321</u> 283
07/16/2016	06:59:39	0.00	336
07/16/2016	07:59:39	0.07	330
07/16/2016	08:59:39	0.32	7
07/16/2016	09:59:39	0.67	341
07/16/2016	10:59:39	1.54	318
07/16/2016	11:59:39	0.88	321
07/16/2016	12:59:39	2.20	287
07/16/2016	13:59:39	3.08	341
07/16/2016 07/16/2016	14:59:39 15:59:39	2.27 0.63	<u>318</u> 296
07/16/2016	16:59:39	0.00	249
07/21/2016	15:59:39	0.43	270
07/21/2016	16:59:39	1.29	7
07/21/2016	17:59:39	1.50	312
07/21/2016	18:59:39	0.14	131
07/21/2016	19:59:39	0.35	133
07/21/2016	20:59:39	0.85	60
07/21/2016 07/21/2016	21:59:39 22:59:39	0.11 0.06	<u>96</u> 131
07/21/2016	22:59:39	0.06	131
07/22/2016	00:59:39	0.04	125
07/22/2016	01:59:39	0.00	328
07/22/2016	02:59:39	0.00	308
07/22/2016	03:59:39	0.01	340
07/22/2016	04:59:39	0.03	79
07/22/2016	05:59:39	0.56	132
07/22/2016	06:59:39	0.08	130
07/22/2016 07/22/2016	07:59:39 08:59:39	0.01 0.25	<u>117</u> 338
07/22/2016	09:59:39	0.25	
07/22/2016	10:59:39	0.07	317
07/22/2016	11:59:39	0.49	315
07/22/2016	12:59:39	1.94	137
07/22/2016	13:59:39	0.81	148
07/22/2016	14:59:39	0.34	120
07/22/2016	15:59:39	0.50	147
07/22/2016	16:59:39	0.25	130
07/22/2016	17:59:39	0.14	103
07/27/2016	15:47:42	0.00	94
07/27/2016 07/27/2016	16:47:42 17:47:42	0.14 1.58	<u>55</u> 291
07/27/2016	17:47:42	0.03	62

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in July 2016

WIND DATA

Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
07/27/2016	19:47:42	0.55	281
07/27/2016	20:47:42	0.17	298
07/27/2016	21:47:42	0.11	265
07/27/2016	22:47:42	0.15	68
07/27/2016	23:47:42	0.24	124
07/28/2016	00:47:42	0.01	128
07/28/2016	01:47:42	0.01	101
07/28/2016	02:47:42	0.78	326
07/28/2016	03:47:42	0.14	119
07/28/2016	04:47:42	0.01	300
07/28/2016	05:47:42	0.03	0
07/28/2016	06:47:42	0.03	338
07/28/2016	07:47:42	0.00	97
07/28/2016	08:47:42	0.52	132
07/28/2016	09:47:42	0.00	81
07/28/2016	10:47:42	0.06	140
07/28/2016	11:47:42	0.00	334
07/28/2016	12:47:42	2.13	136
07/28/2016	13:47:42	1.89	152
07/28/2016	14:47:42	1.86	133
07/28/2016	15:47:42	0.07	141
07/28/2016	16:47:42	0.59	341
07/28/2016	17:47:42	1.45	320

 0//28/2016
 17:47:42
 1.45
 320

 Remarks: Due to malfunction of the wind station monitoring equipment, wind data was not able to be obtained for monitoring event(s) conducted between 16:00:00 5 July 2016 – 11:59:39 6 July 2016. Wind speed and direction data set between 16:00:00 5 July 2016 – 11:59:39 6 July 2016 from the Hong Kong Observatory is not available at time this monthly report is submitted.

Appendix I Impact Daytime Construction Noise Monitoring Results

Daytime Noise Monitoring Results at Station NMS2 - Seaview Crescent Tower 1

		Nois	se Level for 30	0-min, dB(A) [#]					
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
6-Jul-16	Cloudy	11:00	63	69	66	<5m/s	62.9	75	Ν
12-Jul-16	Fine	10:45	63	67	65	<5m/s	62.9	75	Ν
22-Jul-16	Sunny	10:28	62	67	65	<5m/s	62.9	75	Ν
28-Jul-16	Sunny	10:30	64	69	67	<5m/s	62.9	75	Ν
		Min	62	67	65				
		Max	64	69	67				
		Average			66				

Daytime Noise Monitoring Results at Station NMS3B - Site Boundary of Site Office (WA2)

		Noise Level for 30-min, dB Time L90 L10 13:00 62 68 11:30 66 69 11:15 63 67 11:30 64 68 Min 62 67 Max 66 69)-min, dB(A) [#]					
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A) ^	Limit Level, dB(A)**	Exceedance (Y/N)
6-Jul-16	Cloudy	13:00	62	68	66	<5m/s	66.3	70	N
12-Jul-16	Fine	11:30	66	69	68	<5m/s	66.3	70	N
22-Jul-16	Sunny	11:15	63	67	66	<5m/s	66.3	70	N
28-Jul-16	Sunny	11:30	64	68	66	<5m/s	66.3	70	Ν
		Min	62	67	66				
		Max	66	69	68				
		Average			66				

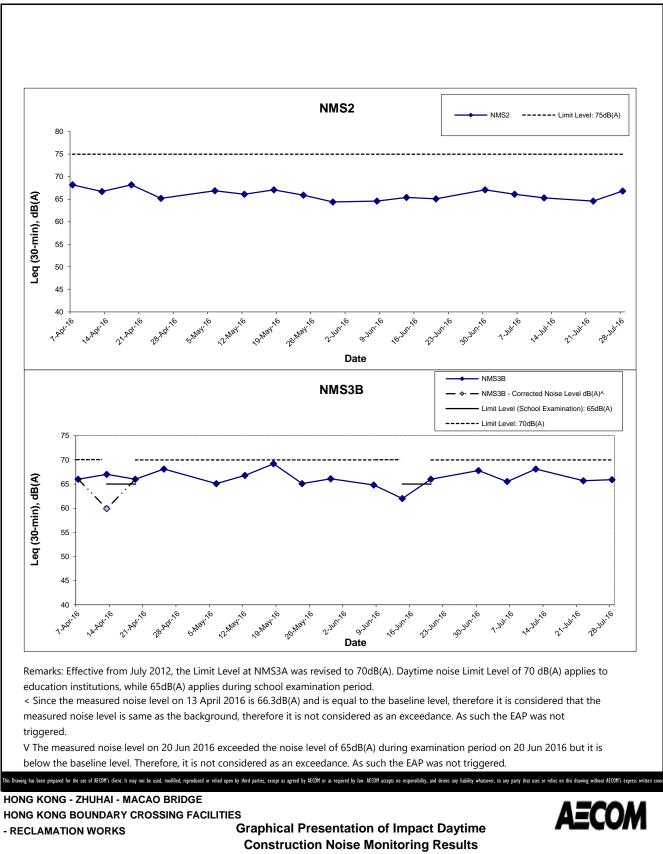
Remark:

[#] A correction of +3dB(A) was made to the free field measurement.

* Façade measurement.

^ Averaged baseline noise level recorded at NMS3 Ho Yu College is adopted.

** Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Project No.: 60249820

Date: August 2016

Appendix I

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:53		Surface	1.0	29.0 29.1	29.1	8.1 8.1	8.1	13.1 13.1	13.1	79.4 82.1	80.8	5.7 5.9	5.8	5.5	4.3 4.6	4.5		3.3 2.2	2.8	
				6.3	Middle	3.2	28.1 28.2	28.1	8.0 8.0	8.0	18.0 17.8	17.9	73.3 73.6	73.5	5.2 5.2	5.2	5.5	4.7 5.0	4.9	5.3	3.5 2.4	3.0	2.9
					Bottom	5.3	28.0 27.8	27.9	8.0 8.0	8.0	18.8 19.0	18.9	78.4 74.3	76.4	5.5 5.3	5.4	5.4	6.6 6.5	6.6		2.4 3.3	2.9	
4-Jul-16	Sunny	Moderate	12:13		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	20.3 20.3	20.3	80.9 81.0	81.0	5.7 5.7	5.7		3.4 3.4	3.4		3.8 4.7	4.3	
				6.3	Middle	3.2	28.4 28.4	28.4	8.1 8.1	8.1	20.4 20.3	20.4	79.7 79.8	79.8	5.7 5.7	5.7	5.7	3.6 3.5	3.6	3.6	5.5 5.4	5.5	5.2
					Bottom	5.3	28.3 28.4	28.3	8.1 8.1	8.1	21.7 22.0	21.9	77.9 77.4	77.7	5.6 5.5	5.5	5.5	3.8 3.9	3.9		6.2 5.3	5.8	
6-Jul-16	Rainy	Moderate	13:46		Surface	1.0	28.2 28.1	28.2	8.3 8.4	8.4	14.5 14.5	14.5	73.9 73.2	73.6	5.3 5.2	5.2		4.9 5.0	5.0		3.6 3.2	3.4	
				6.3	Middle	3.2	28.0 28.1	28.1	8.3 8.3	8.3	16.7 15.8	16.3	71.9 72.4	72.2	5.2 5.2	5.2	5.2	5.2 5.2	5.2	5.1	3.8 4.2	4.0	3.6
					Bottom	5.3	28.1 28.0	28.1	8.3 8.3	8.3	17.0	17.0	71.9	71.7	5.2 5.1	5.1	5.1	5.0 5.1	5.1		2.9	3.3	
8-Jul-16	Sunny	Moderate	15:02		Surface	1.0	29.6 29.6	29.6	8.4 8.4	8.4	20.3 20.3	20.3	80.4 80.4	80.4	5.7 5.7	5.7		4.3 4.1	4.2		2.7 2.3	2.5	
				6.7	Middle	3.4	28.8 28.9	28.9	8.4 8.4	8.4	20.7	20.6	78.8 79.4	79.1	5.6 5.6	5.6	5.7	4.4	4.4	4.5	3.8	3.9	3.2
					Bottom	5.7	28.6 28.5	28.6	8.4 8.4	8.4	22.9 22.1	22.5	76.4 75.9	76.2	5.5 5.4	5.4	5.4	4.7 4.8	4.8		3.7	3.3	
11-Jul-16	Cloudy	Moderate	17:03		Surface	1.0	28.7 28.6	28.7	8.5 8.5	8.5	16.4 16.4	16.4	81.4 81.5	81.5	5.8 5.8	5.8	5.0	4.2 4.1	4.2		5.2 4.9	5.1	
				6.5	Middle	3.3	28.3 28.5	28.4	8.4 8.5	8.4	19.6 17.4	18.5	79.6 78.8	79.2	5.7 5.7	5.7	5.8	4.3 4.4	4.4	4.4	4.8 5.0	4.9	5.1
					Bottom	5.5	26.6 28.1	27.4	8.3 8.3	8.3	28.3 28.7	28.5	78.4 77.3	77.9	5.6 5.6	5.6	5.6	4.5 4.5	4.5		5.4 5.0	5.2	
13-Jul-16	Rainy	Moderate	08:33		Surface	1.0	27.7 27.7	27.7	8.5 8.4	8.5	9.9 9.9	9.9	81.4 82.7	82.1	5.8 5.9	5.9		4.3 4.0	4.2		4.4 3.5	4.0	
				6.3	Middle	3.2	27.2 27.2	27.2	8.2 8.3	8.2	18.0 18.6	18.3	78.8 80.7	79.8	5.6 5.8	5.7	5.8	4.4 4.6	4.5	4.5	4.5 3.7	4.1	4.4
					Bottom	5.3	26.1 27.2	26.6	8.1 8.2	8.2	24.0 20.7	22.4	77.9 77.0	77.5	5.5 5.5	5.5	5.5	5.0 4.7	4.9		5.3 5.0	5.2	
15-Jul-16	Sunny	Moderate	10:39		Surface	1.0	28.9 28.8	28.9	8.3 8.3	8.3	11.6 11.1	11.3	80.3 80.4	80.4	6.0 6.0	6.0		5.1 5.4	5.3		4.8 4.6	4.7	
				6.4	Middle	3.2	26.6 26.9	26.8	8.1 8.1	8.1	16.9 20.3	18.6	79.5 79.6	79.6	5.9 5.9	5.9	6.0	6.2 6.3	6.3	6.1	3.0 3.2	3.1	4.5
					Bottom	5.4	25.6 25.4	25.5	8.0 7.9	8.0	26.7 27.0	26.9	79.7 80.2	80.0	5.9 5.9	5.9	5.9	6.6 6.8	6.7		4.8 6.3	5.6	
18-Jul-16	Sunny	Moderate	12:43		Surface	1.0	29.7 29.7	29.7	8.5 8.5	8.5	19.3 19.3	19.3	103.8 103.5	103.7	7.3 7.2	7.3	7.0	4.3 4.0	4.2		6.6 6.2	6.4	
				6.8	Middle	3.4	29.3 29.2	29.3	8.5 8.5	8.5	19.9 19.7	19.8	98.5 100.2	99.4	7.0	7.0	7.2	4.3	4.4	4.4	6.6 5.0	5.8	5.8
					Bottom	5.8	29.3 28.3	28.8	8.4 8.4	8.4	22.3 22.8	22.6	97.6 94.3	96.0	6.7 6.7	6.7	6.7	4.7 4.6	4.7	1	5.0 5.2	5.1	
20-Jul-16	Sunny	Moderate	12:40		Surface	1.0	28.9 28.8	28.8	8.6 8.6	8.6	19.5 18.6	19.0	100.1 99.7	99.9	7.1 7.0	7.1	7.0	4.3 4.3	4.3		4.5	4.5	
				6.6	Middle	3.3	28.5 28.3	28.4	8.6 8.6	8.6	18.7 17.9	18.3	96.0 96.5	96.3	6.8 6.9	6.8	7.0	4.5 4.4	4.5	4.5	4.2 4.7	4.5	4.5
					Bottom	5.6	28.1 28.1	28.1	8.6 8.6	8.6	18.4 17.9	18.1	94.1 93.8	94.0	6.7 6.7	6.7	6.7	4.7 4.8	4.8		4.4	4.5	

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:50		Surface	1.0	27.8 28.0	27.9	8.7 8.7	8.7	20.9 20.3	20.6	82.1 82.8	82.5	5.8 5.8	5.8	5.8	8.5 8.4	8.5		5.5 6.0	5.8	
				6.7	Middle	3.4	27.8 27.7	27.7	8.7 8.7	8.7	20.9 21.1	21.0	81.5 81.7	81.6	5.7 5.7	5.7	5.0	8.6 8.7	8.7	8.7	5.9 6.0	6.0	6.3
					Bottom	5.7	27.7 27.8	27.8	8.7 8.7	8.7	21.2 20.9	21.1	80.7 80.5	80.6	5.6 5.7	5.7	5.7	8.9 8.9	8.9		6.5 7.8	7.2	
25-Jul-16	Sunny	Moderate	16:21		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	19.8 19.7	19.7	98.8 98.5	98.7	6.9 6.8	6.8	6.5	5.7 5.4	5.6		5.5 5.4	5.5	
				6.4	Middle	3.2	28.2 28.1	28.1	8.0 8.0	8.0	21.8 21.8	21.8	89.5 88.7	89.1	6.2 6.2	6.2	0.5	6.1 5.9	6.0	6.0	4.6 4.1	4.4	4.8
					Bottom	5.4	27.3 27.3	27.3	7.9 8.0	8.0	23.5 23.4	23.5	90.3 90.6	90.5	6.3 6.3	6.3	6.3	6.6 6.4	6.5		4.8 4.1	4.5	
27-Jul-16	Sunny	Moderate	18:00		Surface	1.0	28.0 29.0	28.5	8.0 8.0	8.0	22.1 21.4	21.7	116.2 123.8	120.0	8.0 8.5	8.2	7.8	4.4 4.5	4.5		6.6 6.7	6.7	
				7.1	Middle	3.6	27.8 27.9	27.8	8.0 8.0	8.0	23.5 23.7	23.6	109.3 106.6	108.0	7.6 7.3	7.4	7.0	4.5 4.6	4.6	4.6	7.8 8.5	8.2	7.6
					Bottom	6.1	27.7 27.1	27.4	7.9 8.0	8.0	24.2 25.6	24.9	103.8 105.6	104.7	7.1 7.3	7.2	7.2	4.7 4.7	4.7		8.2 7.7	8.0	
29-Jul-16	Sunny	Moderate	09:38		Surface	1.0	29.5 29.5	29.5	8.3 8.3	8.3	16.2 15.9	16.0	115.7 117.3	116.5	8.1 8.2	8.1	8.0	3.4 3.1	3.3		3.8 3.2	3.5	
				7.1	Middle	3.6	29.3 29.2	29.3	8.3 8.3	8.3	17.3 17.0	17.2	112.9 114.7	113.8	7.9 8.0	7.9	0.0	3.5 3.4	3.5	3.4	3.2 2.3	2.8	3.0
					Bottom	6.1	29.2 29.0	29.1	8.3 8.3	8.3	17.8 17.6	17.7	112.3 113.7	113.0	7.8 7.9	7.9	7.9	3.5 3.4	3.5		2.8 2.3	2.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:24		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	13.1 13.1	13.1	85.0 88.1	86.6	6.1 6.3	6.2	5.9	3.7 3.5	3.6		3.1 3.1	3.1	
				6.5	Middle	3.3	28.2 28.6	28.4	8.0 8.1	8.1	17.7 14.9	16.3	77.1 81.1	79.1	5.5 5.8	5.6	5.9	5.7 5.4	5.6	5.0	3.5 4.3	3.9	3.7
					Bottom	5.5	28.1 28.3	28.2	8.0 8.0	8.0	18.3 18.2	18.3	80.5 84.4	82.5	5.7 5.9	5.8	5.8	5.9 5.4	5.7		4.1 4.0	4.1	
4-Jul-16	Sunny	Moderate	06:17		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	20.2 20.1	20.2	80.3 80.6	80.5	5.7 5.8	5.7		1.2 1.3	1.3		3.7 4.7	4.2	
				6.5	Middle	3.3	28.5 28.5	28.5	8.1 8.1	8.1	20.2	20.3	78.7 79.4	79.1	5.6 5.7	5.6	5.7	1.4	1.4	1.4	3.4 4.1	3.8	4.0
					Bottom	5.5	28.2 28.4	28.3	8.0 8.1	8.1	23.1 21.3	22.2	78.8	77.8	5.6 5.5	5.5	5.5	1.5	1.5		4.5	4.1	
6-Jul-16	Rainy	Moderate	07:39		Surface	1.0	27.8 27.9	27.9	8.4 8.4	8.4	16.5 16.5	16.5	71.1 72.1	71.6	5.1 5.2	5.1		9.2 9.1	9.2		6.5 6.8	6.7	
				6.6	Middle	3.3	27.6 27.5	27.6	8.3 8.3	8.3	19.5 19.5	19.5	71.4	72.9	5.1 5.3	5.2	5.2	9.5 9.4	9.5	9.4	5.8 5.7	5.8	6.4
					Bottom	5.6	27.5 27.8	27.7	8.3 8.3	8.3	19.7 19.6	19.6	79.4	75.8	5.6 5.1	5.4	5.4	9.5 9.2	9.4		7.0 6.3	6.7	
8-Jul-16	Sunny	Moderate	09:25		Surface	1.0	27.8 27.8 27.8	27.8	8.4 8.4	8.4	24.9 24.9	24.9	77.2	77.1	5.4 5.4	5.4		5.4 5.5	5.5		3.9 4.4	4.2	
				6.8	Middle	3.4	27.4 27.2	27.3	8.3 8.3	8.3	21.5 23.3	22.4	76.5 76.6	76.6	5.4 5.4	5.4	5.4	5.6 5.6	5.6	5.7	4.5	4.6	4.4
					Bottom	5.8	27.3 27.0	27.2	8.3 8.3	8.3	22.6	22.3	76.1	76.2	5.3 5.3	5.3	5.3	5.8 5.9	5.9		4.1	4.4	
11-Jul-16	Cloudy	Moderate	11:48		Surface	1.0	28.2 28.4	28.3	8.5 8.5	8.5	19.0 17.6	18.3	74.3	74.2	5.4 5.4	5.4		4.6	4.5	-	4.9 5.0	5.0	
				6.7	Middle	3.4	28.0 28.1	28.0	8.4 8.4	8.4	21.6 20.1	20.8	73.8 73.4	73.6	5.3 5.3	5.3	5.4	4.6 4.7	4.7	4.7	4.2	4.3	4.3
					Bottom	5.7	26.4 26.6	26.5	8.3 8.3	8.3	29.1 28.2	28.7	72.5	72.4	5.2 5.2	5.2	5.2	4.9 4.8	4.9		3.5 3.7	3.6	
13-Jul-16	Rainy	Moderate	13:35		Surface	1.0	27.7 27.8	27.8	8.4 8.4	8.4	11.6 11.7	11.7	82.2 81.2	81.7	5.9 5.8	5.8		5.0 5.2	5.1		6.7 6.2	6.5	
				6.4	Middle	3.2	27.0 26.6	26.8	8.2 8.2	8.2	19.7 19.5	19.6	77.7 79.3	78.5	5.6 5.7	5.6	5.7	4.3 4.4	4.4	4.9	5.6 6.2	5.9	6.2
					Bottom	5.4	26.4 26.5	26.5	8.1 8.1	8.1	24.4 23.9	24.2	75.3 75.6	75.5	5.3 5.4	5.3	5.3	5.0 5.2	5.1		6.4 5.9	6.2	
15-Jul-16	Sunny	Moderate	16:24		Surface	1.0	29.4 29.4	29.4	8.4 8.4	8.4	8.6 8.6	8.6	80.4 80.5	80.5	6.0 6.0	6.0	6.0	5.7 6.0	5.9		4.3 5.9	5.1	
				6.6	Middle	3.3	27.6 27.3	27.4	8.1 8.1	8.1	15.2 15.4	15.3	80.0 79.7	79.9	5.9 5.9	5.9	0.0	5.3 5.5	5.4	5.7	5.4 4.8	5.1	5.3
					Bottom	5.6	25.7 26.1	25.9	7.9 8.0	8.0	25.8 25.6	25.7	79.8 80.0	79.9	5.9 5.9	5.9	5.9	5.8 5.6	5.7		5.9 5.3	5.6	
18-Jul-16	Sunny	Moderate	19:14		Surface	1.0	30.0 29.9	30.0	8.7 8.7	8.7	18.3 18.5	18.4	111.4 108.7	110.1	7.9 7.7	7.8	7.7	6.4 6.2	6.3		5.8 6.1	6.0	
				7.0	Middle	3.5	29.7 29.4	29.6	8.6 8.6	8.6	19.2 19.6	19.4	105.9 105.5	105.7	7.5 7.5	7.5	1.1	6.6 6.5	6.6	6.6	5.1 5.2	5.2	5.6
					Bottom	6.0	28.6 28.3	28.4	8.5 8.5	8.5	22.6 23.0	22.8	97.7 101.0	99.4	6.9 7.2	7.0	7.0	6.7 6.8	6.8		5.4 5.8	5.6	
20-Jul-16	Sunny	Moderate	06:58		Surface	1.0	28.3 28.4	28.3	8.6 8.6	8.6	18.0 18.9	18.4	91.8 92.3	92.1	6.5 6.5	6.5	6.5	5.0 4.8	4.9		4.1 4.8	4.5	
				6.7	Middle	3.4	28.2 27.7	27.9	8.6 8.5	8.5	17.8 18.3	18.0	90.4 89.9	90.2	6.4 6.4	6.4	0.0	5.2 5.3	5.3	5.3	5.6 5.0	5.3	5.1
					Bottom	5.7	27.5 27.6	27.6	8.5 8.5	8.5	20.4 20.3	20.3	87.3 89.6	88.5	6.2 6.3	6.3	6.3	5.8 5.6	5.7		5.2 6.0	5.6	

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:30		Surface	1.0	27.7 27.7	27.7	8.6 8.6	8.6	19.9 19.6	19.8	77.2 77.5	77.4	5.5 5.5	5.5	5.4	6.1 6.0	6.1		6.6 6.8	6.7	
				6.8	Middle	3.4	27.2 27.1	27.2	8.5 8.5	8.5	21.4 22.0	21.7	74.8 74.1	74.5	5.3 5.4	5.3	5.4	6.4 6.3	6.4	6.4	8.3 6.3	7.3	7.6
					Bottom	5.8	26.7 26.9	26.8	8.5 8.5	8.5	23.0 22.9	23.0	72.7 73.4	73.1	5.1 5.2	5.1	5.1	6.5 6.6	6.6		9.1 8.5	8.8	
25-Jul-16	Sunny	Moderate	10:39		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	20.9 20.9	20.9	78.2 77.5	77.9	5.4 5.4	5.4	5.3	5.5 5.4	5.5		3.8 3.7	3.8	
				6.6	Middle	3.3	26.8 26.8	26.8	8.0 8.0	8.0	23.3 23.2	23.3	73.3 72.6	73.0	5.1 5.1	5.1	0.0	5.9 6.1	6.0	6.1	3.6 3.3	3.5	3.7
					Bottom	5.6	26.6 26.6	26.6	7.9 8.0	7.9	25.0 24.9	24.9	75.0 75.6	75.3	5.2 5.3	5.3	5.3	6.6 6.8	6.7		3.5 3.8	3.7	
27-Jul-16	Sunny	Moderate	12:52		Surface	1.0	28.2 28.3	28.2	8.0 8.0	8.0	20.5 21.7	21.1	98.7 100.0	99.4	6.9 6.9	6.9	6.8	5.5 5.5	5.5		7.7 7.2	7.5	
				7.1	Middle	3.6	27.7 27.7	27.7	8.0 8.0	8.0	23.5 21.4	22.5	95.2 95.6	95.4	6.5 6.6	6.6	0.0	5.7 5.7	5.7	5.7	8.3 8.1	8.2	7.7
					Bottom	6.1	26.8 26.7	26.7	7.9 8.0	7.9	25.3 27.6	26.4	93.2 92.6	92.9	6.5 6.4	6.5	6.5	5.7 5.8	5.8		7.5 7.3	7.4	
29-Jul-16	Sunny	Moderate	15:18		Surface	1.0	30.2 30.2	30.2	8.4 8.4	8.4	16.4 16.4	16.4	112.2 104.0	108.1	7.7 7.2	7.4	7.1	5.5 5.7	5.6		3.1 2.1	2.6	
				7.2	Middle	3.6	27.1 27.5	27.3	8.1 8.1	8.1	24.7 24.4	24.5	104.0 91.0	97.5	7.2 6.3	6.7	1.1	5.7 5.7	5.7	5.7	2.2 2.3	2.3	2.7
					Bottom	6.2	26.5 26.6	26.6	8.1 8.1	8.1	27.5 27.1	27.3	83.8 78.8	81.3	5.8 5.4	5.6	5.6	5.7 5.8	5.8		3.2 3.0	3.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ture (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	L L	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:12		Surface	1.0	29.2 29.2	29.2	8.1 8.1	8.1	13.1 13.1	13.1	83.6 83.5	83.6	6.0 6.0	6.0	5.0	4.8 5.2	5.0		3.5 3.0	3.3	
				16.4	Middle	8.2	27.8 27.8	27.8	8.0 8.0	8.0	19.1 19.2	19.1	72.7 71.6	72.2	5.2 5.1	5.1	5.6	5.1 5.3	5.2	6.0	2.8 4.3	3.6	3.3
					Bottom	15.4	27.9 27.8	27.8	8.0 8.0	8.0	19.3 19.4	19.3	76.6 75.5	76.1	5.4 5.3	5.4	5.4	7.5 7.8	7.7		2.7 3.0	2.9	
4-Jul-16	Sunny	Moderate	11:52		Surface	1.0	28.4 28.5	28.5	8.1 8.1	8.1	20.6 20.4	20.5	81.8 81.8	81.8	5.8 5.8	5.8		3.9 3.8	3.9		2.8 3.3	3.1	
				15.7	Middle	7.9	28.3 28.3	28.3	8.1 8.1	8.1	21.6 20.8	21.2	81.3 81.1	81.2	5.8 5.8	5.8	5.8	4.2	4.1	4.1	3.2 3.5	3.4	3.3
					Bottom	14.7	28.3 28.1	28.2	8.1 8.1	8.1	21.9 22.2	22.1	80.0 79.4	79.7	5.7 5.7	5.7	5.7	4.3 4.4	4.4		2.7 4.0	3.4	
6-Jul-16	Rainy	Moderate	13:21		Surface	1.0	28.1 28.2	28.1	8.4 8.4	8.4	14.7 14.7	14.7	72.7 72.2	72.5	5.1 5.1	5.1		5.3 5.3	5.3		2.7 3.2	3.0	i
				16.2	Middle	8.1	27.9 27.9	27.9	8.3 8.3	8.3	17.5 17.6	17.6	70.4 71.2	70.8	5.1 5.1	5.1	5.1	7.4 7.1	7.3	6.6	2.8 5.0	3.9	3.5
					Bottom	15.2	27.9 27.9	27.9	8.3 8.3	8.3	17.6 18.9	18.3	69.1 69.2	69.2	4.9 5.0	4.9	4.9	7.0 7.3	7.2		3.3 4.0	3.7	
8-Jul-16	Sunny	Moderate	14:41		Surface	1.0	29.6 29.6	29.6	8.4 8.4	8.4	20.3 20.3	20.3	78.3 78.5	78.4	5.5 5.6	5.5	5.5	4.3 4.4	4.4		3.2 2.8	3.0	
				15.7	Middle	7.9	28.8 28.9	28.9	8.4 8.4	8.4	20.9 20.7	20.8	77.3 76.9	77.1	5.4 5.4	5.4	5.5	4.5 4.6	4.6	4.6	2.2 2.7	2.5	3.3
					Bottom	14.7	27.4 27.4	27.4	8.3 8.3	8.3	25.1 26.8	26.0	75.9 76.8	76.4	5.3 5.4	5.4	5.4	4.7 4.8	4.8		5.0 3.7	4.4	
11-Jul-16	Cloudy	Moderate	16:44		Surface	1.0	28.7 28.7	28.7	8.5 8.5	8.5	16.3 16.5	16.4	83.7 84.7	84.2	6.1 6.2	6.1	6.1	4.2 4.1	4.2		5.2 5.5	5.4	
				15.7	Middle	7.9	28.7 28.6	28.6	8.5 8.5	8.5	16.2 16.8	16.5	83.9 83.4	83.7	6.1 6.1	6.1	0.1	4.5 4.4	4.5	4.4	4.7 6.4	5.6	5.4
					Bottom	14.7	28.5 28.5	28.5	8.4 8.4	8.4	21.8 18.0	19.9	81.5 82.7	82.1	5.9 5.9	5.9	5.9	4.5 4.6	4.6		6.1 4.3	5.2	
13-Jul-16	Rainy	Moderate	08:53		Surface	1.0	27.8 27.8	27.8	8.4 8.4	8.4	9.9 10.1	10.0	78.7 78.5	78.6	5.6 5.6	5.6	5.5	4.7 4.9	4.8		4.9 5.0	5.0	
				16.4	Middle	8.2	25.9 26.9	26.4	8.1 8.2	8.1	24.5 20.1	22.3	74.0 73.9	74.0	5.3 5.3	5.3	0.0	5.0 4.7	4.9	5.3	5.2 4.9	5.1	5.6
					Bottom	15.4	25.8 25.8	25.8	8.1 8.1	8.1	25.1 26.0	25.5	74.9 74.4	74.7	5.3 5.3	5.3	5.3	6.1 6.3	6.2		6.5 7.1	6.8	
15-Jul-16	Sunny	Moderate	10:59		Surface	1.0	28.9 28.8	28.9	8.4 8.5	8.5	9.7 8.5	9.1	79.7 79.4	79.6	5.9 5.9	5.9	5.8	6.0 5.9	6.0		5.6 5.8	5.7	
				16.2	Middle	8.1	25.4 25.5	25.4	8.0 8.0	8.0	26.9 26.5	26.7	77.7 77.9	77.8	5.7 5.7	5.7		5.7 5.9	5.8	6.4	6.3 7.2	6.8	6.5
					Bottom	15.2	25.4 25.4	25.4	7.9 7.9	7.9	27.2 27.2	27.2	77.9 78.6	78.3	5.7 5.8	5.7	5.7	7.3 7.7	7.5		7.1 6.7	6.9	
18-Jul-16	Sunny	Moderate	13:02		Surface	1.0	29.5 29.7	29.6	8.5 8.5	8.5	19.5 19.5	19.5	101.8 102.4	102.1	7.2 7.2	7.2	7.1	4.8 5.0	4.9		7.3 7.6	7.5	
				16.3	Middle	8.2	29.4 29.3	29.3	8.5 8.5	8.5	19.6 20.1	19.9	100.2 99.0	99.6	7.0 7.0	7.0		5.1 5.1	5.1	5.1	7.2 7.5	7.4	7.7
	-				Bottom	15.3	27.3 28.4	27.9	8.4 8.4	8.4	28.0 27.3	27.6	98.2 98.2	98.2	7.0 7.0	7.0	7.0	5.3 5.2	5.3		9.1 7.2	8.2	
20-Jul-16	Sunny	Moderate	12:19		Surface	1.0	28.9 28.8	28.8	8.7 8.6	8.7	18.5 18.6	18.5	103.6 103.3	103.5	7.3 7.3	7.3	7.3	4.3 4.4	4.4		4.6 5.1	4.9	
				15.8	Middle	7.9	28.5 28.2	28.4	8.6 8.6	8.6	19.7 17.5	18.6	100.9 101.7	101.3	7.1 7.2	7.2		4.5 4.6	4.6	4.6	4.2 5.9	5.1	5.2
					Bottom	14.8	28.1 28.3	28.2	8.6 8.6	8.6	17.7 18.2	18.0	98.6 96.0	97.3	7.0 6.8	6.9	6.9	4.8 4.7	4.8		5.3 5.7	5.5	

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Ter	perature (°C)		ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Valu	e Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:32		Surface 1	.0 28. 28.		8.7 8.7	8.7	19.6 19.9	19.8	83.0 83.2	83.1	5.8 5.8	5.8	5.8	8.2 8.3	8.3		7.1 6.7	6.9	
				16.2	Middle 8	.1 27. 27.	27.7	8.7 8.7	8.7	21.2 21.2	21.2	82.3 82.9	82.6	5.8 5.8	5.8	5.0	8.4 8.5	8.5	8.5	7.4 8.3	7.9	7.8
					Bottom 15	5.2 27. 28.	27.9	8.7 8.7	8.7	21.6 21.2	21.4	81.3 81.5	81.4	5.7 5.7	5.7	5.7	8.7 8.7	8.7		8.4 8.5	8.5	
25-Jul-16	Sunny	Moderate	16:07		Surface 1	.0 29. 29.		8.0 8.0	8.0	18.3 18.3	18.3	98.1 96.8	97.5	6.8 6.7	6.8	6.0	5.2 5.1	5.2		4.2 5.8	5.0	
				16.2	Middle 8	.1 27. 27.		8.0 8.0	8.0	23.6 23.6	23.6	74.9 75.2	75.1	5.2 5.2	5.2	0.0	6.8 6.6	6.7	6.4	6.7 6.5	6.6	5.8
					Bottom 15	5.2 25. 25.	25 h	8.0 8.0	8.0	27.8 27.8	27.8	71.6 72.5	72.1	5.0 5.1	5.0	5.0	7.1 7.2	7.2		6.5 5.2	5.9	
27-Jul-16	Sunny	Moderate	17:43		Surface 1	.0 29. 30.	29.8	8.0 8.0	8.0	20.5 20.2	20.4	133.5 138.8	136.2	9.1 9.4	9.2	8.4	4.4 4.5	4.5		4.9 5.7	5.3	
				18.1	Middle 9	.1 27. 27.		8.0 8.0	8.0	24.1 23.7	23.9	113.3 105.7	109.5	7.8 7.3	7.6	0.4	4.5 4.6	4.6	4.6	6.1 5.4	5.8	5.9
					Bottom 17	7.1 26. 27.	27.0	8.0 8.0	8.0	26.7 25.2	26.0	97.2 99.5	98.4	6.7 6.9	6.8	6.8	4.6 4.8	4.7		6.7 6.5	6.6	
29-Jul-16	Sunny	Moderate	09:59		Surface 1	.0 29. 29.		8.3 8.3	8.3	15.3 16.2	15.8	111.7 115.9	113.8	7.8 8.1	7.9	7.8	3.5 3.2	3.4		2.8 3.6	3.2	
				18.0	Middle 9	.0 28. 29.	28.9	8.3 8.3	8.3	16.4 17.2	16.8	102.7 114.6	108.7	7.2 8.0	7.6	7.0	3.5 3.4	3.5	3.5	2.6 3.0	2.8	2.9
					Bottom 17	7.0 28. 28.	287	8.2 8.2	8.2	19.0 18.1	18.6	112.0 101.3	106.7	7.8 7.1	7.5	7.5	3.5 3.6	3.6		2.6 2.5	2.6	1

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T T	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:04		Surface	1.0	29.2 29.1	29.1	8.2 8.1	8.2	13.1 13.2	13.2	85.6 84.0	84.8	6.1 5.9	6.0	5.9	5.3 5.5	5.4		4.2 4.7	4.5	
				16.2	Middle	8.1	28.0 28.1	28.1	8.0 8.0	8.0	18.4 18.3	18.3	81.2 79.1	80.2	5.8 5.6	5.7	5.9	8.6 8.0	8.3	7.3	3.6 5.1	4.4	4.5
					Bottom	15.2	28.5 28.0	28.2	8.1 8.0	8.1	18.2 18.4	18.3	76.0 78.9	77.5	5.4 5.6	5.5	5.5	7.9 8.7	8.3		4.6 4.5	4.6	
4-Jul-16	Sunny	Moderate	06:37		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	20.2 20.1	20.2	79.7 79.3	79.5	5.7 5.6	5.7		1.4 1.5	1.5		4.1 4.6	4.4	
				15.8	Middle	7.9	28.5 28.3	28.4	8.1 8.0	8.1	20.3 20.6	20.4	78.7 76.9	77.8	5.6 5.5	5.6	5.7	1.6 1.6	1.6	1.6	4.5	4.1	4.2
					Bottom	14.8	28.2	28.2	8.0 8.0	8.0	22.1 23.3	22.7	78.9 77.9	78.4	5.6 5.5	5.5	5.5	1.7	1.7		4.1	4.1	
6-Jul-16	Rainy	Moderate	07:57		Surface	1.0	27.9 28.0	28.0	8.4 8.4	8.4	15.9 15.9	15.9	73.8 72.7	73.3	5.2 5.1	5.2		10.2 10.3	10.3		4.3 4.8	4.6	i
				16.5	Middle	8.3	27.5 27.5	27.5	8.3 8.3	8.3	19.9 19.8	19.8	71.2 72.0	71.6	5.0 5.1	5.1	5.2	10.5 10.6	10.6	10.5	5.9 5.4	5.7	5.4
					Bottom	15.5	27.8 27.5	27.7	8.3 8.3	8.3	19.7 19.8	19.8	68.5 68.4	68.5	4.9 4.8	4.9	4.9	10.6 10.5	10.6		6.6 5.4	6.0	
8-Jul-16	Sunny	Moderate	09:47		Surface	1.0	27.5 27.5	27.5	8.4 8.4	8.4	25.4 24.9	25.2	75.2 75.8	75.5	5.3 5.3	5.3	5.3	7.1 7.0	7.1		3.3 3.6	3.5	
				15.7	Middle	7.9	27.1 27.0	27.1	8.3 8.3	8.3	23.7 22.9	23.3	75.1 74.5	74.8	5.3 5.2	5.3	5.5	7.3 7.3	7.3	7.3	3.6 4.8	4.2	3.8
					Bottom	14.7	27.2 27.1	27.1	8.3 8.3	8.3	21.4 23.4	22.4	74.5 74.7	74.6	5.2 5.2	5.2	5.2	7.5 7.4	7.5		3.6 4.0	3.8	
11-Jul-16	Cloudy	Moderate	12:07		Surface	1.0	28.3 28.4	28.4	8.4 8.5	8.5	19.3 18.2	18.8	72.3 72.5	72.4	5.3 5.3	5.3	5.3	4.2 4.1	4.2		4.3 3.8	4.1	
				15.8	Middle	7.9	28.3 28.3	28.3	8.4 8.4	8.4	19.6 20.3	20.0	71.7 71.2	71.5	5.2 5.2	5.2	0.0	4.3 4.4	4.4	4.4	4.1 3.5	3.8	4.5
					Bottom	14.8	26.1 26.9	26.5	8.2 8.3	8.3	30.0 27.5	28.8	70.9 71.1	71.0	5.1 5.2	5.1	5.1	4.5 4.5	4.5		5.0 6.0	5.5	
13-Jul-16	Rainy	Moderate	13:17		Surface	1.0	27.9 27.8	27.9	8.3 8.4	8.4	11.4 11.8	11.6	79.5 80.5	80.0	5.7 5.8	5.7	5.6	4.7 4.6	4.7		5.5 4.7	5.1	
				16.1	Middle	8.1	26.3 26.4	26.3	8.1 8.1	8.1	22.5 22.2	22.3	76.7 75.5	76.1	5.4 5.4	5.4	0.0	5.0 4.7	4.9	4.9	5.7 5.9	5.8	6.0
					Bottom	15.1	26.0 26.0	26.0	8.1 8.1	8.1	24.9 25.0	25.0	74.0 75.0	74.5	5.3 5.3	5.3	5.3	5.1 5.3	5.2		7.0 7.0	7.0	
15-Jul-16	Sunny	Moderate	16:03		Surface	1.0	29.4 29.4	29.4	8.4 8.4	8.4	8.6 8.7	8.7	79.7 80.3	80.0	5.9 6.0	5.9	5.9	6.7 6.3	6.5		5.1 4.8	5.0	
				16.4	Middle	8.2	25.7 25.3	25.5	8.0 8.0	8.0	25.0 24.8	24.9	78.4 78.4	78.4	5.8 5.8	5.8		7.7 7.9	7.8	7.4	3.7 4.5	4.1	4.9
					Bottom	15.4	25.2 24.9	25.1	7.9 8.0	8.0	26.6 27.6	27.1	78.4 78.6	78.5	5.8 5.8	5.8	5.8	8.0 7.5	7.8		5.8 5.6	5.7	
18-Jul-16	Sunny	Moderate	18:52		Surface	1.0	29.7 29.9	29.8	8.7 8.7	8.7	18.3 18.1	18.2	105.6 105.5	105.6	7.4 7.5	7.5	7.4	7.1	7.2		6.0 5.2	5.6	
				16.4	Middle	8.2	29.6 29.0	29.3	8.6 8.6	8.6	19.7 20.0	19.9	102.1 102.2	102.2	7.3 7.3	7.3		7.4 7.3	7.4	7.4	6.0 5.8	5.9	5.9
					Bottom	15.4	28.8 28.9	28.9	8.6 <u>8.6</u>	8.6	22.3 22.0	22.2	98.3 98.5	98.4	6.9 6.9	6.9	6.9	7.5 7.6	7.6		6.4 5.9	6.2	
20-Jul-16	Sunny	Moderate	07:19		Surface	1.0	28.0 28.4	28.2	8.5 8.6	8.6	17.0 18.1	17.6	89.4 89.9	89.7	6.3 6.4	6.3	6.3	5.1 4.8	5.0		5.6 4.9	5.3	
				15.8	Middle	7.9	28.1 27.3	27.7	8.5 8.5	8.5	17.1 19.8	18.4	88.1 88.5	88.3	6.3 6.3	6.3		5.2 5.4	5.3	5.4	5.4 4.9	5.2	6.2
					Bottom	14.8	26.8 27.5	27.2	8.5 8.5	8.5	22.1 19.8	21.0	87.5 87.0	87.3	6.2 6.2	6.2	6.2	5.7 5.8	5.8		7.7 8.3	8.0	

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Temper	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:51		Surface	1.0	27.8 27.7	27.7	8.6 8.6	8.6	19.7 19.8	19.7	74.8 74.5	74.7	5.3 5.3	5.3	5.3	5.4 5.3	5.4		5.6 5.4	5.5	
				16.3	Middle	8.2	27.4 27.7	27.6	8.6 8.6	8.6	19.7 20.0	19.9	74.1 73.9	74.0	5.2 5.2	5.2	5.5	5.6 5.5	5.6	5.6	6.5 6.5	6.5	6.2
					Bottom	15.3	27.3 27.1	27.2	8.6 8.6	8.6	22.6 20.3	21.4	73.8 72.6	73.2	5.2 5.1	5.1	5.1	5.7 5.7	5.7		6.4 6.6	6.5	
25-Jul-16	Sunny	Moderate	10:55		Surface	1.0	28.4 28.4	28.4	8.0 8.0	8.0	20.0 20.1	20.0	78.6 77.8	78.2	5.5 5.4	5.5	5.4	4.4 4.6	4.5		2.6 2.6	2.6	
				16.4	Middle	8.2	26.6 26.7	26.7	8.0 8.0	8.0	24.2 24.3	24.2	74.5 74.0	74.3	5.2 5.2	5.2	0.4	5.3 5.3	5.3	5.3	2.5 2.6	2.6	2.7
					Bottom	15.4	26.3 26.3	26.3	8.0 7.9	7.9	25.5 25.5	25.5	70.6 71.1	70.9	4.9 5.0	5.0	5.0	6.2 6.1	6.2		2.9 2.8	2.9	
27-Jul-16	Sunny	Moderate	13:06		Surface	1.0	28.2 28.4	28.3	8.0 8.0	8.0	19.4 18.7	19.0	113.7 107.4	110.6	7.9 7.5	7.7	7.6	5.5 5.7	5.6		6.6 6.7	6.7	
				18.1	Middle	9.1	27.9 28.0	28.0	8.0 8.0	8.0	20.1 19.4	19.8	107.7 104.5	106.1	7.5 7.3	7.4	7.0	5.5 5.8	5.7	5.7	9.1 7.1	8.1	7.3
					Bottom	17.1	26.8 26.9	26.8	8.0 7.9	7.9	24.3 23.1	23.7	101.3 101.5	101.4	7.1 7.1	7.1	7.1	5.8 5.9	5.9		7.0 7.4	7.2	
29-Jul-16	Sunny	Moderate	15:00		Surface	1.0	30.2 30.1	30.2	8.4 8.4	8.4	16.4 16.4	16.4	109.8 108.4	109.1	7.6 7.5	7.5	7.4	5.6 5.5	5.6		2.6 3.4	3.0	
				18.0	Middle	9.0	26.9 27.6	27.3	8.1 8.1	8.1	25.0 24.3	24.7	108.3 104.7	106.5	7.5 7.2	7.3	7.4	5.5 5.6	5.6	5.6	5.1 3.4	4.3	4.1
					Bottom	17.0	26.5 26.5	26.5	8.2 8.1	8.1	27.4 27.4	27.4	90.2 87.1	88.7	6.3 6.0	6.1	6.1	5.7 5.7	5.7		5.4 4.4	4.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:21		Surface	1.0	28.4 28.7	28.5	8.3 8.3	8.3	17.3 16.9	17.1	78.7 80.8	79.8	5.6 5.7	5.6		5.0 4.8	4.9		5.0 5.0	5.0	
				12.3	Middle	6.2	27.7 27.6	27.6	8.2 8.2	8.2	21.4 21.4	21.4	77.3 77.7	77.5	5.3 5.4	5.4	5.5	4.6 4.9	4.8	4.9	5.8 5.6	5.7	5.2
					Bottom	11.3	26.3 26.3	26.3	8.2 8.1	8.2	27.3 27.5	27.4	75.3 75.4	75.4	5.3 5.3	5.3	5.3	5.0 5.0	5.0		4.9	5.0	
4-Jul-16	Sunny	Moderate	12:57		Surface	1.0	28.5 28.5	28.5	8.4 8.4	8.4	18.1 18.1	18.1	78.5 78.3	78.4	5.4 5.5	5.5		7.4	7.3		6.1 6.1	6.1	
				12.6	Middle	6.3	26.3 26.8	26.5	8.3 8.3	8.3	24.7 24.4	24.5	74.2	74.7	5.2 5.3	5.2	5.4	7.2	7.4	7.3	6.4 6.1	6.3	6.2
					Bottom	11.6	26.1 25.6	25.8	8.3 8.3	8.3	28.9	29.1	69.0 71.4	70.2	4.8 5.0	4.9	4.9	7.1	7.1		5.9 6.2	6.1	1
6-Jul-16	Rainy	Moderate	14:40		Surface	1.0	28.0 28.1	28.1	8.2 8.3	8.3	17.3 16.8	17.1	79.3 80.2	79.8	5.6 5.7	5.7		4.7 4.6	4.7		5.7 5.7	5.7	
				13.4	Middle	6.7	28.0	28.0	8.2 8.3	8.3	17.6 17.5	17.6	78.6 78.4	78.5	5.6 5.6	5.6	5.7	4.8	4.9	4.9	6.2 6.3	6.3	6.6
					Bottom	12.4	27.9 27.9	27.9	8.3 8.2	8.3	17.7	17.9	78.1	77.9	5.6 5.5	5.5	5.5	5.1 5.0	5.1		7.2	7.9	1
8-Jul-16	Sunny	Moderate	15:45		Surface	1.0	29.5 29.5	29.5	8.3 8.3	8.3	16.0 15.9	16.0	83.7 84.5	84.1	5.9 5.9	5.9		3.8 3.9	3.9		4.1 3.7	3.9	
				13.2	Middle	6.6	25.8 26.1	25.9	8.2 8.2	8.2	27.1 26.3	26.7	77.3 78.0	77.7	5.5 5.6	5.5	5.7	3.3 3.4	3.4	3.6	4.0	3.6	3.8
					Bottom	12.2	25.8 25.4	25.6	8.1 8.2	8.2	27.7 28.8	28.3	71.8	73.1	5.0 5.2	5.1	5.1	3.6 3.4	3.5		4.0	3.9	
11-Jul-16	Cloudy	Moderate	17:46		Surface	1.0	28.6 28.6	28.6	8.3 8.4	8.4	15.8 15.3	15.6	85.3 78.7	82.0	6.1 5.6	5.8	5.0	3.7 3.4	3.6		3.9 3.9	3.9	
				12.2	Middle	6.1	27.8 28.2	28.0	8.3 8.3	8.3	21.6 17.9	19.7	77.2 78.8	78.0	5.4 5.5	5.4	5.6	3.6 3.6	3.6	3.6	2.9 3.2	3.1	3.4
					Bottom	11.2	25.4 26.3	25.9	8.2 8.2	8.2	29.4 26.4	27.9	71.7 74.2	73.0	5.0 5.2	5.1	5.1	3.6 3.5	3.6		3.7 2.8	3.3	
13-Jul-16	Rainy	Moderate	07:51		Surface	1.0	27.8 27.2	27.5	8.2 8.2	8.2	15.0 15.7	15.3	72.6 74.5	73.6	5.3 5.3	5.3	5.2	3.5 3.3	3.4		4.2 5.5	4.9	
				12.3	Middle	6.2	26.2 26.4	26.3	8.0 8.1	8.1	23.5 22.4	23.0	70.8 71.0	70.9	5.1 5.2	5.2	5.3	3.6 3.6	3.6	3.6	5.0 4.8	4.9	5.2
					Bottom	11.3	24.5 25.0	24.7	7.9 8.0	8.0	30.7 29.7	30.2	65.9 68.1	67.0	4.8 4.9	4.9	4.9	3.6 3.7	3.7		5.6 5.7	5.7	
15-Jul-16	Sunny	Moderate	09:55		Surface	1.0	28.1 28.0	28.0	8.2 8.2	8.2	13.8 13.9	13.9	75.1 75.5	75.3	5.4 5.5	5.5	5.3	4.0 3.9	4.0		4.1 4.7	4.4	
				12.5	Middle	6.3	26.0 25.7	25.8	8.0 8.0	8.0	24.7 24.8	24.8	72.9 73.5	73.2	5.1 5.2	5.1	5.5	3.9 4.1	4.0	4.0	3.3 4.2	3.8	4.2
					Bottom	11.5	24.1 24.5	24.3	7.9 7.9	7.9	33.1 31.2	32.2	67.2 69.7	68.5	4.8 4.9	4.8	4.8	3.9 4.2	4.1		3.5 5.1	4.3	
18-Jul-16	Sunny	Moderate	11:54		Surface	1.0	28.5 28.6	28.5	8.4 8.4	8.4	18.8 18.9	18.8	82.3 82.8	82.6	5.8 5.8	5.8	5.6	5.2 5.4	5.3		4.8 6.3	5.6	
				12.3	Middle	6.2	27.6 26.5	27.0	8.3 8.3	8.3	22.8 25.8	24.3	78.1 77.5	77.8	5.4 5.2	5.3	5.0	6.1 6.2	6.2	5.9	4.4 5.6	5.0	5.3
					Bottom	11.3	24.7 24.6	24.7	8.2 8.2	8.2	33.9 34.2	34.0	70.5 72.6	71.6	4.9 5.0	4.9	4.9	6.1 6.2	6.2		5.4 5.4	5.4	
20-Jul-16	Sunny	Moderate	13:27		Surface	1.0	28.4 28.3	28.3	8.5 8.5	8.5	20.0 19.9	20.0	84.8 84.1	84.5	5.9 5.9	5.9	5.7	8.5 8.6	8.6		8.7 7.8	8.3	
				12.0	Middle	6.0	26.9 26.8	26.9	8.4 8.4	8.4	24.0 24.3	24.2	78.5 79.4	79.0	5.5 5.5	5.5	5.7	9.3 9.5	9.4	9.2	7.8 9.6	8.7	9.2
					Bottom	11.0	25.3 25.3	25.3	8.4 8.4	8.4	29.7 29.7	29.7	73.9 73.6	73.8	5.2 5.1	5.1	5.1	9.7 9.5	9.6		11.1 9.8	10.5	

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	F	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ı)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:37		Surface	10	29.2 29.6	29.4	8.4 8.5	8.5	20.3 19.7	20.0	85.3 84.4	84.9	5.9 5.8	5.8	5.6	5.1 4.8	5.0		4.2 4.1	4.2	
				11.6	Middle	58	26.6 26.7	26.7	8.4 8.3	8.4	28.4 28.6	28.5	76.8 77.2	77.0	5.3 5.3	5.3	5.0	8.5 8.1	8.3	7.1	4.2 4.6	4.4	4.6
					Bottom 1	106	25.4 25.5	25.4	8.3 8.4	8.3	30.9 30.6	30.8	70.9 71.6	71.3	4.9 4.9	4.9	4.9	8.1 8.1	8.1		4.8 5.7	5.3	
25-Jul-16	Sunny	Moderate	16:44		Surface		28.4 28.4	28.4	8.0 8.0	8.0	22.9 22.6	22.8	86.1 86.7	86.4	5.9 6.0	5.9	5.7	6.5 6.3	6.4		3.1 3.4	3.3	
				12.5	Middle		26.8 27.0	26.9	8.0 8.0	8.0	26.6 26.1	26.4	77.3 83.4	80.4	5.3 5.7	5.5	0.1	6.5 6.6	6.6	6.5	3.0 3.0	3.0	3.7
					Bottom 1		25.4 25.2	25.3	8.0 8.0	8.0	30.9 31.4	31.1	73.6 73.3	73.5	5.1 5.1	5.1	5.1	6.4 6.5	6.5		4.0 5.4	4.7	
27-Jul-16	Sunny	Moderate	18:47		Surface		28.1 28.2	28.1	8.0 8.0	8.0	23.2 23.0	23.1	105.7 98.7	102.2	7.3 6.8	7.0	6.7	5.2 5.2	5.2		7.0 7.6	7.3	
				11.9	Middle		26.6 26.4	26.5	8.0 8.0	8.0	26.1 26.6	26.4	85.2 94.9	90.1	5.9 6.6	6.3	0.7	5.5 5.4	5.5	5.4	8.0 7.0	7.5	7.4
					Bottom 1	09	24.6 24.5	24.5	8.0 8.0	8.0	30.5 30.9	30.7	72.4 73.9	73.2	5.1 5.1	5.1	5.1	5.5 5.2	5.4		6.7 7.8	7.3	
29-Jul-16	Sunny	Moderate	08:53		Surface	10	28.5 28.5	28.5	8.4 8.4	8.4	20.2 20.3	20.2	92.8 94.6	93.7	6.4 6.6	6.5	6.1	3.8 4.1	4.0		6.8 6.4	6.6	
				12.4	Middle		28.3 27.6	28.0	8.4 8.4	8.4	20.7 20.9	20.8	85.2 79.9	82.6	5.9 5.6	5.7	0.1	4.1 4.1	4.1	4.1	7.8 7.4	7.6	7.2
					Bottom 1	114	24.5 24.4	24.4	8.3 8.3	8.3	31.8 32.1	31.9	76.3 80.7	78.5	5.4 5.6	5.5	5.5	4.2 4.2	4.2		7.4 7.5	7.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	17:12		Surface	1.0	28.4 28.3	28.3	8.4 8.4	8.4	18.2 18.5	18.3	74.9 80.0	77.5	5.3 5.5	5.4	5.0	9.3 9.5	9.4		3.0 4.3	3.7	
				12.4	Middle	6.2	27.4 26.9	27.1	8.3 8.4	8.4	23.0 23.9	23.4	74.5 75.4	75.0	5.1 5.3	5.2	5.3	9.4 9.1	9.3	9.4	3.8 3.6	3.7	3.6
					Bottom	11.4	26.5 26.6	26.6	8.3 8.3	8.3	27.0 26.8	26.9	70.0	71.9	4.9 5.1	5.0	5.0	9.2 9.5	9.4		3.4 3.4	3.4	
4-Jul-16	Sunny	Moderate	05:41		Surface	1.0	27.6 27.5	27.6	8.3 8.3	8.3	20.6 20.9	20.7	77.6 77.2	77.4	5.4 5.4	5.4		2.4 2.4	2.4		2.9 3.9	3.4	
				12.7	Middle	6.4	25.8 26.2	26.0	8.2 8.3	8.3	28.3 26.3	27.3	73.8 72.8	73.3	5.1 5.0	5.1	5.3	2.8 2.9	2.9	2.7	3.1 3.2	3.2	3.3
					Bottom	11.7	25.5 25.3	25.4	8.2 8.2	8.2	30.4 30.7	30.6	70.5 68.2	69.4	4.9 4.7	4.8	4.8	3.0 2.8	2.9		3.0 3.3	3.2	
6-Jul-16	Rainy	Moderate	07:05		Surface	1.0	27.7 27.5	27.6	8.3 8.3	8.3	20.1 21.0	20.5	73.2 73.8	73.5	5.2 5.2	5.2	5.2	2.0 1.9	2.0		2.1 2.8	2.5	
				13.5	Middle	6.8	27.0 27.2	27.1	8.3 8.3	8.3	22.2 22.3	22.3	71.6 71.7	71.7	5.3 5.2	5.2	5.2	2.3 2.2	2.3	2.3	3.0 2.6	2.8	2.6
					Bottom	12.5	26.4 26.5	26.5	8.3 8.2	8.3	24.4 26.7	25.6	71.8 71.1	71.5	5.1 5.1	5.1	5.1	2.5 2.6	2.6		2.5 2.6	2.6	
8-Jul-16	Sunny	Moderate	08:36		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	16.3 16.5	16.4	80.1 81.2	80.7	5.8 5.9	5.8	5.7	2.7 2.9	2.8		4.3 4.1	4.2	
				13.6	Middle	6.8	25.3 25.1	25.2	7.9 7.9	7.9	29.1 29.5	29.3	76.3 75.2	75.8	5.5 5.4	5.5	0.1	2.8 2.6	2.7	2.8	4.5 5.3	4.9	4.7
					Bottom	12.6	25.1 25.0	25.0	7.9 7.9	7.9	30.0 29.9	29.9	73.9 71.5	72.7	5.3 5.1	5.2	5.2	3.0 2.7	2.9		4.7 5.2	5.0	
11-Jul-16	Cloudy	Moderate	10:46		Surface	1.0	27.8 27.7	27.8	8.1 8.1	8.1	18.2 18.0	18.1	74.9 77.1	76.0	5.3 5.4	5.4	5.2	2.8 2.8	2.8		3.4 2.9	3.2	
				12.4	Middle	6.2	26.2 26.0	26.1	8.0 8.0	8.0	25.3 25.4	25.4	71.6 72.6	72.1	5.0 5.0	5.0	0.2	2.8 3.0	2.9	2.9	3.1 3.9	3.5	3.0
					Bottom	11.4	25.4 25.5	25.4	7.9 8.0	7.9	28.6 28.0	28.3	70.6 70.3	70.5	5.0 4.9	4.9	4.9	2.9 3.0	3.0		2.2 2.5	2.4	
13-Jul-16	Rainy	Moderate	14:17		Surface	1.0	27.5 27.5	27.5	8.3 8.3	8.3	16.9 16.7	16.8	79.8 76.9	78.4	5.8 5.7	5.8	5.8	3.2 3.3	3.3		5.8 4.8	5.3	
				12.7	Middle	6.4	24.7 25.1	24.9	8.1 8.2	8.1	27.5 27.7	27.6	78.7 77.1	77.9	5.7 5.6	5.7		3.3 3.3	3.3	3.3	4.5 4.8	4.7	5.5
					Bottom	11.7	24.4 24.0	24.2	8.1 8.1	8.1	31.6 31.9	31.7	73.7 75.9	74.8	5.4 5.6	5.5	5.5	3.2 3.3	3.3		6.8 6.0	6.4	
15-Jul-16	Sunny	Moderate	17:17		Surface	1.0	29.4 29.3	29.4	8.5 8.5	8.5	14.2 14.2	14.2	93.9 95.8	94.9	6.6 6.8	6.7	6.0	3.5 3.7	3.6		4.5 3.2	3.9	
				12.8	Middle	6.4	25.4 25.4	25.4	8.3 8.2	8.3	28.3 28.0	28.2	77.1	76.8	5.4 5.2	5.3		3.8 3.9	3.9	3.8	4.2 4.0	4.1	4.2
					Bottom	11.8	24.2 24.1	24.2	8.2 8.2	8.2	33.2 33.3	33.2	71.5 70.9	71.2	5.0 4.9	4.9	4.9	3.9 4.1	4.0		5.0 4.2	4.6	<u> </u>
18-Jul-16	Sunny	Moderate	19:22		Surface	1.0	29.5 29.6	29.6	8.5 8.5	8.5	16.3 16.5	16.4	110.5 111.9	111.2	7.7 7.8	7.7	6.9	5.5 5.5	5.5		8.0 8.1	8.1	
				12.3	Middle	6.2	25.7 25.4	25.5	8.3 8.3	8.3	28.5 28.7	28.6	84.2 90.7	87.5	5.9 6.3	6.1		6.6 6.6	6.6	6.2	8.3 7.4	7.9	8.1
	0	Madavat	00.00		Bottom	11.3	24.5 25.4	24.9	8.3 <u>8.3</u>	8.3	32.8 30.1	31.5	75.7 69.3	72.5	5.3 <u>4.8</u>	5.0	5.0	6.6 6.5	6.6		7.8 8.8	8.3	<u> </u>
20-Jul-16	Sunny	Moderate	06:03		Surface	1.0	27.3 27.3	27.3	8.4 8.4	8.4	22.7 22.7	22.7	78.6 78.8	78.7	5.5 5.5	5.5	5.3	4.0	3.8		3.5 3.8	3.7	
				12.5	Middle	6.3	24.1 24.1	24.1	8.2 8.2	8.2	32.6 32.5	32.5	73.5 73.8	73.7	5.1 5.1	5.1		5.4 5.5	5.5	5.0	3.5 4.0	3.8	3.8
					Bottom	11.5	24.0 24.0	24.0	8.2 8.3	8.2	33.7 33.8	33.7	72.8 72.3	72.6	5.1 5.0	5.0	5.0	5.5 5.6	5.6		4.3 3.6	4.0	

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:34		Surface	1.0	26.6 26.8	26.7	8.2 8.2	8.2	25.8 25.4	25.6	84.6 85.0	84.8	5.9 6.0	5.9	5.8	8.3 8.3	8.3		3.0 2.2	2.6	
				12.4	Middle	6.2	24.2 24.0	24.1	8.2 8.2	8.2	33.0 33.6	33.3	83.8 80.0	81.9	5.9 5.6	5.7	5.0	8.5 8.5	8.5	8.4	3.3 2.8	3.1	3.0
					Bottom 1	11.4	24.2 24.1	24.1	8.2 8.2	8.2	33.7 33.7	33.7	77.7 79.5	78.6	5.5 5.6	5.5	5.5	8.5 8.4	8.5		3.6 3.0	3.3	
25-Jul-16	Sunny	Moderate	09:52		Surface	1.0	28.6 28.5	28.6	8.0 8.0	8.0	22.4 22.6	22.5	80.6 79.5	80.1	5.5 5.4	5.5	5.3	4.3 4.4	4.4		5.7 6.1	5.9	
				12.5	Middle	6.3	25.0 24.8	24.9	8.0 8.0	8.0	31.1 31.7	31.4	74.7 74.5	74.6	5.1 5.1	5.1	0.0	4.5 4.5	4.5	4.5	6.3 5.2	5.8	6.0
					Bottom 1	11.5	24.6 24.8	24.7	8.0 8.0	8.0	33.1 32.9	33.0	73.3 73.9	73.6	5.0 5.1	5.1	5.1	4.6 4.5	4.6		5.9 6.8	6.4	
27-Jul-16	Sunny	Moderate	12:00		Surface	1.0	27.5 27.2	27.3	8.0 8.0	8.0	24.3 24.7	24.5	88.4 84.1	86.3	6.1 5.8	6.0	5.7	5.6 5.5	5.6		4.7 5.6	5.2	
				12.9	Middle	6.5	25.7 26.4	26.1	8.0 8.0	8.0	27.7 26.6	27.2	75.3 76.0	75.7	5.3 5.3	5.3	5.7	5.4 5.6	5.5	5.6	4.6 4.2	4.4	6.2
					Bottom 1	11.9	25.0 25.1	25.1	8.0 8.0	8.0	29.6 29.6	29.6	70.4 74.3	72.4	4.9 5.2	5.0	5.0	5.6 5.7	5.7		8.9 8.9	8.9	
29-Jul-16	Sunny	Moderate	16:12		Surface	1.0	29.8 29.9	29.9	8.7 8.7	8.7	19.3 19.2	19.2	119.9 110.6	115.3	8.2 7.5	7.9	7.4	3.1 3.2	3.2		4.5 4.0	4.3	
				12.6	Middle	6.3	25.2 25.1	25.2	8.5 8.5	8.5	29.4 29.5	29.5	98.3 97.6	98.0	6.9 6.8	6.8	7.4	3.3 3.3	3.3	3.2	4.8 4.5	4.7	4.4
					Bottom 1	11.6	24.0 24.2	24.1	8.5 8.5	8.5	32.5 31.8	32.2	74.9 69.8	72.4	5.2 4.9	5.1	5.1	3.2 3.2	3.2		4.1 4.0	4.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T T	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	09:40		Surface	1.0	28.8 28.9	28.9	8.2 8.2	8.2	14.3 13.9	14.1	83.2 84.5	83.9	5.9 6.0	6.0	5.5	2.0 2.1	2.1		3.9 4.5	4.2	
				10.1	Middle	5.1	27.2 27.2	27.2	8.1 8.1	8.1	21.8 22.2	22.0	70.2 71.9	71.1	4.9 5.0	5.0	5.5	2.5 2.4	2.5	2.7	3.8 5.3	4.6	4.6
					Bottom	9.1	27.1 27.2	27.2	8.1 8.1	8.1	22.6 22.3	22.5	74.6 74.0	74.3	5.2 5.2	5.2	5.2	3.3 3.4	3.4		5.5 4.6	5.1	
4-Jul-16	Sunny	Moderate	13:30		Surface	1.0	28.3 28.4	28.3	8.1 8.2	8.2	20.9 20.9	20.9	74.5 74.2	74.4	5.3 5.3	5.3		3.1 3.2	3.2		4.4 5.3	4.9	
				10.7	Middle	5.4	27.9 27.8	27.9	8.2 8.1	8.1	22.8 22.2	22.5	73.6 73.8	73.7	5.2 5.3	5.3	5.3	3.4 3.5	3.5	3.5	3.4 3.2	3.3	4.0
					Bottom	9.7	27.4 27.3	27.4	8.1 8.1	8.1	25.9 26.1	26.0	72.3 73.1	72.7	5.2 5.2	5.2	5.2	3.8 3.7	3.8		3.7 3.7	3.7	
6-Jul-16	Rainy	Moderate	15:02		Surface	1.0	28.1 28.0	28.0	8.5 8.5	8.5	16.2 15.2	15.7	85.3 81.1	83.2	6.1 5.8	6.0		5.5 5.4	5.5		3.2 2.2	2.7	1
				11.1	Middle	5.6	27.0 26.9	27.0	8.4 8.4	8.4	20.7 22.3	21.5	78.9 75.9	77.4	5.6 5.4	5.5	5.8	5.6 5.5	5.6	5.5	4.1 3.8	4.0	3.7
					Bottom	10.1	26.1 26.2	26.2	8.3 8.3	8.3	24.7 24.2	24.5	74.4 77.1	75.8	5.3 5.5	5.4	5.4	5.4 5.5	5.5		3.8 4.7	4.3	
8-Jul-16	Sunny	Moderate	16:20		Surface	1.0	29.1 28.9	29.0	8.5 8.5	8.5	22.0 22.2	22.1	79.4 80.0	79.7	5.6 5.6	5.6	5.6	3.5 3.3	3.4		2.4 3.8	3.1	
				10.8	Middle	5.4	28.5 28.1	28.3	8.5 8.4	8.5	23.1 23.9	23.5	78.8 79.3	79.1	5.5 5.6	5.5	5.0	3.7 3.6	3.7	3.7	2.1 2.8	2.5	2.7
					Bottom	9.8	27.0 27.2	27.1	8.4 8.4	8.4	22.2 21.5	21.9	78.1 78.6	78.4	5.5 5.5	5.5	5.5	3.9 3.8	3.9		2.5 2.7	2.6	
11-Jul-16	Cloudy	Moderate	18:27		Surface	1.0	28.5 28.0	28.3	8.6 8.5	8.5	17.8 20.4	19.1	82.2 84.5	83.4	6.0 5.9	5.9	5.8	3.1 3.1	3.1		5.7 5.4	5.6	
				10.6	Middle	5.3	27.8 28.1	27.9	8.5 8.5	8.5	22.8 20.2	21.5	80.1 80.1	80.1	5.7 5.8	5.7	0.0	3.3 3.2	3.3	3.3	5.1 5.8	5.5	5.7
					Bottom	9.6	27.3 27.9	27.6	8.4 8.5	8.4	26.9 22.7	24.8	79.6 79.9	79.8	5.7 5.7	5.7	5.7	3.4 3.4	3.4		6.3 5.8	6.1	
13-Jul-16	Rainy	Moderate	07:19		Surface	1.0	27.3 27.2	27.3	8.3 8.3	8.3	16.8 16.9	16.9	76.4 75.8	76.1	5.4 5.4	5.4	5.4	3.7 3.7	3.7		5.3 6.5	5.9	
				10.1	Middle	5.1	25.9 25.9	25.9	8.1 8.1	8.1	24.9 24.8	24.8	74.9 73.9	74.4	5.3 5.3	5.3	0.1	4.3 4.3	4.3	4.1	5.9 5.5	5.7	6.0
					Bottom	9.1	25.9 25.9	25.9	8.1 8.1	8.1	24.8 24.9	24.8	73.2 74.3	73.8	5.2 5.3	5.2	5.2	4.1 4.3	4.2		6.0 6.6	6.3	
15-Jul-16	Sunny	Moderate	09:20		Surface	1.0	27.7 27.5	27.6	8.3 8.3	8.3	13.8 15.1	14.4	70.7 70.8	70.8	5.1 5.1	5.1	5.1	3.7 3.4	3.6		3.4 3.0	3.2	
				10.1	Middle	5.1	26.7 26.7	26.7	8.2 8.2	8.2	20.0 20.1	20.0	70.5 70.5	70.5	5.1 5.1	5.1	-	2.8 3.1	3.0	3.2	5.4 5.4	5.4	4.6
					Bottom	9.1	26.6 26.7	26.7	8.1 8.2	8.1	20.4 20.2	20.3	70.2 70.3	70.3	5.1 5.1	5.1	5.1	3.0 3.2	3.1		4.6 5.5	5.1	
18-Jul-16	Sunny	Moderate	11:25		Surface	1.0	29.2 29.6	29.4	8.5 8.5	8.5	19.3 19.2	19.2	105.3 104.5	104.9	7.5 7.4	7.4	7.4	3.1 3.2	3.2		7.0 5.0	6.0	
				10.7	Middle	5.4	28.5 29.3	28.9	8.5 8.5	8.5	20.3 19.3	19.8	103.4 102.7	103.1	7.4 7.3	7.3		3.3 3.2	3.3	3.3	7.3 6.8	7.1	6.8
					Bottom	9.7	28.2 28.6	28.4	8.5 8.5	8.5	23.3 21.6	22.4	100.3 99.1	99.7	7.2 7.1	7.1	7.1	3.4 3.5	3.5		7.2 7.3	7.3	
20-Jul-16	Sunny	Moderate	14:10		Surface	1.0	26.9 26.5	26.7	8.5 8.5	8.5	20.9 23.3	22.1	85.2 84.0	84.6	6.0 5.9	6.0	5.8	6.5 6.5	6.5		7.6 9.0	8.3	
				10.6	Middle	5.3	28.4 26.6	27.5	8.6 8.5	8.5	16.5 16.4	16.5	76.6 78.4	77.5	5.4 5.6	5.5		6.8 6.7	6.8	6.7	9.3 8.9	9.1	9.1
					Bottom	9.6	26.3 27.4	26.8	8.4 8.5	8.5	24.6 24.6	24.6	76.6 75.6	76.1	5.4 5.4	5.4	5.4	6.9 6.9	6.9		10.1 9.9	10.0	

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Ten	perature (°C)	1	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)) Valu	e Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	15:02		Surface 1	.0 27. 26.	26.8	8.6 8.6	8.6	22.0 22.8	22.4	77.2 76.9	77.1	5.4 5.4	5.4	5.4	7.5 7.4	7.5		5.8 5.6	5.7	
				11.7	Middle 5	5.9 25. 26.	25.8	8.5 8.6	8.6	25.7 25.1	25.4	75.4 76.4	75.9	5.3 5.3	5.3	5.4	7.7 7.5	7.6	7.6	7.6 8.2	7.9	6.8
					Bottom 10	0.7 25. 25.		8.5 8.6	8.6	27.2 26.1	26.7	74.7 74.2	74.5	5.2 5.2	5.2	5.2	7.8 7.8	7.8		6.8 6.7	6.8	
25-Jul-16	Sunny	Moderate	17:23		Surface 1	.0 28. 28.		8.0 8.0	8.0	19.0 18.9	19.0	94.9 95.4	95.2	6.6 6.7	6.6	6.1	5.9 5.7	5.8		5.3 4.3	4.8	
				10.0	Middle 5	5.0 27. 27.		8.0 8.0	8.0	22.5 22.6	22.5	81.1 80.6	80.9	5.7 5.6	5.6	0.1	7.1 7.2	7.2	6.9	4.6 5.7	5.2	5.3
					Bottom 9	0.0 25. 25.	25 h	8.0 7.9	8.0	26.8 26.8	26.8	78.5 77.1	77.8	5.5 5.4	5.5	5.5	7.6 7.7	7.7		6.2 5.7	6.0	
27-Jul-16	Sunny	Moderate	18:50		Surface 1	.0 28. 28.	28.3	8.0 8.0	8.0	17.6 16.9	17.3	110.3 108.4	109.4	7.8 7.7	7.8	7.4	4.4 4.2	4.3		4.1 4.8	4.5	
				10.0	Middle 5	5.0 27. 27.	27.3	8.0 8.0	8.0	19.3 19.8	19.6	90.9 103.3	97.1	6.4 7.4	6.9	7.4	4.4 4.2	4.3	4.4	7.0 6.2	6.6	5.9
					Bottom 9	0.0 26. 26.		8.0 7.9	8.0	20.8 21.0	20.9	95.3 87.7	91.5	6.8 6.3	6.6	6.6	4.3 4.6	4.5		6.8 6.3	6.6	
29-Jul-16	Sunny	Moderate	08:46		Surface 1	.0 28. 28.		8.1 8.0	8.1	20.1 20.4	20.3	106.3 105.0	105.7	7.4 7.3	7.3	7.3	3.5 3.5	3.5		2.8 3.2	3.0	
				10.0	Middle 5	5.0 27. 27.	27.8	8.0 8.0	8.0	23.3 23.3	23.3	106.1 104.0	105.1	7.3 7.2	7.2	1.5	3.6 3.5	3.6	3.6	2.0 2.1	2.1	2.5
					Bottom 9	0.0 27. 27.		8.0 7.9	8.0	24.1 24.3	24.2	103.3 103.6	103.5	7.1 7.2	7.1	7.1	3.6 3.5	3.6		2.6 2.3	2.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	L I	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	17:48		Surface	1.0	28.6 28.9	28.7	8.1 8.2	8.2	17.2 14.2	15.7	82.0 84.5	83.3	5.8 6.0	5.9	5.7	2.8 2.8	2.8		5.1 5.6	5.4	
				10.3	Middle	5.2	27.8 27.7	27.8	8.1 8.1	8.1	19.3 19.4	19.3	76.0 78.1	77.1	5.4 5.5	5.4	5.7	2.9 3.1	3.0	2.9	4.0 4.4	4.2	4.7
					Bottom	9.3	27.7 27.6	27.6	8.1 8.1	8.1	21.2 20.6	20.9	78.9 79.7	79.3	5.5 5.6	5.6	5.6	2.8 2.8	2.8		3.8 5.0	4.4	
4-Jul-16	Sunny	Moderate	05:06		Surface	1.0	27.9 28.4	28.2	8.1 8.1	8.1	21.4 21.2	21.3	74.1 74.8	74.5	5.3 5.4	5.4		2.0 2.0	2.0		3.0 3.9	3.5	
				10.7	Middle	5.4	27.3 26.9	27.1	8.1 8.1	8.1	23.8 26.2	25.0	73.9 74.2	74.1	5.2 5.3	5.3	5.4	2.2	2.2	2.2	3.0 2.7	2.9	3.3
					Bottom	9.7	26.8 27.0	26.9	8.0 8.1	8.1	27.4 26.6	27.0	71.5 71.5	71.5	5.1 5.1	5.1	5.1	2.3 2.3	2.3		3.7 3.1	3.4	
6-Jul-16	Rainy	Moderate	06:31		Surface	1.0	26.2 26.2	26.2	8.3 8.2	8.3	23.9 23.9	23.9	71.7 72.8	72.3	5.1 5.1	5.1		3.4 3.3	3.4		4.3 2.6	3.5	1
				10.4	Middle	5.2	25.1 25.4	25.3	8.2 8.2	8.2	27.0 26.8	26.9	73.2 71.5	72.4	5.2 5.0	5.1	5.1	3.6 3.5	3.6	3.5	3.3 3.6	3.5	3.9
					Bottom	9.4	25.0 25.2	25.1	8.2 8.2	8.2	28.2 28.0	28.1	69.9 68.6	69.3	5.0 4.8	4.9	4.9	3.5 3.6	3.6		4.5 4.6	4.6	
8-Jul-16	Sunny	Moderate	08:01		Surface	1.0	27.7 28.2	28.0	8.3 8.4	8.4	25.8 23.9	24.8	74.7 74.5	74.6	5.2 5.2	5.2	5.2	2.6 2.5	2.6		4.7 4.3	4.5	
				10.8	Middle	5.4	26.3 26.3	26.3	8.2 8.3	8.3	25.6 22.5	24.1	74.1 74.2	74.2	5.2 5.2	5.2	5.2	2.7 2.6	2.7	2.7	4.6 3.6	4.1	4.3
					Bottom	9.8	26.2 26.3	26.2	8.2 8.2	8.2	24.1 23.2	23.7	73.5 73.7	73.6	5.1 5.2	5.2	5.2	2.8 2.8	2.8		3.6 4.8	4.2	
11-Jul-16	Cloudy	Moderate	10:26		Surface	1.0	27.9 28.0	27.9	8.4 8.4	8.4	20.3 19.9	20.1	73.1 73.4	73.3	5.3 5.3	5.3	5.3	1.6 1.6	1.6		3.7 4.7	4.2	
				10.8	Middle	5.4	27.4 27.3	27.4	8.3 8.3	8.3	24.2 23.3	23.8	72.3 72.4	72.4	5.2 5.2	5.2	0.0	1.8 1.7	1.8	1.9	6.0 6.1	6.1	5.2
					Bottom	9.8	27.0 26.3	26.7	8.2 8.2	8.2	25.9 23.8	24.9	71.7 71.5	71.6	5.2 5.1	5.1	5.1	2.1 2.2	2.2		6.0 4.3	5.2	
13-Jul-16	Rainy	Moderate	14:56		Surface	1.0	27.4 27.1	27.3	8.4 8.3	8.3	12.5 14.8	13.7	80.8 80.6	80.7	5.7 5.7	5.7	5.5	3.5 3.4	3.5		6.2 5.4	5.8	
				10.3	Middle	5.2	25.7 25.8	25.8	8.2 8.2	8.2	22.9 20.8	21.9	74.9 73.6	74.3	5.3 5.2	5.2		3.4 3.6	3.5	3.5	6.1 4.2	5.2	5.4
					Bottom	9.3	25.6 26.1	25.9	8.2 8.2	8.2	23.5 22.2	22.9	76.5 75.4	76.0	5.4 5.3	5.4	5.4	3.5 3.4	3.5		4.9 5.6	5.3	
15-Jul-16	Sunny	Moderate	17:42		Surface	1.0	29.1 28.1	28.6	8.3 8.3	8.3	12.1 12.4	12.3	72.1 73.0	72.6	5.3 5.3	5.3	5.3	4.4 4.0	4.2		4.6 5.7	5.2	
				10.3	Middle	5.2	26.0 25.8	25.9	8.1 8.1	8.1	25.1 24.5	24.8	73.4 71.6	72.5	5.4 5.2	5.3		3.2 3.6	3.4	3.5	5.3 5.7	5.5	5.5
	-				Bottom	9.3	25.6 25.7	25.6	8.0 8.0	8.0	25.7 25.6	25.7	71.8	73.1	5.2 5.4	5.3	5.3	3.0 2.9	3.0		6.0 5.8	5.9	
18-Jul-16	Sunny	Moderate	20:26		Surface	1.0	28.5 28.0	28.2	8.5 8.5	8.5	23.1 24.1	23.6	95.7 96.3	96.0	6.8 6.8	6.8	6.7	4.2	4.2		5.5 5.9	5.7	
				10.8	Middle	5.4	27.7 27.4	27.5	8.5 8.5	8.5	24.8 26.2	25.5	90.1 92.7	91.4	6.4 6.5	6.5		4.3 4.4	4.4	4.4	6.5 6.4	6.5	6.3
			05.00		Bottom	9.8	27.6 27.3	27.5	8.5 8.5	8.5	26.1 27.5	26.8	87.7 <u>88.8</u>	88.3	6.2 6.3	6.2	6.2	4.5 4.5	4.5		6.4 7.0	6.7	
20-Jul-16	Sunny	Moderate	05:39		Surface	1.0	26.1 26.2	26.1	8.5 8.5	8.5	24.4 24.1	24.2	76.1 76.5	76.3	5.6 5.6	5.6	5.5	4.0 3.9	4.0		5.4 3.8	4.6	
				10.6	Middle	5.3	26.0 26.0	26.0	8.5 8.5	8.5	24.5 24.2	24.4	75.1 75.3	75.2	5.4 5.5	5.4		4.2 4.1	4.2	4.2	5.0 4.9	5.0	4.7
					Bottom	9.6	25.6 25.9	25.8	8.6 8.4	8.5	26.0 25.5	25.7	74.3 74.8	74.6	5.4 5.4	5.4	5.4	4.4 4.3	4.4		4.5 4.4	4.5	

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:04		Surface	1.0	27.8 28.0	27.9	8.5 8.5	8.5	19.1 19.0	19.0	81.5 80.4	81.0	5.7 5.7	5.7	5.7	2.1 2.3	2.2		5.8 6.4	6.1	
				11.8	Middle	5.9	27.7 27.5	27.6	8.5 8.5	8.5	19.7 21.2	20.4	79.9 80.3	80.1	5.6 5.6	5.6	5.7	2.4 2.3	2.4	2.4	5.7 5.9	5.8	5.7
					Bottom	10.8	27.5 27.5	27.5	8.5 8.4	8.5	21.5 21.1	21.3	77.9 77.6	77.8	5.5 5.5	5.5	5.5	2.5 2.6	2.6		5.4 5.1	5.3	
25-Jul-16	Sunny	Moderate	09:36		Surface	1.0	27.2 27.3	27.3	8.0 8.0	8.0	22.9 22.9	22.9	77.9 79.2	78.6	5.4 5.5	5.5	5.3	4.5 4.6	4.6		5.5 5.3	5.4	
				10.2	Middle	5.1	26.3 26.3	26.3	8.0 8.0	8.0	25.6 25.6	25.6	73.0 72.4	72.7	5.1 5.1	5.1	0.0	4.5 4.5	4.5	4.4	5.6 5.8	5.7	5.5
					Bottom	9.2	26.1 25.2	25.6	8.0 8.0	8.0	26.1 26.1	26.1	75.8 76.3	76.1	5.3 5.3	5.3	5.3	4.2 4.2	4.2		4.6 5.9	5.3	
27-Jul-16	Sunny	Moderate	12:07		Surface	1.0	28.1 27.5	27.8	8.0 8.0	8.0	25.3 25.9	25.6	123.9 110.6	117.3	8.4 7.6	8.0	7.7	4.0 4.0	4.0		9.5 8.6	9.1	
				10.0	Middle	5.0	27.5 27.2	27.4	8.0 8.0	8.0	25.9 26.2	26.1	106.7 108.7	107.7	7.3 7.4	7.4	1.1	4.1 4.2	4.2	4.2	9.0 8.4	8.7	8.8
					Bottom	9.0	27.2 27.2	27.2	8.0 8.0	8.0	26.2 26.3	26.3	104.2 106.6	105.4	7.2 7.3	7.2	7.2	4.3 4.2	4.3		8.6 8.4	8.5	
29-Jul-16	Sunny	Moderate	16:17		Surface	1.0	29.5 29.6	29.6	8.4 8.4	8.4	20.5 20.4	20.5	133.8 123.0	128.4	9.2 8.4	8.8	8.5	3.3 3.6	3.5		4.8 5.3	5.1	
				10.1	Middle	5.1	27.8 27.6	27.7	8.3 8.2	8.2	24.3 25.7	25.0	124.2 113.0	118.6	8.5 7.7	8.1	0.0	3.5 3.7	3.6	3.6	7.2 5.5	6.4	5.8
					Bottom	9.1	25.6 25.8	25.7	8.1 8.3	8.2	30.2 29.9	30.0	107.5 111.7	109.6	7.4 7.7	7.5	7.5	3.8 3.6	3.7		6.1 5.4	5.8	1

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ţ	рН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	(mg/L)		Turbidity(NT	U)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	09:28		Surface	1.0	28.9 28.9	28.9	8.4 8.3	8.4	14.0 13.9	13.9	83.5 86.5	85.0	6.0 6.2	6.1	5.6	2.0 1.9	2.0		4.7 6.2	5.5	
				34.7	Middle	17.4	26.8 26.9	26.9	8.3 8.3	8.3	23.4 23.1	23.3	73.6 71.2	72.4	5.2 5.0	5.1	5.0	2.2 2.3	2.3	2.2	7.1 5.6	6.4	6.3
					Bottom	33.7	26.7 26.8	26.8	8.4 8.2	8.3	23.7 23.5	23.6	76.8 74.8	75.8	5.4 5.2	5.3	5.3	2.3 2.2	2.3		6.3 7.7	7.0	1
4-Jul-16	Sunny	Moderate	13:42		Surface	1.0	28.4 28.5	28.5	8.1 8.1	8.1	20.9 20.8	20.8	76.9 76.7	76.8	5.5 5.4	5.5		2.2 2.3	2.3		4.8 5.3	5.1	
				35.3	Middle	17.7	28.3 28.3	28.3	8.1 8.1	8.1	21.0 20.8	20.9	76.6 76.0	76.3	5.4 5.4	5.4	5.5	2.5	2.6	2.6	4.0	4.3	4.9
					Bottom	34.3	27.9 27.8	27.9	8.1 8.1	8.1	23.5 23.6	23.6	74.9 74.1	74.5	5.3 5.3	5.3	5.3	2.8 2.8	2.8		4.9 5.5	5.2	
6-Jul-16	Rainy	Moderate	15:11		Surface	1.0	28.2 27.9	28.1	8.5 8.5	8.5	14.8 15.3	15.1	83.7 78.4	81.1	6.0 5.6	5.8		5.8 5.9	5.9		2.6 2.5	2.6	1
				33.9	Middle	17.0	26.6 26.3	26.4	8.3 8.3	8.3	23.1 23.8	23.5	79.5 76.6	78.1	5.6 5.4	5.5	5.7	5.9 5.9	5.9	5.9	2.7	2.9	2.9
					Bottom	32.9	26.1 26.5	26.3	8.3 8.3	8.3	25.4 24.7	25.1	73.6 75.1	74.4	5.2 5.3	5.2	5.2	5.9 5.8	5.9		3.2 3.4	3.3	1
8-Jul-16	Sunny	Moderate	16:33		Surface	1.0	28.9 28.8	28.8	8.5 8.5	8.5	22.2 22.4	22.3	79.2 79.0	79.1	5.6 5.6	5.6	5.0	3.2 3.3	3.3		3.0 3.6	3.3	
				34.6	Middle	17.3	28.3 28.3	28.3	8.5 8.5	8.5	23.4 23.1	23.2	76.5 78.1	77.3	5.4 5.5	5.5	5.6	3.5 3.4	3.5	3.5	2.4 3.6	3.0	3.0
					Bottom	33.6	27.4 27.4	27.4	8.4 8.4	8.4	21.2 23.3	22.3	74.7 75.6	75.2	5.3 5.4	5.3	5.3	3.7 3.8	3.8		2.9 2.7	2.8	
11-Jul-16	Cloudy	Moderate	18:39		Surface	1.0	28.3 28.2	28.3	8.5 8.5	8.5	20.0 20.3	20.1	81.1 82.5	81.8	5.8 5.9	5.8	5.8	3.1 3.0	3.1		3.6 4.7	4.2	
				34.7	Middle	17.4	28.0 27.9	28.0	8.5 8.4	8.5	22.2 22.5	22.3	79.7 80.7	80.2	5.7 5.7	5.7	5.0	3.2 3.1	3.2	3.2	4.4 5.2	4.8	4.7
					Bottom	33.7	27.9 27.7	27.8	8.4 8.4	8.4	22.9 24.3	23.6	80.5 79.0	79.8	5.7 5.6	5.7	5.7	3.2 3.3	3.3		5.0 5.4	5.2	
13-Jul-16	Rainy	Moderate	07:05		Surface	1.0	27.5 27.2	27.3	8.3 8.3	8.3	15.9 16.1	16.0	79.3 78.0	78.7	5.6 5.5	5.6	5.5	3.2 3.5	3.4		5.2 5.1	5.2	
				35.2	Middle	17.6	25.5 25.4	25.4	8.1 8.1	8.1	25.8 26.1	25.9	75.5 76.0	75.8	5.4 5.4	5.4	5.5	3.3 3.5	3.4	3.4	5.0 5.2	5.1	5.2
					Bottom	34.2	25.2 25.3	25.3	8.1 8.1	8.1	27.0 26.6	26.8	76.5 75.9	76.2	5.4 5.4	5.4	5.4	3.5 3.3	3.4		4.7 5.6	5.2	
15-Jul-16	Sunny	Moderate	09:08		Surface	1.0	27.8 27.5	27.7	8.3 8.3	8.3	13.8 16.7	15.3	70.9 71.6	71.3	5.2 5.2	5.2	5.2	2.0 1.9	2.0		4.8 5.1	5.0	
				35.2	Middle	17.6	26.2 26.4	26.3	8.2 8.2	8.2	22.4 21.3	21.9	71.1 70.2	70.7	5.2 5.1	5.1	0.2	2.0 2.2	2.1	2.1	5.4 5.7	5.6	5.2
					Bottom	34.2	26.2 26.1	26.2	8.1 8.1	8.1	22.4 22.6	22.5	73.4 70.2	71.8	5.4 5.1	5.2	5.2	2.3 2.1	2.2		5.7 4.3	5.0	
18-Jul-16	Sunny	Moderate	11:15		Surface	1.0	29.6 29.7	29.7	8.5 8.6	8.6	19.2 19.1	19.2	102.9 103.9	103.4	7.3 7.4	7.3	7.3	3.0 3.1	3.1		5.4 6.3	5.9	
				34.8	Middle	17.4	29.2 28.8	29.0	8.5 8.5	8.5	19.5 19.6	19.5	100.7 101.9	101.3	7.2 7.2	7.2		3.2 3.3	3.3	3.3	6.8 6.5	6.7	6.4
					Bottom	33.8	27.8 28.3	28.1	8.5 8.5	8.5	22.3 22.7	22.5	97.5 99.4	98.5	6.9 7.0	7.0	7.0	3.4 3.4	3.4		7.2 6.2	6.7	
20-Jul-16	Sunny	Moderate	14:24		Surface	1.0	28.9 27.9	28.4	8.6 8.6	8.6	16.4 17.7	17.1	91.9 93.2	92.6	6.5 6.6	6.5	6.3	5.4 5.4	5.4		6.2 6.9	6.6	
				34.6	Middle	17.3	27.5 27.0	27.3	8.5 8.5	8.5	19.7 20.8	20.2	84.7 85.9	85.3	6.0 6.1	6.0	0.0	5.5 5.6	5.6	5.6	8.0 7.3	7.7	7.5
					Bottom	33.6	26.8 27.1	26.9	8.5 8.5	8.5	23.4 21.3	22.3	80.5 80.3	80.4	5.7 5.7	5.7	5.7	5.7 5.8	5.8		6.9 9.3	8.1]

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Temp	erature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	15:15		Surface 1	.0 27.4 27.8	27.6	8.6 8.6	8.6	21.5 20.6	21.0	75.7 75.5	75.6	5.3 5.3	5.3	5.3	8.4 8.3	8.4		5.4 5.7	5.6	
				36.3	Middle 18	3.2 26.2 26.0	26.1	8.6 8.6	8.6	24.8 24.8	24.8	74.2 74.3	74.3	5.3 5.2	5.2	0.0	8.6 8.6	8.6	8.6	8.0 7.9	8.0	7.0
					Bottom 35	5.3 25.8 25.8	25.8	8.6 8.5	8.6	26.1 25.8	25.9	73.2 72.9	73.1	5.2 5.2	5.2	5.2	8.7 8.8	8.8		8.0 6.7	7.4	
25-Jul-16	Sunny	Moderate	17:42		Surface 1	.0 28.7 28.8	28.7	8.0 8.0	8.0	18.6 18.6	18.6	92.5 94.5	93.5	6.5 6.6	6.5	5.9	5.1 5.3	5.2		3.9 3.8	3.9	
				34.8	Middle 17	7.4 27.4 27.4	27.4	8.0 8.0	8.0	22.0 22.0	22.0	73.6 73.8	73.7	5.2 5.2	5.2	0.0	6.3 6.1	6.2	6.1	4.9 4.6	4.8	5.1
					Bottom 33	3.8 25.2 25.3	25.2	8.0 8.0	8.0	27.1 27.0	27.0	78.9 79.4	79.2	5.6 5.6	5.6	5.6	6.9 6.9	6.9		6.2 7.1	6.7	
27-Jul-16	Sunny	Moderate	19:11		Surface 1	.0 28.5 28.7	28.6	8.0 8.0	8.0	16.6 16.1	16.4	107.8 112.2	110.0	7.8 8.0	7.9	7.7	4.4 4.3	4.4		6.0 7.5	6.8	
				36.1	Middle 18	3.1 26.6 27.2	26.9	8.0 8.0	8.0	20.5 19.4	20.0	103.7 103.5	103.6	7.4 7.4	7.4	1.1	4.3 4.4	4.4	4.4	7.7 7.1	7.4	7.3
					Bottom 35	5.1 26.5 26.9	26.7	8.0 8.0	8.0	20.4 20.7	20.6	96.7 99.2	98.0	6.9 7.2	7.0	7.0	4.4 4.6	4.5		7.2 8.0	7.6	
29-Jul-16	Sunny	Moderate	08:29		Surface 1	.0 28.5 28.5	28.5	7.9 7.8	7.9	20.2 20.7	20.5	106.9 104.9	105.9	7.3 7.3	7.3	7.3	3.0 2.9	3.0		3.4 3.2	3.3	
				36.0	Middle 18	3.0 27.8 27.8	27.8	7.8 7.7	7.8	24.0 23.4	23.7	105.8 103.4	104.6	7.3 7.1	7.2	1.5	3.1 3.0	3.1	3.1	2.2 2.2	2.2	2.7
					Bottom 35	5.0 28.0 27.7	27.9	7.8 7.6	7.7	24.0 24.3	24.2	104.6 102.5	103.6	7.2 7.1	7.1	7.1	3.1 3.0	3.1		2.5 2.7	2.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	۲	Turbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	18:01		Surface	1.0	29.1 28.8	28.9	8.2 8.1	8.2	14.4 16.8	15.6	84.9 79.4	82.2	6.0 5.6	5.8	5.6	2.6 2.6	2.6		5.0 4.8	4.9	
				35.1	Middle	17.6	27.3 27.0	27.1	8.0 8.0	8.0	23.1 23.6	23.3	77.5 76.3	76.9	5.3 5.3	5.3	5.0	3.0 3.2	3.1	3.4	5.4 4.0	4.7	5.1
					Bottom	34.1	27.3 26.8	27.1	8.0 8.0	8.0	23.7 24.5	24.1	73.2 72.3	72.8	5.1 5.0	5.1	5.1	4.3 4.6	4.5		6.4 5.0	5.7	
4-Jul-16	Sunny	Moderate	04:56		Surface	1.0	27.8 28.2	28.0	8.2 8.2	8.2	22.9 21.4	22.2	74.4 74.8	74.6	5.3 5.3	5.3		2.1 2.2	2.2		2.4 2.9	2.7	
				35.5	Middle	17.8	26.9 26.9	26.9	8.1 8.2	8.1	25.8 26.7	26.2	74.8 73.6	74.2	5.3 5.2	5.2	5.3	2.3	2.3	2.3	2.5 3.9	3.2	3.0
					Bottom	34.5	26.8 26.7	26.8	8.2 8.1	8.2	27.2	27.4	71.8	72.0	5.1 5.2	5.2	5.2	2.4	2.5		3.4 2.6	3.0	
6-Jul-16	Rainy	Moderate	06:23		Surface	1.0	26.7 26.5	26.6	8.2 8.2	8.2	22.5 23.1	22.8	79.9 77.5	78.7	5.6 5.5	5.6		2.6 2.7	2.7		5.1 4.7	4.9	i
				34.8	Middle	17.4	24.8 24.8	24.8	8.2 8.2	8.2	28.7 28.7	28.7	72.8 71.6	72.2	5.1 5.1	5.1	5.4	2.6 2.6	2.6	2.6	4.2 4.8	4.5	5.1
					Bottom	33.8	25.0 24.8	24.9	8.1 8.2	8.2	28.6 28.9	28.8	67.2 68.5	67.9	4.7 4.9	4.8	4.8	2.5 2.6	2.6		5.4 6.6	6.0	
8-Jul-16	Sunny	Moderate	07:50		Surface	1.0	28.1 28.2	28.1	8.3 8.3	8.3	23.5 23.6	23.5	74.2 74.1	74.2	5.2 5.2	5.2	5.2	1.2 1.3	1.3		2.9 3.6	3.3	
				34.7	Middle	17.4	27.0 27.7	27.4	8.2 8.2	8.2	25.8 25.7	25.7	73.7 74.1	73.9	5.2 5.2	5.2	5.2	1.4 1.4	1.4	1.4	4.1 4.2	4.2	4.1
					Bottom	33.7	27.4 26.9	27.1	8.3 8.2	8.3	26.9 25.6	26.3	73.5 73.4	73.5	5.1 5.2	5.1	5.1	1.6 1.6	1.6		5.3 4.0	4.7	
11-Jul-16	Cloudy	Moderate	10:16		Surface	1.0	27.3 27.9	27.6	8.3 8.2	8.3	24.7 22.1	23.4	72.7 72.3	72.5	5.3 5.3	5.3	5.3	1.4 1.4	1.4		5.4 6.4	5.9	
				34.9	Middle	17.5	27.3 26.8	27.1	8.1 8.2	8.2	24.6 26.1	25.3	71.9 72.1	72.0	5.2 5.2	5.2	5.5	1.6 1.5	1.6	1.6	5.5 4.4	5.0	5.7
					Bottom	33.9	26.4 26.5	26.4	8.1 8.2	8.2	25.7 26.6	26.1	71.4 71.2	71.3	5.2 5.1	5.1	5.1	1.7 1.8	1.8		6.1 6.3	6.2	
13-Jul-16	Rainy	Moderate	15:09		Surface	1.0	27.2 27.2	27.2	8.4 8.4	8.4	11.8 12.9	12.4	81.4 83.1	82.3	5.7 5.8	5.7	5.4	3.5 3.5	3.5		4.4 4.8	4.6	
				35.4	Middle	17.7	25.4 25.6	25.5	8.2 8.2	8.2	22.3 21.9	22.1	72.2 72.5	72.4	5.1 5.1	5.1	0.1	3.5 3.5	3.5	3.5	4.8 4.8	4.8	4.7
					Bottom	34.4	25.2 25.1	25.2	8.2 8.2	8.2	22.9 23.4	23.2	73.5 73.1	73.3	5.2 5.1	5.2	5.2	3.3 3.4	3.4		5.1 4.4	4.8	
15-Jul-16	Sunny	Moderate	17:37		Surface	1.0	28.5 27.9	28.2	8.3 8.3	8.3	11.5 13.7	12.6	72.0 71.8	71.9	5.2 5.2	5.2	5.2	3.9 3.6	3.8		5.2 5.5	5.4	
				35.4	Middle	17.7	25.1 25.1	25.1	8.1 8.1	8.1	26.6 27.1	26.8	70.6 70.9	70.8	5.1 5.2	5.2		3.5 3.7	3.6	3.7	5.6 5.3	5.5	5.7
					Bottom	34.4	25.1 25.0	25.0	8.1 8.0	8.1	26.9 27.6	27.2	70.7 71.0	70.9	5.1 5.2	5.2	5.2	3.5 3.6	3.6		6.4 6.0	6.2	
18-Jul-16	Sunny	Moderate	20:39		Surface	1.0	28.5 28.3	28.4	8.6 8.5	8.6	23.3 23.3	23.3	98.2 98.7	98.5	6.9 6.9	6.9	6.9	4.2 4.3	4.3		5.7 6.2	6.0	
				34.8	Middle	17.4	27.6 27.9	27.8	8.5 8.5	8.5	25.2 24.1	24.7	96.5 97.8	97.2	6.8 6.9	6.9		4.4 4.4	4.4	4.4	6.3 7.5	6.9	6.7
					Bottom	33.8	27.5 27.9	27.7	8.5 8.5	8.5	26.5 26.3	26.4	94.1 95.0	94.6	6.7 6.7	6.7	6.7	4.6 4.5	4.6		6.3 8.1	7.2	
20-Jul-16	Sunny	Moderate	05:27		Surface	1.0	26.0 26.1	26.1	8.6 8.6	8.6	24.4 24.3	24.4	78.9 78.7	78.8	5.6 5.6	5.6	5.6	3.2 3.3	3.3		5.0 5.9	5.5	
				34.6	Middle	17.3	25.7 25.8	25.8	8.6 8.6	8.6	24.9 24.8	24.9	78.3 78.4	78.4	5.5 5.6	5.6		3.4 3.4	3.4	3.4	7.7 7.9	7.8	7.1
					Bottom	33.6	25.7 25.3	25.5	8.5 8.5	8.5	25.8 27.0	26.4	77.2 76.4	76.8	5.5 5.5	5.5	5.5	3.6 3.5	3.6		7.5 8.3	7.9	

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	06:53		Surface	1.0	27.6 27.6	27.6	8.4 8.3	8.4	20.3 20.6	20.4	76.5 76.5	76.5	5.4 5.4	5.4	5.4	2.4 2.3	2.4		2.6 4.0	3.3	
				36.5	Middle	18.3	27.1 27.3	27.2	8.4 8.3	8.3	21.2 21.3	21.3	76.7 75.2	76.0	5.4 5.3	5.3	5.4	2.6 2.6	2.6	2.6	5.4 6.2	5.8	5.3
					Bottom	35.5	27.0 26.8	26.9	8.3 8.3	8.3	23.7 23.2	23.5	73.9 73.7	73.8	5.2 5.2	5.2	5.2	2.8 2.9	2.9		7.3 6.2	6.8	
25-Jul-16	Sunny	Moderate	09:21		Surface	1.0	27.3 27.3	27.3	8.0 8.0	8.0	22.9 22.8	22.8	82.0 81.8	81.9	5.7 5.7	5.7	5.5	4.2 4.1	4.2		5.6 5.9	5.8	
				35.2	Middle	17.6	25.7 25.7	25.7	8.0 8.0	8.0	26.7 26.8	26.8	74.3 74.7	74.5	5.2 5.2	5.2	5.5	3.9 3.8	3.9	3.9	5.0 4.9	5.0	6.1
					Bottom	34.2	24.9 24.9	24.9	8.0 8.0	8.0	28.4 28.4	28.4	70.5 69.3	69.9	4.9 4.9	4.9	4.9	3.5 3.6	3.6		8.0 7.1	7.6	
27-Jul-16	Sunny	Moderate	11:55		Surface	1.0	28.0 27.8	27.9	8.0 8.0	8.0	25.6 25.7	25.6	113.4 116.1	114.8	7.7 7.9	7.8	7.7	4.0 4.0	4.0		6.6 7.0	6.8	
				36.0	Middle	18.0	27.4 27.2	27.3	8.0 8.0	8.0	26.0 26.2	26.1	113.6 108.3	111.0	7.8 7.4	7.6	1.1	4.4 4.4	4.4	4.3	6.3 7.4	6.9	7.5
					Bottom	35.0	27.3 27.0	27.2	8.0 8.0	8.0	26.2 26.5	26.4	110.8 104.0	107.4	7.6 7.1	7.4	7.4	4.5 4.4	4.5		8.6 9.1	8.9	
29-Jul-16	Sunny	Moderate	16:36		Surface	1.0	29.6 29.5	29.6	8.4 8.5	8.4	20.4 20.5	20.5	130.9 134.6	132.8	8.9 9.3	9.1	8.8	3.4 3.6	3.5		5.4 5.9	5.7	
				36.1	Middle	18.1	27.2 27.1	27.1	8.3 8.2	8.3	26.6 26.8	26.7	124.6 123.3	124.0	8.5 8.5	8.5	0.0	3.6 3.5	3.6	3.6	6.2 4.9	5.6	5.5
					Bottom	35.1	25.6 26.0	25.8	8.2 8.3	8.3	30.1 29.5	29.8	109.6 107.2	108.4	7.5 7.3	7.4	7.4	3.8 3.7	3.8		5.3 4.8	5.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:32		Surface	1.0	28.4 28.5	28.4	8.4 8.4	8.4	20.6 21.5	21.1	87.7 84.6	86.2	6.1 5.8	6.0		10.5 10.9	10.7		6.6 6.3	6.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	10.8	-	-	6.7
					Bottom	2.2	28.3 28.2	28.3	8.4 8.4	8.4	21.7 21.8	21.8	92.1 85.8	89.0	6.4 5.9	6.1	6.1	10.4 11.1	10.8		7.2 6.5	6.9	
4-Jul-16	Sunny	Moderate	11:48		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	18.8 18.8	18.8	87.1 84.2	85.7	6.1 5.9	6.0		9.5 9.5	9.5		13.1 12.1	12.6	
				3.3	Middle	-		-		-		-	-	-	-	-	6.0	-	-	9.6	-	-	12.9
					Bottom	2.3	28.4 28.4	28.4	8.3 8.3	8.3	18.9 18.9	18.9	85.1 90.7	87.9	6.0 6.4	6.2	6.2	9.6 9.6	9.6		12.7 13.4	13.1	
6-Jul-16	Rainy	Moderate	13:38		Surface	1.0	27.9 27.9	27.9	8.3 8.2	8.2	18.2 18.1	18.2	78.5 78.8	78.7	5.6 5.6	5.6	5.0	10.3 10.4	10.4		11.4 11.9	11.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	10.6	-	-	12.6
					Bottom	2.4	27.9 27.9	27.9	8.3 8.2	8.2	18.6 18.4	18.5	77.0 77.7	77.4	5.5 5.5	5.5	5.5	10.8 10.6	10.7		13.0 13.8	13.4	
8-Jul-16	Sunny	Moderate	14:26		Surface	1.0	29.3 29.3	29.3	8.3 8.3	8.3	17.8 17.9	17.9	96.8 98.4	97.6	6.7 6.8	6.8		6.1 6.0	6.1		6.7 6.6	6.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	6.3	-	-	7.4
					Bottom	2.4	29.1 29.0	29.0	8.3 8.3	8.3	18.1 18.1	18.1	97.3 93.9	95.6	6.8 6.5	6.7	6.7	6.2 6.6	6.4		8.2 8.0	8.1	
11-Jul-16	Cloudy	Moderate	16:42		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	16.4 17.2	16.8	103.6 107.6	105.6	7.3 7.6	7.4	7.4	9.7 9.7	9.7		6.3 6.4	6.4	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	10.7	-	-	7.1
					Bottom	2.2	28.7 28.6	28.6	8.4 8.4	8.4	17.4 17.5	17.5	100.3 106.1	103.2	7.1 7.5	7.3	7.3	11.5 11.8	11.7		7.4 8.2	7.8	
13-Jul-16	Rainy	Moderate	09:00		Surface	1.0	28.0 28.1	28.0	8.2 8.2	8.2	15.1 15.3	15.2	74.4 72.9	73.7	5.4 5.2	5.3	5.3	5.6 5.7	5.7		3.9 3.1	3.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.7	-	-	3.8
					Bottom	2.2	27.2 27.9	27.5	8.1 8.1	8.1	20.0 19.8	19.9	72.6 74.6	73.6	5.2 5.3	5.2	5.2	5.7 5.7	5.7		3.3 4.7	4.0	
15-Jul-16	Sunny	Moderate	11:06		Surface	1.0	28.2 28.4	28.3	8.3 8.3	8.3	16.3 15.1	15.7	79.3 81.5	80.4	5.6 5.7	5.7	5.7	4.7 4.8	4.8		7.3 6.9	7.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.8	-	-	7.5
					Bottom	2.2	28.0 26.9	27.5	8.2 8.2	8.2	19.3 22.3	20.8	78.3 77.0	77.7	5.5 5.5	5.5	5.5	4.9 4.7	4.8		8.3 7.3	7.8	
18-Jul-16	Sunny	Moderate	13:07		Surface	1.0	28.2 28.0	28.1	8.4 8.4	8.4	20.7 20.2	20.4	89.0 96.9	93.0	6.2 6.7	6.4	6.4	6.8 6.6	6.7		7.9 7.4	7.7	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	0.4	-	-	6.6	-	-	8.3
					Bottom	2.2	28.3 28.0	28.1	8.4 8.4	8.4	22.5 23.0	22.7	89.5 89.9	89.7	6.2 6.3	6.2	6.2	6.5 6.5	6.5		8.3 9.2	8.8	
20-Jul-16	Sunny	Moderate	12:18		Surface	1.0	28.0 27.9	27.9	8.4 8.4	8.4	20.6 20.8	20.7	87.8 86.3	87.1	6.1 6.0	6.1	6.1	12.7 12.6	12.7		13.4 13.7	13.6	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	0.1	-	-	12.8	-	-	14.2
					Bottom	2.2	27.8 27.8	27.8	8.4 8.4	8.4	21.0 21.1	21.0	89.3 87.2	88.3	6.2 6.1	6.2	6.2	12.6 13.0	12.8		15.0 14.6	14.8	1

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	ing Water Sampling		ing	Temperature (°C)		pН		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
	Condition	Condition**	Time	Depth (m)	Depth (m)		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:29		Surface	1.0	28.5 28.6	28.6	8.5 8.5	8.5	22.6 22.3	22.5	98.4 99.6	99.0	6.7 6.8	6.8	6.8	8.9 8.8	8.9		9.3 9.0	9.2	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	8.9	-	-	9.3
					Bottom	2.3	28.3 28.6	28.4	8.5 8.5	8.5	22.8 22.5	22.7	98.5 99.1	98.8	6.8 6.8	6.8	6.8	8.8 8.9	8.9		9.1 9.6	9.4	
25-Jul-16	Sunny	Moderate	15:35	3.2	Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	22.6 22.6	22.6	111.9 109.9	110.9	7.6 7.5	7.6	7.6	8.5 8.3	8.4	8.5	13.3 13.6	13.5	13.4
					Middle	-		-		-	-	-		-	-	-		-	-		-	-	
					Bottom	2.2	28.6 28.8	28.7	8.1 8.1	8.1	22.8 22.6	22.7	107.7 110.8	109.3	7.4 7.6	7.5	7.5	8.5 8.5	8.5		12.7 13.7	13.2	
27-Jul-16	Sunny	Moderate	17:42	3.3	Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	23.9 23.9	23.9	104.1 100.4	102.3	7.1 6.9	7.0	8.2 7.0		8.1	8.1	8.9 8.6	8.8	9.3
					Middle	-	-	-	-	-	-	-	-	-		-	7.0	-	-		-	-	
					Bottom	2.3	27.7 28.0	27.9	8.1 8.1	8.1	24.0 24.0	24.0	97.9 101.7	99.8	6.7 7.0	6.9	6.9	8.1 7.9	8.0		9.8 9.5	9.7	
29-Jul-16	Sunny	Moderate	10:12	3.2	Surface	1.0	28.5 28.3	28.4	8.6 8.6	8.6	22.6 23.0	22.8	102.1 101.6	101.9	7.0 7.0	7.0	7.3 7.0 -	7.3 7.0	7.2	ļ	5.1 5.5	5.3	
					Middle	-		-	-	-	-	-	-	-	-	-		-	- 7.2	7.2	-	-	5.5
					Bottom	2.2	28.3 28.2	28.2	8.6 8.6	8.6	24.5 24.0	24.3	101.4 102.2	101.8	6.9 7.0	6.9	6.9	7.2 7.2			6.2 4.9	5.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	P	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:02		Surface	1.0	28.6 28.5	28.5	8.4 8.4	8.4	20.5 21.0	20.8	86.6 85.6	86.1	6.0 5.9	6.0	6.0	11.0 10.9	11.0		11.8 12.0	11.9	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	11.2	-	-	12.2
					Bottom	2.2	28.4 28.2	28.3	8.3 8.3	8.3	22.0 22.0	22.0	86.8 87.3	87.1	6.0 6.0	6.0	6.0	11.6 11.2	11.4		12.8 11.9	12.4	
4-Jul-16	Sunny	Moderate	06:47		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	18.4 18.5	18.4	94.1 94.7	94.4	6.6 6.6	6.6		5.8 5.6	5.7		5.6 5.9	5.8	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	6.6	-	-	5.8	-	-	6.5
					Bottom	2.4	28.5 28.6	28.6	8.4 8.4	8.4	18.8 18.5	18.6	94.9 94.6	94.8	6.6 6.6	6.6	6.6	5.8 5.8	5.8		6.9 7.3	7.1	
6-Jul-16	Rainy	Moderate	07:59		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	16.9 16.8	16.9	86.8 87.2	87.0	6.2 6.2	6.2	6.2	4.0 4.0	4.0		3.2 4.2	3.7	
				3.5	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	4.2	-	-	3.5
					Bottom	2.5	28.4 28.4	28.4	8.2 8.2	8.2	17.0 17.2	17.1	86.2 85.8	86.0	6.1 6.1	6.1	6.1	4.3 4.4	4.4		3.0 3.3	3.2	
8-Jul-16	Sunny	Moderate	10:08		Surface	1.0	28.4 28.5	28.5	8.2 8.2	8.2	17.8 17.8	17.8	91.1 91.5	91.3	6.4 6.4	6.4	6.4	4.7 4.6	4.7		6.5 6.4	6.5	
				3.3	Middle	-	-	-		-	-	-	-	-	-	-	6.4	-	-	4.8	-	-	6.2
					Bottom	2.3	28.4 28.4	28.4	8.2 8.2	8.2	17.9 18.0	18.0	91.3 91.3	91.3	6.4 6.4	6.4	6.4	4.6 5.1	4.9		6.0 5.6	5.8	
11-Jul-16	Cloudy	Moderate	11:48		Surface	1.0	28.5 28.6	28.6	8.3 8.3	8.3	17.6 17.4	17.5	98.7 101.7	100.2	6.9 7.2	7.1	7.1	3.8 3.7	3.8		5.3 4.2	4.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	3.9	-	-	5.0
					Bottom	2.2	28.5 28.5	28.5	8.3 8.3	8.3	18.1 17.8	17.9	98.1 100.1	99.1	6.9 7.0	7.0	7.0	3.8 4.0	3.9		4.6 5.8	5.2	
13-Jul-16	Rainy	Moderate	13:06		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	14.4 14.5	14.5	86.9 87.6	87.3	6.3 6.3	6.3	6.3	4.5 4.5	4.5		6.2 5.2	5.7	
				3.3	Middle	-	-	-		-		-	-	-	-	-	0.5	-	-	4.6	-	-	6.5
					Bottom	2.3	27.9 28.0	27.9	8.2 8.2	8.2	16.9 17.3	17.1	86.0 88.1	87.1	6.2 6.3	6.2	6.2	4.5 4.6	4.6		7.4 7.0	7.2	
15-Jul-16	Sunny	Moderate	16:00		Surface	1.0	29.3 29.2	29.2	8.5 8.5	8.5	16.8 16.9	16.8	129.5 125.8	127.7	9.0 8.8	8.9	8.9	4.3 4.2	4.3		5.1 3.9	4.5	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.3	-	-	4.0
					Bottom	2.1	29.0 28.4	28.7	8.5 8.5	8.5	17.1 17.7	17.4	125.4 121.8	123.6	8.8 8.5	8.6	8.6	4.1 4.2	4.2		3.6 3.4	3.5	
18-Jul-16	Sunny	Moderate	18:08		Surface	1.0	29.6 29.7	29.7	8.5 8.5	8.5	17.8 17.8	17.8	139.0 137.0	138.0	9.3 9.1	9.2	9.2	6.4 6.2	6.3		7.5 6.5	7.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	6.4	-	-	6.7
					Bottom	2.3	28.9 29.3	29.1	8.4 8.4	8.4	18.6 18.4	18.5	136.2 137.3	136.8	9.1 9.2	9.1	9.1	6.2 6.5	6.4		6.5 6.1	6.3	
20-Jul-16	Sunny	Moderate	07:07		Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	21.7 21.7	21.7	93.7 92.5	93.1	6.5 6.4	6.5	6.5	7.9 7.8	7.9		11.0 10.1	10.6	
				3.3	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	8.0	-	-	10.7
					Bottom	2.3	28.1 27.9	28.0	8.4 8.4	8.4	21.8 22.0	21.9	93.3 91.9	92.6	6.5 6.4	6.4	6.4	8.0 7.9	8.0		10.5 10.8	10.7	

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	эΗ	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:29		Surface	1.0	28.4 28.4	28.4	8.4 8.4	8.4	21.2 21.5	21.4	99.5 98.3	98.9	6.9 6.8	6.8	6.8	5.4 5.1	5.3		5.2 6.2	5.7	
				3.4	Middle	-	-	-		-		-		-		-	0.0	-	-	5.4	-	-	8.1
					Bottom	2.4	28.2 28.4	28.3	8.4 8.4	8.4	22.2 21.5	21.9	98.5 98.7	98.6	6.8 6.8	6.8	6.8	5.3 5.4	5.4		10.9 10.0	10.5	
25-Jul-16	Sunny	Moderate	11:09		Surface	1.0	28.8 28.9	28.9	8.1 8.1	8.1	22.9 22.9	22.9	110.6 107.9	109.3	7.5 7.3	7.4	7.4	5.2 5.2	5.2		6.0 6.5	6.3	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	5.2	-	-	6.8
					Bottom	2.3	28.8 28.8	28.8	8.1 8.1	8.1	23.1 23.1	23.1	108.3 102.1	105.2	7.3 6.9	7.1	7.1	5.1 5.1	5.1		7.4 7.1	7.3	
27-Jul-16	Sunny	Moderate	13:06		Surface	1.0	28.7 28.8	28.7	8.1 8.1	8.1	24.7 24.5	24.6	128.4 127.2	127.8	8.7 8.6	8.6	8.6	5.4 5.3	5.4		7.3 6.2	6.8	
				3.4	Middle	-	-	-		-	-	-	-	-		-	0.0	-	-	5.5	-	-	6.8
					Bottom	2.4	28.8 29.0	28.9	8.1 8.1	8.1	24.6 24.2	24.4	127.5 126.3	126.9	8.6 8.5	8.5	8.5	5.5 5.5	5.5		6.5 7.1	6.8	
29-Jul-16	Sunny	Moderate	14:47		Surface	1.0	30.1 29.8	30.0	8.6 8.6	8.6	20.8 21.2	21.0	172.7 176.0	174.4	11.7 11.9	11.8	11.8	8.6 8.8	8.7		5.6 5.7	5.7	
				3.0	Middle	-	-	-		-	-	-	-	-		-	11.0	-	-	8.7	-	-	6.2
					Bottom	2.0	29.4 29.5	29.5	8.6 8.6	8.6	21.9 21.8	21.8	170.5 171.6	171.1	11.6 11.6	11.6	11.6	8.8 8.5	8.7		6.7 6.4	6.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:12		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	19.7 19.7	19.7	99.1 99.9	99.5	6.9 6.9	6.9		9.2 9.1	9.2		6.4 6.4	6.4	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	9.3	-	-	5.9
					Bottom	2.5	28.8 28.7	28.8	8.4 8.4	8.4	19.9 20.3	20.1	99.7 98.7	99.2	6.9 6.8	6.9	6.9	9.2 9.3	9.3		5.2 5.6	5.4	
4-Jul-16	Sunny	Moderate	12:05		Surface	1.0	28.7 28.6	28.7	8.3 8.4	8.4	17.7 17.7	17.7	88.7 88.5	88.6	6.2 6.2	6.2	6.2	7.8 7.9	7.9		7.7 7.5	7.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	7.9	-	-	7.6
					Bottom	2.7	28.6 28.6	28.6	8.3 8.3	8.3	18.4 18.6	18.5	90.6 89.4	90.0	6.3 6.2	6.3	6.3	7.8 7.7	7.8		7.6 7.6	7.6	
6-Jul-16	Rainy	Moderate	13:55		Surface	1.0	28.4 28.3	28.3	8.2 8.3	8.3	17.0 17.1	17.0	85.2 85.5	85.4	6.1 6.0	6.0	6.0	6.4 6.5	6.5		4.8 5.4	5.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	6.7	-	-	4.9
					Bottom	2.7	28.4 28.3	28.4	8.2 8.3	8.3	18.1 17.9	18.0	84.4 83.1	83.8	6.0 5.9	5.9	5.9	6.8 6.9	6.9		4.6 4.7	4.7	
8-Jul-16	Sunny	Moderate	14:41		Surface	1.0	28.8 28.6	28.7	8.4 8.4	8.4	17.5 17.6	17.6	97.9 96.6	97.3	6.9 6.8	6.8		5.6 5.6	5.6		4.5 4.7	4.6	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	5.8	-	-	5.2
					Bottom	2.5	28.6 28.5	28.5	8.4 8.4	8.4	18.3 18.4	18.3	98.4 95.6	97.0	6.9 6.7	6.8	6.8	6.0 6.0	6.0		5.1 6.4	5.8	
11-Jul-16	Cloudy	Moderate	16:57		Surface	1.0	28.9 28.6	28.8	8.5 8.5	8.5	17.5 17.6	17.5	115.9 117.4	116.7	8.1 8.2	8.2	8.2	4.5 4.5	4.5		5.9 6.2	6.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	4.6	-	-	6.1
					Bottom	2.6	28.6 28.5	28.5	8.4 8.4	8.4	18.5 18.9	18.7	103.2 103.6	103.4	7.3 7.2	7.2	7.2	4.6 4.5	4.6		6.0 6.2	6.1	
13-Jul-16	Rainy	Moderate	08:46		Surface	1.0	27.8 28.1	28.0	8.2 8.2	8.2	15.1 15.0	15.0	73.7 79.4	76.6	5.3 5.6	5.4	5.4	5.3 5.2	5.3		5.5 5.3	5.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.2	-	-	5.2
					Bottom	2.7	27.6 27.0	27.3	8.1 8.1	8.1	21.6 23.4	22.5	75.2 75.0	75.1	5.3 5.4	5.3	5.3	5.1 5.1	5.1		5.3 4.7	5.0	
15-Jul-16	Sunny	Moderate	10:51		Surface	1.0	27.9 27.9	27.9	8.3 8.3	8.3	16.3 17.0	16.6	79.2 80.7	80.0	5.7 5.7	5.7		4.5 4.4	4.5		3.5 4.3	3.9	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.5	-	-	5.0
					Bottom	2.8	27.8 26.8	27.3	8.2 8.2	8.2	20.8 22.8	21.8	78.4 76.8	77.6	5.5 5.5	5.5	5.5	4.4 4.4	4.4		5.8 6.1	6.0	
18-Jul-16	Sunny	Moderate	12:56		Surface	1.0	29.4 29.5	29.5	8.5 8.4	8.4	18.3 18.3	18.3	111.8 110.9	111.4	7.7 7.6	7.6	7.6	4.8 4.8	4.8		8.6 8.4	8.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	0.1	-	-	4.9	-	-	8.7
					Bottom	2.7	27.6 29.4	28.5	8.4 8.4	8.4	23.0 20.0	21.5	102.8 103.9	103.4	7.0 7.1	7.1	7.1	4.8 5.0	4.9		9.2 8.4	8.8	
20-Jul-16	Sunny	Moderate	12:36		Surface	1.0	28.1 28.2	28.2	8.5 8.5	8.5	21.5 21.3	21.4	89.6 90.7	90.2	6.2 6.3	6.2	6.2	11.4 11.5	11.5		9.9 9.5	9.7	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.∠	-	-	11.5	-	-	10.1
					Bottom	2.6	28.0 28.0	28.0	8.5 8.5	8.5	21.8 21.7	21.8	88.0 91.9	90.0	6.1 6.4	6.2	6.2	11.6 11.2	11.4		10.6 10.4	10.5	

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:47		Surface	1.0	28.3 28.5	28.4	8.4 8.5	8.5	21.8 21.8	21.8	119.8 119.2	119.5	8.2 8.1	8.1	8.1	9.5 9.4	9.5		10.3 11.8	11.1	
				3.6	Middle	-		-		-		-		-	-	-	0.1	-	-	9.5	-	-	10.6
					Bottom	2.6	28.2 27.4	27.8	8.4 8.4	8.4	24.0 24.8	24.4	112.8 110.3	111.6	7.7 7.5	7.6	7.6	9.4 9.5	9.5		10.1 10.1	10.1	
25-Jul-16	Sunny	Moderate	15:49		Surface	1.0	28.7 28.8	28.8	8.1 8.1	8.1	23.0 22.9	22.9	112.5 112.2	112.4	7.7 7.6	7.6	7.6	9.0 9.1	9.1		11.5 11.8	11.7	
				3.6	Middle	-		-		-	-	-	-	-	-	-	7.0	-	-	9.2	-	-	12.5
					Bottom	2.6	28.7 28.7	28.7	8.1 8.1	8.1	23.1 23.0	23.1	111.9 112.8	112.4	7.6 7.7	7.6	7.6	9.2 9.2	9.2		13.4 12.9	13.2	
27-Jul-16	Sunny	Moderate	17:58		Surface	1.0	28.4 28.7	28.5	8.1 8.1	8.1	23.6 23.4	23.5	114.0 113.7	113.9	7.8 7.8	7.8	7.8	7.4 7.4	7.4		8.7 7.5	8.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	7.4	-	-	9.0
					Bottom	2.7	28.0 28.6	28.3	8.1 8.1	8.1	23.9 23.4	23.7	112.9 113.2	113.1	7.7 7.7	7.7	7.7	7.2 7.3	7.3		9.8 9.8	9.8	
29-Jul-16	Sunny	Moderate	09:58		Surface	1.0	29.2 29.2	29.2	8.7 8.7	8.7	21.2 21.1	21.1	130.2 123.1	126.7	8.9 8.4	8.6	8.6	5.4 5.5	5.5		5.7 6.0	5.9	
				3.6	Middle	-		-		-	-	-	-	-	-	-	0.0	-	-	5.5	-	-	5.2
					Bottom	2.6	29.2 29.2	29.2	8.6 8.6	8.6	22.4 22.4	22.4	122.4 127.7	125.1	8.3 8.7	8.5	8.5	5.5 5.3	5.4		4.7 4.3	4.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦ ا	Furbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:15		Surface	1.0	29.2 29.1	29.2	8.5 8.5	8.5	19.4 19.5	19.4	113.9 114.4	114.2	7.9 7.9	7.9	7.0	5.3 5.4	5.4		7.9 7.7	7.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	5.4	-	-	8.7
					Bottom	2.6	29.1 29.1	29.1	8.5 8.5	8.5	19.5 19.6	19.5	112.4 114.7	113.6	7.8 7.9	7.8	7.8	5.2 5.4	5.3		10.0 8.9	9.5	
4-Jul-16	Sunny	Moderate	06:31		Surface	1.0	28.7 28.7	28.7	8.4 8.4	8.4	17.8 17.7	17.8	90.7 91.6	91.2	6.4 6.4	6.4		5.5 5.6	5.6		5.2 5.3	5.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	5.6	-	-	6.1
					Bottom	2.7	28.7 28.7	28.7	8.4 8.3	8.4	17.8 17.9	17.9	93.2 91.1	92.2	6.5 6.4	6.5	6.5	5.5 5.7	5.6		6.7 6.9	6.8	
6-Jul-16	Rainy	Moderate	07:45		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	16.1 16.2	16.2	86.2 86.1	86.2	6.1 6.1	6.1		4.2 4.3	4.3		4.1 4.3	4.2	
				3.8	Middle	-	-	-		-		-	-	-	-	-	6.1	-	-	4.5	-	-	4.2
					Bottom	2.8	28.3 28.4	28.3	8.2 8.2	8.2	17.6 16.8	17.2	85.6 85.7	85.7	6.0 6.0	6.0	6.0	4.7 4.6	4.7		4.0 4.4	4.2	
8-Jul-16	Sunny	Moderate	09:51		Surface	1.0	28.5 28.4	28.5	8.1 8.1	8.1	16.8 16.9	16.9	80.4 78.1	79.3	5.7 5.5	5.6		4.6	4.5		4.5	4.6	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	4.7	-	-	4.7
					Bottom	2.9	28.3 28.2	28.3	8.1 8.1	8.1	18.0 18.1	18.0	79.2 82.4	80.8	5.6 5.8	5.7	5.7	4.8 5.0	4.9		4.8 4.5	4.7	
11-Jul-16	Cloudy	Moderate	11:33		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	17.9 18.1	18.0	82.7 84.7	83.7	5.8 5.9	5.9	5.0	9.5 9.6	9.6		4.6 5.0	4.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	9.6	-	-	4.9
					Bottom	2.8	28.2 28.1	28.2	8.2 8.1	8.2	19.2 19.5	19.4	82.6 82.8	82.7	5.8 5.8	5.8	5.8	9.7 9.5	9.6		5.0 4.7	4.9	
13-Jul-16	Rainy	Moderate	13:20		Surface	1.0	27.9 27.8	27.9	8.2 8.2	8.2	16.1 16.2	16.2	82.4 79.7	81.1	5.9 5.6	5.7	F 7	5.2 5.4	5.3		7.7 7.8	7.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.4	-	-	7.9
					Bottom	2.7	27.6 27.6	27.6	8.2 8.2	8.2	21.5 19.4	20.5	76.3 80.1	78.2	5.5 5.8	5.6	5.6	5.5 5.3	5.4		7.9 8.0	8.0	
15-Jul-16	Sunny	Moderate	16:15		Surface	1.0	29.0 28.9	28.9	8.5 8.5	8.5	16.4 16.6	16.5	107.3 106.8	107.1	7.5 7.5	7.5	7.5	8.4 8.5	8.5		7.4 6.8	7.1	
				3.6	Middle	-	-	-	-	-		-		-	-	-	7.5	-	-	8.6	-	-	7.6
					Bottom	2.6	28.5 28.6	28.5	8.5 8.5	8.5	17.7 17.4	17.5	106.4 104.1	105.3	7.5 7.3	7.4	7.4	8.6 8.5	8.6		7.6 8.4	8.0	
18-Jul-16	Sunny	Moderate	18:22		Surface	1.0	30.3 29.7	30.0	8.5 8.5	8.5	17.7 18.0	17.9	144.3 144.2	144.3	9.7 9.6	9.6	0.0	10.2 10.4	10.3		8.7 8.5	8.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	10.4	-	-	8.9
					Bottom	2.4	29.5 28.9	29.2	8.5 8.5	8.5	19.6 19.6	19.6	139.4 141.8	140.6	9.3 9.4	9.3	9.3	10.5 10.2	10.4		8.9 9.2	9.1	
20-Jul-16	Sunny	Moderate	06:52		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	20.3 20.3	20.3	95.1 94.6	94.9	6.7 6.6	6.6	6.6	5.5 5.3	5.4		8.1 8.3	8.2	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	6.6	-	-	5.4	-	-	8.3
					Bottom	2.7	28.0 28.0	28.0	8.4 8.4	8.4	20.5 20.5	20.5	95.6 95.1	95.4	6.7 6.7	6.7	6.7	5.2 5.3	5.3		7.8 8.7	8.3	

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:13		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	21.7 21.8	21.7	85.6 86.9	86.3	5.9 6.0	6.0	6.0	6.2 6.2	6.2		4.6 5.4	5.0	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	6.2	-	-	4.7
					Bottom	2.7	28.0 28.0	28.0	8.3 8.3	8.3	21.9 22.1	22.0	86.0 88.1	87.1	6.0 6.1	6.0	6.0	6.1 6.2	6.2		4.1 4.7	4.4	
25-Jul-16	Sunny	Moderate	10:53		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	22.8 22.7	22.8	90.2 89.8	90.0	6.2 6.2	6.2	6.2	10.6 10.3	10.5		5.0 5.1	5.1	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	10.5	-	-	4.8
					Bottom	2.7	28.2 28.0	28.1	8.1 8.1	8.1	23.7 24.0	23.9	90.3 89.3	89.8	6.2 6.1	6.2	6.2	10.5 10.4	10.5		4.7 4.3	4.5	
27-Jul-16	Sunny	Moderate	12:53		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	25.1 25.1	25.1	108.0 105.6	106.8	7.4 7.2	7.3	7.3	11.4 11.2	11.3		14.3 15.3	14.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	11.3	-	-	17.3
					Bottom	2.7	27.9 27.8	27.8	8.1 8.1	8.1	25.4 25.4	25.4	107.7 104.6	106.2	7.3 7.1	7.2	7.2	11.3 11.1	11.2		19.5 20.0	19.8	
29-Jul-16	Sunny	Moderate	15:17		Surface	1.0	29.8 29.7	29.8	8.7 8.7	8.7	19.8 19.9	19.8	155.4 159.2	157.3	10.6 10.8	10.7	10.7	14.5 14.6	14.6		14.8 16.3	15.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	10.7	-	-	14.7	-	-	16.1
					Bottom	2.8	29.7 29.7	29.7	8.7 8.5	8.6	20.2 20.1	20.1	158.5 150.7	154.6	10.8 10.3	10.5	10.5	14.7 14.6	14.7		17.1 16.1	16.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxyger	(mg/L)	Г	Furbidity(NTL	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:34		Surface	1.0	29.1 29.1	29.1	8.1 8.1	8.1	13.7 13.6	13.7	90.7 91.4	91.1	6.5 6.5	6.5	5.8	2.6 2.4	2.5		2.6 2.9	2.8	
				10.8	Middle	5.4	28.0 28.0	28.0	8.0 8.0	8.0	18.1 17.9	18.0	72.3 71.7	72.0	5.1 5.1	5.1	5.8	6.6 6.4	6.5	5.2	2.4 3.6	3.0	3.1
					Bottom	9.8	27.9 28.0	27.9	8.0 8.0	8.0	18.7 18.1	18.4	75.6 73.5	74.6	5.3 5.2	5.3	5.3	6.7 6.5	6.6		3.9 2.9	3.4	
4-Jul-16	Sunny	Moderate	12:36		Surface	1.0	28.2 28.3	28.3	8.0 8.0	8.0	22.6 22.4	22.5	75.5 75.1	75.3	5.4 5.3	5.3		3.2 3.1	3.2		5.0 4.9	5.0	
				10.4	Middle	5.2	28.6 28.6	28.6	8.1 8.1	8.1	20.8 20.8	20.8	74.3 74.2	74.3	5.3 5.3	5.3	5.3	3.5 3.4	3.5	3.5	5.5 5.0	5.3	5.0
					Bottom	9.4	28.6	28.4	8.1 8.0	8.0	20.8	21.3	74.1	73.9	5.3 5.2	5.3	5.3	3.8 3.7	3.8		5.0 4.4	4.7	
6-Jul-16	Rainy	Moderate	14:07		Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	14.3 14.4	14.3	72.6 74.7	73.7	5.2 5.3	5.3		9.2 9.5	9.4		2.6 4.4	3.5	
				10.2	Middle	5.1	28.0 28.0	28.0	8.3 8.3	8.3	16.6 16.7	16.6	73.0 72.1	72.6	5.2 5.2	5.2	5.3	9.4 9.6	9.5	9.5	4.0	4.6	4.1
					Bottom	9.2	28.0 27.9	28.0	8.3 8.3	8.3	16.9 17.6	17.3	71.7 70.7	71.2	5.1 5.1	5.1	5.1	9.5 9.5	9.5		4.1 4.2	4.2	
8-Jul-16	Sunny	Moderate	15:21		Surface	1.0	29.6 29.6	29.6	8.5 8.5	8.5	18.9 18.9	18.9	80.5 81.9	81.2	5.7 5.9	5.8	5.7	4.3 4.2	4.3		2.6 3.4	3.0	
				10.9	Middle	5.5	29.3 29.5	29.4	8.4 8.4	8.4	19.2 18.9	19.1	80.1 80.4	80.3	5.6 5.6	5.6	5.7	4.6 4.7	4.7	4.6	3.1 2.9	3.0	3.1
					Bottom	9.9	27.7 28.6	28.1	8.3 8.3	8.3	20.6 23.2	21.9	79.4 79.6	79.5	5.6 5.7	5.7	5.7	4.8 4.9	4.9		3.8 3.0	3.4	
11-Jul-16	Cloudy	Moderate	17:28		Surface	1.0	28.8 28.6	28.7	8.5 8.5	8.5	16.1 16.5	16.3	84.8 84.2	84.5	6.1 5.8	5.9	5.9	3.7 3.6	3.7		3.7 4.3	4.0	
				11.0	Middle	5.5	28.6 28.5	28.6	8.5 8.5	8.5	17.9 18.8	18.4	81.6 82.2	81.9	5.9 5.8	5.9	5.5	3.9 3.9	3.9	3.9	4.7 4.7	4.7	4.3
					Bottom	10.0	28.3 28.4	28.4	8.4 8.4	8.4	21.7 20.5	21.1	79.8 79.1	79.5	5.8 5.7	5.7	5.7	4.1 4.0	4.1		5.0 3.6	4.3	
13-Jul-16	Rainy	Moderate	08:10		Surface	1.0	27.8 27.6	27.7	8.3 8.3	8.3	14.8 14.9	14.9	78.7 78.2	78.5	5.6 5.6	5.6	5.6	4.8 5.0	4.9		4.8 4.4	4.6	
				10.5	Middle	5.3	26.8 26.5	26.7	8.2 8.2	8.2	20.0 20.9	20.4	75.9 77.0	76.5	5.4 5.5	5.5	5.0	7.1 7.0	7.1	6.9	4.6 3.7	4.2	4.6
					Bottom	9.5	25.8 25.9	25.8	8.1 8.1	8.1	26.3 26.7	26.5	79.2 76.9	78.1	5.6 5.5	5.6	5.6	8.8 8.6	8.7		4.3 5.7	5.0	
15-Jul-16	Sunny	Moderate	10:14		Surface	1.0	28.7 28.6	28.6	8.4 8.4	8.4	9.0 8.7	8.9	77.6 77.5	77.6	5.7 5.7	5.7	5.7	4.4 4.5	4.5		3.9 4.6	4.3	
				10.5	Middle	5.3	26.4 25.7	26.0	8.1 8.0	8.0	21.2 25.3	23.3	77.1 77.1	77.1	5.7 5.7	5.7	0.1	5.0 5.5	5.3	5.5	4.8 5.8	5.3	4.6
					Bottom	9.5	25.7 25.7	25.7	8.0 8.0	8.0	25.5 25.5	25.5	77.3 77.6	77.5	5.7 5.7	5.7	5.7	6.8 6.5	6.7		4.0 4.1	4.1	
18-Jul-16	Sunny	Moderate	12:22		Surface	1.0	29.4 29.4	29.4	8.5 8.5	8.5	20.2 20.2	20.2	99.8 99.1	99.5	7.0 7.0	7.0	7.0	3.2 3.3	3.3		7.0 7.2	7.1	
				11.1	Middle	5.6	29.0 28.9	29.0	8.4 8.4	8.4	20.4 20.5	20.4	97.2 97.4	97.3	6.9 6.9	6.9	-	3.7 3.6	3.7	3.6	6.8 6.6	6.7	7.3
					Bottom	10.1	28.6 28.8	28.7	8.4 8.4	8.4	21.8 22.2	22.0	88.7 88.2	88.5	6.3 6.3	6.3	6.3	3.9 3.8	3.9		7.6 8.5	8.1	
20-Jul-16	Sunny	Moderate	13:08		Surface	1.0	28.9 29.0	28.9	8.6 8.6	8.6	16.5 17.5	17.0	96.5 94.6	95.6	6.8 6.8	6.8	6.7	3.8 3.9	3.9		5.3 5.9	5.6	
				10.7	Middle	5.4	28.3 28.6	28.4	8.6 8.6	8.6	18.8 18.7	18.8	94.5 93.6	94.1	6.6 6.6	6.6		4.0 4.1	4.1	4.1	5.4 5.9	5.7	5.6
					Bottom	9.7	28.3 28.2	28.2	8.6 8.6	8.6	18.6 18.0	18.3	91.5 90.8	91.2	6.5 6.5	6.5	6.5	4.2 4.3	4.3		5.2 5.6	5.4	

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:11		Surface	1.0	28.0 28.1	28.0	8.7 8.7	8.7	20.3 20.3	20.3	89.5 89.2	89.4	6.3 6.2	6.2	6.2	6.5 6.6	6.6		4.5 4.7	4.6	
				11.7	Middle	5.9	28.0 28.2	28.1	8.7 8.7	8.7	20.6 19.7	20.2	86.9 87.8	87.4	6.1 6.1	6.1	0.2	6.8 6.8	6.8	6.9	4.6 4.7	4.7	4.9
					Bottom	10.7	28.0 28.0	28.0	8.7 8.7	8.7	20.3 20.2	20.3	85.7 85.7	85.7	6.0 6.0	6.0	6.0	7.2 7.1	7.2		5.6 5.0	5.3	
25-Jul-16	Sunny	Moderate	16:40		Surface	1.0	28.5 28.5	28.5	7.9 8.0	7.9	20.1 20.0	20.0	88.6 88.3	88.5	6.2 6.1	6.1	5.8	6.4 6.5	6.5		4.9 4.4	4.7	
				10.2	Middle	5.1	27.5 27.4	27.4	7.9 7.9	7.9	23.2 23.3	23.2	77.4 76.8	77.1	5.4 5.3	5.4	5.0	7.6 7.4	7.5	7.3	5.5 5.8	5.7	5.6
					Bottom	9.2	25.6 25.6	25.6	7.9 7.9	7.9	27.6 27.5	27.5	80.6 81.3	81.0	5.6 5.7	5.7	5.7	7.9 7.8	7.9		6.9 6.0	6.5	
27-Jul-16	Sunny	Moderate	18:14		Surface	1.0	28.5 28.1	28.3	7.9 8.0	7.9	21.1 21.5	21.3	117.5 107.7	112.6	8.1 7.5	7.8	7.6	4.5 4.5	4.5		6.0 5.8	5.9	
				11.2	Middle	5.6	27.3 27.3	27.3	7.9 7.9	7.9	23.5 23.3	23.4	110.3 103.5	106.9	7.7 7.2	7.4	7.0	4.6 4.7	4.7	4.7	7.9 7.6	7.8	7.3
					Bottom	10.2	27.2 27.5	27.3	7.9 7.9	7.9	24.4 24.4	24.4	98.6 107.2	102.9	6.9 7.4	7.1	7.1	4.7 4.8	4.8		7.6 8.5	8.1	
29-Jul-16	Sunny	Moderate	09:19		Surface	1.0	29.1 29.2	29.1	8.2 8.2	8.2	18.1 17.7	17.9	108.2 104.3	106.3	7.4 7.3	7.3	7.3	3.7 4.0	3.9		3.1 2.9	3.0	
				11.1	Middle	5.6	28.6 28.6	28.6	8.1 8.1	8.1	19.0 18.8	18.9	103.4 106.1	104.8	7.1 7.4	7.2	1.5	4.0 3.9	4.0	4.0	2.2 3.1	2.7	3.9
					Bottom	10.1	28.7 28.8	28.7	8.1 8.1	8.1	21.2 20.8	21.0	105.7 100.9	103.3	7.4 7.0	7.2	7.2	3.9 4.1	4.0		5.3 6.7	6.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS10 - Mid-FloodTide

1-Jul-16 4-Jul-16	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
4-Jul-16	Sunny	Moderate	16:49		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	12.9 12.9	12.9	81.1 82.1	81.6	5.7 5.9	5.8	5.7	4.2 4.3	4.3		2.6 2.7	2.7	
4-Jul-16				10.6	Middle	5.3	27.9 27.7	27.8	8.0 8.0	8.0	18.8 19.2	19.0	80.7 74.8	77.8	5.8 5.3	5.5	5.7	5.9 6.2	6.1	5.2	3.4 4.3	3.9	3.5
4-Jul-16					Bottom	9.6	28.0 27.6	27.8	8.0 8.0	8.0	20.1 20.6	20.4	76.3 77.9	77.1	5.4 5.5	5.4	5.4	5.1 5.4	5.3		3.4 4.2	3.8	
	Sunny	Moderate	05:56		Surface	1.0	28.0 28.2	28.1	8.1 8.1	8.1	21.4 21.0	21.2	73.6 73.6	73.6	5.2 5.2	5.2	5.0	2.6 2.6	2.6		3.0 4.7	3.9	
				10.5	Middle	5.3	27.7 27.6	27.6	8.1 8.0	8.1	24.4 24.9	24.6	72.2 72.4	72.3	5.2 5.2	5.2	5.2	2.8 2.8	2.8	2.8	5.5	5.8	5.2
					Bottom	9.5	27.7	27.6	8.0 8.1	8.1	24.9 24.9	24.9	71.1	71.3	5.1 5.1	5.1	5.1	2.9	3.1		5.9 6.1	6.0	
6-Jul-16	Rainy	Moderate	07:19		Surface	1.0	27.7	27.8	8.4 8.4	8.4	18.7 16.6	17.7	84.4 88.9	86.7	5.9 6.3	6.1		8.8 8.6	8.7		5.0 5.4	5.2	
				11.0	Middle	5.5	26.9 26.9	26.9	8.3 8.3	8.3	22.2	22.2	83.0 84.8	83.9	5.9 6.1	6.0	6.1	8.6 8.5	8.6	8.6	5.2 5.6	5.4	5.6
					Bottom	10.0	26.9 27.1	27.0	8.3 8.3	8.3	22.5	22.4	82.1 80.8	81.5	5.8 5.7	5.7	5.7	8.8 8.4	8.6		6.3 6.3	6.3	
8-Jul-16	Sunny	Moderate	08:49		Surface	1.0	28.4	28.6	8.5 8.5	8.5	19.9 18.4	19.2	76.2 75.9	76.1	5.4 5.3	5.3		4.3	4.3		2.4	2.6	
				11.1	Middle	5.6	27.7	27.7	8.4 8.4	8.4	24.8 24.5	24.6	75.6 75.2	75.4	5.3 5.3	5.3	5.3	4.7	4.7	4.6	3.0	2.6	3.0
					Bottom	10.1	27.1 26.8	26.9	8.3 8.3	8.3	24.2	23.2	74.9 74.8	74.9	5.3 5.2	5.2	5.2	4.9	4.9		3.2 4.4	3.8	
11-Jul-16	Cloudy	Moderate	11:20		Surface	1.0	28.2	28.3	8.5 8.5	8.5	20.8	19.8	76.4 76.8	76.6	5.5 5.6	5.5		3.5 3.6	3.6		3.1 3.4	3.3	
				11.2	Middle	5.6	27.6 27.5	27.6	8.4 8.4	8.4	23.8 24.0	23.9	75.6 75.9	75.8	5.5 5.5	5.5	5.5	3.7 3.7	3.7	3.7	2.7	3.0	3.5
					Bottom	10.2	26.8 26.8	26.8	8.3 8.4	8.3	27.6 26.4	27.0	74.1	74.3	5.4 5.4	5.4	5.4	3.8 3.9	3.9		4.0	4.3	
13-Jul-16	Rainy	Moderate	13:59		Surface	1.0	27.6 27.9	27.7	8.4 8.4	8.4	9.3 9.0	9.2	81.0 83.6	82.3	5.8	5.9		4.8	4.7		7.0	6.9	
				10.7	Middle	5.4	26.6 26.2	26.4	8.2 8.2	8.2	18.4 19.0	18.7	75.6 76.7	76.2	5.4 5.5	5.4	5.7	5.2	5.3	5.1	7.3 6.7	7.0	6.7
					Bottom	9.7	25.7 25.8	25.8	8.1 8.1	8.1	23.2 23.1	23.1	73.9 74.5	74.2	5.3 5.3	5.3	5.3	5.6 5.2	5.4		6.1 6.3	6.2	
15-Jul-16	Sunny	Moderate	16:52		Surface	1.0	29.5 29.5	29.5	8.4 8.4	8.4	8.2 8.3	8.3	83.8 81.1	82.5	6.3 6.1	6.2		6.3 6.3	6.3		5.1 4.9	5.0	
				10.6	Middle	5.3	25.7 25.6	25.7	8.0 7.9	8.0	25.4 25.8	25.6	79.0 79.5	79.3	5.8 5.9	5.8	6.0	6.3 6.4	6.4	6.5	4.1	5.1	4.9
					Bottom	9.6	25.3 25.6	25.4	7.9	7.9	26.8 26.9	26.8	81.1 80.3	80.7	6.0 5.9	5.9	5.9	7.0	6.9		4.8	4.7	
18-Jul-16	Sunny	Moderate	19:37		Surface	1.0	29.4 29.7	29.6	8.5 8.5	8.5	19.2 18.9	19.1	101.7 101.4	101.6	7.2 7.1	7.1		7.2	7.3		6.3 6.6	6.5	
				11.1	Middle	5.6	29.1 29.3	29.2	8.5 8.5	8.5	20.4 20.0	20.2	98.1 99.1	98.6	7.0	7.0	7.1	7.5	7.6	7.6	5.9 5.4	5.7	6.2
					Bottom	10.1	29.2 29.2 29.3	29.3	8.5 8.5	8.5	20.9	21.5	95.2 97.0	96.1	6.7 6.8	6.8	6.8	7.9	7.9		5.9 6.6	6.3	1
20-Jul-16	Sunny	Moderate	06:34		Surface	1.0	27.1 27.3	27.2	8.5 8.5	8.5	20.6	20.7	76.8 76.1	76.5	5.3 5.4	5.4		8.2 8.3	8.3		4.8	5.2	
				10.9	Middle	5.5	26.4 26.7	26.6	8.4 8.5	8.5	23.3 22.0	22.6	75.3	75.3	5.4 5.2 5.3	5.2	5.3	8.5 8.5	8.5	8.5	6.6 6.6	6.6	6.2
					Bottom	9.9	26.7 26.7 26.4	26.6	8.5 8.4 8.4	8.4	22.0 24.2 24.3	24.2	75.2 74.0 73.6	73.8	5.3 5.2 5.2	5.2	5.2	8.5 8.7 8.8	8.8		7.0 6.5	6.8	1

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	g	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:54		Surface	1.0	27.8 27.7	27.7	8.6 8.6	8.6	19.7 19.7	19.7	73.9 74.4	74.2	5.4 5.4	5.4	5.4	6.8 6.6	6.7		6.7 6.1	6.4	
				11.7	Middle	5.9	27.3 27.2	27.3	8.6 8.6	8.6	20.3 20.2	20.3	73.3 73.8	73.6	5.2 5.3	5.3	5.4	7.0 6.9	7.0	7.0	9.0 7.8	8.4	7.5
					Bottom	10.7	26.7 26.9	26.8	8.5 8.5	8.5	22.0 22.5	22.2	72.7 73.7	73.2	5.2 5.2	5.2	5.2	7.4 7.3	7.4		8.1 7.4	7.8	
25-Jul-16	Sunny	Moderate	10:17		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	18.7 18.8	18.7	78.8 79.3	79.1	5.5 5.5	5.5	5.4	5.3 5.5	5.4		2.7 3.3	3.0	
				10.4	Middle	5.2	27.7 27.6	27.7	8.0 8.0	8.0	21.9 22.0	22.0	73.8 74.3	74.1	5.1 5.2	5.2	0.4	5.8 5.6	5.7	5.8	2.3 2.3	2.3	2.8
					Bottom	9.4	26.2 26.3	26.3	8.0 8.0	8.0	25.8 25.7	25.7	70.3 70.7	70.5	4.9 5.0	4.9	4.9	6.3 6.2	6.3		2.8 3.4	3.1	<u> </u>
27-Jul-16	Sunny	Moderate	12:34		Surface	1.0	28.4 28.5	28.4	8.0 8.0	8.0	22.8 22.4	22.6	107.3 101.0	104.2	7.4 7.0	7.2	6.7	6.0 6.3	6.2		8.4 8.7	8.6	
				11.0	Middle	5.5	26.9 26.8	26.8	8.0 8.0	8.0	25.9 26.4	26.2	94.0 83.3	88.7	6.5 5.7	6.1	0.7	6.7 6.2	6.5	6.5	9.1 8.0	8.6	8.5
					Bottom	10.0	26.4 26.4	26.4	8.0 8.0	8.0	27.6 27.3	27.4	81.3 87.5	84.4	5.6 6.0	5.8	5.8	6.6 6.7	6.7		8.3 8.3	8.3	
29-Jul-16	Sunny	Moderate	15:37		Surface	1.0	29.2 29.3	29.3	8.4 8.4	8.4	15.5 15.5	15.5	126.4 135.8	131.1	8.9 9.5	9.2	9.0	5.3 5.3	5.3		3.9 4.1	4.0	
				11.0	Middle	5.5	29.0 28.9	29.0	8.4 8.4	8.4	16.2 16.2	16.2	121.9 124.5	123.2	8.7 8.7	8.7	3.0	5.4 5.3	5.4	5.4	4.4 4.5	4.5	4.5
					Bottom	10.0	26.9 26.9	26.9	8.3 8.3	8.3	20.5 21.4	20.9	117.0 120.5	118.8	8.2 8.5	8.4	8.4	5.4 5.6	5.5		4.6 5.3	5.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	þ	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Turbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:24		Surface	1.0	29.1 29.2	29.2	8.1 8.2	8.2	13.3 13.3	13.3	82.2 85.3	83.8	5.9 6.1	6.0	5.0	2.6 2.4	2.5		3.4 3.4	3.4	
				10.4	Middle	5.2	27.9 27.9	27.9	8.1 8.0	8.0	18.2 18.8	18.5	72.3 73.5	72.9	5.1 5.2	5.2	5.6	3.6 3.5	3.6	3.3	4.5 3.4	4.0	3.7
					Bottom	9.4	28.0 28.1	28.0	8.1 8.0	8.1	19.3 19.1	19.2	75.4 72.9	74.2	5.3 5.2	5.2	5.2	3.8	3.8		3.8	3.8	
4-Jul-16	Sunny	Moderate	12:45		Surface	1.0	28.6 28.5	28.6	8.1 8.1	8.1	20.2 20.3	20.2	76.8 76.7	76.8	5.5 5.5	5.5		2.9 3.0	3.0		4.4	4.5	
				10.6	Middle	5.3	28.4 28.2	28.3	8.1 8.1	8.1	20.8 21.6	21.2	76.4 76.0	76.2	5.4 5.4	5.4	5.5	3.2 3.3	3.3	3.3	3.6 3.7	3.7	4.1
					Bottom	9.6	28.0 28.1	28.1	8.1 8.1	8.1	22.7	22.6	75.5 75.8	75.7	5.4 5.4	5.4	5.4	3.4 3.5	3.5		4.0	4.2	
6-Jul-16	Rainy	Moderate	14:17		Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	15.0 15.3	15.2	72.0 73.4	72.7	5.2 5.3	5.2		8.4 8.7	8.6		5.1 4.3	4.7	
				10.1	Middle	5.1	27.7	27.7	8.3 8.4	8.4	18.1 18.2	18.1	72.9	73.1	5.1 5.2	5.2	5.2	8.3 8.6	8.5	8.5	5.7 4.0	4.9	5.1
					Bottom	9.1	27.3 27.3	27.3	8.3 8.3	8.3	21.0 21.1	21.0	68.2 67.7	68.0	4.9 4.8	4.8	4.8	8.5 8.4	8.5		6.4 5.2	5.8	
8-Jul-16	Sunny	Moderate	15:34		Surface	1.0	29.2 29.5	29.4	8.5 8.5	8.5	20.0 19.8	19.9	80.6 82.0	81.3	5.7 5.8	5.8		4.1 4.2	4.2		3.5 3.5	3.5	
				11.2	Middle	5.6	28.6 29.1	28.8	8.5 8.4	8.5	20.3 20.0	20.1	79.5 80.6	80.1	5.6 5.7	5.6	5.7	4.3 4.3	4.3	4.4	3.8 4.8	4.3	4.2
					Bottom	10.2	27.9 28.3	28.1	8.4 8.4	8.4	22.8 23.0	22.9	77.6 76.7	77.2	5.5 5.5	5.5	5.5	4.5 4.6	4.6		4.9 4.7	4.8	
11-Jul-16	Cloudy	Moderate	17:39		Surface	1.0	28.5 28.5	28.5	8.5 8.5	8.5	18.3 18.4	18.3	83.9 83.4	83.7	6.1 6.1	6.1	<u> </u>	3.4 3.3	3.4		4.8 4.5	4.7	
				10.9	Middle	5.5	28.4 28.5	28.5	8.5 8.5	8.5	18.6 18.0	18.3	82.8 81.9	82.4	6.0 5.9	5.9	6.0	3.6 3.6	3.6	3.6	4.6 4.7	4.7	5.2
					Bottom	9.9	28.4 28.3	28.3	8.4 8.4	8.4	20.1 20.8	20.4	81.6 81.4	81.5	5.8 5.9	5.8	5.8	3.7 3.7	3.7		6.5 5.8	6.2	
13-Jul-16	Rainy	Moderate	08:00		Surface	1.0	27.7 27.7	27.7	8.3 8.3	8.3	13.7 13.0	13.3	79.5 79.1	79.3	5.7 5.6	5.6	5.6	3.9 4.1	4.0		2.9 2.6	2.8	
				10.4	Middle	5.2	26.2 26.1	26.2	8.1 8.1	8.1	23.8 24.0	23.9	76.8 77.9	77.4	5.5 5.6	5.5	5.0	5.0 5.0	5.0	4.9	4.3 3.8	4.1	3.7
					Bottom	9.4	26.1 25.9	26.0	8.1 8.1	8.1	24.7 25.2	24.9	77.3 78.0	77.7	5.5 5.6	5.5	5.5	5.3 5.8	5.6		3.8 4.3	4.1	
15-Jul-16	Sunny	Moderate	10:04		Surface	1.0	28.2 28.3	28.2	8.3 8.3	8.3	11.3 11.6	11.4	78.0 78.5	78.3	5.8 5.8	5.8	5.7	5.1 4.9	5.0		4.3 3.5	3.9	
				10.6	Middle	5.3	25.5 25.6	25.6	8.0 8.0	8.0	25.0 25.0	25.0	76.6 76.4	76.5	5.6 5.6	5.6	5.7	5.9 5.7	5.8	5.5	3.7 4.6	4.2	4.1
					Bottom	9.6	25.6 25.5	25.5	8.0 8.0	8.0	26.2 26.3	26.2	76.8 76.6	76.7	5.6 5.6	5.6	5.6	5.6 6.0	5.8		4.4 4.1	4.3	
18-Jul-16	Sunny	Moderate	12:10		Surface	1.0	29.6 29.5	29.6	8.5 8.5	8.5	19.5 19.6	19.5	93.1 93.4	93.3	6.6 6.6	6.6	6.3	5.3 5.3	5.3		5.2 5.7	5.5	
				11.0	Middle	5.5	29.4 29.5	29.4	8.5 8.5	8.5	19.9 19.7	19.8	82.1 83.1	82.6	5.9 5.9	5.9	0.0	5.4 5.5	5.5	5.5	6.7 6.6	6.7	6.7
					Bottom	10.0	27.1 26.8	26.9	8.5 8.3	8.4	25.5 27.9	26.7	81.6 83.0	82.3	5.8 5.9	5.8	5.8	5.6 5.7	5.7		7.4 8.4	7.9	
20-Jul-16	Sunny	Moderate	13:25		Surface	1.0	29.0 29.0	29.0	8.6 8.6	8.6	17.5 18.5	18.0	106.0 106.3	106.2	7.5 7.5	7.5	7.4	4.3 4.2	4.3		4.8 5.2	5.0	
				10.6	Middle	5.3	28.7 28.8	28.8	8.6 8.6	8.6	18.7 19.8	19.2	103.7 103.3	103.5	7.3 7.3	7.3	1.4	4.3 4.5	4.4	4.4	4.8 6.0	5.4	5.6
					Bottom	9.6	28.7 27.7	28.2	8.6 8.5	8.6	16.3 19.3	17.8	98.1 97.9	98.0	6.9 6.9	6.9	6.9	4.5 4.5	4.5		7.1 5.5	6.3	

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	Furbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:22		Surface	1.0	29.1 29.3	29.2	8.7 8.7	8.7	17.8 17.5	17.7	86.9 87.3	87.1	6.1 6.1	6.1	6.0	5.2 5.1	5.2		8.7 9.1	8.9	
				12.1	Middle	6.1	27.2 27.3	27.3	8.6 8.6	8.6	21.3 21.8	21.6	84.7 85.5	85.1	5.8 5.9	5.8	0.0	5.4 5.2	5.3	5.4	8.6 9.2	8.9	9.0
					Bottom	11.1	25.8 26.6	26.2	8.6 8.6	8.6	26.1 24.1	25.1	81.5 80.6	81.1	5.7 5.7	5.7	5.7	5.6 5.7	5.7		9.4 8.9	9.2	
25-Jul-16	Sunny	Moderate	16:51		Surface	1.0	29.0 29.0	29.0	8.0 8.0	8.0	19.5 19.5	19.5	96.4 96.1	96.3	6.7 6.6	6.7	6.1	5.2 5.4	5.3		5.8 4.8	5.3	
				10.2	Middle	5.1	27.6 27.6	27.6	7.9 7.9	7.9	23.5 23.5	23.5	78.3 78.0	78.2	5.4 5.4	5.4	0.1	6.5 6.2	6.4	6.2	4.9 6.1	5.5	5.4
					Bottom	9.2	25.4 25.5	25.4	7.9 7.9	7.9	27.9 27.8	27.9	72.5 71.9	72.2	5.1 5.0	5.1	5.1	6.7 6.8	6.8		5.3 5.6	5.5	
27-Jul-16	Sunny	Moderate	18:26		Surface	1.0	29.2 29.5	29.3	8.0 8.0	8.0	17.9 17.9	17.9	129.2 129.8	129.5	9.0 9.0	9.0	8.0	4.6 4.7	4.7		6.5 7.0	6.8	
				11.0	Middle	5.5	27.4 27.1	27.3	7.9 7.9	7.9	22.5 22.3	22.4	97.8 103.7	100.8	6.8 7.2	7.0	0.0	4.7 4.7	4.7	4.8	7.1 7.0	7.1	7.0
					Bottom	10.0	26.8 26.7	26.7	7.9 7.9	7.9	23.8 24.8	24.3	98.0 91.8	94.9	6.9 6.4	6.6	6.6	4.9 5.0	5.0		6.5 7.7	7.1	
29-Jul-16	Sunny	Moderate	09:08		Surface	1.0	29.3 29.0	29.2	8.2 8.2	8.2	17.6 18.2	17.9	109.9 99.8	104.9	7.6 6.9	7.3	7.0	3.3 3.6	3.5		2.0 2.0	2.0	
				11.0	Middle	5.5	28.5 28.4	28.4	8.1 8.1	8.1	19.6 19.8	19.7	103.9 90.8	97.4	7.1 6.3	6.7	7.0	3.6 3.7	3.7	3.7	2.6 2.8	2.7	2.7
					Bottom	10.0	27.5 27.7	27.6	8.0 8.1	8.0	23.7 24.4	24.1	90.2 101.0	95.6	6.2 7.0	6.6	6.6	3.8 3.9	3.9		3.7 3.3	3.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:58		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	13.0 13.0	13.0	84.1 82.3	83.2	6.0 5.9	5.9	5.5	3.3 3.4	3.4		3.4 3.9	3.7	
				10.5	Middle	5.3	27.5 27.2	27.4	8.1 8.1	8.1	20.4 20.2	20.3	72.5 73.1	72.8	5.1 5.2	5.1	5.5	4.2 4.1	4.2	3.7	2.9 3.7	3.3	4.1
					Bottom	9.5	27.0 27.1	27.1	8.0 8.0	8.0	23.2 22.8	23.0	75.9 75.4	75.7	5.3 5.3	5.3	5.3	3.5 3.4	3.5		5.3 5.2	5.3	
4-Jul-16	Sunny	Moderate	05:45		Surface	1.0	27.8 28.1	27.9	8.1 8.1	8.1	22.0 22.4	22.2	74.1 74.5	74.3	5.4 5.3	5.3	5.3	2.1 2.2	2.2		6.1 5.9	6.0	
				10.6	Middle	5.3	27.5 27.4	27.5	8.1 8.1	8.1	24.8 25.3	25.1	73.3 73.9	73.6	5.2 5.2	5.2	5.5	2.3 2.3	2.3	2.4	6.1 5.7	5.9	5.8
					Bottom	9.6	27.6 27.4	27.5	8.1 8.1	8.1	25.8 25.8	25.8	72.6 73.0	72.8	5.1 5.2	5.1	5.1	2.6 2.5	2.6		5.7 5.5	5.6	
6-Jul-16	Rainy	Moderate	07:08		Surface	1.0	28.1 28.2	28.2	8.4 8.4	8.4	16.7 16.7	16.7	80.3 76.9	78.6	5.6 5.4	5.5	5.3	3.4 3.6	3.5		3.7 4.4	4.1	
				10.8	Middle	5.4	26.6 26.7	26.7	8.3 8.3	8.3	23.3 23.3	23.3	71.8 72.4	72.1	5.1 5.2	5.1	5.5	3.6 3.6	3.6	3.5	4.2 4.7	4.5	4.6
					Bottom	9.8	26.8 26.8	26.8	8.3 8.3	8.3	23.5 23.4	23.4	71.6 67.1	69.4	5.0 4.7	4.9	4.9	3.5 3.5	3.5		4.6 5.5	5.1	
8-Jul-16	Sunny	Moderate	08:41		Surface	1.0	28.0 28.1	28.0	8.4 8.3	8.4	23.7 23.4	23.5	75.5 75.2	75.4	5.3 5.3	5.3	5.3	4.3 4.3	4.3		4.2 5.2	4.7	
				11.2	Middle	5.6	27.8 27.9	27.9	8.3 8.3	8.3	23.9 23.8	23.9	74.8 75.1	75.0	5.3 5.3	5.3	5.5	4.4 4.5	4.5	4.5	4.9 5.8	5.4	5.9
					Bottom	10.2	27.5 27.5	27.5	8.3 8.3	8.3	26.9 25.9	26.4	74.5 74.4	74.5	5.2 5.2	5.2	5.2	4.6 4.6	4.6		7.1 7.8	7.5	
11-Jul-16	Cloudy	Moderate	11:08		Surface	1.0	28.2 28.1	28.2	8.5 8.5	8.5	20.7 21.2	21.0	76.6 76.3	76.5	5.3 5.4	5.4	5.4	2.7 2.7	2.7		4.1 4.7	4.4	
				11.1	Middle	5.6	27.6 27.6	27.6	8.4 8.4	8.4	22.6 23.8	23.2	75.3 75.2	75.3	5.3 5.4	5.3	5.4	2.9 2.8	2.9	2.9	5.2 5.5	5.4	4.8
					Bottom	10.1	26.7 27.5	27.1	8.3 8.4	8.3	25.8 25.5	25.7	73.0 74.5	73.8	5.2 5.2	5.2	5.2	3.0 3.1	3.1		4.7 4.7	4.7	
13-Jul-16	Rainy	Moderate	14:09		Surface	1.0	27.1 27.5	27.3	8.3 8.4	8.3	17.6 14.5	16.1	80.5 81.2	80.9	5.7 5.8	5.8	5.6	3.4 3.5	3.5		5.3 4.7	5.0	
				10.6	Middle	5.3	26.1 25.8	25.9	8.2 8.2	8.2	22.6 25.4	24.0	75.7 77.2	76.5	5.4 5.5	5.4	5.0	4.0 3.9	4.0	3.8	5.9 6.4	6.2	5.6
					Bottom	9.6	25.9 25.8	25.8	8.2 8.2	8.2	25.3 26.4	25.9	75.2 76.3	75.8	5.4 5.4	5.4	5.4	3.8 3.7	3.8		5.6 5.3	5.5	
15-Jul-16	Sunny	Moderate	16:59		Surface	1.0	29.3 29.3	29.3	8.3 8.3	8.3	8.8 8.8	8.8	81.7 82.5	82.1	6.0 6.1	6.1	6.0	6.7 6.7	6.7		5.1 4.4	4.8	
				10.4	Middle	5.2	27.0 27.2	27.1	8.1 8.1	8.1	20.3 20.6	20.4	79.5 78.8	79.2	5.8 5.8	5.8	0.0	7.2 7.5	7.4	7.3	5.0 4.2	4.6	4.8
					Bottom	9.4	26.2 26.1	26.2	8.0 8.0	8.0	22.8 23.1	22.9	79.8 81.0	80.4	5.9 6.0	5.9	5.9	8.0 7.8	7.9		6.1 3.7	4.9	
18-Jul-16	Sunny	Moderate	19:47		Surface	1.0	29.8 29.7	29.8	8.6 8.6	8.6	19.1 19.2	19.1	105.2 105.8	105.5	7.4 7.5	7.4	7.4	6.2 6.3	6.3		4.7 5.2	5.0	
				11.1	Middle	5.6	29.6 29.5	29.6	8.6 8.6	8.6	19.2 19.2	19.2	104.4 103.3	103.9	7.4 7.3	7.3		6.6 6.5	6.6	6.6	7.3 7.4	7.4	6.9
					Bottom	10.1	29.5 29.4	29.4	8.5 8.6	8.6	20.2 20.4	20.3	100.3 99.4	99.9	7.1 7.0	7.1	7.1	6.8 6.7	6.8		8.2 8.4	8.3	
20-Jul-16	Sunny	Moderate	06:19		Surface	1.0	27.6 27.6	27.6	8.5 8.5	8.5	19.9 19.7	19.8	81.1 81.6	81.4	5.7 5.8	5.7	5.7	4.5 4.4	4.5		8.0 7.6	7.8	
				10.7	Middle	5.4	27.3 27.1	27.2	8.5 8.5	8.5	20.1 20.6	20.4	80.9 80.5	80.7	5.7 5.7	5.7	0	4.5 4.6	4.6	4.6	7.1 7.0	7.1	7.6
					Bottom	9.7	27.1 26.9	27.0	8.5 8.4	8.4	22.0 23.1	22.5	80.3 79.0	79.7	5.7 5.6	5.6	5.6	4.7 4.7	4.7		7.3 8.3	7.8	

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:47		Surface	1.0	27.8 27.8	27.8	8.6 8.6	8.6	19.5 19.5	19.5	77.3 77.7	77.5	5.4 5.5	5.5	5.4	5.5 5.4	5.5		5.5 5.0	5.3	
				12.2	Middle	6.1	27.7 27.6	27.7	8.5 8.6	8.6	19.5 19.6	19.6	75.8 75.4	75.6	5.3 5.3	5.3	5.4	5.7 5.7	5.7	5.7	6.2 5.5	5.9	5.9
					Bottom	11.2	26.5 27.3	26.9	8.6 8.5	8.5	25.5 23.1	24.3	75.5 74.3	74.9	5.3 5.3	5.3	5.3	5.9 5.8	5.9		6.9 5.9	6.4	
25-Jul-16	Sunny	Moderate	10:07		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	21.5 21.5	21.5	74.8 74.2	74.5	5.2 5.2	5.2	5.2	5.3 5.5	5.4		3.6 3.9	3.8	
				10.4	Middle	5.2	27.3 27.3	27.3	8.0 8.0	8.0	22.5 22.6	22.6	72.1 72.7	72.4	5.0 5.1	5.1	0.2	6.2 6.3	6.3	6.1	4.1 4.8	4.5	4.9
					Bottom	9.4	26.4 26.5	26.5	8.0 8.0	8.0	25.0 25.0	25.0	70.7 70.7	70.7	4.9 4.9	4.9	4.9	6.5 6.6	6.6		6.8 6.0	6.4	
27-Jul-16	Sunny	Moderate	12:26		Surface	1.0	27.3 27.0	27.2	8.0 8.0	8.0	26.9 27.1	27.0	99.0 86.0	92.5	6.8 5.9	6.3	6.1	8.0 7.8	7.9		10.8 9.1	10.0	
				11.0	Middle	5.5	26.6 26.8	26.7	8.0 8.0	8.0	27.6 27.3	27.5	83.3 86.1	84.7	5.7 5.9	5.8	0.1	7.8 8.0	7.9	8.0	11.1 13.2	12.2	12.1
					Bottom	10.0	26.3 26.4	26.4	8.0 8.0	8.0	28.3 28.2	28.3	82.2 85.7	84.0	5.7 5.9	5.8	5.8	8.0 8.2	8.1		13.1 14.8	14.0	
29-Jul-16	Sunny	Moderate	15:48		Surface	1.0	29.4 29.5	29.5	8.4 8.4	8.4	16.2 17.2	16.7	127.2 126.5	126.9	8.9 8.8	8.8	8.6	5.5 5.5	5.5		6.8 5.9	6.4	
				11.2	Middle	5.6	28.0 27.7	27.8	8.3 8.2	8.3	19.2 22.7	20.9	123.1 115.8	119.5	8.6 7.9	8.3	0.0	5.7 5.5	5.6	5.6	6.1 6.6	6.4	7.3
					Bottom	10.2	27.8 27.6	27.7	8.3 8.2	8.3	20.5 25.1	22.8	119.3 112.8	116.1	8.4 7.8	8.1	8.1	5.8 5.6	5.7		8.6 9.3	9.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:51		Surface	1.0	28.7 28.8	28.8	8.3 8.3	8.3	19.8 19.6	19.7	89.4 92.2	90.8	6.2 6.4	6.3	6.3	3.9 4.0	4.0		4.5 4.4	4.5	
				6.3	Middle	3.2	28.6 28.3	28.4	8.3 8.3	8.3	20.0 20.3	20.2	88.1 90.6	89.4	6.1 6.2	6.2	0.3	4.1 4.3	4.2	4.2	4.9 5.1	5.0	4.7
					Bottom	5.3	28.3 27.6	27.9	8.3 8.3	8.3	23.3 23.4	23.4	88.4 84.5	86.5	6.2 5.9	6.0	6.0	4.4	4.5		4.6	4.5	
4-Jul-16	Sunny	Moderate	12:26		Surface	1.0	28.5 28.3	28.4	8.4 8.4	8.4	18.7 18.9	18.8	82.9 84.3	83.6	5.8 5.9	5.8		4.9 4.9	4.9		8.6 9.1	8.9	
				6.3	Middle	3.2	28.0 28.0	28.0	8.3 8.3	8.3	20.6 20.6	20.6	82.7 81.5	82.1	5.8 5.7	5.7	5.8	4.9	4.9	4.9	8.7 8.0	8.4	8.6
					Bottom	5.3	27.9 28.2	28.1	8.3 8.3	8.3	20.9	20.8	80.4 80.9	80.7	5.6 5.6	5.6	5.6	4.9	4.9		7.9	8.6	
6-Jul-16	Rainy	Moderate	14:18		Surface	1.0	28.1	28.1	8.3 8.3	8.3	18.0 17.8	17.9	86.4 85.9	86.2	6.1 6.0	6.1		6.6 6.6	6.6		8.3 8.5	8.4	
				6.5	Middle	3.3	28.0 28.1	28.0	8.2 8.3	8.3	18.3 17.9	18.1	84.1 84.7	84.4	5.9 6.0	5.9	6.0	6.7 6.8	6.8	6.8	7.0 8.5	7.8	8.0
					Bottom	5.5	28.0 28.0	28.0	8.2 8.3	8.2	19.7 18.6	19.1	82.1 82.6	82.4	5.8 5.8	5.8	5.8	6.8 6.9	6.9		8.5 7.2	7.9	
8-Jul-16	Sunny	Moderate	15:13		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	18.8 18.8	18.8	87.3 85.1	86.2	6.1 5.9	6.0		5.3 5.2	5.3		3.4 3.3	3.4	
				6.2	Middle	3.1	27.7	27.7	8.3 8.3	8.3	19.8 19.9	19.9	76.2 76.5	76.4	5.4 5.4	5.4	5.7	3.9 4.0	4.0	4.2	3.7	4.1	3.7
					Bottom	5.2	27.0 27.1	27.0	8.3 8.3	8.3	23.9 23.0	23.4	79.1 78.7	78.9	5.5 5.5	5.5	5.5	3.5 3.3	3.4		3.2 3.8	3.5	
11-Jul-16	Cloudy	Moderate	17:21		Surface	1.0	28.9 28.6	28.8	8.5 8.4	8.5	17.3 17.5	17.4	101.8 101.6	101.7	7.1 7.1	7.1	7.0	4.7 4.8	4.8		4.7 5.2	5.0	
				6.4	Middle	3.2	28.4 28.3	28.3	8.4 8.4	8.4	18.2 18.3	18.2	97.8 99.2	98.5	6.9 7.0	6.9	7.0	4.8 4.8	4.8	4.8	4.8 4.8	4.8	4.9
					Bottom	5.4	27.3 26.4	26.9	8.4 8.3	8.4	22.6 25.6	24.1	94.2 91.3	92.8	6.6 6.4	6.5	6.5	4.8 4.6	4.7		5.1 4.8	5.0	
13-Jul-16	Rainy	Moderate	08:20		Surface	1.0	27.8 27.9	27.9	8.2 8.2	8.2	16.3 17.4	16.9	76.9 78.3	77.6	5.5 5.7	5.6	5.6	6.1 6.2	6.2		3.5 4.6	4.1	
				6.4	Middle	3.2	27.1 27.3	27.2	8.1 8.1	8.1	20.1 19.9	20.0	77.2 76.0	76.6	5.5 5.4	5.5	5.0	6.0 6.1	6.1	6.1	6.2 5.6	5.9	5.2
					Bottom	5.4	25.8 25.7	25.7	8.1 8.1	8.1	26.4 26.4	26.4	73.4 72.0	72.7	5.3 5.2	5.3	5.3	5.9 6.1	6.0		5.2 6.2	5.7	
15-Jul-16	Sunny	Moderate	10:27		Surface	1.0	28.3 28.1	28.2	8.3 8.3	8.3	16.2 16.3	16.3	84.3 80.2	82.3	6.0 5.7	5.9	5.6	8.3 8.5	8.4		5.8 5.9	5.9	
				6.2	Middle	3.1	27.7 27.7	27.7	8.2 8.2	8.2	18.1 18.3	18.2	73.5 74.5	74.0	5.2 5.2	5.2	5.0	8.8 8.6	8.7	8.5	5.9 4.9	5.4	5.6
					Bottom	5.2	26.2 26.3	26.3	8.1 8.1	8.1	24.7 24.6	24.6	71.8 70.4	71.1	5.1 5.0	5.0	5.0	8.5 8.5	8.5		5.1 5.7	5.4	
18-Jul-16	Sunny	Moderate	12:29		Surface	1.0	29.1 29.0	29.1	8.5 8.4	8.4	18.6 18.5	18.6	102.8 95.2	99.0	7.1 6.6	6.9	6.8	5.7 5.7	5.7		7.2 7.5	7.4	
				6.2	Middle	3.1	28.4 28.6	28.5	8.4 8.4	8.4	19.8 19.5	19.7	91.7 98.2	95.0	6.4 6.8	6.6	0.0	6.1 6.5	6.3	6.1	7.5 7.9	7.7	8.1
					Bottom	5.2	27.4 27.4	27.4	8.3 8.4	8.4	23.3 24.2	23.7	88.9 93.8	91.4	6.2 6.5	6.4	6.4	6.1 6.3	6.2		9.1 9.2	9.2	
20-Jul-16	Sunny	Moderate	12:59		Surface	1.0	28.1 27.9	28.0	8.5 8.4	8.5	21.4 21.6	21.5	86.6 91.2	88.9	6.0 6.1	6.1	6.1	6.5 6.3	6.4		11.7 11.3	11.5	
				6.0	Middle	3.0	27.5 27.2	27.4	8.4 8.4	8.4	22.9 23.1	23.0	83.7 88.3	86.0	5.8 6.3	6.1		6.6 6.4	6.5	6.5	10.9 10.2	10.6	11.0
					Bottom	5.0	26.6 26.1	26.4	8.4 8.4	8.4	26.6 27.0	26.8	86.9 80.9	83.9	6.1 5.6	5.8	5.8	6.5 6.6	6.6		10.4 11.5	11.0	

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:08		Surface	1.0	27.9 27.9	27.9	8.5 8.5	8.5	22.3 22.7	22.5	86.8 87.2	87.0	6.0 6.0	6.0	6.0	6.6 6.3	6.5		10.1 9.8	10.0	
				6.1	Middle	3.1	27.0 27.0	27.0	8.5 8.5	8.5	24.4 24.4	24.4	86.3 85.6	86.0	6.0 5.9	6.0	0.0	6.6 6.4	6.5	6.5	11.7 11.5	11.6	11.0
					Bottom	5.1	26.7 26.7	26.7	8.4 8.5	8.5	26.8 27.0	26.9	83.9 82.8	83.4	5.8 5.8	5.8	5.8	6.3 6.5	6.4		11.9 11.0	11.5	
25-Jul-16	Sunny	Moderate	16:10		Surface	1.0	27.9 28.2	28.1	8.1 8.0	8.1	22.5 23.0	22.7	94.2 90.9	92.6	6.5 6.2	6.4	6.4	5.5 5.3	5.4		5.6 6.4	6.0	
				6.5	Middle	3.3	27.5 27.5	27.5	8.0 8.0	8.0	24.6 25.0	24.8	90.4 91.5	91.0	6.2 6.3	6.3	0.4	5.6 5.6	5.6	5.5	5.7 5.1	5.4	5.8
					Bottom	5.5	27.6 27.4	27.5	8.0 8.0	8.0	24.9 25.7	25.3	91.2 88.8	90.0	6.3 6.1	6.2	6.2	5.5 5.4	5.5		5.7 6.3	6.0	
27-Jul-16	Sunny	Moderate	18:20		Surface	1.0	27.5 27.6	27.6	8.1 8.0	8.1	24.7 24.7	24.7	92.0 88.5	90.3	6.4 6.1	6.3	6.3	7.4 7.3	7.4		11.5 11.9	11.7	
				6.3	Middle	3.2	26.6 26.8	26.7	8.0 8.0	8.0	25.4 25.4	25.4	88.7 91.9	90.3	6.1 6.3	6.2	0.5	7.4 7.1	7.3	7.3	11.6 11.4	11.5	12.6
					Bottom	5.3	26.9 25.9	26.4	8.0 8.0	8.0	25.5 27.1	26.3	81.3 77.9	79.6	5.7 5.4	5.5	5.5	7.3 7.2	7.3		14.4 14.7	14.6	
29-Jul-16	Sunny	Moderate	09:33		Surface	1.0	29.0 28.9	29.0	8.5 8.5	8.5	21.6 21.7	21.7	127.6 128.6	128.1	8.7 8.7	8.7	8.7	6.8 6.9	6.9		5.7 5.3	5.5	
				6.1	Middle	3.1	28.9 29.0	28.9	8.5 8.5	8.5	21.8 22.5	22.1	127.8 123.7	125.8	8.7 8.5	8.6	0.7	6.9 6.9	6.9	6.9	4.9 5.5	5.2	5.0
					Bottom	5.1	28.7 28.9	28.8	8.5 8.5	8.5	22.7 22.7	22.7	122.9 127.4	125.2	8.4 8.7	8.6	8.6	6.9 6.9	6.9		4.5 4.1	4.3	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:39		Surface	1.0	28.9 28.9	28.9	8.5 8.5	8.5	19.5 19.6	19.6	96.2 99.2	97.7	6.7 6.9	6.8	0.7	4.8 4.7	4.8		2.9 4.4	3.7	
				6.4	Middle	3.2	28.4 28.5	28.5	8.4 8.4	8.4	20.3 20.2	20.3	95.8 94.1	95.0	6.6 6.5	6.6	6.7	4.8 4.8	4.8	4.8	3.8 2.9	3.4	3.8
					Bottom	5.4	27.7 28.1	27.9	8.4 8.4	8.4	23.1 23.1	23.1	84.8 85.9	85.4	5.9 6.0	5.9	5.9	4.8	4.9		4.3	4.2	
4-Jul-16	Sunny	Moderate	06:09		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	17.6 17.6	17.6	84.4 80.7	82.6	5.9 5.7	5.8		6.3 6.3	6.3		5.3 5.1	5.2	
				6.3	Middle	3.2	28.5 28.4	28.4	8.3 8.4	8.4	19.3 19.6	19.4	82.6 76.1	79.4	5.7 5.3	5.5	5.7	6.5 6.6	6.6	6.5	5.0 4.8	4.9	5.0
					Bottom	5.3	28.4 27.8	28.1	8.3 8.3	8.3	21.8	22.0	81.9 75.5	78.7	5.7 5.3	5.5	5.5	6.5 6.5	6.5		5.1	4.8	
6-Jul-16	Rainy	Moderate	07:27		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	16.3 16.3	16.3	83.8 82.7	83.3	6.0 5.9	5.9		3.1 3.1	3.1		3.9 3.6	3.8	
				6.7	Middle	3.4	28.0 28.3	28.1	8.2 8.2	8.2	18.8 18.5	18.6	80.7 81.2	81.0	5.7 5.7	5.7	5.8	3.2 3.2	3.2	3.2	4.4	4.7	4.7
					Bottom	5.7	28.3 28.0	28.2	8.2 8.1	8.2	18.0	19.0	78.3	78.6	5.6 5.6	5.6	5.6	3.3 3.3	3.3		5.0	5.5	
8-Jul-16	Sunny	Moderate	09:13		Surface	1.0	28.5 28.6	28.6	8.1 8.1	8.1	16.9 16.8	16.8	77.4	78.2	5.6 5.7	5.6		3.5 3.5	3.5		5.7 5.4	5.6	
				6.4	Middle	3.2	27.8 27.9	27.8	8.1 8.1	8.1	19.0 18.9	19.0	75.6	74.8	5.5 5.3	5.4	5.5	3.4 3.3	3.4	3.3	6.1 5.1	5.6	6.3
					Bottom	5.4	27.7	27.5	8.0 8.0	8.0	20.8	20.9	77.1	76.6	5.5 5.5	5.5	5.5	3.2 3.0	3.1		7.7	7.7	
11-Jul-16	Cloudy	Moderate	11:09		Surface	1.0	28.1 27.9	28.0	8.2 8.2	8.2	17.5 17.1	17.3	75.2 72.4	73.8	5.3 5.2	5.2		3.9 4.0	4.0		3.4 3.1	3.3	
				6.1	Middle	3.1	27.1 27.4	27.3	8.1 8.1	8.1	21.6 21.8	21.7	74.1 71.9	73.0	5.2 5.1	5.1	5.2	4.5	4.6	4.4	2.3 2.4	2.4	2.7
					Bottom	5.1	27.4	27.2	8.1 8.1	8.1	22.3 22.3	22.3	71.1	70.8	5.0	5.0	5.0	4.4	4.5		2.5	2.5	
13-Jul-16	Rainy	Moderate	13:45		Surface	1.0	28.1 27.9	28.0	8.3 8.3	8.3	15.7 15.7	15.7	76.2 78.7	77.5	5.5 5.6	5.5		6.5 6.4	6.5		6.3 6.7	6.5	
				6.3	Middle	3.2	27.2 27.0	27.1	8.2 8.2	8.2	18.0 18.1	18.0	77.2 74.8	76.0	5.5 5.3	5.4	5.5	6.5 6.6	6.6	6.6	7.2	6.7	6.8
					Bottom	5.3	26.7 26.3	26.5	8.2 8.1	8.1	23.1 24.7	23.9	74.1 73.0	73.6	5.3 5.1	5.2	5.2	6.6 6.6	6.6		7.5 7.0	7.3	
15-Jul-16	Sunny	Moderate	16:41		Surface	1.0	29.2 29.1	29.1	8.5 8.5	8.5	15.6 15.5	15.6	93.1 94.9	94.0	6.6 6.7	6.6	6.3	6.1 6.2	6.2		4.7 4.9	4.8	
				6.3	Middle	3.2	27.2 28.1	27.7	8.4 8.4	8.4	20.0 19.7	19.9	89.0 82.0	85.5	6.3 5.8	6.0	0.3	7.5 7.9	7.7	7.3	5.0 5.7	5.4	5.1
					Bottom	5.3	27.0 26.6	26.8	8.4 8.4	8.4	22.2 22.1	22.2	72.5 71.1	71.8	5.1 5.0	5.1	5.1	7.9 7.8	7.9		5.7 4.2	5.0	
18-Jul-16	Sunny	Moderate	18:47		Surface	1.0	29.5 29.6	29.6	8.5 8.5	8.5	16.9 17.0	16.9	117.0 120.3	118.7	8.2 8.3	8.2	8.0	7.2 7.5	7.4		9.1 9.2	9.2	
				6.4	Middle	3.2	28.7 28.8	28.8	8.4 8.5	8.4	18.1 18.1	18.1	111.6 112.4	112.0	7.8 7.8	7.8	0.0	7.6 7.4	7.5	7.5	7.0 8.5	7.8	8.2
					Bottom	5.4	29.0 27.2	28.1	8.5 8.4	8.4	20.1 24.9	22.5	95.6 86.6	91.1	6.6 6.1	6.3	6.3	7.5 7.5	7.5		7.6 7.6	7.6	
20-Jul-16	Sunny	Moderate	06:30		Surface	1.0	27.3 27.5	27.4	8.4 8.4	8.4	21.8 21.4	21.6	81.2 77.9	79.6	5.7 5.5	5.6	5.5	5.9 5.8	5.9		6.4 6.8	6.6	
				6.1	Middle	3.1	26.9 27.0	27.0	8.3 8.4	8.3	24.1 23.4	23.7	77.2 77.8	77.5	5.4 5.5	5.4	5.5	6.4 6.3	6.4	6.3	5.5 5.7	5.6	6.7
					Bottom	5.1	27.1 26.7	26.9	8.3 8.4	8.4	25.1 24.6	24.9	75.8 77.5	76.7	5.3 5.4	5.4	5.4	6.4 6.5	6.5		7.3	7.8	

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:56		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	20.6 20.5	20.6	78.5 79.5	79.0	5.5 5.5	5.5	5.5	4.8 4.8	4.8		3.5 3.7	3.6	
				6.2	Middle	3.1	27.2 27.5	27.4	8.3 8.3	8.3	23.0 22.9	22.9	77.9 78.0	78.0	5.4 5.4	5.4	5.5	4.8 4.7	4.8	4.8	3.4 3.3	3.4	3.6
					Bottom	5.2	26.9 27.6	27.2	8.3 8.3	8.3	25.5 25.1	25.3	76.3 76.3	76.3	5.3 5.3	5.3	5.3	4.8 4.8	4.8		4.5 3.3	3.9	
25-Jul-16	Sunny	Moderate	10:26		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	22.8 22.8	22.8	95.1 90.6	92.9	6.5 6.2	6.4	6.2	5.7 6.1	5.9		7.1 7.0	7.1	
				6.4	Middle	3.2	28.0 27.9	27.9	8.1 8.1	8.1	23.1 23.5	23.3	87.0 86.0	86.5	6.0 5.9	5.9	0.2	7.5 7.3	7.4	7.0	6.2 6.6	6.4	7.3
					Bottom	5.4	27.1 27.0	27.1	8.1 8.1	8.1	26.1 26.4	26.3	84.4 83.2	83.8	5.8 5.7	5.8	5.8	7.5 7.6	7.6		8.5 8.5	8.5	
27-Jul-16	Sunny	Moderate	12:31		Surface	1.0	28.5 28.0	28.3	8.1 8.1	8.1	24.3 24.7	24.5	89.6 88.2	88.9	6.1 6.0	6.1	5.9	8.6 8.5	8.6		7.1 7.1	7.1	
				6.5	Middle	3.3	26.7 26.6	26.7	8.1 8.1	8.1	26.5 26.5	26.5	81.9 84.1	83.0	5.7 5.8	5.7	5.5	8.7 8.7	8.7	8.7	6.8 6.8	6.8	7.3
					Bottom	5.5	26.5 26.5	26.5	8.1 8.1	8.1	27.0 27.0	27.0	79.9 81.6	80.8	5.5 5.6	5.6	5.6	8.7 8.8	8.8		8.6 7.5	8.1	
29-Jul-16	Sunny	Moderate	15:41		Surface	1.0	29.6 28.4	29.0	8.6 8.6	8.6	19.3 20.5	19.9	116.1 122.6	119.4	7.9 8.4	8.2	8.1	4.6 4.7	4.7		8.4 8.5	8.5	
				6.2	Middle	3.1	27.6 28.1	27.9	8.6 8.6	8.6	23.3 22.0	22.6	112.8 113.9	113.4	7.8 7.9	7.9	0.1	4.8 4.8	4.8	4.8	10.2 11.2	10.7	9.4
					Bottom	5.2	27.6 27.5	27.5	8.6 8.5	8.6	24.5 24.7	24.6	101.8 99.9	100.9	7.0 6.9	7.0	7.0	4.9 4.8	4.9		9.0 8.7	8.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:41		Surface	1.0	29.0 28.9	28.9	8.4 8.4	8.4	19.1 19.4	19.2	86.8 86.2	86.5	6.0 6.0	6.0	5.7	9.7 9.6	9.7		4.8 3.6	4.2	
				8.3	Middle	4.2	26.6 27.6	27.1	8.3 8.3	8.3	26.0 23.6	24.8	80.1 75.8	78.0	5.6 5.3	5.4	5.7	10.5 10.1	10.3	10.1	5.6 5.6	5.6	5.6
					Bottom	7.3	26.0 26.2	26.1	8.3 8.3	8.3	27.9 27.8	27.9	74.4 73.5	74.0	5.2 5.1	5.1	5.1	10.4 10.4	10.4		7.2 6.8	7.0	
4-Jul-16	Sunny	Moderate	11:42		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	18.7 18.7	18.7	76.5 76.7	76.6	5.4 5.4	5.4		14.8 14.5	14.7		12.5 11.6	12.1	
				8.2	Middle	4.1	28.3 28.3	28.3	8.4 8.4	8.4	18.8 18.8	18.8	76.5 76.3	76.4	5.4 5.4	5.4	5.4	14.8 14.7	14.8	14.7	13.0 13.9	13.5	13.1
					Bottom	7.2	28.2	28.3	8.4 8.4	8.4	18.9	18.9	76.5 76.3	76.4	5.4 5.4	5.4	5.4	14.8 14.4	14.6		14.2	13.6	
6-Jul-16	Rainy	Moderate	13:31		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	18.4 18.2	18.3	76.0 76.8	76.4	5.4 5.4	5.4		15.6 15.6	15.6		9.5 8.8	9.2	
				8.3	Middle	4.2	27.9 28.0	28.0	8.3 8.3	8.3	18.7 18.6	18.6	75.8 75.0	75.4	5.4 5.3	5.3	5.4	15.8 15.7	15.8	15.8	10.6 10.5	10.6	10.7
					Bottom	7.3	28.0 28.0	28.0	8.3 8.3	8.3	18.7	18.6	74.8 75.2	75.0	5.3 5.3	5.3	5.3	15.9 16.0	16.0		11.5	12.4	
8-Jul-16	Sunny	Moderate	14:16		Surface	1.0	28.9 28.8	28.9	8.4 8.3	8.4	17.0	17.1	88.6 86.1	87.4	6.2 6.0	6.1		9.4 9.3	9.4		8.5 8.6	8.6	
				8.7	Middle	4.4	28.4 28.4	28.4	8.3 8.3	8.3	18.3	18.3	85.0 86.1	85.6	6.0 6.0	6.0	6.1	11.3 12.0	11.7	10.9	7.8	8.0	8.5
					Bottom	7.7	28.4 28.4	28.4	8.3 8.3	8.3	18.6 19.0	18.8	89.0 87.7	88.4	6.2 6.1	6.2	6.2	11.6 11.3	11.5		8.3 9.5	8.9	
11-Jul-16	Cloudy	Moderate	16:31		Surface	1.0	28.9 28.9	28.9	8.5 8.5	8.5	13.9 13.7	13.8	98.2 99.7	99.0	6.9 7.0	7.0	6.4	7.7 7.9	7.8		7.4 6.8	7.1	
				8.0	Middle	4.0	27.1 26.8	27.0	8.3 8.4	8.4	20.6 20.5	20.6	78.7 81.8	80.3	5.6 5.8	5.7	6.4	7.6 7.8	7.7	7.7	7.4 7.6	7.5	7.6
					Bottom	7.0	26.4 26.5	26.5	8.3 8.3	8.3	24.7 24.8	24.8	71.9 71.6	71.8	5.1 5.1	5.1	5.1	7.7 7.5	7.6		8.5 8.0	8.3	
13-Jul-16	Rainy	Moderate	09:12		Surface	1.0	28.0 27.6	27.8	8.2 8.2	8.2	15.2 17.3	16.2	70.7 76.2	73.5	5.2 5.5	5.4	5.3	10.0 10.4	10.2		5.7 5.8	5.8	
				8.2	Middle	4.1	25.6 25.4	25.5	8.1 8.0	8.1	26.9 27.6	27.3	69.2 69.9	69.6	5.1 5.1	5.1	5.5	10.0 10.1	10.1	10.2	7.5 7.1	7.3	6.8
					Bottom	7.2	25.2 25.6	25.4	8.0 8.1	8.1	28.8 28.6	28.7	65.2 68.1	66.7	4.8 5.0	4.9	4.9	10.5 10.3	10.4		7.4 7.3	7.4	
15-Jul-16	Sunny	Moderate	11:14		Surface	1.0	27.9 28.1	28.0	8.2 8.3	8.2	17.9 17.2	17.6	78.7 77.9	78.3	5.6 5.4	5.5	5.3	6.5 6.8	6.7		6.0 6.0	6.0	
				8.2	Middle	4.1	26.1 25.6	25.9	8.1 8.1	8.1	24.8 26.7	25.7	71.6 72.2	71.9	5.1 5.1	5.1	5.5	6.9 6.8	6.9	6.8	6.2 6.3	6.3	6.1
					Bottom	7.2	25.5 25.4	25.5	8.1 8.1	8.1	28.2 28.3	28.3	71.3 71.1	71.2	5.0 5.0	5.0	5.0	6.6 6.8	6.7		5.3 6.7	6.0	
18-Jul-16	Sunny	Moderate	13:16		Surface	1.0	29.9 29.8	29.8	8.5 8.5	8.5	17.7 17.7	17.7	96.7 91.3	94.0	6.7 6.3	6.5	6.3	7.9 7.8	7.9		7.3 7.3	7.3	
				8.2	Middle	4.1	25.5 25.6	25.5	8.3 8.3	8.3	28.7 28.5	28.6	88.9 88.5	88.7	6.1 6.1	6.1	0.0	7.7 7.8	7.8	7.8	7.0 6.1	6.6	7.5
					Bottom	7.2	25.2 25.1	25.2	8.3 8.3	8.3	31.3 31.3	31.3	74.1 74.4	74.3	5.1 5.2	5.2	5.2	7.7 7.8	7.8		8.6 8.3	8.5	
20-Jul-16	Sunny	Moderate	12:12		Surface	1.0	28.0 28.0	28.0	8.5 8.6	8.5	19.7 19.5	19.6	85.5 87.2	86.4	6.0 6.1	6.0	6.0	13.2 13.5	13.4		13.8 13.1	13.5	
				8.5	Middle	4.3	27.6 27.5	27.5	8.5 8.6	8.5	20.5 20.5	20.5	84.5 84.0	84.3	5.9 5.9	5.9	0.0	13.3 13.3	13.3	13.3	12.4 12.0	12.2	13.3
					Bottom	7.5	27.7 27.3	27.5	8.5 8.6	8.5	21.6 21.8	21.7	82.9 80.8	81.9	5.8 5.7	5.8	5.8	13.4 13.2	13.3		13.7 14.9	14.3	

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Temper	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:12		Surface	1.0	28.1 28.3	28.2	8.5 8.5	8.5	22.7 22.7	22.7	88.0 87.5	87.8	6.1 6.0	6.1	6.0	10.4 10.2	10.3		13.7 13.2	13.5	
				8.5	Middle	4.3	27.7 27.5	27.6	8.5 8.5	8.5	23.4 23.5	23.5	86.9 84.6	85.8	6.0 5.8	5.9	0.0	10.5 10.1	10.3	10.3	13.2 13.5	13.4	13.8
					Bottom	7.5	28.0 27.4	27.7	8.5 8.6	8.5	23.1 23.8	23.4	84.8 82.5	83.7	5.9 5.7	5.8	5.8	10.6 10.2	10.4		14.6 14.5	14.6	
25-Jul-16	Sunny	Moderate	15:26		Surface	1.0	28.8 28.7	28.7	8.1 8.0	8.1	21.8 22.2	22.0	99.3 99.3	99.3	6.9 6.8	6.9	6.8	7.8 7.6	7.7		10.9 11.7	11.3	
				8.4	Middle	4.2	28.0 27.8	27.9	8.0 8.0	8.0	23.0 23.6	23.3	97.0 98.2	97.6	6.6 6.7	6.7	0.0	7.8 7.7	7.8	7.8	13.2 14.4	13.8	12.8
					Bottom	7.4	27.1 27.3	27.2	8.0 8.1	8.1	24.8 25.2	25.0	88.8 91.5	90.2	6.1 6.3	6.2	6.2	7.8 7.7	7.8		13.4 12.9	13.2	
27-Jul-16	Sunny	Moderate	17:30		Surface	1.0	28.6 28.3	28.4	8.1 8.0	8.1	22.8 23.1	22.9	103.9 107.0	105.5	7.1 7.5	7.3	7.0	8.5 8.5	8.5		11.2 12.6	11.9	
				8.7	Middle	4.4	26.8 27.4	27.1	8.0 8.0	8.0	23.9 23.6	23.7	91.6 99.4	95.5	6.5 6.8	6.6	7.0	8.6 8.5	8.6	8.6	12.7 11.8	12.3	12.6
					Bottom	7.7	26.5 26.1	26.3	8.0 8.1	8.1	24.8 24.8	24.8	83.6 82.9	83.3	5.8 5.8	5.8	5.8	8.8 8.6	8.7		14.0 13.4	13.7	
29-Jul-16	Sunny	Moderate	10:21		Surface	1.0	29.3 29.3	29.3	8.5 8.5	8.5	21.4 21.3	21.4	94.7 90.7	92.7	6.4 6.2	6.3	5.8	8.0 7.9	8.0		3.9 5.2	4.6	
				8.1	Middle	4.1	27.0 27.1	27.0	8.5 8.4	8.4	26.0 25.7	25.9	72.3 75.9	74.1	5.0 5.3	5.2	5.0	7.9 7.8	7.9	8.0	5.0 4.6	4.8	5.0
					Bottom	7.1	24.9 24.9	24.9	8.4 8.4	8.4	30.3 30.4	30.4	69.7 69.1	69.4	4.8 4.8	4.8	4.8	7.9 8.2	8.1		5.2 5.7	5.5	<u> </u>

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ture (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Turbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	15:52		Surface	1.0	29.2 29.3	29.2	8.4 8.4	8.4	18.2 18.3	18.3	81.5 83.3	82.4	5.7 5.8	5.7	5.0	11.5 11.3	11.4		10.0 10.5	10.3	
				8.5	Middle	4.3	27.2 27.2	27.2	8.3 8.3	8.3	25.2 24.8	25.0	78.2 79.6	78.9	5.4 5.5	5.5	5.6	11.6 11.5	11.6	11.5	10.2 10.9	10.6	10.4
					Bottom	7.5	26.0 26.0	26.0	8.3 8.3	8.3	28.3 28.2	28.3	73.4 72.5	73.0	5.1 5.0	5.1	5.1	11.2 11.6	11.4		10.4	10.2	
4-Jul-16	Sunny	Moderate	06:55		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	18.7 18.8	18.8	85.0 82.0	83.5	6.0 5.7	5.9		9.4 9.7	9.6		11.2 11.9	11.6	
				8.6	Middle	4.3	28.4 28.4	28.4	8.3 8.3	8.3	18.8 18.9	18.8	83.2 81.4	82.3	5.8 5.7	5.8	5.9	9.4 9.5	9.5	9.6	10.9 11.6	11.3	11.3
					Bottom	7.6	28.3 28.4	28.4	8.4 8.3	8.3	18.9 18.9	18.9	82.7 81.3	82.0	5.8 5.7	5.7	5.7	9.5 9.8	9.7		11.4	11.0	
6-Jul-16	Rainy	Moderate	08:10		Surface	1.0	28.4	28.4	8.2 8.2	8.2	16.9 16.9	16.9	86.1 86.3	86.2	6.1 6.1	6.1		4.3	4.4		4.5	4.6	
				8.5	Middle	4.3	28.4	28.4	8.2 8.2	8.2	17.7	17.4	86.3 86.0	86.2	6.1 6.1	6.1	6.1	4.6 4.5	4.6	4.6	3.8 3.6	3.7	4.4
					Bottom	7.5	28.4 28.5	28.5	8.2 8.2	8.2	18.1 18.3	18.2	86.0 85.9	86.0	6.0 6.0	6.0	6.0	4.7 4.8	4.8		4.9 4.9	4.9	
8-Jul-16	Sunny	Moderate	10:18		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	18.1 18.1	18.1	82.2 81.4	81.8	5.8 5.7	5.7	F 7	5.5 5.6	5.6		6.0 5.5	5.8	
				8.5	Middle	4.3	28.1 28.0	28.1	8.2 8.2	8.2	19.1 19.2	19.2	81.0 78.9	80.0	5.7 5.6	5.6	5.7	6.2 5.8	6.0	5.8	6.6 5.5	6.1	6.2
					Bottom	7.5	27.8 28.3	28.1	8.2 8.2	8.2	20.5 20.6	20.6	81.2 85.0	83.1	5.7 5.9	5.8	5.8	6.0 5.8	5.9		6.4 6.7	6.6	
11-Jul-16	Cloudy	Moderate	11:54		Surface	1.0	28.6 28.5	28.5	8.3 8.3	8.3	17.5 17.6	17.6	85.5 83.3	84.4	6.0 5.8	5.9	5.5	4.5 4.5	4.5		6.1 6.0	6.1	
				8.9	Middle	4.5	27.3 26.5	26.9	8.2 8.2	8.2	22.8 23.8	23.3	71.1 72.6	71.9	5.0 5.1	5.1	5.5	4.5 4.7	4.6	4.6	5.9 4.8	5.4	5.9
					Bottom	7.9	25.9 26.1	26.0	8.1 8.2	8.2	27.7 27.5	27.6	68.6 67.9	68.3	4.8 4.8	4.8	4.8	4.6 4.6	4.6		5.1 7.2	6.2	
13-Jul-16	Rainy	Moderate	12:56		Surface	1.0	27.9 27.8	27.9	8.3 8.3	8.3	16.1 16.4	16.2	76.1 79.5	77.8	5.6 5.9	5.7	5.6	5.6 5.4	5.5		5.1 5.1	5.1	
				8.4	Middle	4.2	25.9 25.6	25.8	8.1 8.1	8.1	25.7 26.8	26.3	76.0 73.4	74.7	5.5 5.3	5.4	0.0	5.5 5.3	5.4	5.4	3.7 6.0	4.9	5.5
					Bottom	7.4	25.7 25.4	25.5	8.1 8.1	8.1	28.2 28.7	28.5	66.7 65.2	66.0	4.9 4.8	4.8	4.8	5.5 5.2	5.4		5.9 7.0	6.5	
15-Jul-16	Sunny	Moderate	15:52		Surface	1.0	28.7 28.6	28.7	8.5 8.5	8.5	16.8 16.8	16.8	85.6 89.7	87.7	6.0 6.2	6.1	6.0	5.4 5.6	5.5		4.5 4.8	4.7	
				8.3	Middle	4.2	26.1 26.3	26.2	8.4 8.4	8.4	24.0 24.3	24.2	82.0 83.3	82.7	5.8 5.9	5.8	0.0	6.3 6.3	6.3	6.0	6.1 6.9	6.5	5.9
					Bottom	7.3	26.1 26.3	26.2	8.4 8.4	8.4	26.3 26.6	26.5	67.7 68.2	68.0	4.8 4.8	4.8	4.8	6.3 6.3	6.3		6.3 6.7	6.5	
18-Jul-16	Sunny	Moderate	17:56		Surface	1.0	29.7 29.6	29.7	8.5 8.4	8.5	17.0 17.3	17.1	104.0 106.1	105.1	7.3 7.4	7.3	6.9	11.1 11.4	11.3		7.1 7.7	7.4	
				8.3	Middle	4.2	26.5 27.1	26.8	8.3 8.4	8.4	22.8 23.1	23.0	95.6 89.0	92.3	6.7 6.2	6.4		11.3 11.5	11.4	11.3	6.8 7.2	7.0	7.4
	-				Bottom	7.3	26.1 26.5	26.3	8.4 8.4	8.4	25.2 25.0	25.1	82.4 87.6	85.0	5.8 6.1	5.9	5.9	11.2 11.4	11.3		7.7 8.0	7.9	
20-Jul-16	Sunny	Moderate	07:16		Surface	1.0	28.0 27.8	27.9	8.4 8.4	8.4	21.8 21.8	21.8	83.8 85.3	84.6	5.8 5.9	5.8	5.8	11.5 11.3	11.4		11.2 11.4	11.3	
				8.7	Middle	4.4	27.8 27.4	27.6	8.4 8.4	8.4	22.0 23.2	22.6	82.2 81.5	81.9	5.7 5.7	5.7		11.6 11.5	11.6	11.4	12.5 11.1	11.8	11.8
					Bottom	7.7	27.7 27.4	27.6	8.4 8.4	8.4	24.6 23.5	24.0	81.5 81.0	81.3	5.7 5.6	5.7	5.7	11.3 11.2	11.3		12.9 11.8	12.4	

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:36		Surface	1.0	28.3 28.4	28.3	8.4 8.4	8.4	21.4 21.5	21.5	91.0 91.2	91.1	6.3 6.3	6.3	6.3	7.8 8.0	7.9		12.3 12.8	12.6	
				8.8	Middle	4.4	27.9 27.9	27.9	8.4 8.4	8.4	22.6 22.5	22.6	89.5 89.8	89.7	6.2 6.2	6.2	0.5	9.6 9.3	9.5	8.9	12.2 13.2	12.7	12.7
					Bottom	7.8	27.9 27.6	27.8	8.3 8.3	8.3	23.9 24.1	24.0	88.5 86.1	87.3	6.1 6.0	6.0	6.0	9.2 9.6	9.4		13.0 12.3	12.7	
25-Jul-16	Sunny	Moderate	11:19		Surface	1.0	28.7 29.1	28.9	8.3 8.2	8.3	23.3 23.0	23.1	106.7 108.4	107.6	7.3 7.4	7.3	6.9	7.3 7.5	7.4		9.2 9.0	9.1	
				8.4	Middle	4.2	27.9 27.7	27.8	8.3 8.3	8.3	24.8 24.3	24.6	94.8 95.4	95.1	6.5 6.5	6.5	0.0	7.4 7.4	7.4	7.5	9.3 9.8	9.6	9.2
					Bottom	7.4	26.7 26.8	26.8	8.3 8.3	8.3	27.2 27.2	27.2	76.3 76.9	76.6	5.2 5.3	5.3	5.3	7.4 7.7	7.6		8.8 8.8	8.8	
27-Jul-16	Sunny	Moderate	13:17		Surface	1.0	27.5 28.3	27.9	8.3 8.2	8.3	25.6 25.0	25.3	87.4 83.1	85.3	6.0 5.8	5.9	5.7	7.6 7.6	7.6		8.0 6.6	7.3	
				8.9	Middle	4.5	27.0 26.8	26.9	8.3 8.3	8.3	26.3 26.2	26.3	79.8 77.4	78.6	5.5 5.4	5.4	5.7	7.7 7.5	7.6	7.7	11.4 11.1	11.3	9.8
					Bottom	7.9	26.1 26.1	26.1	8.3 8.3	8.3	28.1 28.2	28.2	73.0 73.4	73.2	5.0 5.1	5.1	5.1	7.8 7.8	7.8		10.7 11.0	10.9	
29-Jul-16	Sunny	Moderate	14:28		Surface	1.0	30.2 30.3	30.2	8.6 8.7	8.7	20.2 20.0	20.1	149.7 150.2	150.0	10.1 10.1	10.1	9.0	6.8 6.8	6.8		6.4 6.5	6.5	
				8.4	Middle	4.2	27.8 27.3	27.5	8.6 8.5	8.5	23.7 24.2	23.9	119.6 112.7	116.2	8.1 7.6	7.8	3.0	7.5 7.4	7.5	7.3	6.7 8.4	7.6	7.0
					Bottom	7.4	26.6 25.8	26.2	8.5 8.6	8.6	25.8 26.1	25.9	76.1 74.2	75.2	5.3 5.2	5.2	5.2	7.9 7.5	7.7		6.2 7.3	6.8	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ture (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	(mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:22		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	19.5 19.5	19.5	103.4 102.7	103.1	7.1 7.1	7.1	7.4	7.9 8.2	8.1		5.8 6.0	5.9	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	8.2	-	-	7.2
					Bottom	2.1	28.9 28.8	28.9	8.4 8.4	8.4	19.8 19.8	19.8	103.1 102.6	102.9	7.1 7.1	7.1	7.1	8.5 8.1	8.3		8.9 8.0	8.5	1
4-Jul-16	Sunny	Moderate	11:55		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	18.9 18.9	18.9	81.6 81.6	81.6	5.7 5.7	5.7		9.6 9.5	9.6		10.3 11.2	10.8	İ
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	9.7	-	-	10.7
					Bottom	2.3	28.4 28.4	28.4	8.3 8.3	8.3	18.9 18.9	18.9	81.7 81.7	81.7	5.7 5.7	5.7	5.7	9.6 9.7	9.7		10.8 10.2	10.5	1
6-Jul-16	Rainy	Moderate	13:47		Surface	1.0	27.9 27.9	27.9	8.2 8.2	8.2	18.5 18.4	18.4	75.6 75.8	75.7	5.4 5.4	5.4	5.4	11.3 11.4	11.4		12.3 11.7	12.0	
				3.4	Middle	-	-	-		-	-	-		-	-	-	5.4	-	-	11.6	-	-	11.9
					Bottom	2.4	27.9 27.9	27.9	8.2 8.2	8.2	18.5 18.9	18.7	74.1 74.3	74.2	5.2 5.2	5.2	5.2	11.6 11.7	11.7		11.7 11.9	11.8	
8-Jul-16	Sunny	Moderate	14:34		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	17.3 17.3	17.3	108.1 107.4	107.8	7.6 7.5	7.5	7.5	5.2 5.8	5.5		5.6 5.3	5.5	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	5.9	-	-	5.3
					Bottom	2.4	28.8 28.9	28.9	8.4 8.3	8.4	18.7 18.6	18.7	107.7 107.0	107.4	7.5 7.4	7.5	7.5	6.5 5.9	6.2		5.0 4.9	5.0	
11-Jul-16	Cloudy	Moderate	16:48		Surface	1.0	28.8 28.8	28.8	8.5 8.4	8.4	16.6 17.0	16.8	111.4 109.9	110.7	7.8 7.7	7.8	7.8	6.8 6.9	6.9		7.3 7.7	7.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-	6.9	-	-	7.3
					Bottom	2.3	28.7 28.6	28.6	8.4 8.4	8.4	17.6 17.8	17.7	112.1 108.6	110.4	7.9 7.6	7.8	7.8	6.8 6.7	6.8		7.5 6.7	7.1	1
13-Jul-16	Rainy	Moderate	08:53		Surface	1.0	27.9 28.0	28.0	8.2 8.2	8.2	15.2 16.1	15.6	72.7 71.9	72.3	5.2 5.1	5.2	5.0	5.2 5.5	5.4		4.4 4.7	4.6	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	5.4	-	-	4.4
					Bottom	2.3	26.4 27.7	27.1	8.0 8.1	8.1	22.8 20.0	21.4	70.2 72.2	71.2	5.1 5.1	5.1	5.1	5.5 5.3	5.4		3.5 4.7	4.1	
15-Jul-16	Sunny	Moderate	11:00		Surface	1.0	27.8 28.0	27.9	8.2 8.3	8.2	18.2 16.3	17.3	77.5 76.0	76.8	5.5 5.4	5.5		4.5 4.2	4.4		5.6 5.2	5.4	
				3.1	Middle	-	-	-	-	-		-	-	-	-	-	5.5	-	-	4.5		-	5.6
					Bottom	2.1	27.3 27.2	27.2	8.2 8.2	8.2	19.4 20.6	20.0	75.3 72.8	74.1	5.4 5.2	5.3	5.3	4.5 4.4	4.5		5.9 5.6	5.8	
18-Jul-16	Sunny	Moderate	13:03		Surface	1.0	29.4 29.1	29.3	8.4 8.4	8.4	18.2 19.1	18.7	114.5 115.7	115.1	7.9 8.0	7.9		4.7 5.1	4.9		8.0 8.1	8.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	4.9	-	-	7.8
					Bottom	2.2	28.5 29.2	28.9	8.4 8.4	8.4	20.5 19.9	20.2	110.6 113.8	112.2	7.7 7.8	7.7	7.7	4.8 4.8	4.8		7.2 7.7	7.5	1
20-Jul-16	Sunny	Moderate	12:27		Surface	1.0	28.0 27.9	27.9	8.5 8.5	8.5	20.8	20.9	84.4 85.9	85.2	5.9 6.0	5.9		12.1 12.5	12.3		14.6 13.6	14.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	12.4	-	-	14.8
					Bottom	2.2	27.7 27.9	27.8	8.5 8.5	8.5	21.3 21.0	21.2	83.7 85.2	84.5	5.9 5.9	5.9	5.9	12.2 12.6	12.4		15.1 15.9	15.5	1

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:37		Surface	1.0	28.9 29.1	29.0	8.5 8.5	8.5	20.8 20.9	20.8	108.4 102.9	105.7	7.4 7.1	7.2	7.2	7.6 7.6	7.6		9.8 11.1	10.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-	1.2	-	-	7.6	-	-	9.9
					Bottom	2.2	28.3 28.6	28.5	8.4 8.5	8.5	22.4 22.3	22.4	102.4 107.8	105.1	7.0 7.4	7.2	7.2	7.5 7.5	7.5		9.1 9.5	9.3	
25-Jul-16	Sunny	Moderate	15:43		Surface	1.0	28.9 29.0	29.0	8.1 8.1	8.1	22.7 22.6	22.7	113.4 113.7	113.6	7.7 7.7	7.7	7.7	8.6 8.3	8.5		12.8 13.1	13.0	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	7.1	-	-	8.5	-	-	12.5
					Bottom	2.2	28.9 28.9	28.9	8.1 8.1	8.1	22.7 22.7	22.7	113.3 113.5	113.4	7.7 7.7	7.7	7.7	8.5 8.3	8.4		12.2 11.7	12.0	
27-Jul-16	Sunny	Moderate	17:48		Surface	1.0	28.2 28.1	28.2	8.1 8.1	8.1	24.0 24.1	24.0	106.6 102.5	104.6	7.3 7.0	7.1	7.1	7.8 7.9	7.9		11.2 10.5	10.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-		-	7.1	-	-	7.9	-	-	11.5
					Bottom	2.3	27.9 27.7	27.8	8.1 8.1	8.1	24.2 24.3	24.2	104.3 101.9	103.1	7.2 7.0	7.1	7.1	8.0 7.8	7.9		12.0 11.9	12.0	
29-Jul-16	Sunny	Moderate	10:05		Surface	1.0	29.2 29.2	29.2	8.6 8.7	8.7	21.1 21.0	21.1	130.3 132.8	131.6	8.9 9.1	9.0	9.0	6.3 6.2	6.3		4.1 3.7	3.9	
				3.1	Middle	-	-	-	-	-	-	-	-	-		-	3.0	-	-	6.3	-	-	4.2
					Bottom	2.1	29.2 29.2	29.2	8.6 8.6	8.6	22.7 22.3	22.5	132.7 133.2	133.0	9.0 9.0	9.0	9.0	6.4 6.2	6.3		5.4 3.5	4.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)		Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:10		Surface	1.0	28.5 28.7	28.6	8.3 8.3	8.3	21.0 20.7	20.8	83.2 85.9	84.6	5.8 5.9	5.8	5.8	10.4 10.5	10.5		8.7 8.1	8.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	10.5	-	-	9.0
					Bottom	2.3	28.3 28.4	28.3	8.3 8.3	8.3	22.0 22.1	22.0	84.3 83.2	83.8	5.8 5.7	5.8	5.8	10.5 10.3	10.4		9.2 9.9	9.6	
4-Jul-16	Sunny	Moderate	06:38		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	17.7 17.7	17.7	88.9 86.0	87.5	6.2 6.0	6.1	6.1	5.3 5.4	5.4		8.1 8.1	8.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	5.4	-	-	8.8
					Bottom	2.3	28.7 28.5	28.6	8.3 8.3	8.3	17.8 18.0	17.9	87.6 84.6	86.1	6.1 5.9	6.0	6.0	5.3 5.4	5.4		9.9 9.1	9.5	
6-Jul-16	Rainy	Moderate	07:54		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	16.1 16.0	16.1	84.6 84.5	84.6	6.0 6.0	6.0	6.0	4.4 4.3	4.4		3.6 4.7	4.2	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	4.5	-	-	4.1
					Bottom	2.5	28.5 28.4	28.4	8.2 8.2	8.2	18.1 18.1	18.1	84.7 84.6	84.7	6.0 6.0	6.0	6.0	4.6 4.6	4.6		3.2 4.6	3.9	
8-Jul-16	Sunny	Moderate	10:00		Surface	1.0	28.6 28.5	28.5	8.2 8.2	8.2	17.3 17.4	17.4	93.2 93.0	93.1	6.6 6.6	6.6	6.6	4.5 4.7	4.6		7.0 7.6	7.3	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.7	-	-	7.3
					Bottom	2.5	28.4 28.5	28.5	8.2 8.2	8.2	17.8 17.7	17.8	93.3 93.1	93.2	6.6 6.6	6.6	6.6	4.8 4.6	4.7		7.5 7.1	7.3	
11-Jul-16	Cloudy	Moderate	11:40		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	18.1 17.8	17.9	83.5 83.3	83.4	5.9 5.9	5.9	5.9	7.1 7.0	7.1		8.3 8.4	8.4	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	7.4	-	-	8.5
					Bottom	2.4	28.2 28.2	28.2	8.2 8.2	8.2	18.5 18.8	18.6	83.2 84.4	83.8	5.9 5.9	5.9	5.9	7.6 7.7	7.7		8.4 8.7	8.6	
13-Jul-16	Rainy	Moderate	13:12		Surface	1.0	28.0 28.1	28.1	8.3 8.3	8.3	14.6 14.4	14.5	85.6 86.8	86.2	6.1 6.3	6.2	6.2	4.3 4.1	4.2		6.2 6.1	6.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	4.3	-	-	6.3
					Bottom	2.2	27.9 27.2	27.6	8.2 8.1	8.2	17.2 20.0	18.6	78.8 79.7	79.3	5.7 5.7	5.7	5.7	4.3 4.2	4.3		6.7 5.9	6.3	
15-Jul-16	Sunny	Moderate	16:08		Surface	1.0	28.9 29.0	29.0	8.5 8.5	8.5	17.1 17.0	17.0	111.2 118.2	114.7	7.8 8.3	8.0	8.0	6.6 6.6	6.6		5.5 5.0	5.3	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.6	-	-	5.0
					Bottom	2.4	28.8 28.1	28.5	8.5 8.5	8.5	18.4 18.9	18.7	115.6 110.6	113.1	8.1 7.8	7.9	7.9	6.5 6.6	6.6		5.0 4.3	4.7	
18-Jul-16	Sunny	Moderate	18:15		Surface	1.0	29.9 30.1	30.0	8.4 8.4	8.4	17.8 17.8	17.8	131.2 132.6	131.9	8.7 8.8	8.7	0.7	9.5 9.6	9.6		9.3 10.1	9.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-	9.5	-	-	9.7
					Bottom	2.2	28.7 29.6	29.2	8.4 8.4	8.4	19.5 19.1	19.3	125.1 124.5	124.8	8.3 8.2	8.2	8.2	9.5 9.3	9.4		9.0 10.1	9.6	
20-Jul-16	Sunny	Moderate	07:00		Surface	1.0	28.0 28.1	28.1	8.4 8.4	8.4	21.6 21.6	21.6	94.2 94.6	94.4	6.5 6.6	6.6		7.9 7.8	7.9		9.9 10.3	10.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	7.9	-	-	9.6
					Bottom	2.2	28.1 28.0	28.0	8.4 8.4	8.4	21.7 21.8	21.7	94.4 94.9	94.7	6.5 6.6	6.6	6.6	7.8 7.8	7.8		8.4 9.8	9.1	1

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	эΗ	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:23		Surface	1.0	28.4 28.5	28.4	8.4 8.4	8.4	21.2 21.1	21.2	99.0 100.1	99.6	6.8 6.9	6.9	6.9	5.7 5.5	5.6		7.3 7.6	7.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-		-	0.9	-	-	5.6	-	-	7.5
					Bottom	2.3	28.4 28.4	28.4	8.4 8.4	8.4	21.5 21.5	21.5	99.6 97.9	98.8	6.9 6.8	6.8	6.8	5.6 5.5	5.6		7.5 7.5	7.5	
25-Jul-16	Sunny	Moderate	10:59		Surface	1.0	28.2 28.5	28.4	8.1 8.1	8.1	22.7 22.6	22.6	92.3 92.3	92.3	6.4 6.3	6.3	6.3	8.4 8.2	8.3		5.9 5.9	5.9	
				3.3	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	8.4	-	-	5.7
					Bottom	2.3	28.0 28.2	28.1	8.1 8.1	8.1	24.1 23.7	23.9	90.4 92.4	91.4	6.2 6.3	6.2	6.2	8.4 8.5	8.5		5.9 4.8	5.4	
27-Jul-16	Sunny	Moderate	12:59		Surface	1.0	28.2 28.1	28.1	8.1 8.1	8.1	24.8 24.9	24.9	118.6 117.4	118.0	8.1 8.0	8.0	8.0	12.3 12.5	12.4		17.4 17.5	17.5	
				3.4	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	12.4	-	-	17.3
					Bottom	2.4	27.8 28.1	27.9	8.1 8.1	8.1	25.6 25.1	25.3	109.1 110.0	109.6	7.4 7.5	7.5	7.5	12.2 12.4	12.3		16.2 18.0	17.1	
29-Jul-16	Sunny	Moderate	15:03		Surface	1.0	30.3 30.3	30.3	8.7 8.7	8.7	20.1 20.3	20.2	178.1 175.1	176.6	12.0 11.7	11.9	11.9	7.3 7.5	7.4		8.0 9.8	8.9	
				3.1	Middle	-	-	-	-	-	-	-	-	-		-	11.5	-	-	7.5	-	-	10.2
					Bottom	2.1	30.3 30.3	30.3	8.7 8.7	8.7	20.4 20.3	20.3	168.6 170.2	169.4	11.3 11.4	11.4	11.4	7.7 7.5	7.6		11.7 11.0	11.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Turbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:58		Surface	1.0	28.7 28.8	28.8	8.4 8.4	8.4	19.3 19.2	19.2	100.6 100.3	100.5	7.0 7.0	7.0	7.0	4.1 4.1	4.1		3.7 3.7	3.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	4.1	-	-	4.9
					Bottom	3.1	28.8 28.7	28.7	8.4 8.4	8.4	19.3 19.5	19.4	100.7 99.8	100.3	7.0 6.9	7.0	7.0	3.9 4.0	4.0		6.2 6.0	6.1	
4-Jul-16	Sunny	Moderate	12:17		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	17.9 17.9	17.9	97.4 97.0	97.2	6.8 6.8	6.8	6.8	4.4 4.4	4.4		7.0 7.1	7.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.4	-	-	7.2
					Bottom	3.1	28.8 28.8	28.8	8.4 8.4	8.4	18.0 18.0	18.0	97.4 98.4	97.9	6.8 6.9	6.8	6.8	4.4 4.4	4.4		6.9 7.6	7.3	
6-Jul-16	Rainy	Moderate	14:10		Surface	1.0	28.2 28.3	28.2	8.2 8.2	8.2	17.2 17.3	17.3	83.8 83.5	83.7	5.9 5.9	5.9	5.9	4.5 4.4	4.5		5.0 5.5	5.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	4.7	-	-	5.4
					Bottom	2.7	28.4 28.1	28.2	8.2 8.2	8.2	17.7 19.1	18.4	81.8 82.9	82.4	5.8 5.9	5.8	5.8	4.8 4.7	4.8		5.6 5.2	5.4	
8-Jul-16	Sunny	Moderate	15:01		Surface	1.0	29.3 29.1	29.2	8.4 8.4	8.4	17.3 17.4	17.3	104.8 104.5	104.7	7.3 7.3	7.3	7.3	4.8 4.8	4.8		3.8 5.0	4.4	
				3.7	Middle	1	-	-	-	-	-	-		-	-	-	7.5	-	-	4.8	-	-	4.4
					Bottom	2.7	28.9 28.7	28.8	8.4 8.4	8.4	18.6 18.5	18.6	105.0 105.8	105.4	7.3 7.4	7.3	7.3	5.0 4.5	4.8		3.3 5.3	4.3	
11-Jul-16	Cloudy	Moderate	17:12		Surface	1.0	28.5 28.4	28.5	8.4 8.4	8.4	18.1 18.2	18.2	96.7 93.8	95.3	6.8 6.6	6.7	6.7	5.2 5.0	5.1		6.1 5.7	5.9	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	5.2	-	-	6.1
					Bottom	2.9	27.9 28.1	28.0	8.4 8.4	8.4	20.4 20.5	20.4	101.2 97.2	99.2	7.1 6.8	6.9	6.9	5.1 5.4	5.3		6.2 6.2	6.2	
13-Jul-16	Rainy	Moderate	08:27		Surface	1.0	27.9 28.0	27.9	8.2 8.2	8.2	15.2 14.6	14.9	80.9 78.2	79.6	5.7 5.5	5.6	5.6	7.8 7.9	7.9		5.1 4.3	4.7	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.9	-	-	5.0
					Bottom	3.0	27.9 27.9	27.9	8.1 8.1	8.1	19.9 19.7	19.8	76.9 75.9	76.4	5.5 5.5	5.5	5.5	7.9 7.9	7.9		5.3 5.0	5.2	
15-Jul-16	Sunny	Moderate	10:34		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	15.8 16.4	16.1	83.8 83.6	83.7	6.0 5.9	6.0	6.0	6.5 6.6	6.6		3.7 3.2	3.5	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.6	-	-	3.6
					Bottom	3.0	27.6 28.0	27.8	8.2 8.3	8.3	19.2 18.9	19.1	80.9 81.8	81.4	5.7 5.8	5.8	5.8	6.6 6.4	6.5		3.3 4.1	3.7	
18-Jul-16	Sunny	Moderate	12:36		Surface	1.0	30.0 29.9	29.9	8.4 8.5	8.5	17.8 18.0	17.9	114.8 115.2	115.0	8.0 8.0	8.0	8.0	6.2 6.1	6.2		8.4 8.5	8.5	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	2.0	-	-	6.3	-	-	8.1
					Bottom	3.1	27.8 28.0	27.9	8.4 8.4	8.4	22.2 22.6	22.4	105.0 112.4	108.7	7.2 7.7	7.5	7.5	6.4 6.1	6.3		7.3 7.8	7.6	
20-Jul-16	Sunny	Moderate	12:53		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	20.5 20.5	20.5	107.2 102.5	104.9	7.5 7.2	7.3	7.3	8.4 8.1	8.3		8.6 8.3	8.5	
				4.1	Middle	-	-	-	-	-	-	-		-	-	-	1.0	-	-	8.3	-	-	8.7
					Bottom	3.1	28.5 27.4	27.9	8.4 8.4	8.4	21.8 22.6	22.2	106.2 101.5	103.9	7.3 7.1	7.2	7.2	8.2 8.3	8.3		8.8 8.7	8.8	

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:00		Surface	1.0	28.7 28.9	28.8	8.6 8.6	8.6	20.7 20.7	20.7	125.5 119.2	122.4	8.6 8.2	8.4	8.4	8.2 8.4	8.3		8.6 8.6	8.6	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	8.4	-	-	9.2
					Bottom	2.9	28.4 28.8	28.6	8.5 8.5	8.5	23.5 23.2	23.4	119.9 120.4	120.2	8.3 8.2	8.2	8.2	8.2 8.6	8.4		9.5 9.8	9.7	
25-Jul-16	Sunny	Moderate	16:02		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	22.0 21.9	21.9	96.2 97.3	96.8	6.6 6.7	6.7	6.7	4.9 4.8	4.9		4.4 4.1	4.3	
				4.1	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	4.9	-	-	5.2
					Bottom	3.1	28.0 27.8	27.9	8.1 8.1	8.1	24.0 24.1	24.0	96.4 95.2	95.8	6.6 6.5	6.6	6.6	4.9 4.8	4.9		5.6 6.5	6.1	
27-Jul-16	Sunny	Moderate	18:11		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	23.6 23.5	23.5	105.9 105.6	105.8	7.3 7.3	7.3	7.3	7.8 7.7	7.8		9.2 9.2	9.2	
				3.9	Middle	-		-		-		-		-	-	-	7.5	-	-	7.9	-	-	9.1
					Bottom	2.9	27.1 27.9	27.5	8.1 8.1	8.1	25.2 24.3	24.7	106.3 105.1	105.7	7.3 7.3	7.3	7.3	7.9 7.9	7.9		9.0 9.0	9.0	
29-Jul-16	Sunny	Moderate	09:39		Surface	1.0	29.0 28.9	29.0	8.6 8.5	8.6	21.6 21.8	21.7	132.0 131.2	131.6	9.0 8.9	9.0	9.0	7.1 7.0	7.1		4.8 5.9	5.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	7.2	-	-	4.9
					Bottom	2.7	28.6 28.9	28.7	8.5 8.6	8.5	22.8 22.4	22.6	121.7 122.3	122.0	8.3 8.4	8.3	8.3	7.1 7.2	7.2		4.1 4.7	4.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)		Furbidity(NT	J)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:32		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	19.6 19.6	19.6	108.8 108.6	108.7	7.5 7.5	7.5	7.5	6.5 6.6	6.6		4.2 5.1	4.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.6	-	-	5.0
					Bottom	3.1	29.0 28.8	28.9	8.5 8.5	8.5	20.6 20.3	20.5	109.2 111.0	110.1	7.5 7.7	7.6	7.6	6.5 6.6	6.6		4.6 5.7	5.2	
4-Jul-16	Sunny	Moderate	06:15		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	17.7 17.7	17.7	87.3 87.6	87.5	6.1 6.2	6.1	6.1	5.5 5.3	5.4		4.6 4.9	4.8	
				4.0	Middle	I	-	-		-		-		-	-	-	0.1	-	-	5.4	-	-	5.5
					Bottom	3.0	28.6 28.6	28.6	8.3 8.3	8.3	19.4 19.5	19.4	88.2 87.8	88.0	6.1 6.1	6.1	6.1	5.4 5.3	5.4		5.8 6.4	6.1	
6-Jul-16	Rainy	Moderate	07:33		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	17.4 16.7	17.1	82.6 83.8	83.2	5.9 5.9	5.9	5.9	7.1 7.2	7.2		3.9 4.2	4.1	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	7.3	-	-	4.4
					Bottom	2.8	28.4 28.4	28.4	8.2 8.2	8.2	18.4 18.0	18.2	81.7 81.7	81.7	5.7 5.8	5.8	5.8	7.3 7.4	7.4		4.7 4.4	4.6	
8-Jul-16	Sunny	Moderate	09:25		Surface	1.0	28.4 28.5	28.5	8.1 8.1	8.1	16.5 16.3	16.4	77.6 82.4	80.0	5.5 5.8	5.7	5.7	7.4 7.9	7.7		6.2 6.6	6.4	
				3.7	Middle	1	-	-		-		-		-	-	-	5.7	-	-	8.0	-	-	6.2
					Bottom	2.7	28.2 28.3	28.3	8.1 8.1	8.1	17.7 17.8	17.7	80.3 78.8	79.6	5.7 5.6	5.6	5.6	8.0 8.5	8.3		6.8 5.2	6.0	
11-Jul-16	Cloudy	Moderate	11:16		Surface	1.0	27.8 27.8	27.8	8.1 8.1	8.1	19.4 19.3	19.3	79.5 75.5	77.5	5.6 5.3	5.5	5.5	6.8 6.8	6.8		7.3 7.1	7.2	
				4.1	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	6.9	-	-	6.9
					Bottom	3.1	27.8 27.7	27.8	8.1 8.1	8.1	19.2 19.9	19.6	74.8 76.3	75.6	5.3 5.4	5.3	5.3	6.9 6.9	6.9		6.5 6.7	6.6	
13-Jul-16	Rainy	Moderate	13:36		Surface	1.0	28.4 28.0	28.2	8.3 8.2	8.3	15.1 15.5	15.3	77.7 81.6	79.7	5.6 5.8	5.7	5.7	10.8 10.5	10.7		5.9 5.5	5.7	
				4.0	Middle	-	-	-	-	-		-	-	-	-	-	0.7	-	-	10.6	-	-	5.9
					Bottom	3.0	28.1 27.4	27.8	8.2 8.1	8.2	20.0 22.4	21.2	80.7 75.9	78.3	5.7 5.3	5.5	5.5	10.4 10.3	10.4		5.4 6.7	6.1	
15-Jul-16	Sunny	Moderate	16:33		Surface	1.0	29.5 29.6	29.6	8.5 8.5	8.5	16.7 16.7	16.7	117.0 116.5	116.8	8.2 8.1	8.1	8.1	12.6 12.1	12.4		12.9 12.3	12.6	
				4.2	Middle	-	-	-		-		-		-	-	-	0.1	-	-	12.7	-	-	12.6
					Bottom	3.2	29.2 28.3	28.7	8.5 8.5	8.5	17.9 19.2	18.6	115.3 111.2	113.3	8.0 7.7	7.9	7.9	13.5 12.5	13.0		13.0 12.1	12.6	
18-Jul-16	Sunny	Moderate	18:38		Surface	1.0	29.5 29.5	29.5	8.5 8.5	8.5	18.1 18.0	18.0	146.4 145.1	145.8	10.1 10.0	10.1	10.1	13.3 13.2	13.3		11.0 10.8	10.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	10.1	-	-	13.2	-	-	11.4
					Bottom	3.2	28.9 28.8	28.8	8.4 8.4	8.4	19.6 19.5	19.6	139.6 137.2	138.4	9.6 9.5	9.6	9.6	13.1 13.0	13.1		12.2 11.6	11.9	
20-Jul-16	Sunny	Moderate	06:37		Surface	1.0	27.9 28.0	28.0	8.4 8.4	8.4	20.2 20.2	20.2	90.2 89.2	89.7	6.3 6.2	6.3	6.3	5.8 5.9	5.9		5.9 6.2	6.1	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	6.0	-	-	7.8
					Bottom	2.9	27.8 27.6	27.7	8.4 8.4	8.4	21.2 21.8	21.5	89.8 89.1	89.5	6.3 6.2	6.2	6.2	6.1 5.9	6.0		9.0 9.9	9.5	1

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	Ig	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:01		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	20.1 20.5	20.3	86.8 84.9	85.9	6.0 5.9	6.0	6.0	4.7 4.8	4.8		4.0 4.1	4.1	
				4.0	Middle	-	-	-		-	-	-		-	-	-	0.0	-	-	4.8	-	-	4.3
					Bottom	3.0	28.2 27.9	28.1	8.3 8.3	8.3	21.1 21.6	21.4	84.6 85.1	84.9	5.9 5.9	5.9	5.9	4.9 4.7	4.8		4.7 4.2	4.5	
25-Jul-16	Sunny	Moderate	10:36		Surface	1.0	28.2 28.3	28.2	8.1 8.1	8.1	22.6 22.6	22.6	90.2 89.4	89.8	6.2 6.1	6.2	6.2	11.3 11.4	11.4		7.0 6.6	6.8	
				4.1	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	11.4	-	-	7.4
					Bottom	3.1	27.8 28.2	28.0	8.0 8.0	8.0	23.6 23.4	23.5	88.9 90.4	89.7	6.1 6.2	6.2	6.2	11.5 11.2	11.4		7.6 8.1	7.9	
27-Jul-16	Sunny	Moderate	12:37		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	24.7 24.7	24.7	102.7 103.3	103.0	7.0 7.1	7.1	7.1	12.4 12.3	12.4		11.2 13.3	12.3	
				3.9	Middle	-	-	-		-	-	-		-	-	-	7.1	-	-	12.4	-	-	12.5
					Bottom	2.9	27.6 27.5	27.6	8.0 8.0	8.0	25.1 25.7	25.4	101.4 102.2	101.8	7.0 7.0	7.0	7.0	12.5 12.2	12.4		13.3 11.8	12.6	
29-Jul-16	Sunny	Moderate	15:32		Surface	1.0	29.5 29.5	29.5	8.7 8.7	8.7	19.7 20.1	19.9	145.1 146.1	145.6	9.9 10.0	10.0	10.0	18.4 18.3	18.4		23.8 22.0	22.9	
				4.0	Middle	-	-	-		-	-	-	-	-	-	-	10.0	-	-	18.4	-	-	22.5
					Bottom	3.0	29.5 29.3	29.4	8.7 8.5	8.6	20.3 20.7	20.5	146.4 148.1	147.3	10.0 10.1	10.0	10.0	18.2 18.5	18.4		21.9 22.0	22.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ţ	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Turbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:45		Surface	1.0	28.5 28.6	28.5	8.4 8.3	8.4	18.0 17.9	17.9	79.5 76.6	78.1	5.5 5.4	5.4	5.4	6.0 6.1	6.1		4.1 3.4	3.8	
				10.4	Middle	5.2	27.6 27.7	27.6	8.3 8.3	8.3	20.2 19.8	20.0	76.4 77.2	76.8	5.2 5.4	5.3	5.4	6.5 6.5	6.5	6.4	5.2 4.1	4.7	4.0
					Bottom	9.4	27.2 27.8	27.5	8.3 8.3	8.3	24.3 24.3	24.3	75.6 74.2	74.9	5.3 5.2	5.3	5.3	6.6 6.6	6.6		3.6 3.2	3.4	
4-Jul-16	Sunny	Moderate	12:31		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	18.8 18.8	18.8	81.4 80.8	81.1	5.7 5.6	5.7		5.5 5.5	5.5		5.5 6.1	5.8	
				10.2	Middle	5.1	28.3 27.6	28.0	8.3 8.3	8.3	19.7 20.0	19.9	75.5 74.4	75.0	5.3 5.2	5.2	5.5	5.4 5.6	5.5	5.5	6.1 6.5	6.3	6.1
					Bottom	9.2	27.0 27.2	27.1	8.3 8.3	8.3	25.2 23.6	24.4	75.5 72.0	73.8	5.2 5.1	5.2	5.2	5.5 5.5	5.5		6.2 6.4	6.3	
6-Jul-16	Rainy	Moderate	14:25		Surface	1.0	27.9 27.8	27.9	8.2 8.2	8.2	18.3 18.8	18.6	75.2 74.9	75.1	5.3 5.3	5.3		4.9 4.9	4.9		3.9 4.3	4.1	
				11.1	Middle	5.6	27.9	27.8	8.2 8.2	8.2	18.4 20.2	19.3	74.7	74.5	5.3 5.3	5.3	5.3	5.1 5.0	5.1	5.1	4.6	4.8	5.1
					Bottom	10.1	27.9 27.7	27.8	8.2 8.2	8.2	19.7 19.8	19.8	74.6 74.3	74.5	5.3 5.2	5.2	5.2	5.2 5.3	5.3		6.4 6.4	6.4	
8-Jul-16	Sunny	Moderate	15:24		Surface	1.0	28.3 28.9	28.6	8.3 8.3	8.3	17.7 17.1	17.4	79.1 80.9	80.0	5.6 5.7	5.6	5.5	4.4 4.1	4.3		4.3 5.1	4.7	
				10.5	Middle	5.3	26.9 26.6	26.7	8.2 8.3	8.2	23.1 21.0	22.0	75.1 75.5	75.3	5.3 5.3	5.3	5.5	6.2 5.8	6.0	5.9	4.4 4.8	4.6	4.5
					Bottom	9.5	26.5 26.3	26.4	8.2 8.2	8.2	24.8 25.4	25.1	72.3 72.8	72.6	5.1 5.1	5.1	5.1	7.5 7.0	7.3		4.0 4.6	4.3	
11-Jul-16	Cloudy	Moderate	17:27		Surface	1.0	28.8 28.8	28.8	8.5 8.4	8.5	13.5 13.5	13.5	81.4 81.2	81.3	5.8 5.8	5.8	5.5	4.4 4.6	4.5		3.7 4.1	3.9	
				9.6	Middle	4.8	28.0 27.9	28.0	8.4 8.3	8.3	19.0 18.8	18.9	73.0 75.9	74.5	5.1 5.3	5.2	5.5	4.5 4.5	4.5	4.5	3.6 3.4	3.5	3.7
					Bottom	8.6	25.0 25.2	25.1	8.3 8.2	8.2	29.8 29.8	29.8	68.4 70.1	69.3	4.8 5.0	4.9	4.9	4.5 4.6	4.6		3.6 3.9	3.8	
13-Jul-16	Rainy	Moderate	08:13		Surface	1.0	27.6 27.9	27.8	8.2 8.2	8.2	15.7 15.8	15.8	72.9 73.8	73.4	5.3 5.4	5.3	5.3	4.2 4.1	4.2		5.0 4.8	4.9	
				10.4	Middle	5.2	25.5 26.0	25.7	8.0 8.1	8.1	25.1 25.1	25.1	72.9 72.4	72.7	5.2 5.2	5.2	5.5	4.3 4.2	4.3	4.3	4.8 4.5	4.7	4.9
					Bottom	9.4	24.7 24.9	24.8	8.0 8.0	8.0	30.2 30.1	30.1	68.0 66.1	67.1	5.0 4.8	4.9	4.9	4.3 4.4	4.4		4.7 5.7	5.2	
15-Jul-16	Sunny	Moderate	10:19		Surface	1.0	28.0 28.2	28.1	8.3 8.3	8.3	15.9 14.8	15.4	76.1 74.0	75.1	5.5 5.3	5.4	5.3	4.1 4.0	4.1		3.8 3.7	3.8	
				10.7	Middle	5.4	25.8 25.8	25.8	8.1 8.1	8.1	24.5 24.9	24.7	75.9 74.9	75.4	5.2 5.2	5.2	0.0	4.2 4.2	4.2	4.2	4.8 3.6	4.2	4.6
					Bottom	9.7	24.0 24.8	24.4	8.0 8.1	8.1	32.5 31.9	32.2	71.3 74.3	72.8	5.0 5.1	5.1	5.1	4.2 4.5	4.4		6.3 5.2	5.8	
18-Jul-16	Sunny	Moderate	12:21		Surface	1.0	28.5 28.6	28.6	8.4 8.4	8.4	18.6 18.4	18.5	80.5 80.5	80.5	5.6 5.6	5.6	5.4	5.5 5.4	5.5		3.6 3.5	3.6	
				10.7	Middle	5.4	27.5 27.5	27.5	8.3 8.4	8.3	21.6 21.3	21.4	75.7 74.9	75.3	5.2 5.1	5.2	-	5.7 5.6	5.7	5.6	4.7 5.8	5.3	5.0
					Bottom	9.7	25.8 26.4	26.1	8.2 8.3	8.3	30.5 28.5	29.5	69.0 69.0	69.0	4.8 4.7	4.8	4.8	5.5 5.6	5.6		5.6 6.4	6.0	
20-Jul-16	Sunny	Moderate	13:08		Surface	1.0	28.3 28.1	28.2	8.5 8.5	8.5	20.0 20.1	20.0	82.8 83.7	83.3	5.8 5.8	5.8	5.7	6.9 6.6	6.8		8.0 8.2	8.1	
				10.1	Middle	5.1	26.7 26.5	26.6	8.5 8.4	8.5	24.2 25.0	24.6	78.4 81.4	79.9	5.5 5.7	5.6		7.4 7.5	7.5	7.2	9.8 9.0	9.4	8.9
					Bottom	9.1	26.4 26.5	26.4	8.5 8.4	8.5	26.4 25.9	26.2	74.4 77.7	76.1	5.2 5.4	5.3	5.3	7.3 7.2	7.3		10.0 8.6	9.3	

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:15		Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	22.8 22.7	22.7	90.0 83.8	86.9	6.3 5.9	6.1	6.0	6.5 6.7	6.6		7.9 7.8	7.9	
				9.4	Middle	4.7	26.1 26.8	26.4	8.4 8.4	8.4	26.6 25.9	26.3	82.2 81.6	81.9	5.8 5.7	5.8	0.0	8.2 8.1	8.2	7.7	8.8 8.5	8.7	9.5
					Bottom	8.4	25.3 25.2	25.3	8.4 8.3	8.4	30.8 31.0	30.9	76.1 75.9	76.0	5.3 5.4	5.3	5.3	8.2 8.1	8.2		11.0 12.5	11.8	
25-Jul-16	Sunny	Moderate	16:17		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	22.6 22.5	22.6	85.8 84.6	85.2	5.9 5.8	5.9	5.8	5.4 5.6	5.5		6.0 6.7	6.4	
				10.7	Middle	5.4	27.1 27.1	27.1	8.0 8.0	8.0	25.9 25.5	25.7	81.2 83.1	82.2	5.6 5.7	5.7	5.0	5.5 5.6	5.6	5.6	5.8 5.5	5.7	6.2
					Bottom	9.7	25.6 25.6	25.6	8.0 8.0	8.0	30.3 30.3	30.3	75.4 75.5	75.5	5.2 5.2	5.2	5.2	5.6 5.5	5.6		6.8 6.4	6.6	
27-Jul-16	Sunny	Moderate	18:24		Surface	1.0	28.2 28.2	28.2	8.0 8.0	8.0	23.3 23.2	23.3	86.5 92.3	89.4	6.0 6.3	6.2	6.0	6.8 6.6	6.7		7.0 8.5	7.8	
				9.7	Middle	4.9	25.9 26.6	26.3	8.0 8.0	8.0	26.7 25.9	26.3	83.9 83.5	83.7	5.9 5.8	5.8	0.0	6.9 6.5	6.7	6.7	9.0 8.9	9.0	8.7
					Bottom	8.7	25.7 25.4	25.6	8.0 8.0	8.0	27.9 28.2	28.1	82.5 74.4	78.5	5.7 5.2	5.4	5.4	6.8 6.8	6.8		9.4 9.4	9.4	
29-Jul-16	Sunny	Moderate	09:26		Surface	1.0	28.7 28.6	28.6	8.5 8.5	8.5	19.8 20.1	20.0	92.1 93.9	93.0	6.4 6.5	6.5	6.2	3.8 3.8	3.8		3.8 3.6	3.7	
				9.6	Middle	4.8	27.8 28.0	27.9	8.4 8.4	8.4	23.2 23.0	23.1	83.3 85.0	84.2	5.8 5.9	5.8	0.2	5.2 5.3	5.3	4.9	4.8 3.6	4.2	4.0
					Bottom	8.6	26.1 26.0	26.1	8.3 8.3	8.3	28.5 28.5	28.5	80.8 80.0	80.4	5.6 5.5	5.6	5.6	5.6 5.4	5.5		4.4 3.8	4.1	<u> </u>

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:45		Surface	1.0	28.8 28.7	28.7	8.4 8.5	8.4	17.7 17.6	17.6	89.0 85.8	87.4	6.2 6.0	6.1	6.0	6.7 6.2	6.5		3.0 4.2	3.6	
				10.5	Middle	5.3	28.1 27.8	27.9	8.4 8.4	8.4	20.3 21.2	20.7	82.3 86.6	84.5	5.7 6.0	5.8	6.0	6.3 6.5	6.4	6.4	4.2 5.1	4.7	4.3
					Bottom	9.5	27.1 27.1	27.1	8.3 8.3	8.3	25.2 25.2	25.2	79.9 82.9	81.4	5.6 5.8	5.7	5.7	6.2 6.4	6.3		4.2 4.8	4.5	
4-Jul-16	Sunny	Moderate	06:03		Surface	1.0	28.1 28.0	28.1	8.4 8.4	8.4	19.4 19.6	19.5	73.5 77.2	75.4	5.1 5.4	5.3		7.9 8.1	8.0		6.9 6.9	6.9	
				10.1	Middle	5.1	26.6 26.4	26.5	8.3 8.3	8.3	25.4 25.9	25.7	74.5 73.2	73.9	5.2 5.1	5.2	5.3	8.7 8.5	8.6	8.4	7.6	7.5	7.1
					Bottom	9.1	25.9 26.2	26.1	8.3 8.3	8.3	27.7	27.7	73.7	72.7	5.1 5.0	5.1	5.1	8.5 8.4	8.5		6.6 6.9	6.8	
6-Jul-16	Rainy	Moderate	07:21		Surface	1.0	28.0 28.2	28.1	8.1 8.1	8.1	18.6 17.4	18.0	80.4 79.2	79.8	5.6 5.6	5.6		2.5 2.4	2.5		4.3 3.5	3.9	
				11.3	Middle	5.7	28.0 27.8	27.9	8.0 8.1	8.1	19.0 19.8	19.4	78.6	78.2	5.5 5.5	5.5	5.6	2.6	2.6	2.7	4.2	4.4	3.8
					Bottom	10.3	27.9 28.1	28.0	8.1 8.0	8.0	21.4	20.5	76.3 76.8	76.6	5.4 5.4	5.4	5.4	2.8	2.9		3.3	3.2	
8-Jul-16	Sunny	Moderate	08:57		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	16.8 16.8	16.8	76.9 78.9	77.9	5.5 5.7	5.6		3.5 3.6	3.6		4.0	4.3	
				10.8	Middle	5.4	27.3 27.2	27.3	8.0 8.0	8.0	21.1 21.3	21.2	73.6 75.2	74.4	5.3 5.4	5.3	5.5	3.2 3.3	3.3	3.5	5.0 4.4	4.7	4.8
					Bottom	9.8	27.0 27.0	27.0	8.0 8.0	8.0	23.6 23.5	23.6	75.7	76.8	5.4	5.5	5.5	3.5 3.6	3.6		5.2	5.4	
11-Jul-16	Cloudy	Moderate	11:03		Surface	1.0	28.2	28.2	8.2 8.2	8.2	17.4 17.5	17.5	74.7	74.1	5.3 5.2	5.2		3.7 3.7	3.7		2.5 4.1	3.3	1
				10.4	Middle	5.2	28.1 28.0	28.0	8.1 8.1	8.1	19.0 19.0	19.0	71.8 72.1	72.0	5.0 5.1	5.0	5.1	3.8 3.5	3.7	3.7	3.8	4.4	3.7
					Bottom	9.4	26.0 26.1	26.1	8.0 8.0	8.0	26.0 25.8	25.9	71.0	69.6	5.0 4.8	4.9	4.9	3.6 3.5	3.6		3.8 3.0	3.4	
13-Jul-16	Rainy	Moderate	13:51		Surface	1.0	28.0 27.9	27.9	8.3 8.2	8.3	16.1 17.2	16.6	82.5 84.3	83.4	6.0 6.1	6.0		4.8	4.9		4.0 5.5	4.8	
				10.7	Middle	5.4	26.1 25.9	26.0	8.1 8.1	8.1	23.4	23.1	73.2 82.5	77.9	5.2 5.8	5.5	5.8	4.9	4.9	4.9	7.3	7.0	5.8
					Bottom	9.7	25.9 25.3	25.6	8.1 8.1	8.1	28.1 29.9	29.0	73.7 70.5	72.1	5.4 5.1	5.2	5.2	4.8 4.8	4.8		5.8 5.6	5.7	
15-Jul-16	Sunny	Moderate	16:47		Surface	1.0	29.4 29.3	29.4	8.5 8.5	8.5	15.5 15.5	15.5	88.6 89.7	89.2	6.2 6.3	6.3		5.5 5.4	5.5		5.8 5.2	5.5	1
				10.7	Middle	5.4	27.4 27.4	27.4	8.3 8.4	8.4	19.3 19.6	19.5	79.3 74.1	76.7	5.5 5.1	5.3	5.8	6.2 6.1	6.2	5.9	5.6 6.4	6.0	5.4
					Bottom	9.7	25.5 26.0	25.7	8.2 8.3	8.3	29.7 27.8	28.8	69.7 69.5	69.6	5.0 4.8	4.9	4.9	6.1 6.1	6.1		4.8 4.8	4.8	
18-Jul-16	Sunny	Moderate	18:54		Surface	1.0	30.0 30.1	30.1	8.5 8.5	8.5	17.1	17.1	110.9 130.1	120.5	7.6	8.3	7.5	7.5 7.3	7.4		9.7 10.0	9.9	
				10.9	Middle	5.5	28.3 28.2	28.2	8.4 8.4	8.4	19.8 19.9	19.9	101.2 90.5	95.9	7.0	6.7	7.5	7.4	7.5	7.5	11.1	10.6	10.9
					Bottom	9.9	25.7 25.7	25.7	8.3 8.3	8.3	28.3 28.0	28.2	73.7	72.9	5.1 5.0	5.1	5.1	7.6	7.6		12.1	12.3	
20-Jul-16	Sunny	Moderate	06:23		Surface	1.0	27.8 27.7	27.7	8.4 8.4	8.4	21.2	21.2	81.6 79.1	80.4	5.7 5.5	5.6		4.8	4.9		6.3 6.8	6.6	
				9.9	Middle	5.0	25.7 26.8	26.3	8.4 8.4	8.4	28.0 26.1	27.1	78.9	76.7	5.5 5.2	5.3	5.5	5.1 5.1	5.1	5.1	8.1 8.2	8.2	7.2
					Bottom	8.9	25.2 25.2	25.2	8.3 8.3	8.3	30.4 30.3	30.3	72.3	73.0	5.0 5.1	5.1	5.1	5.2 5.1	5.2		7.2	6.9	1

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	3	Temperat	ture (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:49		Surface 1	10	28.0 27.9	28.0	8.3 8.3	8.3	21.4 21.5	21.4	78.0 77.9	78.0	5.4 5.4	5.4	5.4	5.6 5.5	5.6		3.3 3.4	3.4	
				10.6	Middle 5	5.3	26.7 26.4	26.6	8.3 8.3	8.3	25.0 27.6	26.3	76.2 77.5	76.9	5.2 5.4	5.3	5.4	5.8 5.8	5.8	5.8	2.5 3.2	2.9	3.7
					Bottom	46	25.2 24.9	25.0	8.2 8.2	8.2	31.8 32.1	31.9	74.1 73.1	73.6	5.1 5.0	5.1	5.1	5.8 5.9	5.9		5.0 4.3	4.7	<u> </u>
25-Jul-16	Sunny	Moderate	10:16		Surface 1		27.5 27.4	27.5	8.0 8.1	8.1	25.0 25.0	25.0	79.2 78.5	78.9	5.5 5.4	5.4	5.3	6.7 6.8	6.8		9.0 8.8	8.9	
				10.8	Middle 5	54	27.1 26.6	26.8	8.0 8.0	8.0	27.4 26.7	27.0	76.4 75.0	75.7	5.2 5.2	5.2	0.0	6.7 6.8	6.8	6.8	8.5 8.7	8.6	9.9
					Bottom	98	25.9 25.9	25.9	8.0 8.0	8.0	30.0 30.0	30.0	70.0 73.0	71.5	4.8 5.0	4.9	4.9	6.7 6.8	6.8		11.2 13.0	12.1	<u> </u>
27-Jul-16	Sunny	Moderate	12:22		Surface 1		27.5 27.5	27.5	8.0 8.1	8.1	25.0 25.0	25.0	78.6 79.7	79.2	5.3 5.5	5.4	5.4	4.7 4.8	4.8		3.8 5.0	4.4	
				10.9	Middle 5	5.5	26.2 26.1	26.2	8.0 8.0	8.0	26.8 26.9	26.8	73.1 79.4	76.3	5.1 5.5	5.3	5.4	4.5 4.8	4.7	4.7	4.5 6.3	5.4	5.2
					Bottom	44	25.5 25.7	25.6	8.0 8.0	8.0	28.7 28.6	28.6	73.6 68.7	71.2	5.1 4.8	5.0	5.0	4.6 4.5	4.6		6.1 5.4	5.8	<u> </u>
29-Jul-16	Sunny	Moderate	15:47		Surface 1		29.7 29.8	29.7	8.7 8.7	8.7	19.7 19.7	19.7	122.7 124.1	123.4	8.4 8.6	8.5	8.1	4.3 4.5	4.4		8.6 8.4	8.5	
				10.3	Middle 5		27.0 27.5	27.2	8.6 8.6	8.6	24.0 23.5	23.8	114.0 108.1	111.1	7.8 7.5	7.7	0.1	5.0 4.8	4.9	4.8	10.4 9.8	10.1	9.4
					Bottom		26.9 26.8	26.9	8.5 8.6	8.6	25.4 26.2	25.8	83.5 83.5	83.5	5.8 5.8	5.8	5.8	4.9 5.0	5.0		9.0 10.4	9.7	<u> </u>

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	۲	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-		-	-	
				1.8	Middle	0.9	29.1 29.1	29.1	8.4 8.4	8.4	18.6 18.5	18.6	102.6 104.5	103.6	7.1 7.2	7.2	1.2	6.3 6.4	6.4	6.4	5.2 4.7	5.0	5.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
4-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-		-	-	
				1.6	Middle	0.8	28.3 28.3	28.3	8.5 8.5	8.5	18.6 18.5	18.6	80.5 83.1	81.8	5.7 5.8	5.8	5.8	13.4 13.2	13.3	13.3	11.3 11.5	11.4	11.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
6-Jul-16	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-		-	-	
				1.2	Middle	0.6	28.0 28.0	28.0	8.4 8.4	8.4	18.3 18.6	18.4	78.5 78.9	78.7	5.5 5.6	5.6	5.6	15.5 15.4	15.5	15.5	10.9 11.9	11.4	11.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
8-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-		-	-	
				1.6	Middle	0.8	29.1 29.0	29.0	8.3 8.3	8.3	15.5 15.7	15.6	93.1 93.7	93.4	6.6 6.6	6.6	6.6	7.6 7.4	7.5	7.5	9.4 8.4	8.9	8.9
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
11-Jul-16	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-		-	-	
				1.6	Middle	0.8	29.0 28.9	29.0	8.6 8.6	8.6	12.8 13.1	13.0	100.2 101.4	100.8	7.2 7.3	7.2	7.2	8.0 7.9	8.0	8.0	7.8 7.8	7.8	7.8
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
13-Jul-16	Rainy	Moderate	-		Surface	•	-	-	-	-	-	-	-	-	-	-	5.7	-	-		-	-	
				1.2	Middle	0.6	28.0 28.1	28.1	8.3 8.3	8.3	14.8 15.1	14.9	80.1 79.5	79.8	5.8 5.7	5.7	5.7	5.4 5.4	5.4	5.4	5.8 5.6	5.7	5.7
					Bottom	-		-		-		-		-	-	-	-	-	-		-	-	
15-Jul-16	Sunny	Moderate	-		Surface		-	-	-	-	-	-	-	-	-	-	5.8	-	-		-	-	
				1.4	Middle	0.7	28.5 28.3	28.4	8.3 8.3	8.3	14.1 14.4	14.3	82.4 79.3	80.9	5.9 5.7	5.8	5.0	4.8 4.8	4.8	4.8	7.2 5.9	6.6	6.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
18-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-		-	-	
				1.6	Middle	0.8	30.0 29.8	29.9	8.5 8.5	8.5	17.9 18.0	18.0	129.2 125.3	127.3	8.5 8.3	8.4	0.7	4.8 4.9	4.9	4.9	8.5 6.6	7.6	7.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
20-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.6	Middle	0.8	28.2 28.2	28.2	8.5 8.5	8.5	18.9 18.8	18.8	96.6 95.3	96.0	6.8 6.7	6.7	0.7	8.8 9.1	9.0	9.0	11.4 11.0	11.2	11.2
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ţ	ъH	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.4	Middle	0.7	28.6 28.3	28.5	8.7 8.7	8.7	21.2 21.2	21.2	99.8 94.7	97.3	6.9 6.6	6.7	6.7	8.6 8.5	8.6	8.6	12.5 12.5	12.5	12.5
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
25-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-		-	-	
				1.8	Middle	0.9	29.2 29.3	29.3	8.0 8.0	8.0	21.3 21.4	21.4	109.9 110.1	110.0	7.5 7.5	7.5	7.5	8.6 8.9	8.8	8.8	7.8 7.4	7.6	7.6
					Bottom	•	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
27-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-		-	-	
				1.6	Middle	0.8	28.3 28.2	28.2	8.0 8.0	8.0	22.0 22.3	22.2	113.5 113.2	113.4	7.8 7.8	7.8	7.0	8.0 7.8	7.9	7.9	12.1 11.5	11.8	11.8
					Bottom	-		-	-	-	-	-		-		-	-	-	-		-	-	
29-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-		-	-	
				1.4	Middle	0.7	29.4 29.3	29.4	8.6 8.6	8.6	21.3 21.4	21.4	123.7 125.9	124.8	8.4 8.6	8.5	0.0	5.4 5.4	5.4	5.4	5.9 5.4	5.7	5.7
					Bottom	-	-	-	-	-	-	-		-		-	-	-	-		-	-	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ł	ъH	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	n (mg/L)	٦	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	-		Surface	-		-		-	-	-		-	-	-	7.4	-	-		-	-	
				1.6	Middle	0.8	29.2 29.1	29.2	8.4 8.4	8.4	18.4 18.8	18.6	107.6 107.0	107.3	7.5 7.4	7.4	7.4	6.3 6.3	6.3	6.3	8.4 8.0	8.2	8.2
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
4-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-		-	-	
				1.2	Middle	0.6	28.4 28.4	28.4	8.3 8.3	8.3	18.7 18.7	18.7	80.9 80.9	80.9	5.7 5.7	5.7	5.7	8.2 8.2	8.2	8.2	9.1 9.7	9.4	9.4
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
6-Jul-16	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				1.6	Middle	0.8	28.5 28.4	28.5	8.2 8.2	8.2	18.1 18.2	18.1	86.0 85.5	85.8	6.0 6.0	6.0	6.0	6.5 6.4	6.5	6.5	6.3 4.8	5.6	5.6
					Bottom	-		-		-	-	-		-	-	-	-	-	-		-	-	
8-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.6	Middle	0.8	28.6 28.6	28.6	8.2 8.3	8.3	18.1 18.1	18.1	93.4 94.6	94.0	6.5 6.6	6.6	0.0	4.3 4.4	4.4	4.4	7.1 7.3	7.2	7.2
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
11-Jul-16	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-		-	-	
				1.4	Middle	0.7	28.6 28.5	28.6	8.3 8.3	8.3	17.6 17.7	17.7	97.8 95.6	96.7	6.9 6.7	6.8	0.0	3.6 3.7	3.7	3.7	7.5 6.6	7.1	7.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
13-Jul-16	Rainy	Moderate	-		Surface	-		-		-	-	-	-	-	-	-	5.6	-	-		-	-	
				1.6	Middle	0.8	27.6 27.8	27.7	8.3 8.3	8.3	18.5 15.8	17.1	77.8 78.9	78.4	5.5 5.7	5.6	0.0	4.4 4.5	4.5	4.5	2.8 5.0	3.9	3.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-		-	-	
				1.4	Middle	0.7	28.5 28.6	28.6	8.5 8.6	8.6	15.9 15.9	15.9	115.1 115.6	115.4	8.2 8.2	8.2	0.2	4.3 4.3	4.3	4.3	6.8 5.5	6.2	6.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
18-Jul-16	Sunny	Moderate	-		Surface	-	-	-		-	-	-	-	-	-	-	8.2	-	-		-	-	
				1.6	Middle	0.8	29.8 29.8	29.8	8.5 8.5	8.5	16.4 16.3	16.3	129.7 123.4	126.6	8.4 7.9	8.2		5.3 5.5	5.4	5.4	7.9 7.7	7.8	7.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
20-Jul-16	Sunny	Moderate	-		Surface	-	-	-		-	-	-		-	-	-	6.5	-	-		-	-	
				1.8	Middle	0.9	28.1 28.1	28.1	8.4 8.4	8.4	21.7 21.7	21.7	93.1 94.2	93.7	6.5 6.5	6.5	0.0	7.2 7.1	7.2	7.2	11.5 11.6	11.6	11.6
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				1.2	Middle	0.6	28.5 28.5	28.5	8.4 8.4	8.4	21.2 21.2	21.2	99.7 100.7	100.2	6.9 7.0	6.9	6.9	5.1 5.1	5.1	5.1	12.4 13.5	13.0	13.0
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-		-	-	
				1.8	Middle	0.9	29.2 29.1	29.1	8.3 8.3	8.3	23.1 23.2	23.2	116.8 116.5	116.7	7.8 7.8	7.8	7.0	4.8 4.8	4.8	4.8	7.9 9.7	8.8	8.8
					Bottom	•	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
27-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-		-	-	
				1.6	Middle	0.8	28.5 28.5	28.5	8.3 8.3	8.3	25.0 25.0	25.0	118.4 115.5	117.0	8.0 7.8	7.9	7.5	4.8 4.8	4.8	4.8	10.2 12.2	11.2	11.2
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
29-Jul-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	10.5	-	-		-	-	
				1.2	Middle	0.6	30.4 30.4	30.4	8.6 8.6	8.6	19.1 19.0	19.1	159.0 151.2	155.1	10.8 10.2	10.5	10.5	3.6 3.6	3.6	3.6	5.3 6.1	5.7	5.7
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:06		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	19.3 19.3	19.3	101.4 100.3	100.9	7.0 7.0	7.0	7.0	3.1 3.4	3.3		4.4 3.1	3.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	3.4	-	-	4.2
					Bottom	2.6	28.8 28.6	28.7	8.4 8.4	8.4	19.2 19.3	19.3	100.7 100.2	100.5	7.0 7.0	7.0	7.0	3.3 3.4	3.4		4.2 4.9	4.6	
4-Jul-16	Sunny	Moderate	12:11		Surface	1.0	28.7 28.7	28.7	8.4 8.4	8.4	17.8 17.8	17.8	88.3 91.1	89.7	6.2 6.4	6.3		5.2 5.3	5.3		7.8 7.3	7.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	5.3	-	-	7.7
					Bottom	2.8	28.7 28.5	28.6	8.3 8.3	8.3	18.4 19.4	18.9	91.0 87.5	89.3	6.4 6.1	6.2	6.2	5.1 5.2	5.2		8.0 7.4	7.7	
6-Jul-16	Rainy	Moderate	14:00		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	17.2 17.2	17.2	87.5 88.2	87.9	6.2 6.2	6.2		5.4 5.2	5.3		5.9 6.2	6.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	5.6	-	-	5.9
					Bottom	2.7	28.2 28.3	28.2	8.2 8.3	8.3	18.1 17.5	17.8	86.6 85.3	86.0	6.1 6.1	6.1	6.1	5.8 5.7	5.8		5.4 5.7	5.6	
8-Jul-16	Sunny	Moderate	14:52		Surface	1.0	29.2 29.2	29.2	8.4 8.4	8.4	17.3 17.3	17.3	102.5 97.7	100.1	7.1 6.8	7.0		4.8 5.2	5.0		5.0 4.9	5.0	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	5.2	-	-	5.2
					Bottom	2.4	28.6 29.1	28.8	8.4 8.4	8.4	18.6 18.2	18.4	93.8 100.8	97.3	6.6 7.0	6.8	6.8	5.5 5.1	5.3		5.8 5.0	5.4	
11-Jul-16	Cloudy	Moderate	17:05		Surface	1.0	28.8 28.8	28.8	8.5 8.5	8.5	17.7 17.8	17.7	109.9 105.3	107.6	7.7 7.3	7.5	7 5	4.7 4.5	4.6		7.2 6.8	7.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	4.7	-	-	6.9
					Bottom	2.7	28.5 28.0	28.3	8.5 8.4	8.4	19.6 20.3	19.9	105.0 107.5	106.3	7.3 7.6	7.4	7.4	4.6 4.7	4.7		6.5 6.9	6.7	
13-Jul-16	Rainy	Moderate	08:35		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	17.1 15.2	16.1	72.3 72.3	72.3	5.2 5.2	5.2		6.4 6.0	6.2		4.1 3.1	3.6	i
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.3	-	-	3.7
					Bottom	2.5	27.9 27.6	27.8	8.1 8.1	8.1	19.2 19.2	19.2	73.3 74.7	74.0	5.2 5.3	5.2	5.2	6.3 6.2	6.3		4.4 3.2	3.8	
15-Jul-16	Sunny	Moderate	10:41		Surface	1.0	28.1 28.2	28.2	8.3 8.3	8.3	15.8 15.8	15.8	83.5 82.0	82.8	6.0 5.9	5.9		6.1 6.2	6.2		4.8 3.5	4.2	i
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	6.2	-	-	5.8
					Bottom	2.8	27.5 27.8	27.7	8.2 8.2	8.2	19.2 20.2	19.7	82.2 84.5	83.4	5.8 5.9	5.9	5.9	6.2 6.1	6.2		7.4 7.3	7.4	
18-Jul-16	Sunny	Moderate	12:43		Surface	1.0	30.0 30.0	30.0	8.4 8.4	8.4	17.8 17.9	17.9	115.2 114.8	115.0	7.9 7.8	7.9	7.0	6.1 6.2	6.2		7.1 5.7	6.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	6.3	-	-	8.3
					Bottom	2.7	28.1 27.4	27.7	8.3 8.3	8.3	21.9 23.0	22.4	108.2 107.4	107.8	7.4 7.4	7.4	7.4	6.5 6.3	6.4	1	10.1 10.0	10.1	
20-Jul-16	Sunny	Moderate	12:45		Surface	1.0	28.5 28.5	28.5	8.4 8.5	8.4	20.5 20.5	20.5	99.4 101.9	100.7	6.8 7.0	6.9		6.2 6.4	6.3		6.5 6.8	6.7	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	6.4	-	-	7.5
					Bottom	2.5	28.7 28.5	28.6	8.4 8.4	8.4	21.3 21.4	21.4	95.7 91.3	93.5	6.6 6.3	6.5	6.5	6.3 6.4	6.4		8.8 7.7	8.3	1

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:52		Surface	1.0	29.1 29.1	29.1	8.5 8.5	8.5	20.8 21.2	21.0	121.8 117.2	119.5	8.3 8.0	8.2	8.2	7.4 7.2	7.3		8.4 8.6	8.5	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	7.4	-	-	9.1
					Bottom	2.6	28.7 28.9	28.8	8.5 8.5	8.5	22.3 21.7	22.0	115.8 117.9	116.9	7.9 8.1	8.0	8.0	7.2 7.5	7.4		9.6 9.6	9.6	
25-Jul-16	Sunny	Moderate	15:56		Surface	1.0	28.6 28.5	28.5	8.1 8.1	8.1	22.0 22.2	22.1	96.2 97.8	97.0	6.6 6.7	6.7	6.7	4.8 4.8	4.8		5.5 6.1	5.8	
				3.8	Middle	-		-		-	-	-	-	-	-	-	0.1	-	-	4.8	-	-	6.2
					Bottom	2.8	28.3 28.2	28.3	8.1 8.1	8.1	22.6 22.6	22.6	96.3 95.1	95.7	6.6 6.5	6.6	6.6	4.8 4.7	4.8		6.8 6.2	6.5	
27-Jul-16	Sunny	Moderate	18:03		Surface	1.0	29.6 29.5	29.5	8.1 8.1	8.1	23.4 23.6	23.5	98.8 99.7	99.3	6.6 6.7	6.6	6.6	8.4 8.2	8.3		9.6 10.0	9.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	8.5	-	-	10.3
					Bottom	2.8	27.2 27.0	27.1	8.1 8.1	8.1	24.8 25.1	25.0	94.9 94.5	94.7	6.6 6.6	6.6	6.6	8.5 8.6	8.6		11.0 10.5	10.8	
29-Jul-16	Sunny	Moderate	09:48		Surface	1.0	29.3 29.3	29.3	8.6 8.6	8.6	21.2 21.2	21.2	143.6 147.0	145.3	9.8 10.0	9.9	9.9	4.8 4.8	4.8		4.9 3.1	4.0	
				3.7	Middle	-		-		-		-	-	-		-	3.5	-	-	4.8	-	-	4.1
					Bottom	2.7	29.0 29.2	29.1	8.6 8.6	8.6	22.1 22.0	22.1	133.4 138.5	136.0	9.1 9.4	9.2	9.2	4.8 4.8	4.8		4.4 4.0	4.2	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	urbidity(NT	U)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:24		Surface	1.0	29.1 29.1	29.1	8.5 8.5	8.5	19.6 19.6	19.6	101.6 104.9	103.3	7.0 7.2	7.1		8.7 8.4	8.6		6.5 6.5	6.5	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	7.1	-	-	8.6		-	7.1
					Bottom	2.7	28.9 28.7	28.8	8.5 8.5	8.5	20.5 20.6	20.6	104.0 99.1	101.6	7.2 6.8	7.0	7.0	8.5 8.5	8.5		7.5 7.6	7.6	
4-Jul-16	Sunny	Moderate	06:21		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	17.7 17.6	17.7	88.7 88.0	88.4	6.2 6.2	6.2		4.4 4.4	4.4		6.9 6.3	6.6	i
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	4.5	-	-	6.2
					Bottom	2.7	28.6 28.6	28.6	8.3 8.3	8.3	17.9 18.4	18.2	88.4 88.0	88.2	6.2 6.2	6.2	6.2	4.5 4.5	4.5		6.0 5.4	5.7	
6-Jul-16	Rainy	Moderate	07:40		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	16.6 16.7	16.7	81.6 81.7	81.7	5.8 5.8	5.8	5.0	4.3 4.2	4.3		4.5 4.5	4.5	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	4.5	-	-	4.6
					Bottom	2.9	28.5 28.4	28.4	8.2 8.2	8.2	18.7 18.7	18.7	81.7 81.8	81.8	5.7 5.7	5.7	5.7	4.6 4.6	4.6		4.0 5.2	4.6	
8-Jul-16	Sunny	Moderate	09:37		Surface	1.0	28.6 28.6	28.6	8.1 8.1	8.1	16.8 16.7	16.8	75.0 75.8	75.4	5.3 5.4	5.3	5.0	5.5 5.3	5.4		6.4 5.9	6.2	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	5.9	-	-	7.0
					Bottom	2.6	28.5 28.5	28.5	8.1 8.1	8.1	17.1 16.9	17.0	76.9 75.2	76.1	5.4 5.3	5.4	5.4	6.3 6.4	6.4		7.7 7.9	7.8	
11-Jul-16	Cloudy	Moderate	11:22		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	18.5 18.6	18.5	73.7 73.3	73.5	5.2 5.2	5.2	5.0	6.9 6.9	6.9		6.3 6.7	6.5	
				3.9	Middle	-	-	-		-	-	-		-	-	-	5.2	-	-	7.0	-	-	6.3
					Bottom	2.9	27.8 27.8	27.8	8.1 8.1	8.1	19.2 19.6	19.4	73.5 73.5	73.5	5.2 5.2	5.2	5.2	7.1 6.9	7.0		5.4 6.5	6.0	
13-Jul-16	Rainy	Moderate	13:31		Surface	1.0	28.1 28.3	28.2	8.2 8.3	8.3	15.9 15.6	15.7	81.0 80.1	80.6	5.8 5.7	5.8	5.0	10.6 10.2	10.4		5.2 4.7	5.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	10.4	-	-	4.7
					Bottom	2.7	27.8 27.3	27.5	8.2 8.2	8.2	19.8 20.7	20.2	81.5 80.9	81.2	5.7 5.7	5.7	5.7	10.5 10.3	10.4		4.9 3.9	4.4	
15-Jul-16	Sunny	Moderate	16:25		Surface	1.0	29.7 29.5	29.6	8.6 8.5	8.5	16.7 16.7	16.7	123.3 120.7	122.0	8.7 8.5	8.6	8.6	12.8 13.5	13.2		11.2 11.3	11.3	
				3.7	Middle	-	-	-		-	-	-		-	-	-	8.0	-	-	13.2	-	-	11.7
					Bottom	2.7	28.3 28.2	28.2	8.5 8.5	8.5	17.8 18.9	18.4	122.4 119.9	121.2	8.5 8.4	8.5	8.5	13.2 13.2	13.2		11.6 12.4	12.0	
18-Jul-16	Sunny	Moderate	18:33		Surface	1.0	29.3 29.3	29.3	8.5 8.5	8.5	18.2 18.2	18.2	133.6 128.9	131.3	9.3 9.0	9.1	0.4	15.2 15.3	15.3		9.2 9.0	9.1	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	15.3	-	-	8.9
					Bottom	2.8	29.0 29.2	29.1	8.5 8.5	8.5	19.4 19.0	19.2	127.2 130.7	129.0	8.8 9.0	8.9	8.9	15.2 15.4	15.3		9.0 8.1	8.6	
20-Jul-16	Sunny	Moderate	06:45		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	20.3 20.4	20.3	91.4 92.4	91.9	6.4 6.5	6.4	6.4	5.4 5.3	5.4		7.7	7.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	5.5	-	-	7.6
					Bottom	2.8	28.0 27.8	27.9	8.4 8.4	8.4	20.5 21.1	20.8	92.1 91.2	91.7	6.4 6.4	6.4	6.4	5.4 5.5	5.5		7.9 6.7	7.3	

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	эΗ	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:08		Surface	1.0	27.9 27.6	27.8	8.3 8.3	8.3	21.5 21.3	21.4	77.4 76.0	76.7	5.4 5.3	5.4	5.4	5.8 5.8	5.8		3.1 4.0	3.6	
				3.8	Middle	-	-	-		-		-		-		-	5.	-	-	5.9	-	-	4.0
					Bottom	2.8	27.3 27.8	27.6	8.2 8.3	8.3	23.7 22.0	22.9	77.2 76.9	77.1	5.4 5.3	5.3	5.3	5.8 5.9	5.9		4.3 4.3	4.3	
25-Jul-16	Sunny	Moderate	10:42		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	22.7 22.6	22.6	91.5 89.6	90.6	6.3 6.2	6.2	6.2	10.2 10.4	10.3		8.8 9.2	9.0	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	10.4	-	-	9.1
					Bottom	2.7	27.8 28.2	28.0	8.1 8.1	8.1	23.7 23.0	23.4	90.0 90.8	90.4	6.2 6.2	6.2	6.2	10.3 10.6	10.5		9.6 8.7	9.2	
27-Jul-16	Sunny	Moderate	12:42		Surface	1.0	27.7 27.6	27.6	8.1 8.1	8.1	24.7 24.9	24.8	105.0 105.2	105.1	7.2 7.2	7.2	7.2	14.4 14.5	14.5		10.5 11.2	10.9	
				3.8	Middle	-	-	-	-	-	-	-	-	-		-	1.2	-	-	14.5	-	-	11.0
					Bottom	2.8	27.6 27.5	27.5	8.1 8.1	8.1	25.2 25.5	25.3	104.4 104.0	104.2	7.2 7.1	7.2	7.2	14.3 14.5	14.4		10.1 11.8	11.0	
29-Jul-16	Sunny	Moderate	15:25		Surface	1.0	29.7 29.7	29.7	8.6 8.6	8.6	19.4 19.5	19.5	151.0 153.6	152.3	10.3 10.5	10.4	10.4	15.5 15.3	15.4		16.6 18.3	17.5	
				3.7	Middle	-	-	-		-		-		-		-	10.4	-	-	15.5	-	-	17.5
					Bottom	2.7	29.4 29.6	29.5	8.7 8.6	8.6	20.3 20.0	20.1	144.4 151.8	148.1	9.9 10.4	10.1	10.1	15.6 15.4	15.5		16.8 17.9	17.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:40		Surface	1.0	28.9 28.6	28.7	8.1 8.0	8.0	13.8 13.9	13.8	77.9 76.9	77.4	5.6 5.5	5.5	5.5	3.5 3.8	3.7		4.3 4.4	4.4	
				5.0	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	4.1	-	-	3.7
					Bottom	4.0	28.3 28.3	28.3	8.0 8.0	8.0	17.7 17.7	17.7	77.4 76.4	76.9	5.5 5.4	5.4	5.4	4.2 4.5	4.4		2.9 2.8	2.9	
4-Jul-16	Sunny	Moderate	12:22		Surface	1.0	28.5 28.6	28.5	8.1 8.1	8.1	20.9 20.9	20.9	75.2 74.4	74.8	5.3 5.3	5.3	5.3	3.4 3.3	3.4		4.6 5.0	4.8	
				5.1	Middle	-	-	-		-	-	-	-	-	-	-	5.3	-	-	3.6	-	-	4.8
					Bottom	4.1	28.6 28.1	28.4	8.1 8.0	8.1	20.9 22.5	21.7	72.8 73.5	73.2	5.2 5.2	5.2	5.2	3.7 3.6	3.7		5.0 4.6	4.8	
6-Jul-16	Rainy	Moderate	13:55		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	14.9 15.4	15.2	77.2 80.6	78.9	5.5 5.8	5.7	5.7	4.4 4.5	4.5		2.8 3.1	3.0	
				4.9	Middle	-	-	-		-	-	-		-	-	-	5.7	-	-	4.5	-	-	3.6
					Bottom	3.9	28.1 28.2	28.1	8.4 8.4	8.4	16.0 16.0	16.0	77.6 77.0	77.3	5.6 5.5	5.5	5.5	4.5 4.4	4.5		4.6 3.6	4.1	
8-Jul-16	Sunny	Moderate	15:12		Surface	1.0	29.6 29.7	29.6	8.5 8.5	8.5	18.9 18.8	18.8	85.3 85.6	85.5	6.1 6.1	6.1	6.1	4.1 4.2	4.2		4.2 3.4	3.8	
				5.3	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	4.3	-	-	3.4
					Bottom	4.3	29.4 27.7	28.6	8.5 8.3	8.4	19.9 20.1	20.0	82.5 82.7	82.6	5.8 5.8	5.8	5.8	4.3 4.4	4.4		3.0 2.7	2.9	
11-Jul-16	Cloudy	Moderate	17:15		Surface	1.0	28.4 28.6	28.5	8.5 8.5	8.5	18.4 17.1	17.8	86.8 85.5	86.2	6.2 6.2	6.2	6.2	3.3 3.4	3.4		5.2 4.2	4.7	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	3.6	-	-	5.0
					Bottom	4.2	28.4 28.2	28.3	8.4 8.4	8.4	20.6 20.9	20.8	82.5 82.1	82.3	5.9 5.8	5.8	5.8	3.7 3.7	3.7		5.2 5.1	5.2	
13-Jul-16	Rainy	Moderate	08:20		Surface	1.0	27.7 27.7	27.7	8.3 8.3	8.3	14.7 14.9	14.8	79.4 80.1	79.8	5.7 5.7	5.7	5.7	3.7 3.8	3.8		5.3 4.3	4.8	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	3.8	-	-	4.6
					Bottom	3.9	27.4 27.3	27.4	8.2 8.2	8.2	17.8 18.3	18.1	76.3 78.4	77.4	5.4 5.6	5.5	5.5	3.6 3.9	3.8		4.8 3.8	4.3	
15-Jul-16	Sunny	Moderate	10:24		Surface	1.0	28.4 27.9	28.1	8.3 8.3	8.3	11.5 10.7	11.1	78.0 78.2	78.1	5.8 5.8	5.8	5.8	4.5 4.3	4.4		4.6 5.7	5.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	4.4	-	-	4.8
					Bottom	4.2	27.1 27.5	27.3	8.1 8.2	8.2	20.0 19.3	19.7	77.8 77.9	77.9	5.7 5.7	5.7	5.7	4.3 4.2	4.3		4.6 3.9	4.3	
18-Jul-16	Sunny	Moderate	12:33		Surface	1.0	29.3 29.2	29.3	8.5 8.5	8.5	20.0 20.1	20.0	102.9 104.8	103.9	7.2 7.3	7.3	7.3	4.1 4.2	4.2		6.1 5.6	5.9	
				5.2	Middle	-	-	-		-	-	-	-	-	-	-	7.5	-	-	4.5	-	-	6.1
					Bottom	4.2	28.7 29.0	28.9	8.5 8.5	8.5	21.9 22.1	22.0	101.6 101.1	101.4	7.2 7.2	7.2	7.2	4.7 4.8	4.8		6.7 5.7	6.2	
20-Jul-16	Sunny	Moderate	12:53		Surface	1.0	28.9 28.8	28.9	8.6 8.6	8.6	18.5 17.5	18.0	105.4 104.8	105.1	7.5 7.4	7.4	7.4	4.2 4.3	4.3		5.0 5.4	5.2	
				5.3	Middle	-	-	-		-	-	-		-	-	-	1.4	-	-	4.5	-	-	4.8
					Bottom	4.3	28.4 28.4	28.4	8.6 8.6	8.6	16.8 17.2	17.0	98.1 96.5	97.3	6.9 6.9	6.9	6.9	4.6 4.6	4.6		4.2 4.3	4.3	

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Η	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:59		Surface	1.0	27.8 27.8	27.8	8.7 8.7	8.7	20.7 21.0	20.8	77.1 78.1	77.6	5.4 5.4	5.4	5.4	7.7 7.8	7.8		4.1 5.3	4.7	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	8.1	-	-	4.7
					Bottom	4.4	27.2 27.9	27.6	8.6 8.7	8.7	22.6 20.3	21.5	75.4 76.3	75.9	5.3 5.3	5.3	5.3	8.3 8.2	8.3		4.7 4.6	4.7	
25-Jul-16	Sunny	Moderate	16:31		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	20.1 20.1	20.1	96.4 95.6	96.0	6.7 6.7	6.7	6.7	5.8 6.1	6.0		4.8 4.7	4.8	
				5.0	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	6.2	-	-	5.0
					Bottom	4.0	27.6 27.6	27.6	8.0 8.0	8.0	23.1 23.2	23.1	95.3 95.0	95.2	6.6 6.6	6.6	6.6	6.3 6.4	6.4		4.9 5.2	5.1	
27-Jul-16	Sunny	Moderate	18:06		Surface	1.0	27.7 28.2	27.9	8.0 8.0	8.0	23.4 23.0	23.2	105.7 111.2	108.5	7.2 7.6	7.4	7.4	4.6 4.7	4.7		6.9 7.2	7.1	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	4.7	-	-	7.3
					Bottom	4.4	27.9 27.5	27.7	8.0 8.0	8.0	25.2 25.5	25.3	107.1 101.9	104.5	7.3 7.0	7.2	7.2	4.7 4.6	4.7		7.2 7.5	7.4	
29-Jul-16	Sunny	Moderate	09:26		Surface	1.0	28.8 29.1	28.9	8.3 8.3	8.3	18.0 17.7	17.9	110.1 107.5	108.8	7.6 7.5	7.5	7.5	4.1 4.2	4.2		2.2 4.1	3.2	
				5.0	Middle	-	-	-	• •	-	-	-	-	-	-	-	1.5	-	-	4.3	-	-	3.2
					Bottom	4.0	28.5 28.6	28.5	8.2 8.2	8.2	20.9 21.8	21.3	106.2 106.8	106.5	7.4 7.5	7.4	7.4	4.4 4.2	4.3		3.1 3.0	3.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	16:38		Surface	1.0	29.2 29.1	29.1	8.2 8.2	8.2	12.9 12.9	12.9	89.7 85.9	87.8	6.4 6.1	6.3	6.3	2.8 2.8	2.8		2.6 2.3	2.5	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	3.1	-	-	3.2
					Bottom	3.6	28.2 28.5	28.3	8.1 8.1	8.1	18.0 17.8	17.9	83.0 88.1	85.6	5.9 6.2	6.0	6.0	3.2 3.3	3.3		4.6 3.1	3.9	
4-Jul-16	Sunny	Moderate	06:07		Surface	1.0	28.4 28.3	28.3	8.1 8.1	8.1	20.7 20.7	20.7	72.0 71.7	71.9	5.1 5.1	5.1	5.1	2.5 2.4	2.5		3.6 4.9	4.3	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	2.7	-	-	4.7
					Bottom	4.3	27.7 27.8	27.8	8.0 8.0	8.0	24.6 24.5	24.6	72.2 71.4	71.8	5.1 5.0	5.1	5.1	2.8 2.7	2.8		4.8 5.1	5.0	
6-Jul-16	Rainy	Moderate	07:27		Surface	1.0	27.3 27.3	27.3	8.3 8.3	8.3	20.2 20.4	20.3	82.4 81.8	82.1	5.8 5.8	5.8	FO	10.4 10.5	10.5		6.3 6.7	6.5	
				5.4	Middle	-	-	-	-	-	-	-		-	-	-	5.8	-	-	10.6	-	-	6.0
					Bottom	4.4	27.1 27.2	27.1	8.3 8.3	8.3	21.8 22.0	21.9	82.6 82.2	82.4	5.8 5.8	5.8	5.8	10.5 10.6	10.6		5.1 5.9	5.5	
8-Jul-16	Sunny	Moderate	09:11		Surface	1.0	27.8 28.3	28.1	8.3 8.3	8.3	24.2 22.8	23.5	74.4 74.1	74.3	5.2 5.2	5.2	5.0	5.2 5.2	5.2		3.1 2.3	2.7	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	5.5	-	-	3.0
					Bottom	4.4	27.4 27.4	27.4	8.2 8.2	8.2	22.7 24.5	23.6	73.5 73.3	73.4	5.1 5.1	5.1	5.1	5.6 5.7	5.7		3.3 3.3	3.3	
11-Jul-16	Cloudy	Moderate	11:36		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	18.6 18.5	18.6	75.9 76.6	76.3	5.5 5.5	5.5	5.5	4.1 4.0	4.1		3.2 2.6	2.9	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.2	-	-	3.4
					Bottom	4.3	27.9 28.2	28.1	8.3 8.4	8.3	23.4 22.5	22.9	77.0 77.0	77.0	5.5 5.5	5.5	5.5	4.3 4.2	4.3		4.0 3.6	3.8	
13-Jul-16	Rainy	Moderate	13:50		Surface	1.0	27.8 27.5	27.7	8.4 8.4	8.4	11.0 10.7	10.9	85.1 85.0	85.1	6.1 6.0	6.0		4.4 4.5	4.5		5.6 6.3	6.0	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	4.8	-	-	5.9
					Bottom	4.1	26.8 26.5	26.6	8.2 8.2	8.2	20.4 21.1	20.8	81.2 80.1	80.7	5.8 5.7	5.7	5.7	4.8 5.2	5.0		5.5 5.9	5.7	
15-Jul-16	Sunny	Moderate	16:40		Surface	1.0	29.4 29.4	29.4	8.4 8.4	8.4	8.5 8.5	8.5	84.2 80.8	82.5	6.3 6.0	6.1		6.0 5.7	5.9		5.0 4.0	4.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	5.4	-	-	4.5
					Bottom	4.1	26.2 26.7	26.4	8.0 8.0	8.0	21.5 19.9	20.7	82.3 79.2	80.8	6.1 5.8	6.0	6.0	5.0 4.6	4.8		4.7 4.0	4.4	
18-Jul-16	Sunny	Moderate	19:25		Surface	1.0	29.2 29.3	29.3	8.6 8.6	8.6	20.2 20.2	20.2	99.9 100.3	100.1	7.1 7.1	7.1		8.4 8.5	8.5		7.4	7.3	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	8.7	-	-	7.3
					Bottom	4.4	29.1 29.1	29.1	8.5 8.6	8.6	21.6 20.5	21.0	99.8 98.5	99.2	7.0 7.0	7.0	7.0	8.7 8.8	8.8		7.3 7.1	7.2	
20-Jul-16	Sunny	Moderate	06:43		Surface	1.0	27.3 27.2	27.3	8.5 8.5	8.5	19.3 20.9	20.1	75.8 75.8	75.8	5.4 5.3	5.4		7.7 7.7	7.7		6.0 6.3	6.2	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	7.8	-	-	6.9
					Bottom	4.3	27.1 27.2	27.2	8.5 8.5	8.5	21.5 21.3	21.4	75.2 75.2	75.2	5.3 5.4	5.3	5.3	7.8	7.8		8.4	7.5	

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	08:06		Surface	1.0	27.5 27.8	27.7	8.6 8.6	8.6	21.0 18.7	19.8	75.0 74.7	74.9	5.3 5.3	5.3	5.3	5.9 5.8	5.9		7.0 7.1	7.1	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.2	-	-	6.6
					Bottom	4.5	27.4 27.8	27.6	8.6 8.6	8.6	20.8 18.4	19.6	73.8 73.5	73.7	5.2 5.2	5.2	5.2	6.3 6.4	6.4		5.4 6.5	6.0	
25-Jul-16	Sunny	Moderate	10:28		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	18.4 18.4	18.4	86.1 85.7	85.9	6.0 6.0	6.0	6.0	4.5 4.9	4.7		3.5 2.5	3.0	
				5.1	Middle	-		-		-	-	-		-		-	0.0	-	-	5.0	-	-	3.4
					Bottom	4.1	27.9 27.9	27.9	8.0 8.0	8.0	21.6 21.6	21.6	84.9 85.2	85.1	5.9 5.9	5.9	5.9	5.2 5.3	5.3		4.0 3.5	3.8	
27-Jul-16	Sunny	Moderate	12:43		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	20.8 21.0	20.9	101.2 97.7	99.5	7.1 6.8	7.0	7.0	6.7 6.6	6.7		9.0 8.1	8.6	
				4.9	Middle	-	-	-	-	-	-	-	-	-		-	7.0	-	-	6.8	-	-	8.1
					Bottom	3.9	26.4 26.3	26.4	8.0 8.0	8.0	24.9 25.1	25.0	99.9 95.7	97.8	7.0 6.7	6.8	6.8	6.8 6.8	6.8		7.4 7.6	7.5	
29-Jul-16	Sunny	Moderate	15:29		Surface	1.0	29.4 29.3	29.4	8.4 8.4	8.4	15.0 15.6	15.3	134.0 131.2	132.6	9.4 9.2	9.3	9.3	5.3 5.5	5.4		3.6 4.1	3.9	
				5.1	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	5.6	-	-	3.9
					Bottom	4.1	28.9 28.9	28.9	8.3 8.3	8.3	17.4 17.2	17.3	128.7 131.5	130.1	9.0 9.2	9.1	9.1	5.7 5.8	5.8		3.7 3.8	3.8	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	11:31		Surface	1.0	28.9 29.0	28.9	8.1 8.1	8.1	13.2 13.2	13.2	81.8 82.4	82.1	5.9 5.9	5.9	5.9	2.7 2.4	2.6		3.7 2.9	3.3	
				4.2	Middle	-	-	-	-	-		-	-	-	-	-	5.9	-	-	4.1	-	-	3.3
					Bottom	3.2	28.3 28.2	28.2	8.0 8.0	8.0	18.0 17.9	17.9	81.4 81.9	81.7	5.7 5.8	5.8	5.8	5.6 5.6	5.6		3.4 3.1	3.3	
4-Jul-16	Sunny	Moderate	11:31		Surface	1.0	28.4 28.3	28.4	8.1 8.1	8.1	20.8 21.0	20.9	83.1 83.8	83.5	5.9 5.9	5.9	5.0	2.5 2.6	2.6		4.3 3.5	3.9	
				3.8	Middle	-	-	-	-	-		-		-	-	-	5.9	-	-	2.7	-	-	4.3
					Bottom	2.8	28.4 28.3	28.3	8.1 8.1	8.1	21.1 22.2	21.7	80.1 80.5	80.3	5.7 5.7	5.7	5.7	2.8 2.7	2.8		4.8 4.4	4.6	
6-Jul-16	Rainy	Moderate	13:00		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	14.5 14.6	14.6	76.0 75.5	75.8	5.5 5.4	5.5	5.5	4.4 4.4	4.4		3.9 3.9	3.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.4	-	-	3.6
					Bottom	3.2	28.2 28.1	28.2	8.3 8.3	8.3	15.9 16.3	16.1	76.1 75.9	76.0	5.4 5.4	5.4	5.4	4.2 4.5	4.4		3.2 3.1	3.2	
8-Jul-16	Sunny	Moderate	14:20		Surface	1.0	29.3 29.1	29.2	8.4 8.4	8.4	20.5 20.6	20.6	74.8 75.9	75.4	5.3 5.4	5.3	5.3	4.9 5.0	5.0		2.7 2.7	2.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.2	-	-	3.0
					Bottom	3.1	27.7 27.4	27.5	8.3 8.2	8.3	22.5 24.9	23.7	72.3 72.5	72.4	5.1 5.2	5.2	5.2	5.3 5.2	5.3		2.9 3.5	3.2	
11-Jul-16	Cloudy	Moderate	16:22		Surface	1.0	28.5 28.5	28.5	8.5 8.5	8.5	17.7 16.8	17.3	77.9 78.5	78.2	5.7 5.6	5.6	5.6	3.6 3.5	3.6		4.4 4.9	4.7	
				4.1	Middle	-		-	-	-	-	-	-	-	-	-	5.0	-	-	3.7	-	-	4.9
					Bottom	3.1	28.1 26.6	27.3	8.4 8.3	8.4	28.8 28.8	28.8	76.2 76.8	76.5	5.6 5.5	5.6	5.6	3.7 3.7	3.7		4.9 5.3	5.1	
13-Jul-16	Rainy	Moderate	09:10		Surface	1.0	27.7 27.8	27.8	8.4 8.4	8.4	9.9 9.9	9.9	80.5 80.6	80.6	5.8 5.8	5.8	5.8	4.1 3.9	4.0		4.7 5.1	4.9	
				4.1	Middle	-	-	-		-		-		-	-	-	5.0	-	-	3.9	-	-	5.1
					Bottom	3.1	27.3 27.7	27.5	8.2 8.2	8.2	17.8 17.0	17.4	79.8 80.2	80.0	5.7 5.7	5.7	5.7	3.8 3.8	3.8		5.1 5.3	5.2	
15-Jul-16	Sunny	Moderate	11:18		Surface	1.0	28.8 28.3	28.5	8.3 8.4	8.3	9.1 8.2	8.6	79.4 79.8	79.6	5.9 5.9	5.9	5.9	5.0 5.2	5.1		4.5 4.9	4.7	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.8	-	-	4.5
					Bottom	2.9	27.9 26.4	27.2	8.2 8.0	8.1	21.1 21.4	21.2	79.0 78.5	78.8	5.8 5.8	5.8	5.8	4.5 4.3	4.4		4.6 3.9	4.3	
18-Jul-16	Sunny	Moderate	13:23		Surface	1.0	29.6 29.6	29.6	8.5 8.5	8.5	19.5 19.5	19.5	101.2 100.8	101.0	7.2 7.2	7.2	7.2	4.8 4.9	4.9		4.8 5.2	5.0	
				4.1	Middle	-	-	-		-		-		-	-	-	1.2	-	-	5.1	-	-	5.6
					Bottom	3.1	28.3 28.2	28.2	8.4 8.5	8.4	22.8 23.3	23.0	97.1 95.0	96.1	6.9 6.7	6.8	6.8	5.2 5.1	5.2		6.6 5.5	6.1	
20-Jul-16	Sunny	Moderate	11:57		Surface	1.0	28.9 28.7	28.8	8.6 8.6	8.6	18.4 17.5	18.0	104.7 104.4	104.6	7.4 7.4	7.4	7.4	4.2 4.1	4.2		6.3 5.2	5.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	4.3	-	-	5.7
					Bottom	2.7	28.0 28.7	28.3	8.6 8.6	8.6	17.9 17.2	17.6	102.1 102.0	102.1	7.2 7.2	7.2	7.2	4.4 4.4	4.4		4.8 6.3	5.6	

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	13:14		Surface	1.0	26.6 28.1	27.3	8.6 8.7	8.6	24.3 20.4	22.3	73.1 73.8	73.5	5.2 5.3	5.3	5.3	10.7 10.8	10.8		4.2 4.8	4.5	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	11.0	-	-	4.8
					Bottom	3.9	26.2 26.3	26.3	8.6 8.6	8.6	25.0 24.6	24.8	72.4 72.6	72.5	5.1 5.1	5.1	5.1	11.3 11.1	11.2		5.4 4.7	5.1	
25-Jul-16	Sunny	Moderate	15:45		Surface	1.0	29.4 29.5	29.5	8.0 8.0	8.0	18.4 18.5	18.5	104.6 104.3	104.5	7.2 7.2	7.2	7.2	5.2 5.4	5.3		6.1 6.0	6.1	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	5.4	-	-	6.0
					Bottom	2.9	28.2 28.2	28.2	8.0 8.0	8.0	20.8 20.8	20.8	101.4 103.2	102.3	7.1 7.2	7.1	7.1	5.4 5.5	5.5		6.3 5.2	5.8	
27-Jul-16	Sunny	Moderate	17:22		Surface	1.0	29.8 29.3	29.6	8.0 8.0	8.0	20.3 20.9	20.6	138.7 140.2	139.5	9.5 9.7	9.6	9.6	4.6 4.4	4.5		6.5 7.1	6.8	
				5.2	Middle	-	-	-		-	-	-	-	-		-	5.0	-	-	4.6	-	-	7.1
					Bottom	4.2	27.4 27.1	27.3	8.0 8.0	8.0	25.1 25.5	25.3	131.8 129.2	130.5	8.9 8.8	8.9	8.9	4.7 4.7	4.7		7.4 7.2	7.3	
29-Jul-16	Sunny	Moderate	10:19		Surface	1.0	29.3 29.4	29.3	8.3 8.3	8.3	15.4 15.3	15.4	116.5 116.4	116.5	8.1 8.1	8.1	8.1	3.3 3.2	3.3		2.7 3.1	2.9	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.4	-	-	3.0
					Bottom	4.1	29.2 29.0	29.1	8.3 8.3	8.3	17.2 17.5	17.3	114.9 114.9	114.9	8.1 8.1	8.1	8.1	3.3 3.5	3.4		3.2 3.0	3.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	F	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	15:45		Surface	1.0	29.0 28.7	28.8	8.2 8.1	8.1	13.2 13.3	13.3	87.1 83.8	85.5	6.2 5.9	6.1	6.1	3.5 3.3	3.4		2.1 2.5	2.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.9	-	-	2.9
					Bottom	3.1	28.6 28.2	28.4	8.1 8.1	8.1	17.2 18.1	17.6	85.2 81.9	83.6	6.0 5.9	5.9	5.9	4.2 4.6	4.4		2.9 4.0	3.5	
4-Jul-16	Sunny	Moderate	06:56		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	20.9 21.2	21.0	79.2 79.5	79.4	5.7 5.6	5.6	5.0	2.3 2.2	2.3		5.0 4.0	4.5	
				4.0	Middle	-	-	-		-	-	-	-	-	-	-	5.6	-	-	2.4	-	-	5.4
					Bottom	3.0	28.1 28.2	28.2	8.1 8.1	8.1	22.6 22.6	22.6	76.8 77.4	77.1	5.5 5.5	5.5	5.5	2.4 2.3	2.4		5.6 6.9	6.3	
6-Jul-16	Rainy	Moderate	08:17		Surface	1.0	28.1 27.9	28.0	8.4 8.4	8.4	15.9 16.9	16.4	72.5 72.1	72.3	5.2 5.1	5.2	5.0	6.3 6.3	6.3		6.2 5.3	5.8	
				4.3	Middle	-	-	-		-	-	-		-	-	-	5.2	-	-	6.3	-	-	5.7
					Bottom	3.3	27.9 27.7	27.8	8.3 8.3	8.3	18.9 19.0	18.9	72.6 72.5	72.6	5.1 5.1	5.1	5.1	6.3 6.3	6.3		5.6 5.3	5.5	
8-Jul-16	Sunny	Moderate	10:09		Surface	1.0	27.8 28.1	27.9	8.4 8.4	8.4	24.2 24.1	24.2	76.1 75.9	76.0	5.3 5.3	5.3	5.3	6.9 6.9	6.9		4.3 3.9	4.1	
				4.3	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	7.1	-	-	4.2
					Bottom	3.3	27.0 26.7	26.9	8.3 8.3	8.3	25.0 23.5	24.2	75.5 75.4	75.5	5.3 5.3	5.3	5.3	7.2 7.1	7.2		3.2 5.1	4.2	
11-Jul-16	Cloudy	Moderate	12:28		Surface	1.0	28.5 28.5	28.5	8.4 8.5	8.5	17.4 17.6	17.5	77.6 77.4	77.5	5.6 5.6	5.6	5.6	4.3 4.2	4.3		3.8 4.0	3.9	
				4.2	Middle		-	-	-	-	-	-	-	-	-	-	5.0	-	-	4.4	-	-	4.2
					Bottom	3.2	28.3 28.2	28.3	8.4 8.4	8.4	21.0 20.3	20.7	76.0 75.3	75.7	5.5 5.5	5.5	5.5	4.4 4.3	4.4		3.8 5.0	4.4	
13-Jul-16	Rainy	Moderate	12:56		Surface	1.0	28.0 27.8	27.9	8.4 8.4	8.4	10.6 11.2	10.9	79.5 79.0	79.3	5.7 5.7	5.7	5.7	4.7 4.5	4.6		5.4 5.1	5.3	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.5	-	-	5.3
					Bottom	2.8	27.4 27.5	27.5	8.2 8.2	8.2	16.6 15.6	16.1	77.4 79.2	78.3	5.5 5.6	5.6	5.6	4.3 4.4	4.4		5.2 5.4	5.3	
15-Jul-16	Sunny	Moderate	15:44		Surface	1.0	29.5 29.4	29.5	8.4 8.3	8.3	8.5 8.5	8.5	81.0 81.1	81.1	6.0 6.0	6.0	6.0	5.8 5.8	5.8		5.2 4.2	4.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	5.6	-	-	5.8
					Bottom	2.7	28.8 28.7	28.8	8.2 8.2	8.2	12.3 12.1	12.2	81.1 81.0	81.1	6.0 6.0	6.0	6.0	5.5 5.3	5.4		7.4 6.4	6.9	
18-Jul-16	Sunny	Moderate	18:33		Surface	1.0	29.7 30.0	29.8	8.7 8.7	8.7	18.0 18.2	18.1	115.2 114.5	114.9	8.2 8.1	8.1	8.1	5.5 5.4	5.5		6.6 6.5	6.6	
				4.3	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	5.7	-	-	6.1
					Bottom	3.3	29.6 29.8	29.7	8.6 8.6	8.6	20.5 18.6	19.6	113.7 110.3	112.0	8.0 7.9	7.9	7.9	5.7 5.8	5.8		6.2 4.9	5.6	
20-Jul-16	Sunny	Moderate	07:41		Surface	1.0	28.0 27.9	27.9	8.5 8.5	8.5	18.5 19.2	18.8	94.3 94.4	94.4	6.7 6.7	6.7	6.7	4.2 4.3	4.3		5.9 5.6	5.8	
				3.9	Middle	-	-	-		-	-	-		-	-	-	0.7	-	-	4.5	-	-	5.5
					Bottom	2.9	28.0 28.2	28.1	8.5 8.6	8.5	18.8 17.6	18.2	92.0 92.3	92.2	6.5 6.5	6.5	6.5	4.5 4.6	4.6		5.1 5.3	5.2	1

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	09:12		Surface	1.0	28.7 28.4	28.6	8.7 8.6	8.7	18.9 17.2	18.1	78.9 79.8	79.4	5.6 5.6	5.6	5.6	5.7 5.6	5.7		3.8 5.0	4.4	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.8	-	-	4.9
					Bottom	4.0	27.2 27.6	27.4	8.6 8.6	8.6	21.3 20.5	20.9	76.2 76.3	76.3	5.4 5.5	5.4	5.4	5.8 5.8	5.8		4.7 5.9	5.3	
25-Jul-16	Sunny	Moderate	11:12		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	20.4 20.5	20.5	72.7 73.6	73.2	5.1 5.2	5.1	5.1	4.7 4.6	4.7		3.9 2.8	3.4	
				4.0	Middle	-	-	-		-		-		-		-	0.1		-	5.1	-	-	3.3
					Bottom	3.0	26.7 26.7	26.7	8.0 8.0	8.0	23.4 23.4	23.4	70.5 70.8	70.7	5.0 5.0	5.0	5.0	5.5 5.4	5.5		3.4 2.8	3.1	
27-Jul-16	Sunny	Moderate	13:20		Surface	1.0	28.3 28.4	28.3	8.0 8.0	8.0	18.4 18.1	18.2	107.0 106.1	106.6	7.5 7.5	7.5	7.5	5.7 5.7	5.7		7.2 7.4	7.3	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5		-	5.8	-	-	7.0
					Bottom	4.0	27.1 27.6	27.4	8.0 8.0	8.0	21.9 21.7	21.8	102.9 105.9	104.4	7.2 7.4	7.3	7.3	5.7 5.8	5.8		6.1 7.2	6.7	
29-Jul-16	Sunny	Moderate	14:42		Surface	1.0	30.2 30.2	30.2	8.3 8.3	8.3	16.4 16.4	16.4	107.4 107.7	107.6	7.4 7.4	7.4	7.4	5.5 5.5	5.5		3.8 3.1	3.5	
				5.0	Middle	-	-	-		-		-		-		-	7.4		-	5.6	-	-	3.1
					Bottom	4.0	27.2 27.0	27.1	8.2 8.1	8.1	25.1 25.8	25.5	104.6 102.6	103.6	7.2 7.1	7.1	7.1	5.6 5.5	5.6		2.5 2.6	2.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	10:16		Surface	1.0	29.1 29.0	29.1	8.3 8.3	8.3	13.3 13.2	13.3	85.7 85.3	85.5	6.1 6.1	6.1	6.1	2.2 2.4	2.3		3.5 2.6	3.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	2.3	-	-	3.4
					Bottom	3.1	28.6 28.6	28.6	8.2 8.3	8.3	17.4 15.7	16.6	82.6 84.0	83.3	5.8 6.0	5.9	5.9	2.2 2.1	2.2		3.1 4.1	3.6	
4-Jul-16	Sunny	Moderate	12:58		Surface	1.0	28.6 28.4	28.5	8.1 8.1	8.1	20.2 22.1	21.1	79.7 79.0	79.4	5.6 5.6	5.6	5.0	3.4 3.5	3.5		4.8 4.1	4.5	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	3.7	-	-	4.9
					Bottom	3.3	28.6 28.0	28.3	8.1 8.0	8.1	20.2 22.7	21.4	78.2 78.2	78.2	5.6 5.6	5.6	5.6	3.8 3.7	3.8		5.8 4.8	5.3	
6-Jul-16	Rainy	Moderate	14:26		Surface	1.0	28.0 28.1	28.1	8.4 8.4	8.4	15.0 15.0	15.0	73.4 75.2	74.3	5.3 5.4	5.3	5.0	5.6 5.5	5.6		3.4 4.4	3.9	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	5.7	-	-	4.8
					Bottom	3.1	28.1 27.9	28.0	8.3 8.3	8.3	17.3 17.3	17.3	74.7 74.4	74.6	5.3 5.3	5.3	5.3	5.8 5.5	5.7		4.9 6.2	5.6	
8-Jul-16	Sunny	Moderate	15:46		Surface	1.0	29.5 29.4	29.4	8.4 8.4	8.4	19.8 19.8	19.8	81.7 82.1	81.9	5.8 5.8	5.8	5.0	4.1 4.2	4.2		4.4 3.8	4.1	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	4.3	-	-	3.8
					Bottom	3.3	29.0 28.8	28.9	8.4 8.4	8.4	22.1 20.8	21.4	80.9 80.2	80.6	5.7 5.7	5.7	5.7	4.4 4.3	4.4		3.2 3.6	3.4	
11-Jul-16	Cloudy	Moderate	17:53		Surface	1.0	28.6 28.6	28.6	8.5 8.5	8.5	16.2 17.0	16.6	84.2 83.2	83.7	6.0 6.0	6.0	6.0	3.8 3.7	3.8		3.7 4.1	3.9	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	3.9	-	-	4.3
					Bottom	3.3	28.3 28.4	28.4	8.4 8.4	8.4	19.9 20.3	20.1	82.3 82.5	82.4	5.9 6.0	6.0	6.0	3.9 3.9	3.9		4.4 4.9	4.7	
13-Jul-16	Rainy	Moderate	07:53		Surface	1.0	27.5 27.7	27.6	8.3 8.3	8.3	15.7 14.6	15.2	82.3 83.7	83.0	5.9 6.0	5.9	5.9	3.5 3.1	3.3		4.2 4.6	4.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.3	-	-	4.2
					Bottom	3.1	27.3 26.9	27.1	8.2 8.2	8.2	17.2 20.7	19.0	84.7 82.4	83.6	6.0 5.9	5.9	5.9	3.0 3.4	3.2		4.2 3.6	3.9	
15-Jul-16	Sunny	Moderate	09:56		Surface	1.0	28.0 28.2	28.1	8.2 8.3	8.3	12.8 10.9	11.9	79.7 80.0	79.9	5.9 5.9	5.9	5.9	2.5 2.4	2.5		3.5 3.8	3.7	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	2.6	-	-	3.7
					Bottom	3.2	26.8 26.8	26.8	8.1 8.1	8.1	20.4 20.3	20.3	79.7 80.4	80.1	5.9 5.9	5.9	5.9	2.7 2.5	2.6		3.7 3.4	3.6	
18-Jul-16	Sunny	Moderate	11:56		Surface	1.0	29.5 29.6	29.6	8.5 8.5	8.5	19.6 19.4	19.5	89.0 89.2	89.1	6.3 6.3	6.3	6.3	4.4 4.3	4.4		7.4 7.8	7.6	
				4.4	Middle	-	-	-		-	-	-	-	-	-	-	0.3	-	-	4.6	-	-	7.8
					Bottom	3.4	26.8 27.1	27.0	8.3 8.3	8.3	25.9 26.4	26.2	86.2 87.1	86.7	6.1 6.2	6.1	6.1	4.7 4.7	4.7		7.9 7.9	7.9	
20-Jul-16	Sunny	Moderate	13:38		Surface	1.0	29.0 29.0	29.0	8.6 8.6	8.6	19.5 17.5	18.5	101.7 102.2	102.0	7.2 7.2	7.2	7.2	4.6 4.6	4.6		6.3 6.2	6.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	4.8	-	-	6.6
					Bottom	3.3	27.7 27.6	27.7	8.5 8.5	8.5	19.1 19.2	19.2	97.1 98.1	97.6	6.9 6.9	6.9	6.9	4.8 4.9	4.9		6.5 7.1	6.8	

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	14:33		Surface	1.0	28.8 27.8	28.3	8.7 8.6	8.7	18.7 21.6	20.1	91.5 91.1	91.3	6.4 6.4	6.4	6.4	5.2 5.1	5.2		4.2 4.1	4.2	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	5.4		-	11.7
					Bottom	4.3	26.9 27.2	27.0	8.6 8.6	8.6	23.2 23.0	23.1	78.1 77.5	77.8	5.4 5.4	5.4	5.4	5.4 5.5	5.5		18.4 20.0	19.2	
25-Jul-16	Sunny	Moderate	17:00		Surface	1.0	29.0 29.0	29.0	7.9 7.9	7.9	19.7 19.7	19.7	104.8 105.2	105.0	7.2 7.3	7.3	7.3	5.9 6.0	6.0		5.5 6.1	5.8	
				3.9	Middle	-		-		-	-	-	-	-	-	-		-	-	6.4		-	6.3
					Bottom	2.9	28.2 28.1	28.1	7.8 7.9	7.9	21.5 21.6	21.5	103.5 103.0	103.3	7.2 7.1	7.2	7.2	6.8 6.8	6.8		7.2 6.4	6.8	
27-Jul-16	Sunny	Moderate	18:31		Surface	1.0	29.4 28.9	29.1	7.9 7.9	7.9	17.8 17.8	17.8	122.0 122.8	122.4	8.4 8.6	8.5	8.5	4.6 4.5	4.6		7.6 9.1	8.4	
				5.0	Middle	-	-	-	-	-	-	-	-	-		-	0.5	-	-	4.7		-	8.0
					Bottom	4.0	27.8 27.2	27.5	7.8 7.9	7.9	23.2 23.0	23.1	115.0 117.1	116.1	7.9 8.2	8.1	8.1	4.7 4.9	4.8		7.9 7.2	7.6	
29-Jul-16	Sunny	Moderate	09:00		Surface	1.0	29.1 29.1	29.1	8.1 8.1	8.1	18.0 17.9	18.0	104.9 108.6	106.8	7.3 7.6	7.4	7.4	3.6 3.5	3.6		3.7 3.7	3.7	
				5.2	Middle	-	-	-	-	-	-	-	-	-		-	7.4	-	-	3.7		-	3.9
					Bottom	4.2	29.0 28.5	28.8	8.0 8.0	8.0	21.1 22.3	21.7	108.5 102.1	105.3	7.4 7.0	7.2	7.2	3.7 3.8	3.8		4.3 3.6	4.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	F	ЭΗ	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	17:04		Surface	1.0	29.0 29.2	29.1	8.2 8.2	8.2	13.1 13.0	13.1	85.8 82.1	84.0	6.1 5.9	6.0	6.0	2.8 2.5	2.7		2.1 2.6	2.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.8	-	-	2.8
					Bottom	3.1	28.7 27.8	28.3	8.1 8.1	8.1	18.1 18.4	18.3	85.5 78.9	82.2	6.0 5.6	5.8	5.8	2.8 3.0	2.9		2.7 3.4	3.1	
4-Jul-16	Sunny	Moderate	05:37		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	22.2 21.9	22.1	82.2 82.1	82.2	5.8 5.9	5.9	5.9	2.3 2.2	2.3		3.6 4.3	4.0	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	2.4	-	-	4.1
					Bottom	3.5	27.9 28.2	28.1	8.2 8.2	8.2	24.9 24.4	24.6	80.3 81.5	80.9	5.7 5.7	5.7	5.7	2.4 2.4	2.4		3.8 4.5	4.2	
6-Jul-16	Rainy	Moderate	06:59		Surface	1.0	27.9 28.1	28.0	8.4 8.4	8.4	16.2 16.2	16.2	74.2 75.4	74.8	5.3 5.4	5.4	5.4	7.7 7.4	7.6		2.6 4.2	3.4	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	7.5	-	-	3.7
					Bottom	3.3	28.0 27.6	27.8	8.4 8.3	8.4	18.2 19.3	18.7	74.9 75.3	75.1	5.3 5.3	5.3	5.3	7.3 7.5	7.4		4.0 3.9	4.0	
8-Jul-16	Sunny	Moderate	08:30		Surface	1.0	28.0 27.9	28.0	8.4 8.4	8.4	23.8 23.4	23.6	75.4 75.2	75.3	5.3 5.3	5.3	5.3	2.3 2.4	2.4		5.3 5.3	5.3	
				4.4	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	2.6	-	-	5.2
					Bottom	3.4	27.7 27.7	27.7	8.3 8.3	8.3	25.3 25.3	25.3	74.7 74.8	74.8	5.2 5.2	5.2	5.2	2.7 2.8	2.8		4.8 5.1	5.0	
11-Jul-16	Cloudy	Moderate	10:57		Surface	1.0	27.8 28.2	28.0	8.4 8.4	8.4	22.1 21.3	21.7	84.6 85.1	84.9	6.0 6.1	6.0	6.0	2.2 2.3	2.3		3.0 3.1	3.1	
				4.3	Middle		-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.4	-	-	3.1
					Bottom	3.3	28.1 28.0	28.0	8.4 8.4	8.4	22.2 24.4	23.3	83.3 83.4	83.4	5.8 5.9	5.9	5.9	2.5 2.5	2.5		2.7 3.5	3.1	
13-Jul-16	Rainy	Moderate	14:17		Surface	1.0	27.0 27.0	27.0	8.3 8.3	8.3	16.0 15.0	15.5	85.3 83.1	84.2	6.1 5.9	6.0	6.0	3.3 3.3	3.3		5.4 4.9	5.2	
				4.3	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	3.4	-	-	4.7
					Bottom	3.3	26.7 26.5	26.6	8.2 8.2	8.2	20.2 19.8	20.0	81.0 82.4	81.7	5.8 5.9	5.8	5.8	3.5 3.3	3.4		4.4 4.0	4.2	
15-Jul-16	Sunny	Moderate	17:08		Surface	1.0	29.1 29.1	29.1	8.3 8.3	8.3	8.8 8.8	8.8	81.6 81.9	81.8	6.1 6.1	6.1	6.1	5.7 5.7	5.7		3.7 5.3	4.5	
				4.2	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	5.6	-	-	4.5
					Bottom	3.2	28.5 28.4	28.4	8.2 8.2	8.2	13.0 13.2	13.1	81.3 82.0	81.7	6.0 6.1	6.0	6.0	5.3 5.5	5.4		3.5 5.4	4.5	
18-Jul-16	Sunny	Moderate	19:57		Surface	1.0	29.6 29.8	29.7	8.5 8.5	8.5	19.3 19.2	19.3	108.9 108.0	108.5	7.7 7.6	7.7	7.7	5.5 5.4	5.5		6.6 6.3	6.5	
				4.5	Middle	-	-	-		-	-	-	-	-	-	-		-	-	5.7	-	-	6.6
					Bottom	3.5	29.7 29.7	29.7	8.5 8.5	8.5	19.4 19.4	19.4	107.8 106.1	107.0	7.6 7.5	7.6	7.6	5.9 5.7	5.8		7.1 6.3	6.7	
20-Jul-16	Sunny	Moderate	06:10		Surface	1.0	27.5 27.4	27.5	8.5 8.5	8.5	20.3 20.4	20.4	86.7 86.9	86.8	6.2 6.1	6.1	6.1	3.5 3.4	3.5		3.7 3.6	3.7	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.7	-	-	5.4
					Bottom	3.4	27.4 27.5	27.5	8.5 8.5	8.5	20.5 20.6	20.5	85.7 85.3	85.5	6.1 6.0	6.0	6.0	3.8 3.8	3.8		7.2 6.9	7.1	1

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	эΗ	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:34		Surface	1.0	27.8 27.8	27.8	8.6 8.5	8.6	19.4 19.4	19.4	80.2 80.4	80.3	5.7 5.7	5.7	5.7	3.4 3.5	3.5		5.0 4.3	4.7	
				5.4	Middle	-		-		-		-		-		-	5.7	-	-	3.6	-	-	5.3
					Bottom	4.4	27.7 27.8	27.7	8.5 8.5	8.5	22.4 19.5	21.0	78.4 77.6	78.0	5.5 5.5	5.5	5.5	3.6 3.6	3.6		5.1 6.6	5.9	
25-Jul-16	Sunny	Moderate	09:57		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	21.2 21.2	21.2	77.8 77.9	77.9	5.4 5.4	5.4	5.4	5.3 5.6	5.5		6.5 6.6	6.6	
				4.1	Middle	-		-		-	-	-	-	-	-	-	0.4	-	-	5.1	-	-	7.8
					Bottom	3.1	27.9 27.9	27.9	8.0 8.0	8.0	21.4 21.3	21.3	80.7 81.4	81.1	5.6 5.7	5.6	5.6	4.6 4.8	4.7		8.6 9.3	9.0	
27-Jul-16	Sunny	Moderate	12:18		Surface	1.0	27.0 27.2	27.1	8.0 8.0	8.0	27.2 27.0	27.1	88.5 92.7	90.6	6.1 6.3	6.2	6.2	8.0 8.1	8.1		10.2 11.7	11.0	
				5.0	Middle	-	-	-	-	-	-	-	-	-		-	0.2	-	-	8.1	-	-	12.6
					Bottom	4.0	26.4 26.9	26.7	8.0 8.0	8.0	28.1 27.2	27.7	85.7 89.6	87.7	5.9 6.1	6.0	6.0	8.0 8.1	8.1		13.6 14.8	14.2	
29-Jul-16	Sunny	Moderate	15:54		Surface	1.0	29.2 29.1	29.1	8.4 8.4	8.4	16.5 17.1	16.8	134.8 131.5	133.2	9.4 9.3	9.3	9.3	5.3 5.2	5.3		5.1 6.7	5.9	
				5.0	Middle	-	-	-	-	-	-	-	-	-		-	3.5	-	-	5.5	-	-	6.4
					Bottom	4.0	26.4 27.7	27.0	8.2 8.4	8.3	21.9 19.5	20.7	122.9 124.1	123.5	8.7 8.7	8.7	8.7	5.7 5.5	5.6		7.4 6.3	6.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	р	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	09:36		Surface	1.0	28.7 28.6	28.6	8.3 8.3	8.3	16.8 16.9	16.8	85.6 85.1	85.4	6.0 6.0	6.0		4.5 4.6	4.6		6.0 6.2	6.1	
				6.5	Middle	3.3	28.3 28.3	28.3	8.3 8.3	8.3	18.1 18.7	18.4	84.0 84.2	84.1	5.9 5.9	5.9	6.0	4.8 4.5	4.7	4.6	5.7 6.8	6.3	6.7
					Bottom	5.5	27.8 27.9	27.9	8.2 8.2	8.2	21.2	21.1	83.2 83.7	83.5	5.9 5.9	5.9	5.9	4.6	4.6		7.4	7.8	
4-Jul-16	Sunny	Moderate	13:26		Surface	1.0	28.5 28.3	28.4	8.3 8.3	8.3	18.2	18.2	75.7 75.8	75.8	5.3 5.3	5.3		5.3 5.1	5.2		8.2 7.9	8.1	
				6.6	Middle	3.3	27.5 27.7	27.6	8.3 8.3	8.3	21.6	21.2	74.2	74.7	5.1 5.3	5.2	5.3	5.2 5.4	5.3	5.3	7.5	7.3	7.8
					Bottom	5.6	27.4	27.3	8.3 8.3	8.3	23.8	23.8	71.9	72.8	5.0 5.2	5.1	5.1	5.3 5.2	5.3		7.9	7.9	
6-Jul-16	Rainy	Moderate	15:02		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	17.3 17.4	17.3	80.8 80.8	80.8	5.7 5.7	5.7		2.6 2.6	2.6		3.1 2.7	2.9	
				6.6	Middle	3.3	28.1 27.9	28.0	8.3 8.3	8.3	17.4	17.6	79.1 79.4	79.3	5.6 5.6	5.6	5.7	2.9	2.9	2.8	3.4 3.7	3.6	3.3
					Bottom	5.6	27.9 27.9	27.9	8.2 8.3	8.3	19.9	19.4	77.8	77.6	5.5 5.5	5.5	5.5	2.9 3.0	3.0		2.8	3.3	
8-Jul-16	Sunny	Moderate	16:22		Surface	1.0	29.4 29.4	29.4	8.3 8.3	8.3	16.3 16.3	16.3	86.1 86.2	86.2	6.0 6.0	6.0		3.8 3.5	3.7		5.4 4.4	4.9	
				6.6	Middle	3.3	29.2 29.1	29.1	8.3 8.3	8.3	16.5 16.5	16.5	84.9 83.4	84.2	5.9 5.9	5.9	6.0	4.0	3.9	4.0	6.3 5.2	5.8	5.3
					Bottom	5.6	28.0 28.8	28.4	8.2 8.2	8.2	18.3 17.4	17.9	83.3 84.7	84.0	5.9 5.9	5.9	5.9	4.4	4.3		4.7	5.1	
11-Jul-16	Cloudy	Moderate	18:15		Surface	1.0	28.6 28.6	28.6	8.3 8.3	8.3	15.1 15.2	15.2	87.8 88.6	88.2	6.3 6.3	6.3		3.6 3.6	3.6		4.9 4.9	4.9	
				6.5	Middle	3.3	28.5 28.4	28.5	8.3 8.3	8.3	15.9 16.1	16.0	88.2 87.1	87.7	6.3 6.2	6.2	6.3	3.4 3.4	3.4	3.5	5.5 5.6	5.6	5.2
					Bottom	5.5	28.4 28.4	28.4	8.3 8.3	8.3	17.5 18.0	17.7	85.9 87.6	86.8	6.1 6.2	6.1	6.1	3.5 3.3	3.4		5.8 4.6	5.2	
13-Jul-16	Rainy	Moderate	07:12		Surface	1.0	27.5 27.6	27.6	8.1 8.1	8.1	15.9 16.5	16.2	80.5 77.5	79.0	5.8 5.7	5.7		2.8 2.9	2.9		4.4 5.2	4.8	
				6.3	Middle	3.2	26.8 26.6	26.7	8.0 8.1	8.0	22.3 19.9	21.1	72.8 73.5	73.2	5.1 5.2	5.2	5.5	3.1 3.0	3.1	3.0	3.2 5.2	4.2	4.9
					Bottom	5.3	26.4 26.7	26.6	8.0 8.0	8.0	23.3 23.1	23.2	70.5 68.9	69.7	5.0 5.0	5.0	5.0	2.9 3.0	3.0		5.8 5.7	5.8	
15-Jul-16	Sunny	Moderate	09:15		Surface	1.0	28.2 28.1	28.2	8.2 8.1	8.2	13.2 13.5	13.3	77.5 78.9	78.2	5.6 5.7	5.7	5.6	3.6 3.6	3.6		6.7 6.6	6.7	
				6.3	Middle	3.2	27.8 27.8	27.8	8.1 8.1	8.1	14.6 14.5	14.6	72.5 76.6	74.6	5.3 5.6	5.4	5.0	3.5 3.5	3.5	3.5	6.0 6.2	6.1	6.3
					Bottom	5.3	25.8 26.3	26.1	7.9 8.0	8.0	25.9 25.0	25.5	73.7 77.9	75.8	5.2 5.5	5.3	5.3	3.4 3.4	3.4		6.4 5.5	6.0	
18-Jul-16	Sunny	Moderate	11:14		Surface	1.0	28.4 28.4	28.4	8.4 8.4	8.4	19.4 19.4	19.4	90.2 90.4	90.3	6.3 6.3	6.3	6.3	5.5 5.8	5.7		6.5 6.1	6.3	
				6.3	Middle	3.2	28.0 28.0	28.0	8.4 8.4	8.4	20.8 20.7	20.7	90.0 90.1	90.1	6.3 6.2	6.2	0.5	5.8 5.6	5.7	5.7	7.0 6.4	6.7	6.6
					Bottom	5.3	27.7 28.2	27.9	8.3 8.3	8.3	23.1 22.7	22.9	88.6 89.1	88.9	6.2 6.2	6.2	6.2	5.8 5.5	5.7		6.6 6.7	6.7	
20-Jul-16	Sunny	Moderate	13:56		Surface	1.0	27.8 28.2	28.0	8.5 8.5	8.5	20.3 20.2	20.3	91.3 96.5	93.9	6.3 6.7	6.5	6.5	6.4 6.5	6.5		8.2 9.1	8.7	
				6.5	Middle	3.3	27.3 27.6	27.4	8.4 8.5	8.4	22.5 21.1	21.8	88.4 93.8	91.1	6.2 6.5	6.4	0.0	6.6 6.7	6.7	6.6	7.2 7.4	7.3	8.2
					Bottom	5.5	27.2 27.1	27.2	8.4 8.4	8.4	23.7 24.0	23.8	90.9 87.7	89.3	6.4 6.1	6.3	6.3	6.6 6.5	6.6		9.1 7.8	8.5	

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	15:11		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	21.6 21.7	21.6	85.4 90.7	88.1	5.9 6.2	6.0	5.6	5.0 4.7	4.9		4.4 6.0	5.2	
				6.3	Middle	3.2	28.1 28.2	28.1	8.3 8.3	8.3	23.9 23.6	23.8	76.5 75.1	75.8	5.3 5.1	5.2	5.0	6.4 6.6	6.5	6.0	7.0 7.5	7.3	6.4
					Bottom	5.3	26.1 26.1	26.1	8.3 8.3	8.3	28.1 28.2	28.2	72.3 71.6	72.0	5.0 4.9	4.9	4.9	6.4 6.5	6.5		7.3 6.3	6.8	
25-Jul-16	Sunny	Moderate	17:16		Surface	1.0	28.4 28.3	28.4	8.0 8.0	8.0	23.0 23.3	23.1	98.5 95.1	96.8	6.7 6.5	6.6	6.6	5.7 5.9	5.8		5.7 5.9	5.8	
				6.4	Middle	3.2	28.1 27.9	28.0	8.0 8.0	8.0	24.4 24.7	24.6	98.2 92.8	95.5	6.7 6.3	6.5	0.0	6.2 6.3	6.3	6.1	7.1 7.5	7.3	7.3
					Bottom	5.4	27.7 28.2	27.9	8.0 8.0	8.0	25.4 24.6	25.0	92.2 96.9	94.6	6.3 6.6	6.5	6.5	6.4 6.1	6.3		9.1 8.6	8.9	
27-Jul-16	Sunny	Moderate	19:11		Surface	1.0	27.9 27.8	27.9	8.0 8.0	8.0	22.5 23.2	22.9	117.6 117.9	117.8	8.1 8.1	8.1	8.1	5.4 5.5	5.5		6.7 6.7	6.7	
				6.4	Middle	3.2	27.4 27.2	27.3	8.0 8.0	8.0	24.6 24.7	24.7	116.8 116.7	116.8	8.0 8.1	8.0	0.1	5.5 5.5	5.5	5.5	7.5 7.4	7.5	7.9
					Bottom	5.4	27.3 27.5	27.4	8.0 8.0	8.0	26.1 25.6	25.9	113.3 115.0	114.2	7.8 7.9	7.9	7.9	5.4 5.6	5.5		10.2 9.0	9.6	
29-Jul-16	Sunny	Moderate	08:17		Surface	1.0	28.5 28.5	28.5	8.4 8.4	8.4	20.6 20.7	20.6	103.0 102.0	102.5	7.1 7.1	7.1	7.1	3.9 4.1	4.0		5.4 7.0	6.2	
				6.2	Middle	3.1	28.4 28.4	28.4	8.4 8.4	8.4	20.8 20.9	20.8	102.0 100.3	101.2	7.1 6.9	7.0	1.1	4.1 4.0	4.1	4.0	5.8 5.9	5.9	6.3
					Bottom	5.2	28.4 28.1	28.2	8.4 8.3	8.4	21.0 21.4	21.2	101.9 99.9	100.9	7.1 6.9	7.0	7.0	3.9 4.1	4.0		6.1 7.2	6.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	Turbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	17:41		Surface	1.0	28.6 28.6	28.6	8.4 8.3	8.4	17.9 17.9	17.9	84.9 84.8	84.9	5.9 5.9	5.9	5.0	5.9 5.8	5.9		3.6 3.1	3.4	
				6.5	Middle	3.3	28.4 28.3	28.3	8.3 8.3	8.3	19.0 19.1	19.0	84.2 84.4	84.3	5.8 5.8	5.8	5.9	6.1 5.9	6.0	6.0	4.2 3.6	3.9	4.0
					Bottom	5.5	28.4 28.3	28.4	8.3 8.3	8.3	21.0 20.8	20.9	82.4 82.2	82.3	5.8 5.8	5.8	5.8	6.0 6.2	6.1		5.2 4.3	4.8	1
4-Jul-16	Sunny	Moderate	05:13		Surface	1.0	27.5 27.7	27.6	8.3 8.3	8.3	22.1 21.6	21.8	77.5 79.3	78.4	5.4 5.5	5.5		2.8 2.6	2.7		4.3	4.5	
				6.3	Middle	3.2	26.6 26.2	26.4	8.3 8.3	8.3	25.4 25.8	25.6	78.6 71.9	75.3	5.5 5.0	5.2	5.4	2.6 2.7	2.7	2.7	4.7	4.7	4.7
					Bottom	5.3	26.1 25.9	26.0	8.3 8.3	8.3	27.8	27.9	77.0	74.1	5.4 5.0	5.2	5.2	2.8	2.8		5.4 4.5	5.0	
6-Jul-16	Rainy	Moderate	06:34		Surface	1.0	26.4 26.6	26.5	8.2 8.2	8.2	24.9 25.0	24.9	72.5 72.6	72.6	5.4 5.3	5.4		2.2 2.2	2.2		5.0 4.2	4.6	
				6.6	Middle	3.3	26.1 26.3	26.2	8.2 8.2	8.2	26.4 25.6	26.0	72.1	72.3	5.4 5.3	5.3	5.4	2.6 2.5	2.6	2.6	4.5	4.7	4.5
					Bottom	5.6	26.1 26.3	26.2	8.1 8.2	8.2	27.6 27.4	27.5	71.2 71.7	71.5	5.3 5.3	5.3	5.3	2.9 2.8	2.9		4.2 3.9	4.1	
8-Jul-16	Sunny	Moderate	08:00		Surface	1.0	28.4 28.5	28.5	8.1 8.1	8.1	16.6 16.4	16.5	77.9 78.8	78.4	5.6 5.7	5.7	5.0	2.6 2.8	2.7		3.6 3.4	3.5	İ
				6.5	Middle	3.3	28.1 28.1	28.1	8.0 8.0	8.0	18.3 18.2	18.3	76.3 73.7	75.0	5.5 5.3	5.4	5.6	2.5 2.6	2.6	2.6	3.5 3.4	3.5	3.5
					Bottom	5.5	26.9 26.3	26.6	8.0 7.9	7.9	25.8 27.3	26.6	72.3 77.1	74.7	5.1 5.5	5.3	5.3	2.7 2.5	2.6		3.7 3.2	3.5	
11-Jul-16	Cloudy	Moderate	10:17		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	17.7 18.0	17.8	77.9 76.1	77.0	5.5 5.4	5.4	5.3	2.8 2.7	2.8		5.5 5.4	5.5	
				6.5	Middle	3.3	27.4 27.4	27.4	8.0 8.0	8.0	20.7 20.4	20.5	73.2 77.0	75.1	5.1 5.4	5.2	5.5	2.6 2.7	2.7	2.7	5.5 6.5	6.0	5.7
					Bottom	5.5	26.6 27.3	27.0	7.9 7.9	7.9	24.3 22.7	23.5	71.7 76.1	73.9	5.0 5.3	5.2	5.2	2.6 2.7	2.7		6.3 4.9	5.6	
13-Jul-16	Rainy	Moderate	14:56		Surface	1.0	27.1 27.0	27.0	8.2 8.2	8.2	17.0 17.6	17.3	71.9 72.5	72.2	5.2 5.2	5.2	5.2	2.7 2.7	2.7		2.7 2.7	2.7	
				6.5	Middle	3.3	26.4 26.5	26.4	8.2 8.2	8.2	22.1 22.2	22.2	70.9 71.1	71.0	5.2 5.1	5.2	J.2	2.8 2.8	2.8	2.8	2.1 2.1	2.1	2.8
					Bottom	5.5	25.7 26.8	26.3	8.1 8.2	8.2	25.9 25.0	25.5	69.3 70.6	70.0	5.0 5.1	5.1	5.1	2.8 2.8	2.8		3.8 3.4	3.6	
15-Jul-16	Sunny	Moderate	17:57		Surface	1.0	29.3 29.4	29.3	8.4 8.4	8.4	14.3 14.2	14.2	95.1 93.5	94.3	6.7 6.6	6.7	6.0	3.5 3.5	3.5		5.4 5.6	5.5	
				6.5	Middle	3.3	27.2 26.1	26.7	8.3 8.3	8.3	23.0 23.9	23.5	77.6 75.2	76.4	5.4 5.2	5.3	0.0	3.6 3.5	3.6	3.5	5.9 5.5	5.7	5.4
					Bottom	5.5	25.8 25.5	25.6	8.2 8.2	8.2	27.7 27.3	27.5	68.1 72.5	70.3	4.8 5.1	4.9	4.9	3.5 3.5	3.5		5.2 4.7	5.0	
18-Jul-16	Sunny	Moderate	19:55		Surface	1.0	29.6 29.6	29.6	8.5 8.5	8.5	16.4 16.4	16.4	106.2 106.7	106.5	7.4 7.4	7.4	7.3	4.4 4.2	4.3		6.9 6.6	6.8	
				6.5	Middle	3.3	28.4 28.3	28.3	8.4 8.4	8.4	20.6 20.8	20.7	98.7 105.8	102.3	6.9 7.4	7.1	-	4.3 4.3	4.3	4.3	7.0 6.9	7.0	7.2
					Bottom	5.5	26.2 26.0	26.1	8.3 8.3	8.3	26.8 26.7	26.8	90.0 92.8	91.4	6.3 6.4	6.3	6.3	4.4 4.2	4.3		7.0 8.6	7.8	
20-Jul-16	Sunny	Moderate	05:42		Surface	1.0	27.4 27.3	27.4	8.4 8.4	8.4	22.8 22.6	22.7	79.2 75.5	77.4	5.5 5.3	5.4	5.3	3.5 3.7	3.6		5.4 5.6	5.5	4
				6.6	Middle	3.3	26.0 26.0	26.0	8.3 8.3	8.3	27.5 26.7	27.1	75.0 75.3	75.2	5.2 5.2	5.2		3.5 3.6	3.6	3.6	5.6 6.4	6.0	6.0
					Bottom	5.6	24.5 24.6	24.6	8.3 8.2	8.3	32.3 32.4	32.4	71.4 72.8	72.1	5.0 5.1	5.0	5.0	3.6 3.5	3.6		6.7 6.2	6.5	

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	07:06		Surface	1.0	26.7 26.5	26.6	8.2 8.2	8.2	25.9 25.9	25.9	76.0 77.3	76.7	5.4 5.5	5.4	5.4	3.8 3.7	3.8		5.0 4.1	4.6	
				6.6	Middle	3.3	26.1 25.9	26.0	8.2 8.2	8.2	28.6 28.6	28.6	74.0 76.8	75.4	5.2 5.4	5.3	5.4	3.8 3.9	3.9	3.8	5.2 4.8	5.0	4.5
					Bottom	5.6	25.1 24.8	25.0	8.2 8.1	8.2	31.9 32.8	32.3	74.5 71.3	72.9	5.3 5.0	5.1	5.1	3.8 3.8	3.8		4.0 3.9	4.0	
25-Jul-16	Sunny	Moderate	09:20		Surface	1.0	28.4 28.1	28.3	8.0 8.0	8.0	22.9 23.0	23.0	81.9 82.2	82.1	5.6 5.6	5.6	5.6	3.7 3.7	3.7		5.6 5.7	5.7	
				6.4	Middle	3.2	27.6 27.8	27.7	8.0 8.0	8.0	25.2 25.1	25.2	80.8 78.1	79.5	5.6 5.4	5.5	5.0	3.9 3.8	3.9	3.8	7.3 7.1	7.2	6.3
					Bottom	5.4	26.4 26.5	26.5	8.0 8.0	8.0	28.5 28.9	28.7	75.0 78.4	76.7	5.1 5.4	5.2	5.2	3.8 3.7	3.8		5.9 6.0	6.0	
27-Jul-16	Sunny	Moderate	11:26		Surface	1.0	27.4 27.2	27.3	8.0 8.0	8.0	24.1 24.3	24.2	94.6 94.7	94.7	6.6 6.6	6.6	6.6	3.8 3.9	3.9		7.5 7.4	7.5	
				6.7	Middle	3.4	26.8 26.9	26.9	8.0 8.0	8.0	25.0 24.7	24.9	94.1 94.4	94.3	6.5 6.5	6.5	0.0	3.7 3.8	3.8	3.9	6.8 6.4	6.6	7.4
					Bottom	5.7	27.0 26.6	26.8	8.0 8.0	8.0	25.9 26.2	26.0	93.0 93.2	93.1	6.5 6.5	6.5	6.5	3.9 3.8	3.9		8.3 8.0	8.2	
29-Jul-16	Sunny	Moderate	16:42		Surface	1.0	29.6 29.5	29.5	8.7 8.7	8.7	19.5 19.5	19.5	121.1 120.4	120.8	8.4 8.2	8.3	8.2	3.6 3.5	3.6		4.8 5.4	5.1	
				6.5	Middle	3.3	28.5 28.3	28.4	8.6 8.6	8.6	21.8 22.9	22.3	116.3 116.3	116.3	8.0 8.1	8.0	0.2	3.6 3.6	3.6	3.6	4.6 5.9	5.3	5.5
					Bottom	5.5	25.9 25.0	25.4	8.6 8.5	8.6	29.2 30.2	29.7	113.2 112.5	112.9	7.8 7.7	7.8	7.8	3.6 3.6	3.6		5.5 6.6	6.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	09:28		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	16.9 17.0	16.9	85.0 83.5	84.3	6.0 5.9	5.9		4.7 4.8	4.8		6.5 7.1	6.8	
				5.3	Middle	-	-	-		-	-	-	-	-	-	-	5.9	-	-	4.8	-	-	8.0
					Bottom	4.3	28.2 27.9	28.1	8.3 8.3	8.3	20.3 20.5	20.4	83.8 81.4	82.6	5.8 5.7	5.8	5.8	4.8 4.8	4.8		9.4 8.8	9.1	
4-Jul-16	Sunny	Moderate	13:36		Surface	1.0	28.3 28.2	28.2	8.3 8.3	8.3	18.2 18.2	18.2	77.7	76.9	5.5 5.4	5.4		4.8	4.8		5.3 5.4	5.4	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	4.8	-	-	5.4
					Bottom	4.3	27.7 28.3	28.0	8.3 8.3	8.3	21.6 20.9	21.3	75.3 77.0	76.2	5.3 5.3	5.3	5.3	4.8 4.8	4.8		4.5 6.0	5.3	
6-Jul-16	Rainy	Moderate	15:15		Surface	1.0	27.7 27.8	27.7	8.2 8.2	8.2	17.8 17.8	17.8	76.3 76.3	76.3	5.4 5.4	5.4		3.0 2.9	3.0		2.7 2.3	2.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.1	-	-	2.9
					Bottom	4.1	27.6 27.9	27.8	8.2 8.2	8.2	20.0 19.9	20.0	75.9 75.8	75.9	5.4 5.4	5.4	5.4	3.2 3.1	3.2		4.0 2.4	3.2	
8-Jul-16	Sunny	Moderate	16:36		Surface	1.0	29.3 29.3	29.3	8.3 8.3	8.3	16.4 16.3	16.3	86.3 86.5	86.4	6.0 6.1	6.0		4.1 4.0	4.1		3.3 2.4	2.9	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	4.1	-	-	3.2
					Bottom	3.8	29.2 29.2	29.2	8.3 8.3	8.3	16.5 16.5	16.5	86.1 86.1	86.1	6.0 6.0	6.0	6.0	4.2 4.0	4.1		3.4 3.4	3.4	
11-Jul-16	Cloudy	Moderate	18:26		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	15.5 15.6	15.6	89.1 89.0	89.1	6.3 6.3	6.3	6.2	3.6 3.5	3.6		5.0 4.9	5.0	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	3.6	-	-	4.2
					Bottom	4.1	28.5 28.5	28.5	8.3 8.3	8.3	16.1 16.3	16.2	89.0 88.9	89.0	6.3 6.3	6.3	6.3	3.5 3.5	3.5		3.5 3.1	3.3	
13-Jul-16	Rainy	Moderate	07:02		Surface	1.0	27.3 27.4	27.4	8.1 8.1	8.1	15.6 15.5	15.6	70.4 71.8	71.1	5.1 5.2	5.2	5.2	2.9 2.8	2.9		5.3 5.5	5.4	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	2.9	-	-	5.4
					Bottom	4.3	26.6 27.3	26.9	8.0 8.1	8.0	21.9 21.5	21.7	71.6 71.4	71.5	5.1 5.0	5.1	5.1	2.9 2.9	2.9		5.9 4.6	5.3	
15-Jul-16	Sunny	Moderate	09:03		Surface	1.0	28.1 28.3	28.2	8.1 8.1	8.1	12.7 12.6	12.6	82.9 83.5	83.2	6.0 6.1	6.1	6.1	3.7 3.7	3.7		5.3 4.4	4.9	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.8	-	-	6.1
					Bottom	4.0	27.8 28.1	28.0	8.1 8.1	8.1	15.3 15.4	15.3	83.4 82.9	83.2	6.0 6.0	6.0	6.0	3.8 3.7	3.8		7.1 7.2	7.2	
18-Jul-16	Sunny	Moderate	11:02		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	19.4 19.9	19.7	89.6 87.4	88.5	6.3 6.1	6.2	6.2	5.4 5.5	5.5		3.2 4.9	4.1	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	5.5	-	-	4.9
					Bottom	4.2	27.8 28.3	28.0	8.4 8.4	8.4	23.8 22.0	22.9	86.3 88.6	87.5	5.9 6.1	6.0	6.0	5.5 5.3	5.4		5.1 6.1	5.6	
20-Jul-16	Sunny	Moderate	14:06		Surface	1.0	27.8 27.8	27.8	8.5 8.5	8.5	21.2 21.1	21.2	95.4 94.8	95.1	6.7 6.6	6.6	6.6	6.5 6.3	6.4		9.8 9.8	9.8	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.4	-	-	9.3
					Bottom	4.2	27.9 27.5	27.7	8.4 8.4	8.4	22.6 22.9	22.7	96.0 96.9	96.5	6.6 6.7	6.7	6.7	6.4 6.3	6.4		9.1 8.2	8.7	

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	15:22		Surface	1.0	28.7 28.6	28.6	8.4 8.4	8.4	21.7 21.7	21.7	93.1 93.2	93.2	6.4 6.4	6.4	6.4	4.5 4.6	4.6		7.0 8.3	7.7	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	4.7	-	-	8.0
					Bottom	3.7	27.9 28.2	28.1	8.4 8.4	8.4	23.9 23.5	23.7	92.2 92.6	92.4	6.3 6.3	6.3	6.3	4.7 4.7	4.7		7.9 8.7	8.3	
25-Jul-16	Sunny	Moderate	17:26		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	23.7 23.2	23.5	99.6 98.9	99.3	6.8 6.8	6.8	6.8	5.8 5.5	5.7		5.1 5.3	5.2	
				4.8	Middle	-	-	-		-		-		-		-	0.0	-	-	5.7	-	-	5.0
					Bottom	3.8	28.3 28.2	28.2	8.1 8.1	8.1	24.1 24.3	24.2	99.1 98.9	99.0	6.8 6.8	6.8	6.8	5.8 5.5	5.7		4.5 4.9	4.7	
27-Jul-16	Sunny	Moderate	19:20		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	23.7 24.2	24.0	117.8 119.5	118.7	8.1 8.2	8.2	8.2	4.6 4.8	4.7		7.3 7.9	7.6	
				4.8	Middle	-	-	-	-	-	-	-	-	-		-	0.2	-	-	4.8	-	-	8.0
					Bottom	3.8	27.6 27.2	27.4	8.1 8.1	8.1	24.5 24.9	24.7	118.8 117.4	118.1	8.2 8.1	8.1	8.1	4.9 4.8	4.9		8.4 8.4	8.4	
29-Jul-16	Sunny	Moderate	08:05		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	21.7 21.4	21.5	101.2 101.6	101.4	7.0 7.0	7.0	7.0	4.0 3.8	3.9		5.4 7.3	6.4	
				5.3	Middle	-	-	-	-	-	-	-	-	-		-	7.0	-	-	3.9	-	-	6.4
					Bottom	4.3	28.3 28.4	28.3	8.3 8.3	8.3	22.3 21.8	22.1	101.1 101.2	101.2	7.0 7.0	7.0	7.0	3.8 3.8	3.8		6.2 6.3	6.3	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling) Depth (m)		Tempera	ature (°C)	C) pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			T T	Furbidity(NT	U)	Suspended Solids (mg/L)		
	Condition	Condition**	Time	Depth (m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Jul-16	Sunny	Moderate	17:51		Surface	1.0	28.6 28.5	28.6	8.3 8.3	8.3	17.9 18.1	18.0	85.5 83.7	84.6	6.0 5.9	5.9	5.9	5.5 5.3	5.4		4.7 5.1	4.9	
				5.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.4	-	-	4.7
					Bottom	4.7	28.6 28.0	28.3	8.3 8.3	8.3	19.9 20.2	20.1	84.6 84.9	84.8	5.9 5.9	5.9	5.9	5.3 5.5	5.4		4.1 4.6	4.4	
4-Jul-16	Sunny	Moderate	05:01		Surface	1.0	28.1 28.0	28.0	8.4 8.4	8.4	20.1 21.0	20.6	74.9 75.2	75.1	5.2 5.2	5.2	5.2	2.4 2.3	2.4		2.9 3.7	3.3	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	2.5	-	-	3.8
					Bottom	3.6	26.7 26.7	26.7	8.4 8.3	8.4	25.2 25.3	25.2	71.2 69.7	70.5	5.0 4.9	4.9	4.9	2.5 2.4	2.5		4.0 4.5	4.3	
6-Jul-16	Rainy	Moderate	06:24		Surface	1.0	26.4 26.2	26.3	8.2 8.2	8.2	25.6 26.8	26.2	74.5 74.8	74.7	5.4 5.3	5.4	5.4	3.3 3.2	3.3		2.6 2.9	2.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.5	-	-	3.0
					Bottom	4.1	26.1 26.0	26.0	8.2 8.2	8.2	28.0 28.3	28.2	74.6 74.1	74.4	5.3 5.2	5.3	5.3	3.6 3.5	3.6	1	2.9 3.2	3.1	
8-Jul-16	Sunny	Moderate	07:49	5.0	Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	16.9 16.8	16.9	76.0 77.8	76.9	5.4 5.5	5.4	5.4	2.7 2.8	2.8		3.2 3.2	3.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.8	-	-	3.0
					Bottom	4.0	27.9 27.8	27.8	8.0 8.1	8.1	19.3 21.1	20.2	75.3 81.0	78.2	5.3 5.7	5.5	5.5	2.6 2.9	2.8		3.0 2.3	2.7	
11-Jul-16	Cloudy	Moderate	10:06		Surface	1.0	27.8 27.6	27.7	7.8 7.8	7.8	19.0 19.1	19.1	79.1 76.7	77.9	5.6 5.4	5.5	5.5	2.8 2.9	2.9		4.7 5.2	5.0	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	2.9	-	-	5.5
					Bottom	3.9	27.0 27.0	27.0	7.8 7.8	7.8	22.8 22.8	22.8	76.5 78.8	77.7	5.3 5.5	5.4	5.4	2.9 2.8	2.9		7.1 4.9	6.0	
13-Jul-16	Rainy	Moderate	15:06		Surface	1.0	27.7 27.6	27.6	8.2 8.2	8.2	16.5 16.7	16.6	84.4 82.8	83.6	6.1 5.9	6.0	6.0	2.6 2.6	2.6		2.1 4.2	3.2	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.7	-	-	3.4
					Bottom	4.3	26.7 26.1	26.4	8.1 8.1	8.1	22.1 25.0	23.6	77.8 79.5	78.7	5.6 5.8	5.7	5.7	2.6 2.7	2.7		3.1 3.8	3.5	
15-Jul-16	Sunny	Moderate	18:06		Surface	1.0	28.9 29.2	29.1	8.4 8.4	8.4	14.4 14.3	14.4	89.4 86.3	87.9	6.2 6.1	6.1		3.4 3.5	3.5		5.4 5.0	5.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	3.5	-	-	5.6
					Bottom	4.2	26.9 26.3	26.6	8.3 8.2	8.3	25.7 25.5	25.6	85.2 84.5	84.9	6.1 5.9	6.0	6.0	3.4 3.4	3.4		5.8 6.0	5.9	
18-Jul-16	Sunny	Moderate	20:06		Surface	1.0	29.3 29.5	29.4	8.4 8.5	8.4	16.6 16.6	16.6	102.9 103.2	103.1	7.2 7.2	7.2	7.0	4.3 4.5	4.4		7.6 7.9	7.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-		-	7.2	-	-	4.5	-	-	8.5
					Bottom	4.1	26.5 26.4	26.4	8.3 8.3	8.3	25.3 24.9	25.1	96.0 99.5	97.8	6.7 6.9	6.8	6.8	4.4 4.5	4.5		9.1 9.2	9.2	1
20-Jul-16	Sunny	Moderate	05:31		Surface	1.0	26.9 26.9	26.9	8.3 8.3	8.3	24.5 24.4	24.5	85.5 83.8	84.7	5.9 5.8	5.9	5.9	3.2 3.3	3.3		5.0 4.6	4.8	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.3	-	-	5.6
					Bottom	3.8	26.0 26.7	26.4	8.3 8.3	8.3	29.5 28.2	28.9	83.0 83.2	83.1	5.8 5.7	5.7	5.7	3.2 3.2	3.2		6.4 6.1	6.3	1

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

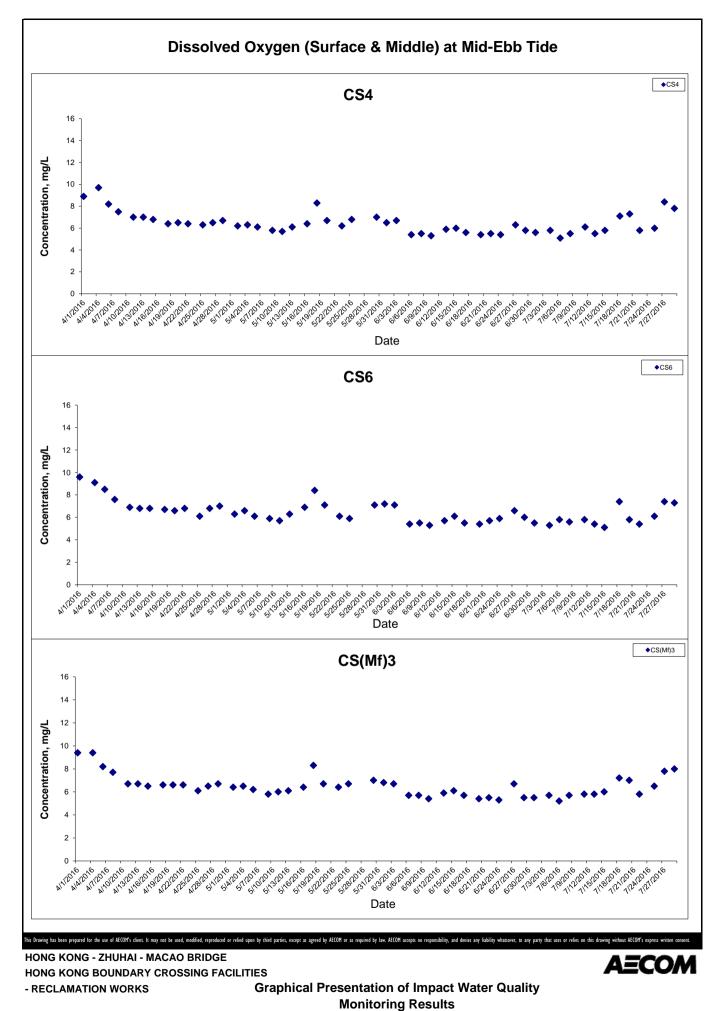
Date	Weather	Sea	Sampling	Water	Sampling Depth (m)		Temperature (°C)		pН		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
	Condition	Condition**	Time	Depth (m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Jul-16	Sunny	Moderate	06:56		Surface	1.0	26.3 26.4	26.4	8.2 8.2	8.2	26.4 25.5	26.0	80.6 78.7	79.7	5.6 5.6	5.6	5.6	3.5 3.5	3.5		5.9 4.8	5.4	
				5.1	Middle	-	-	-	-	-		-		-		-	5.0	-	-	3.6	-	-	5.4
					Bottom	4.1	26.4 25.6	26.0	8.2 8.2	8.2	29.6 30.6	30.1	78.4 78.0	78.2	5.5 5.5	5.5	5.5	3.6 3.6	3.6		5.7 4.8	5.3	
25-Jul-16	Sunny	Moderate	09:11		Surface	1.0	28.4 28.4	28.4	8.0 8.0	8.0	24.3 24.0	24.2	84.7 84.5	84.6	5.8 5.8	5.8	5.8	3.9 3.8	3.9		5.1 5.5	5.3	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.0	-	-	5.9
					Bottom	4.0	27.4 27.1	27.3	8.0 8.0	8.0	28.1 27.7	27.9	89.3 83.8	86.6	6.0 5.7	5.9	5.9	4.0 3.9	4.0		6.9 5.9	6.4	
27-Jul-16	Sunny	Moderate	11:17		Surface	1.0	27.6 27.4	27.5	8.0 8.0	8.0	23.4 23.8	23.6	99.2 96.8	98.0	6.9 6.7	6.8	6.8	3.8 3.8	3.8		7.9 7.9	7.9	
				5.5	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	3.9	-	-	7.6
					Bottom	4.5	27.1 26.9	27.0	8.0 8.0	8.0	25.3 25.8	25.6	98.0 95.4	96.7	6.8 6.6	6.7	6.7	3.9 3.8	3.9		6.6 7.8	7.2	
29-Jul-16	Sunny	Moderate	16:51		Surface	1.0	29.5 29.4	29.5	8.7 8.7	8.7	19.5 19.6	19.5	123.8 130.1	127.0	8.5 9.0	8.7	8.7	3.8 3.7	3.8		5.2 5.2	5.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	3.9	-	-	4.9
					Bottom	4.2	26.2 28.0	27.1	8.6 8.6	8.6	28.0 23.1	25.6	104.3 106.6	105.5	7.2 7.3	7.3	7.3	3.9 3.8	3.9		4.6 4.6	4.6	

Remarks:

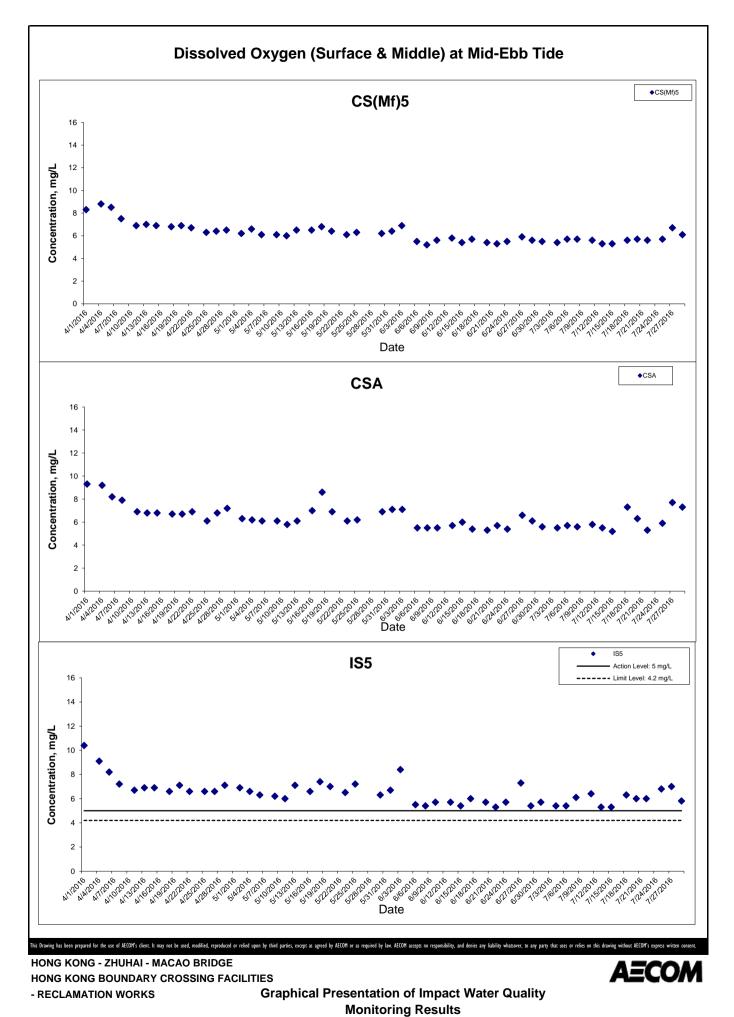
Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

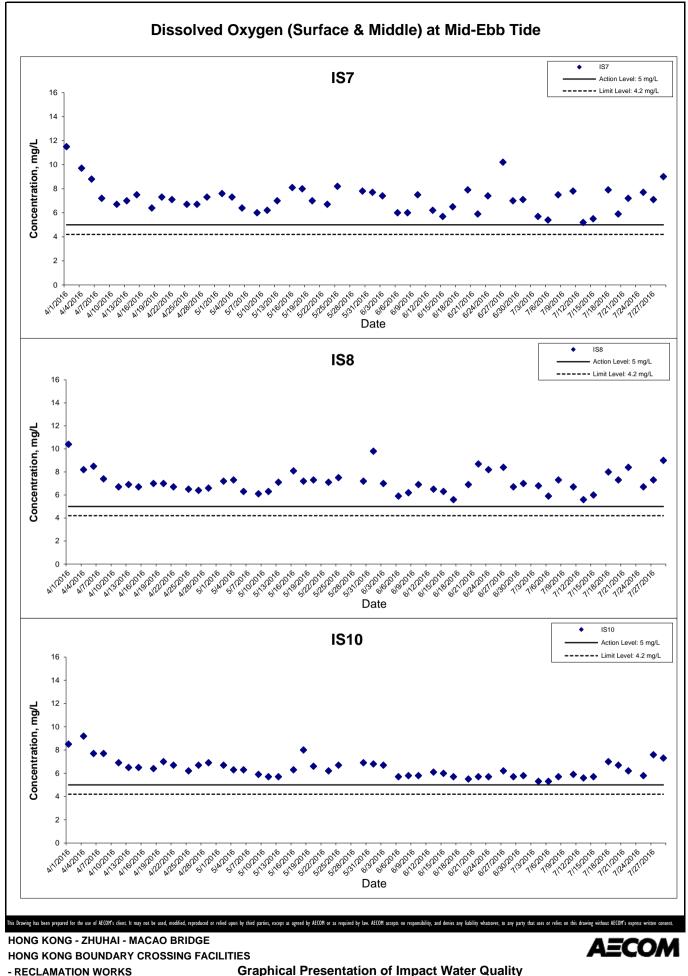
* DA: Depth-Averaged



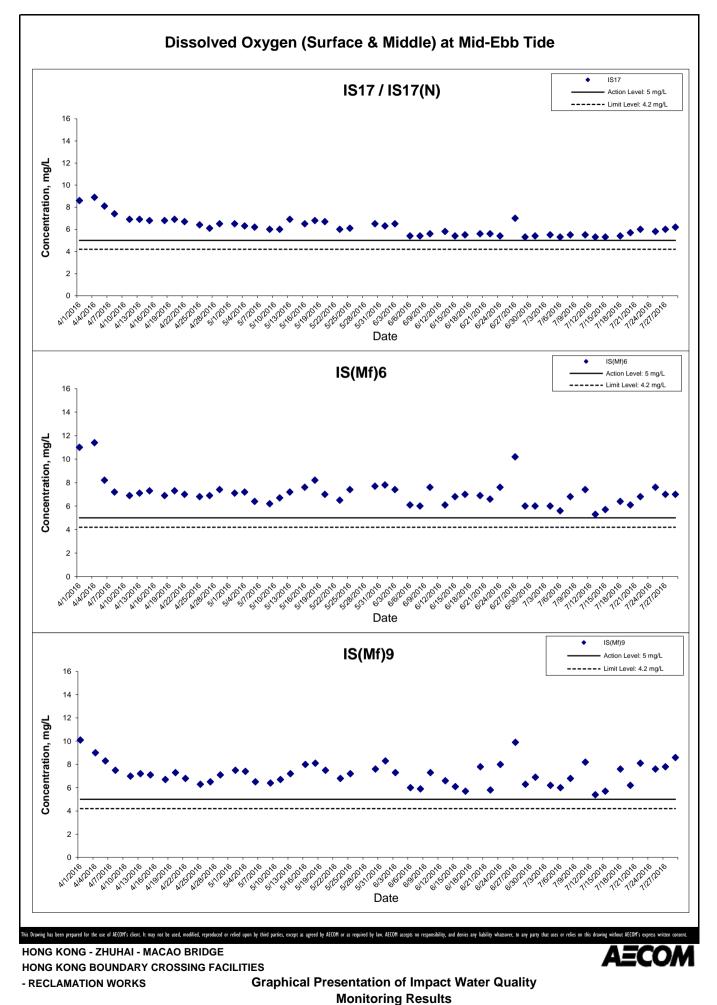
Project No.: 60249820 Date: August 2016



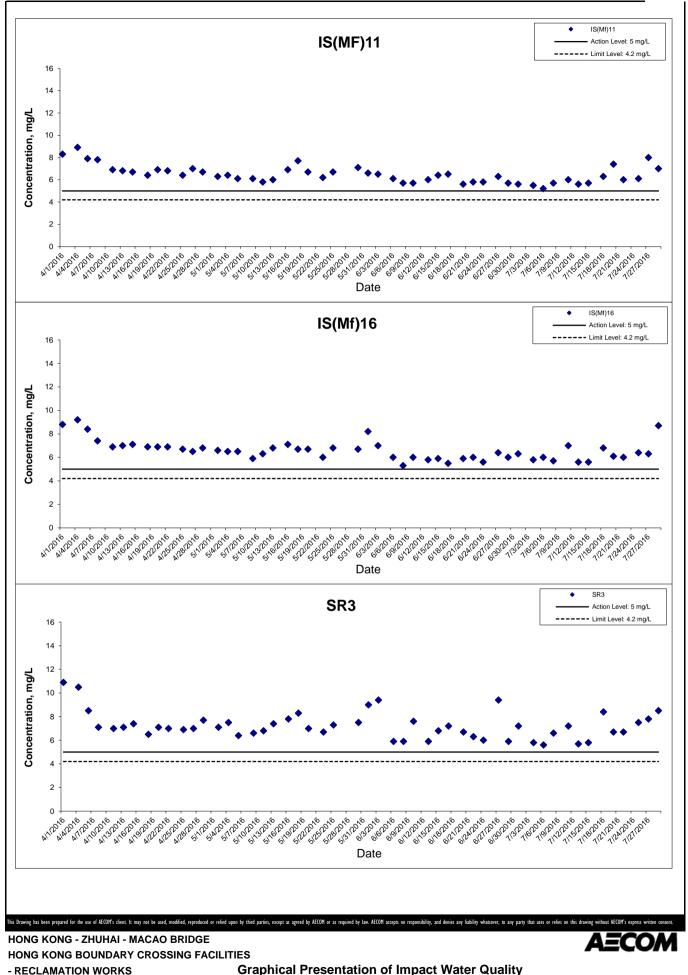
Project No.: 60249820 Date: August 2016



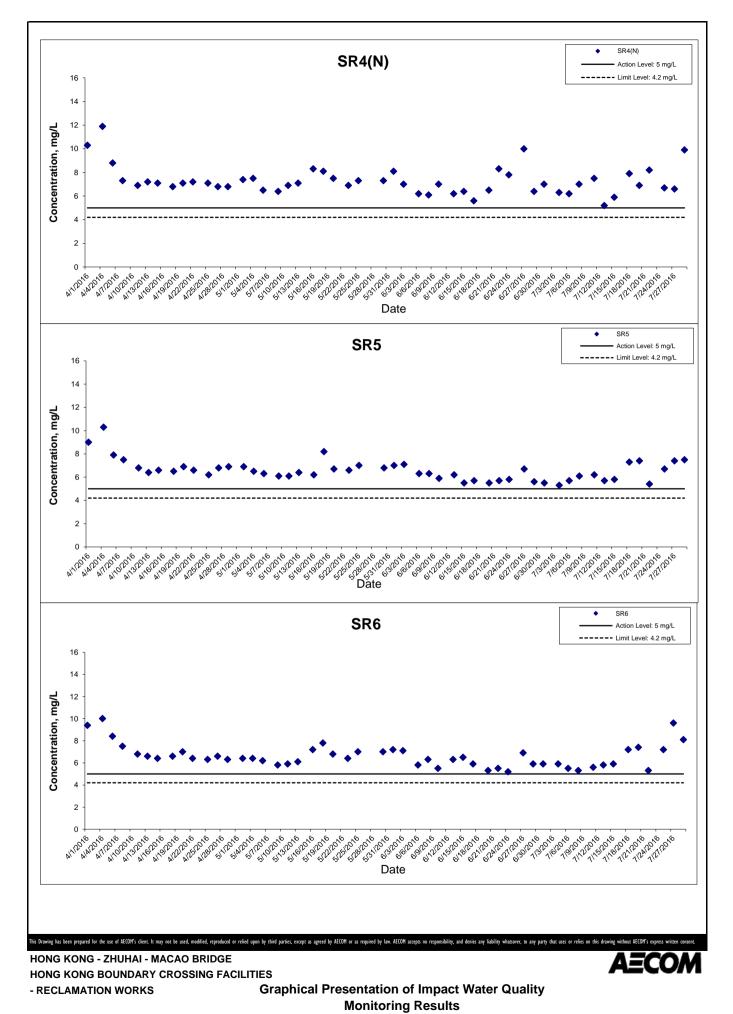
Graphical Presentation of Impact Water Quality Monitoring Results

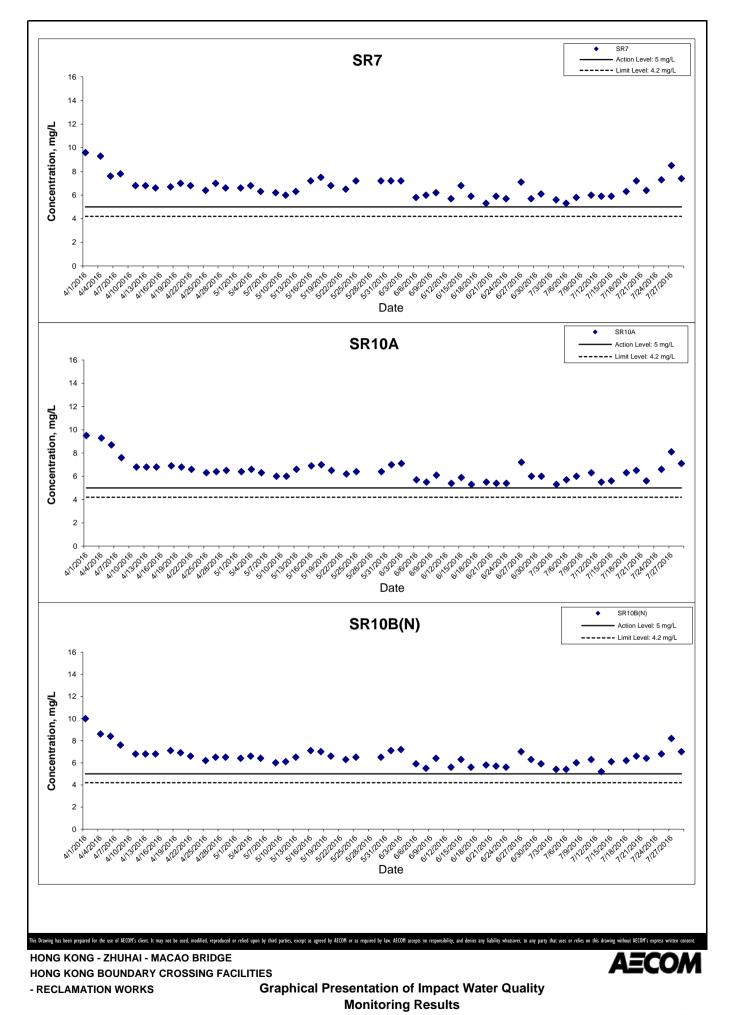


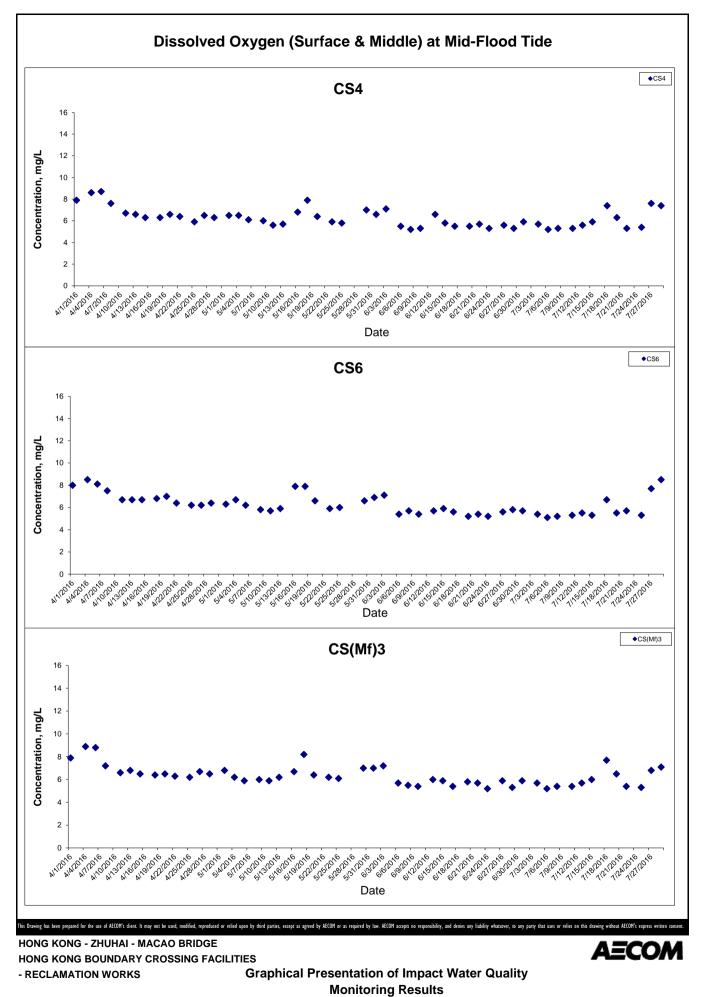
Project No.: 60249820 Date: August 2016



Graphical Presentation of Impact Water Quality Monitoring Results



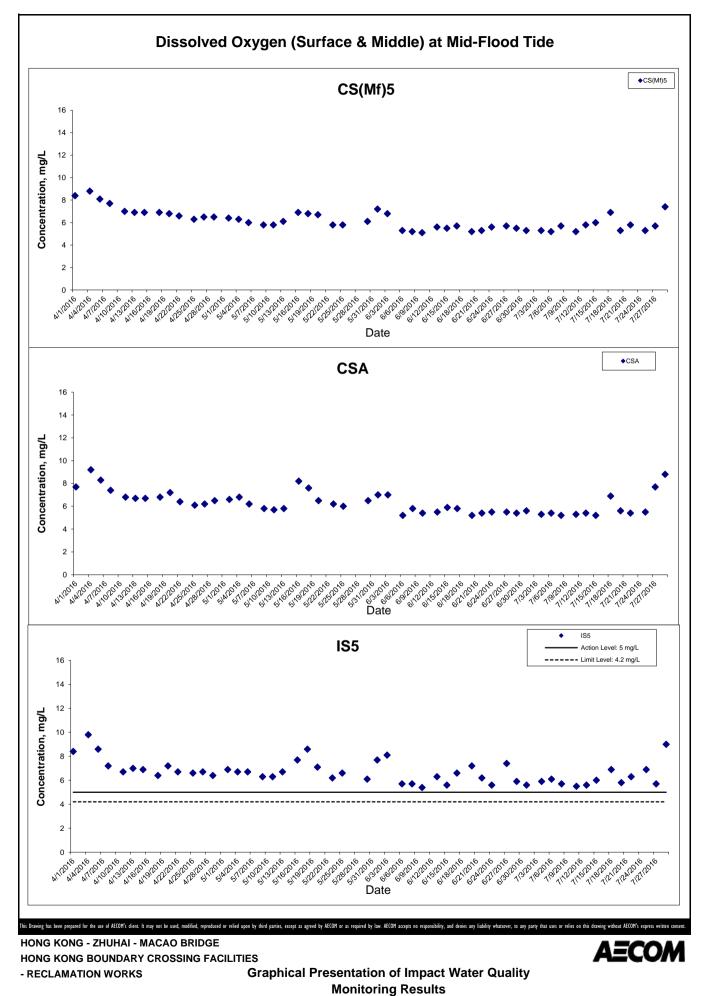




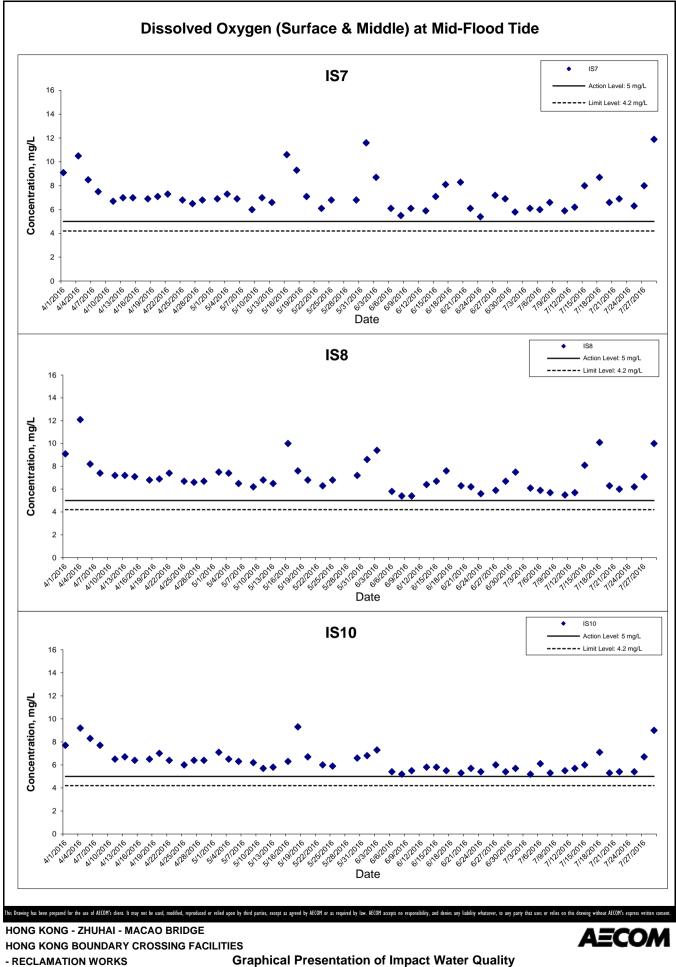
Date: August 2016

Appendix J

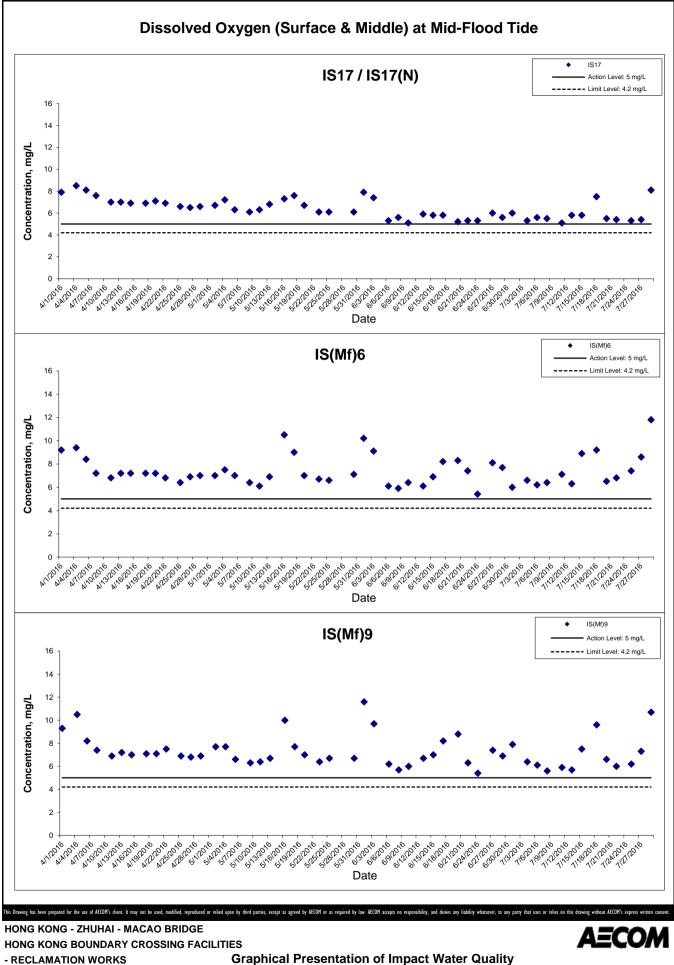
Project No.: 60249820

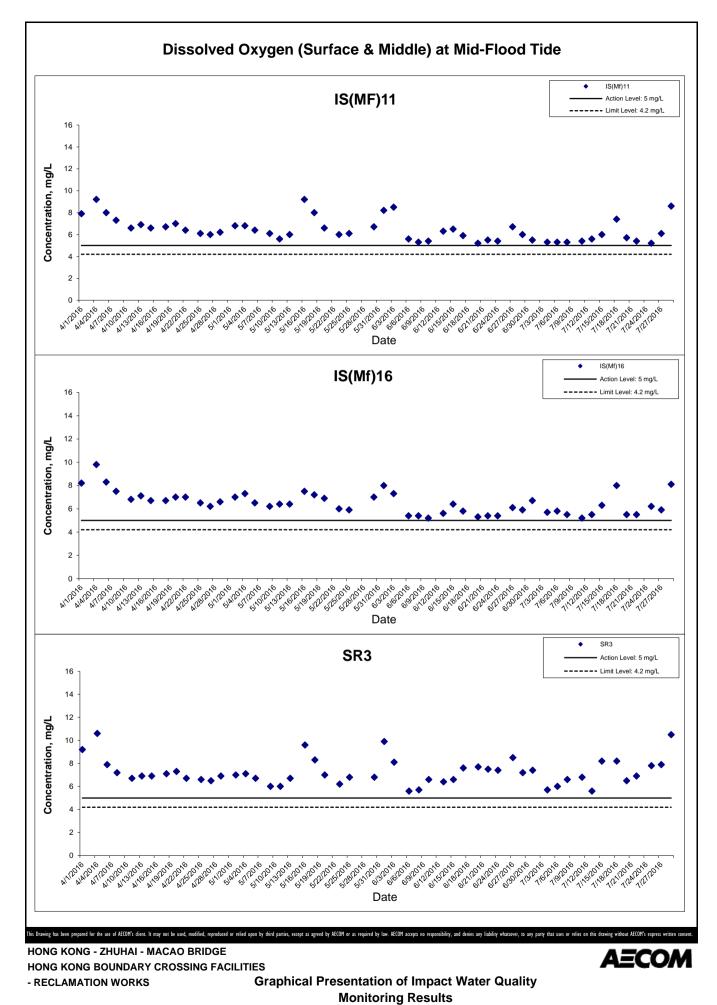


Project No.: 60249820 Date: August 2016

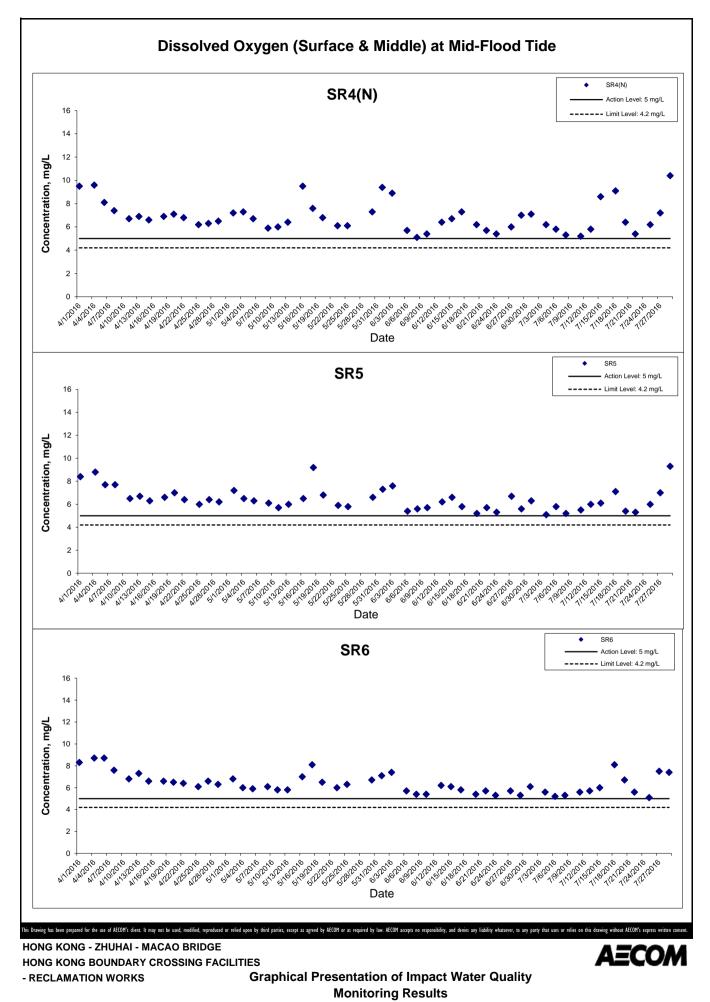


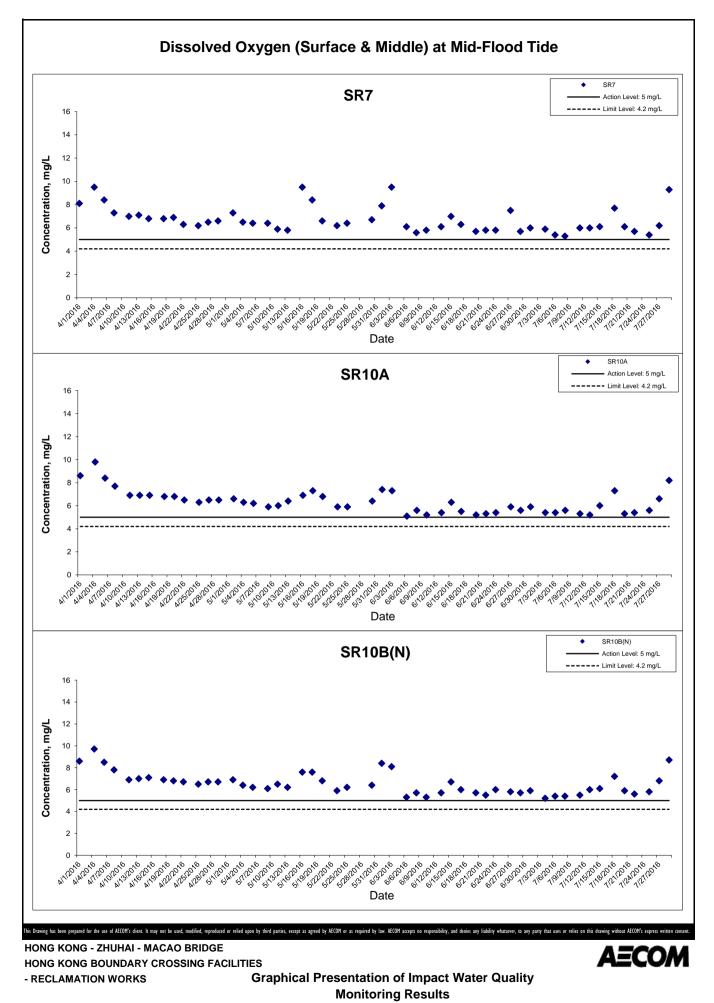
Monitoring Results

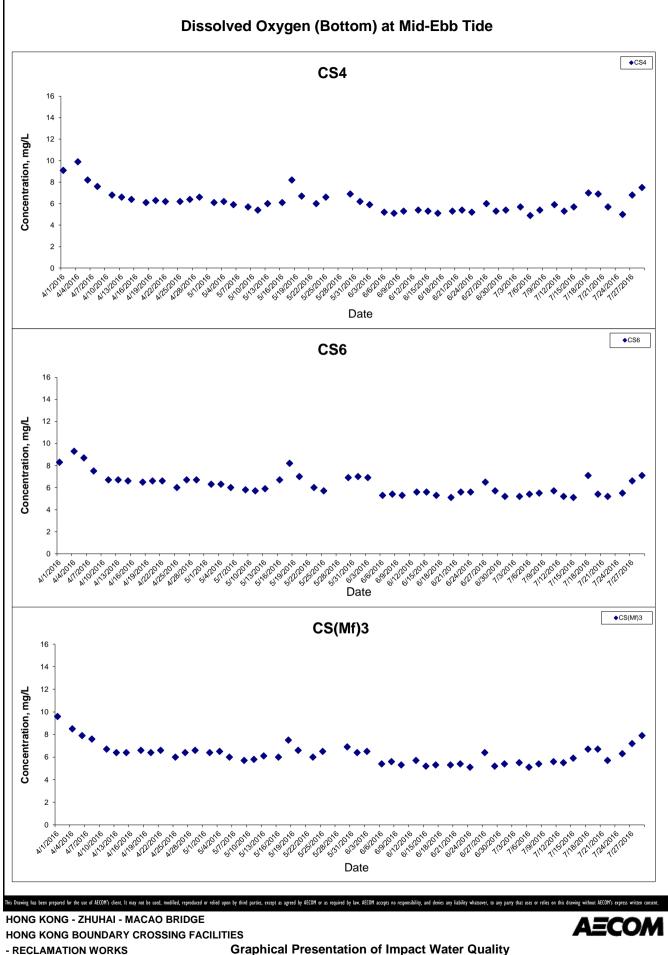


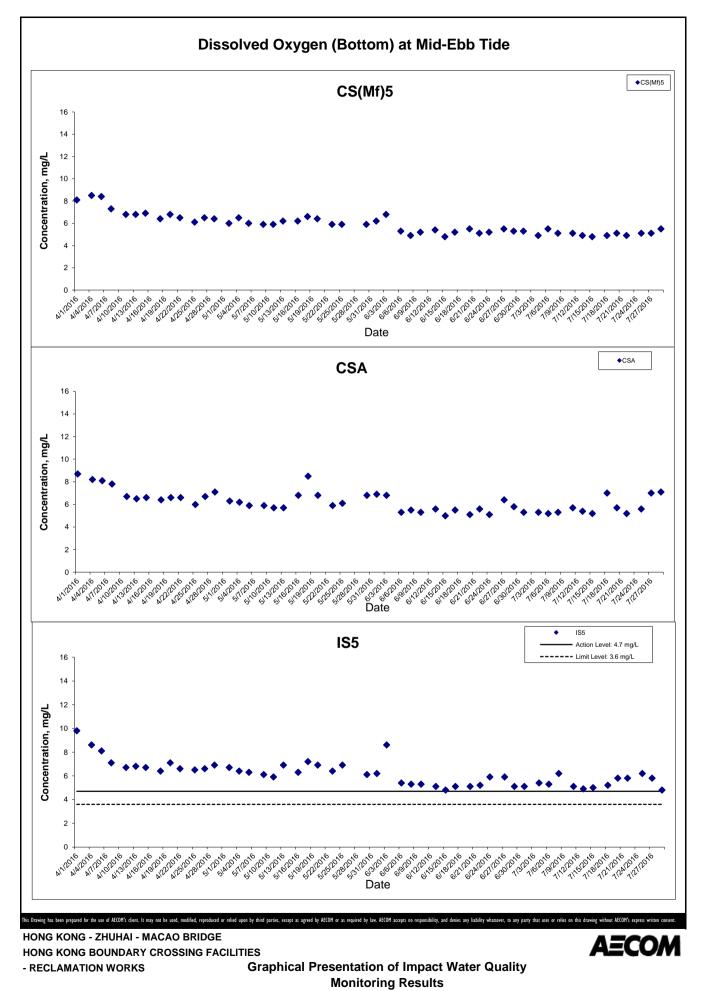


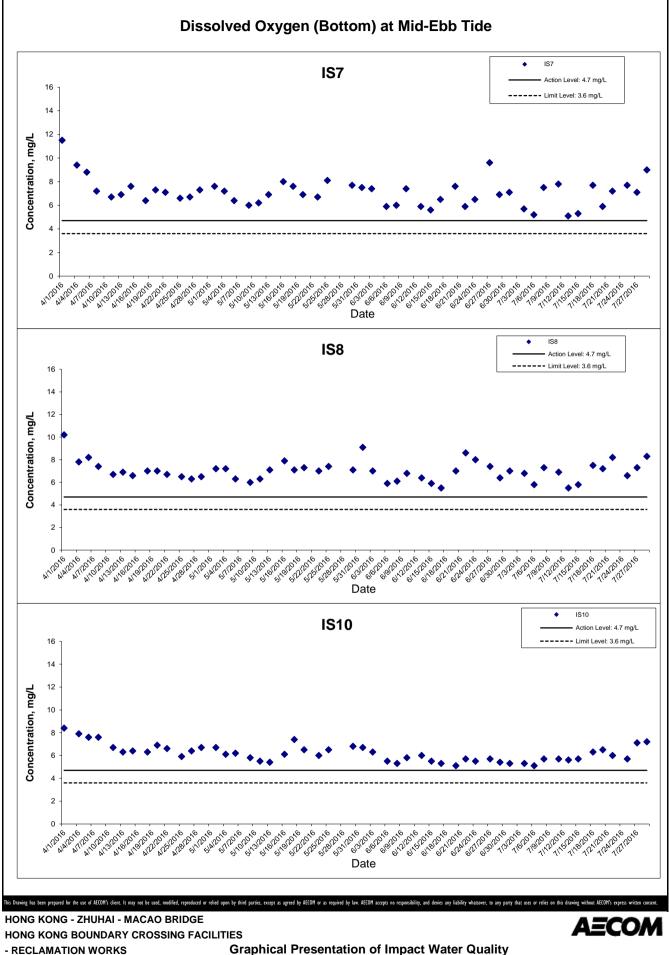
Appendix J



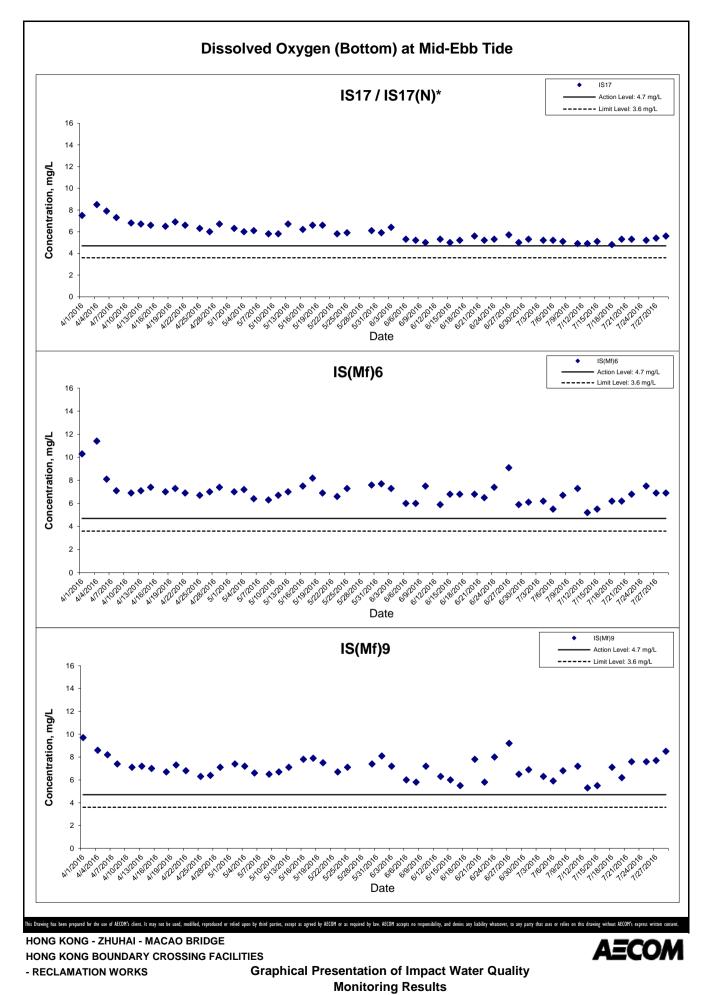


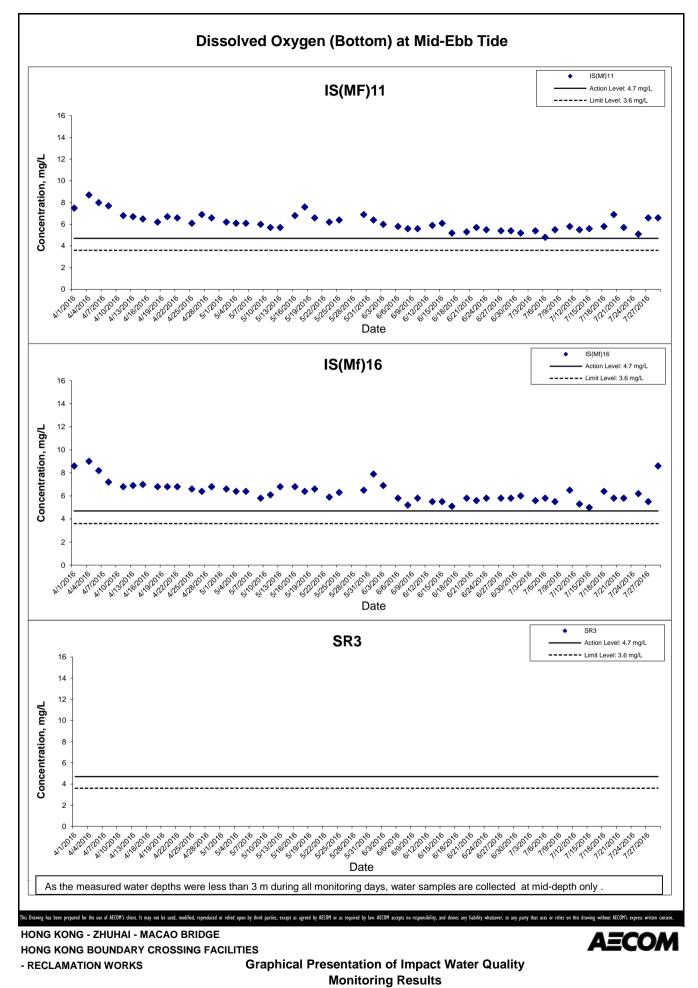




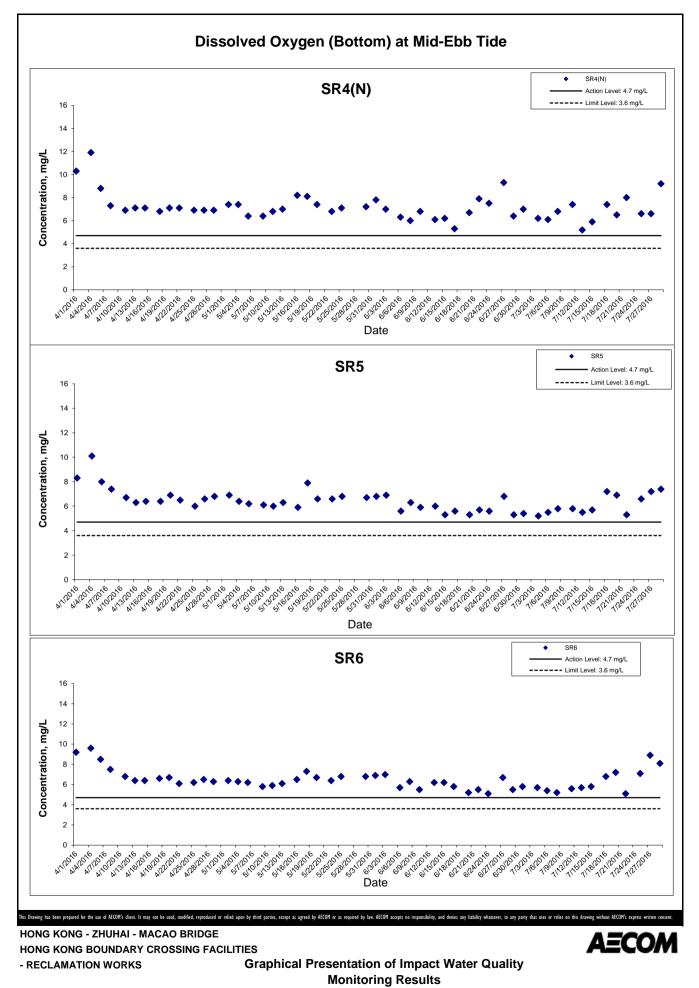


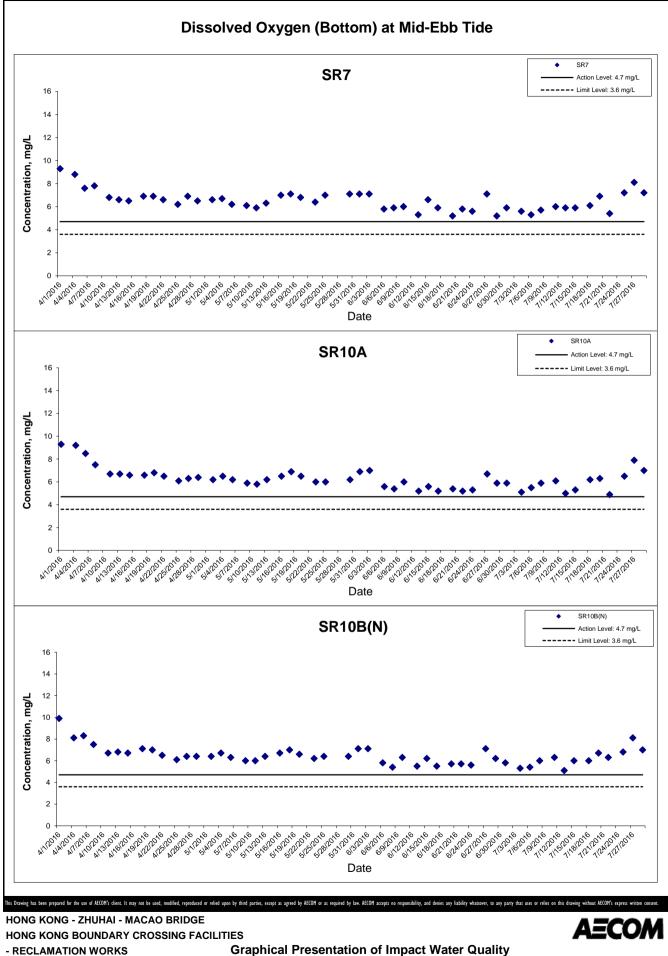
Graphical Presentation of Impact Water Quality Monitoring Results



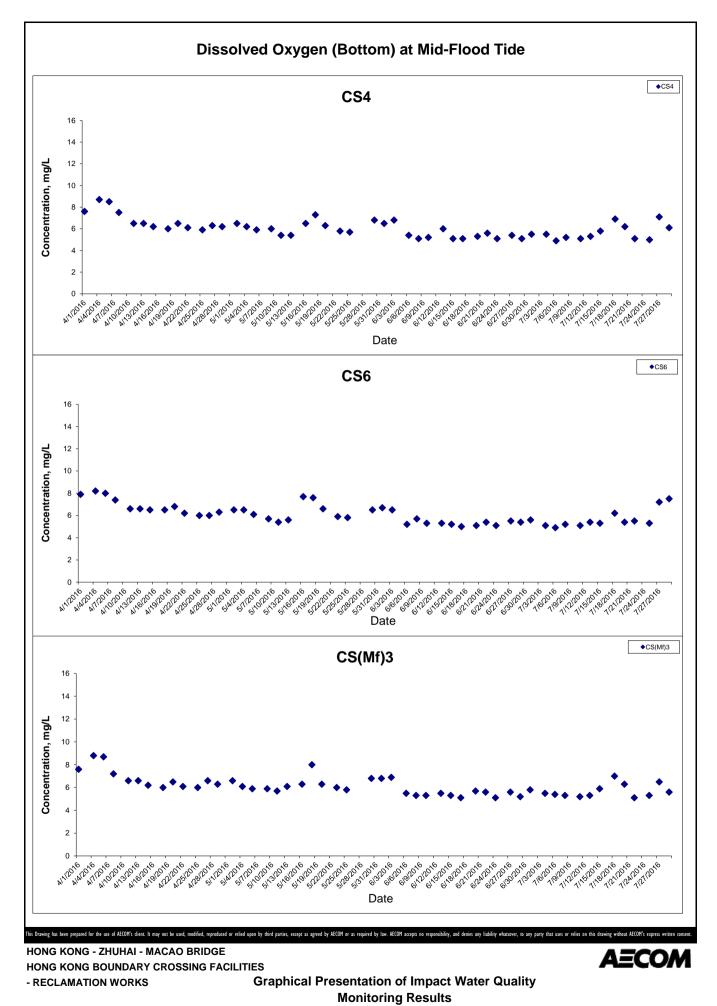


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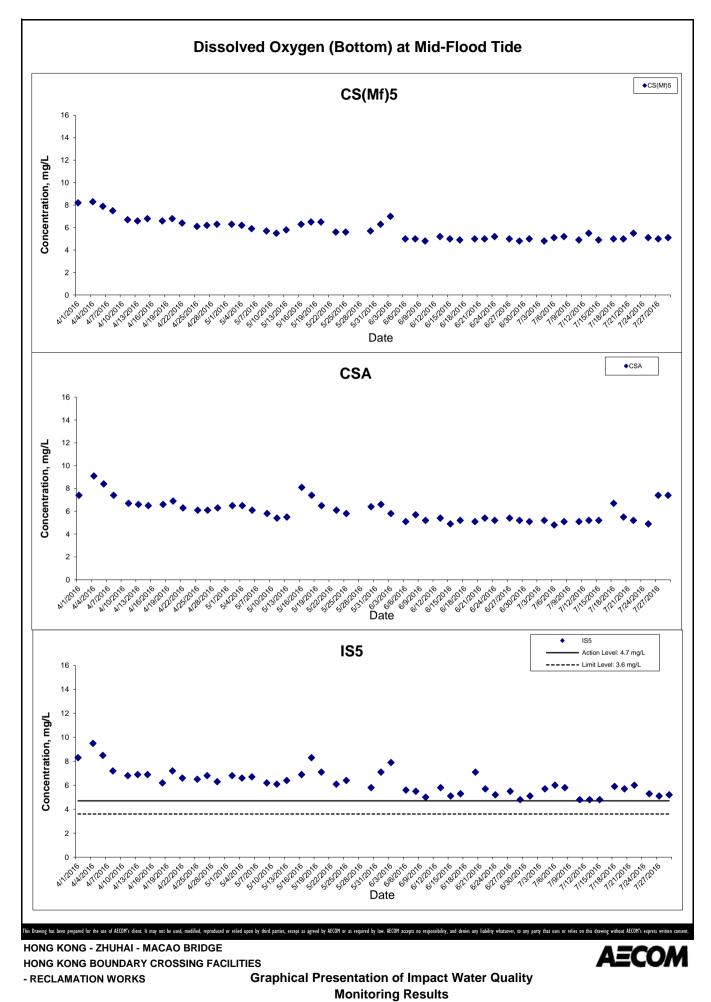


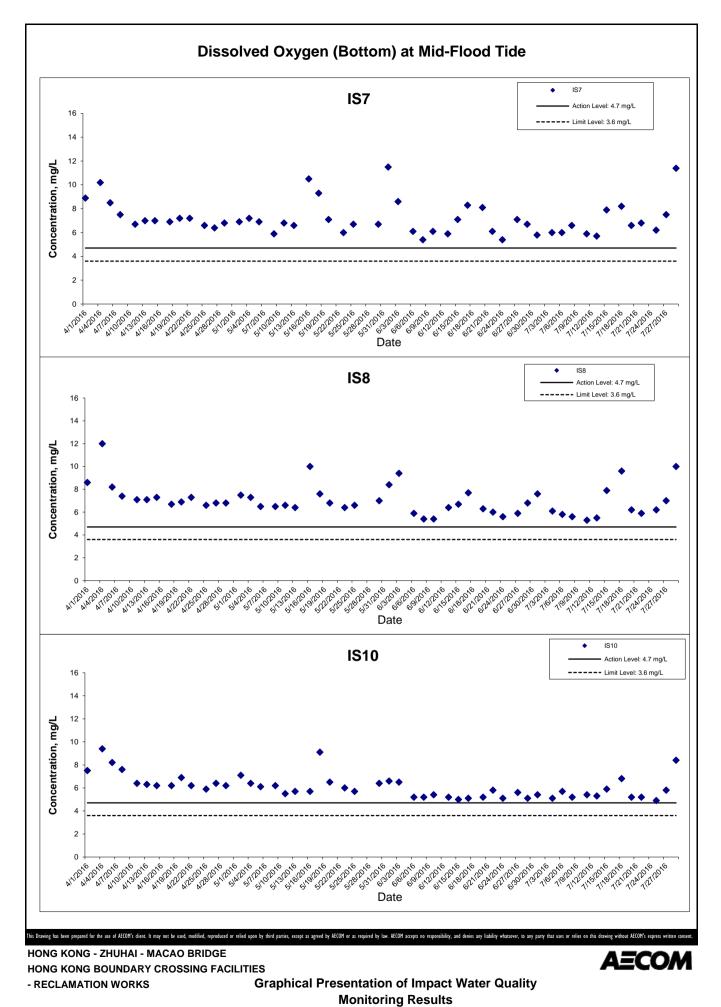


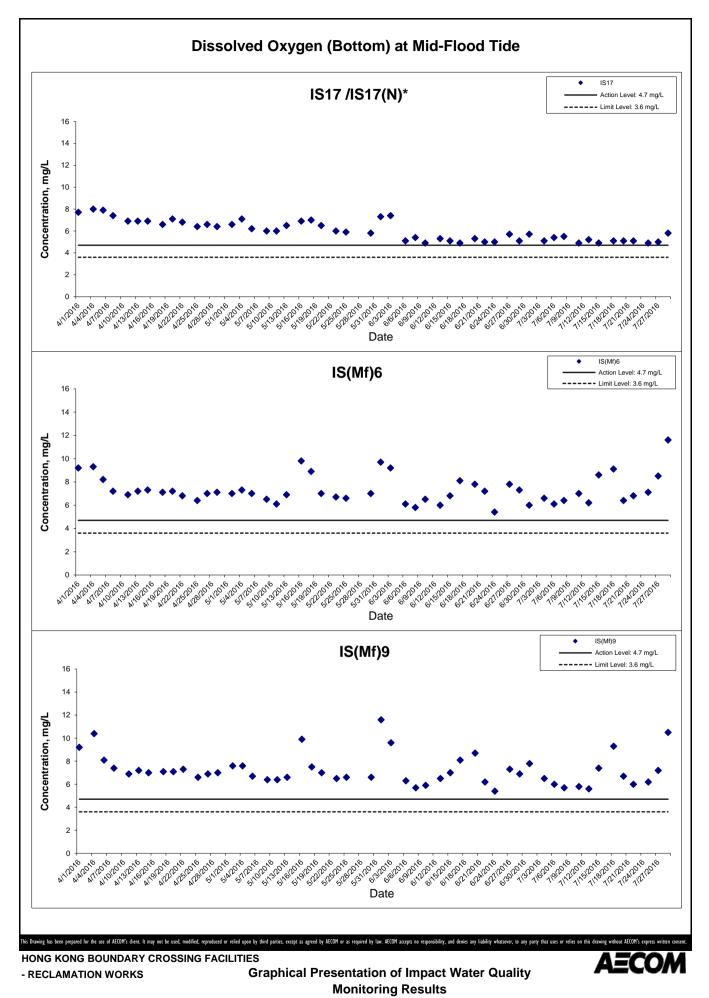
Monitoring Results

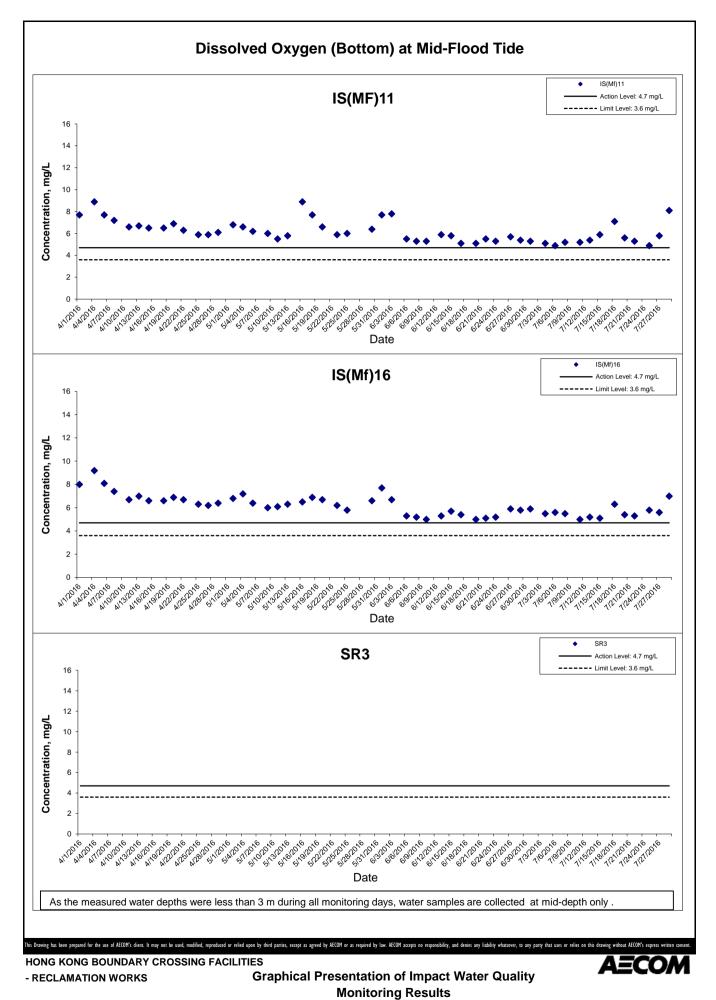


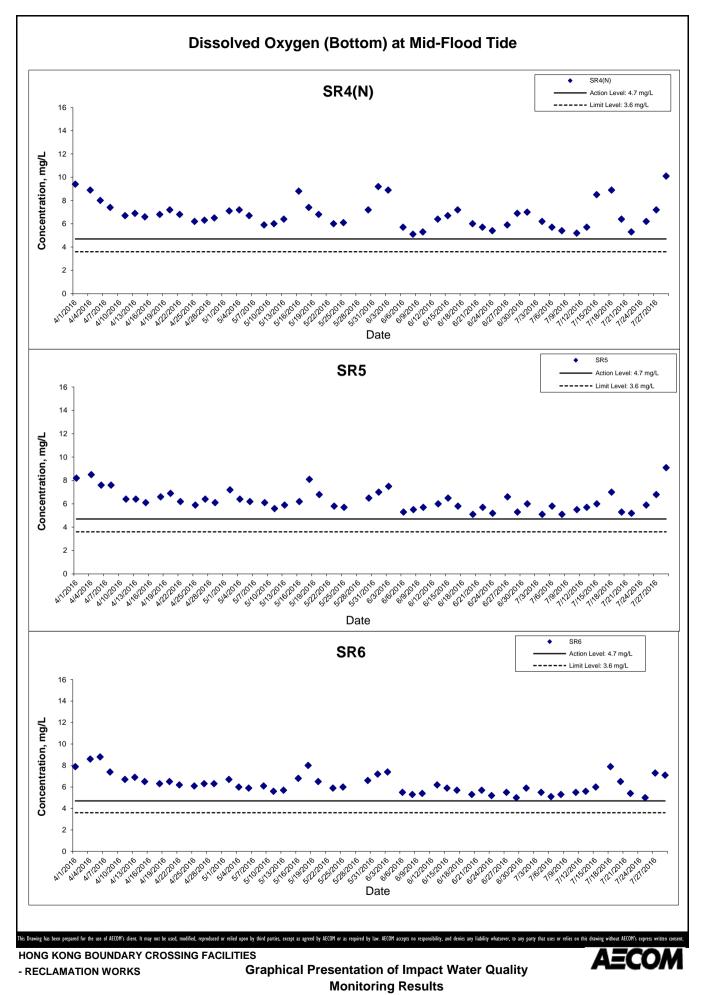
Appendix J



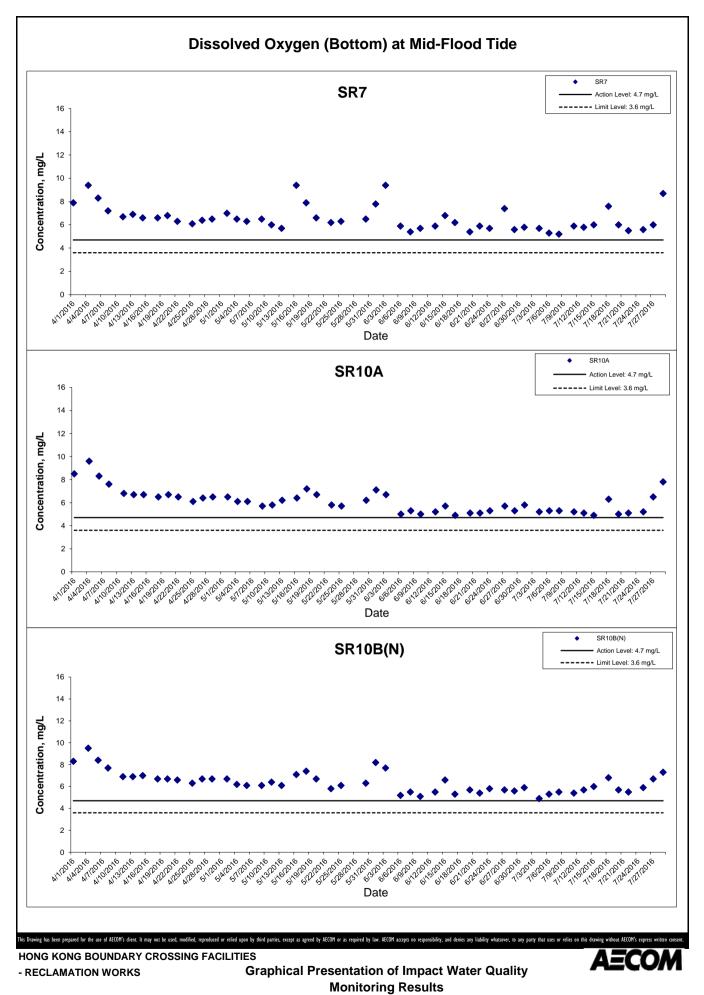




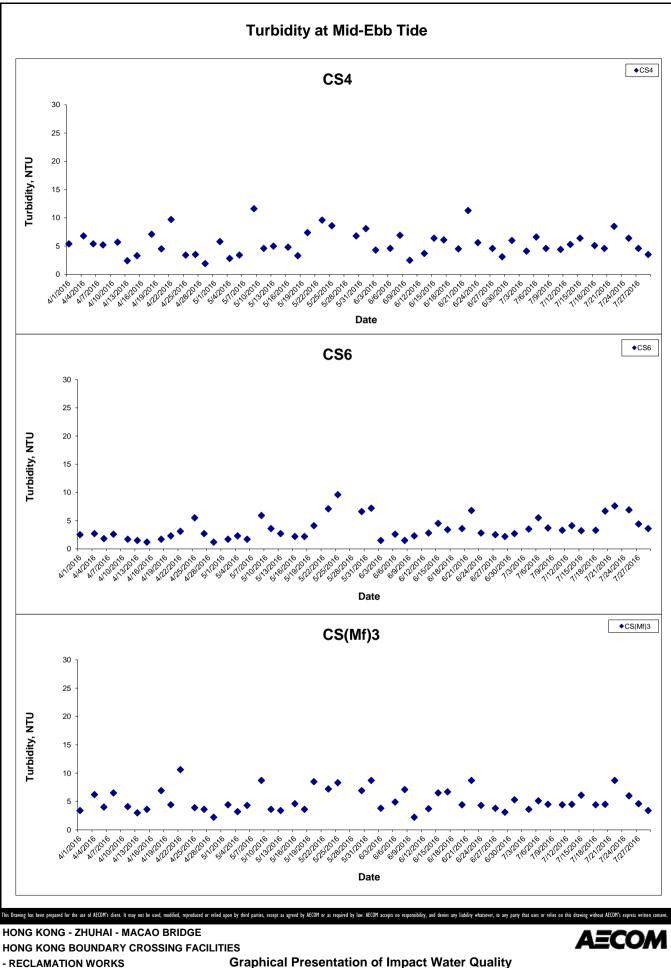


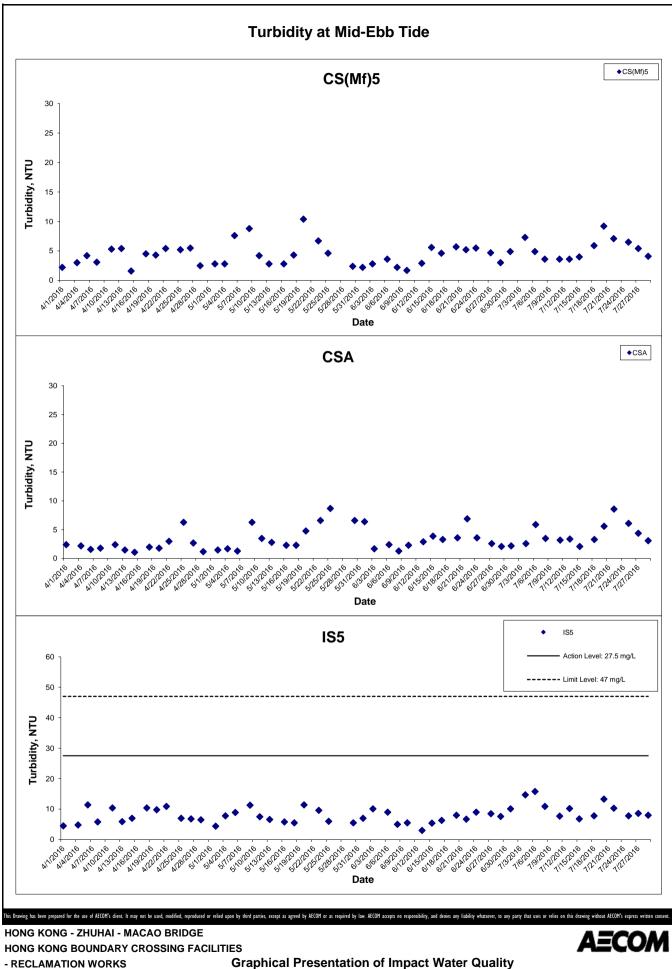


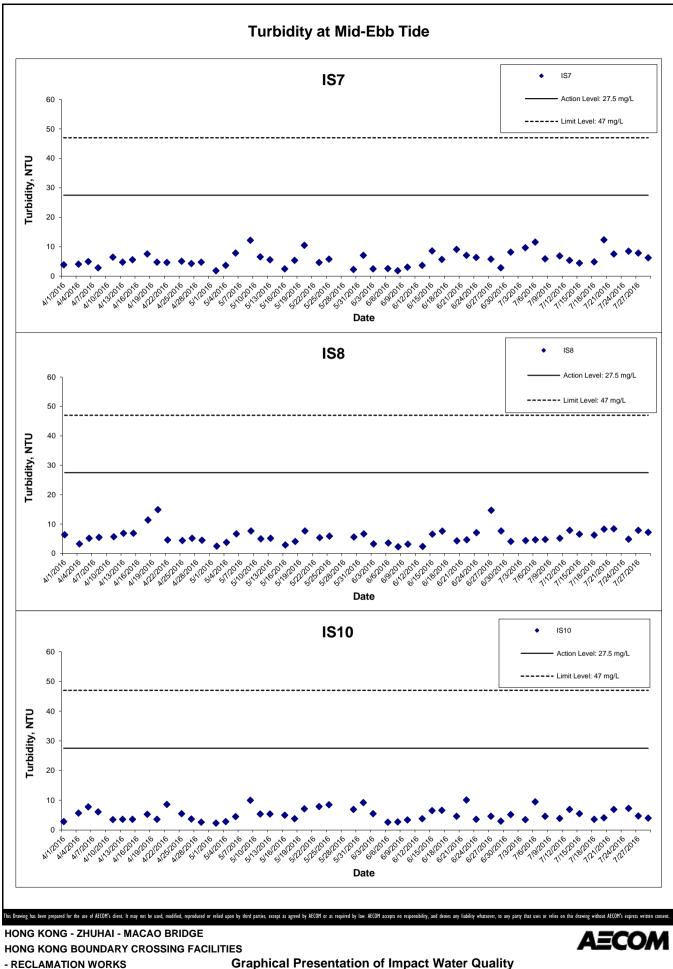
Project No.: 60249820 Date: August 2016

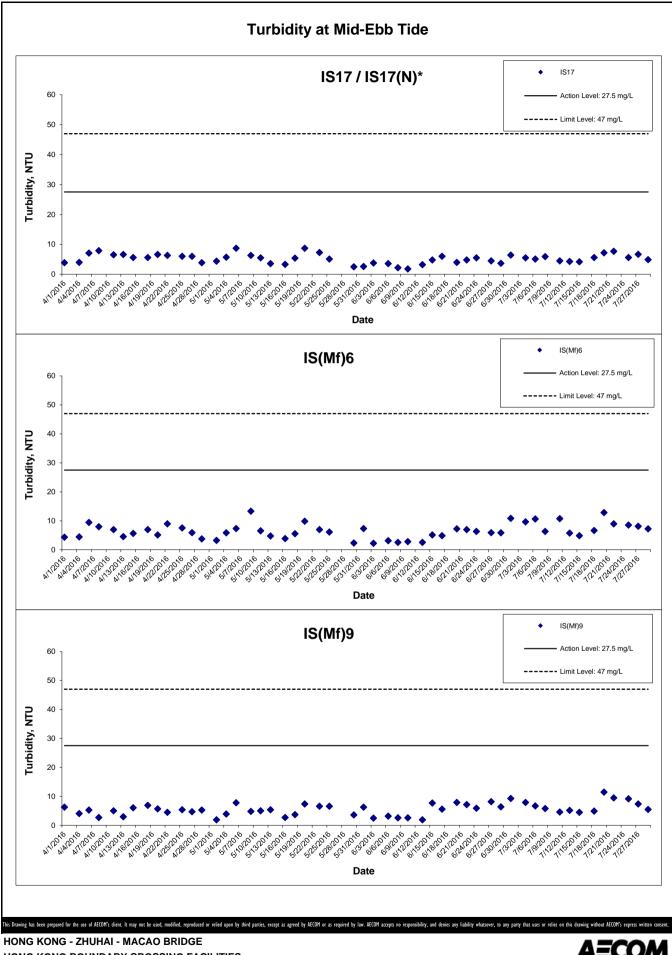


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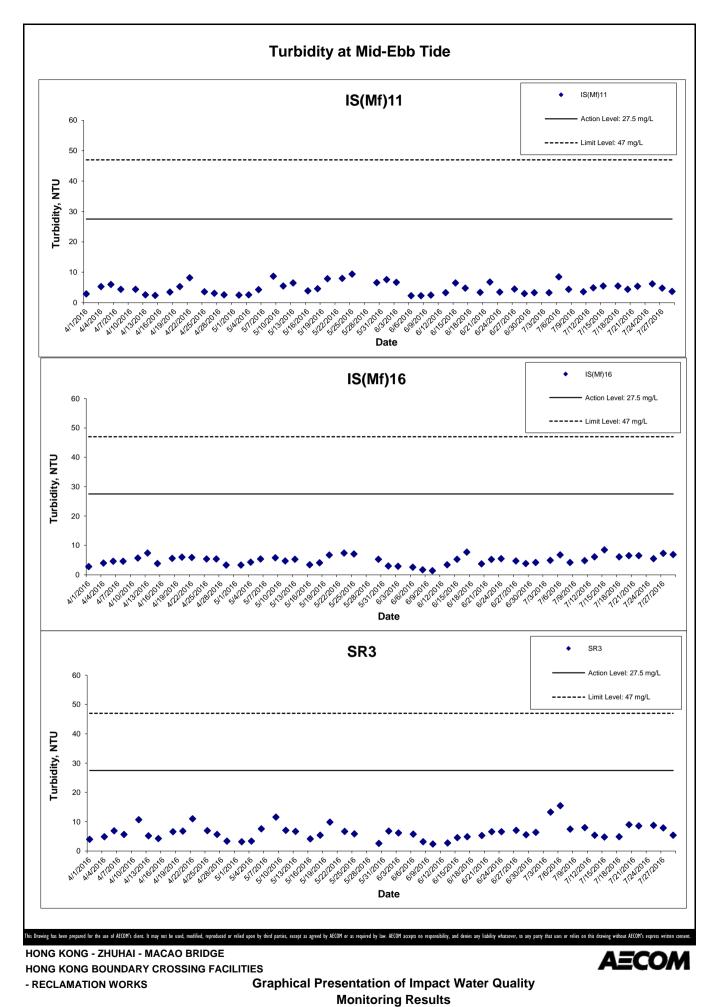




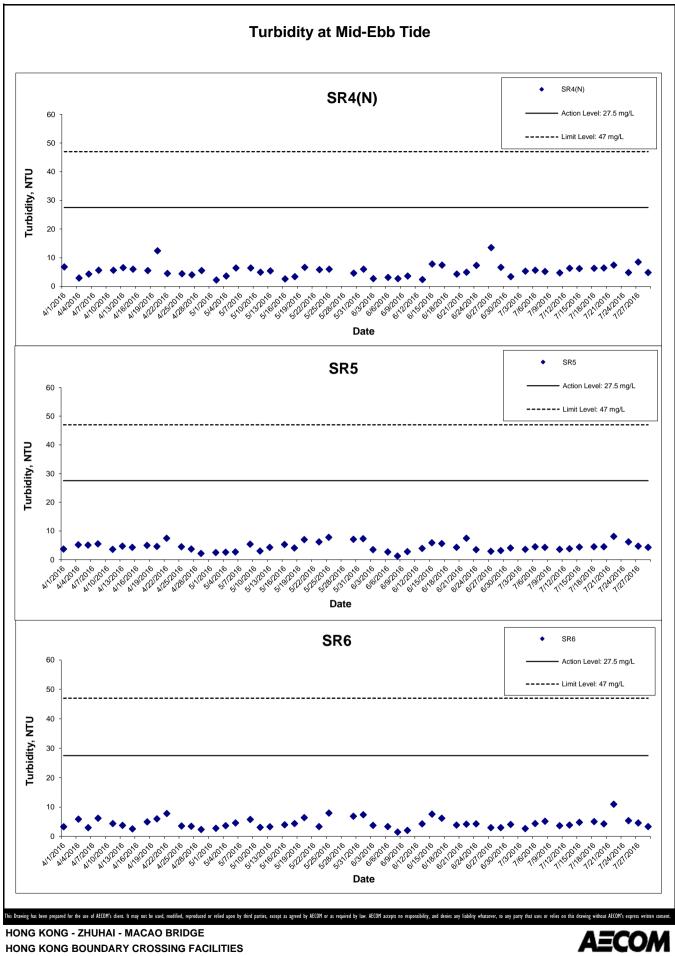
HONG KONG BOUNDARY CROSSING FACILITIES

Graphical Presentation of Impact Water Quality Monitoring Results

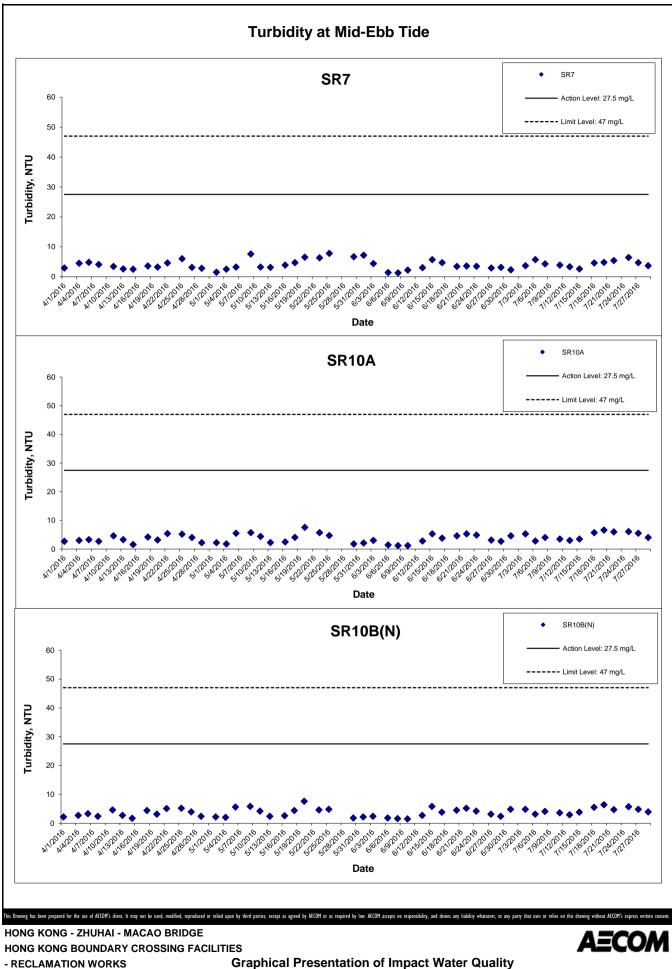
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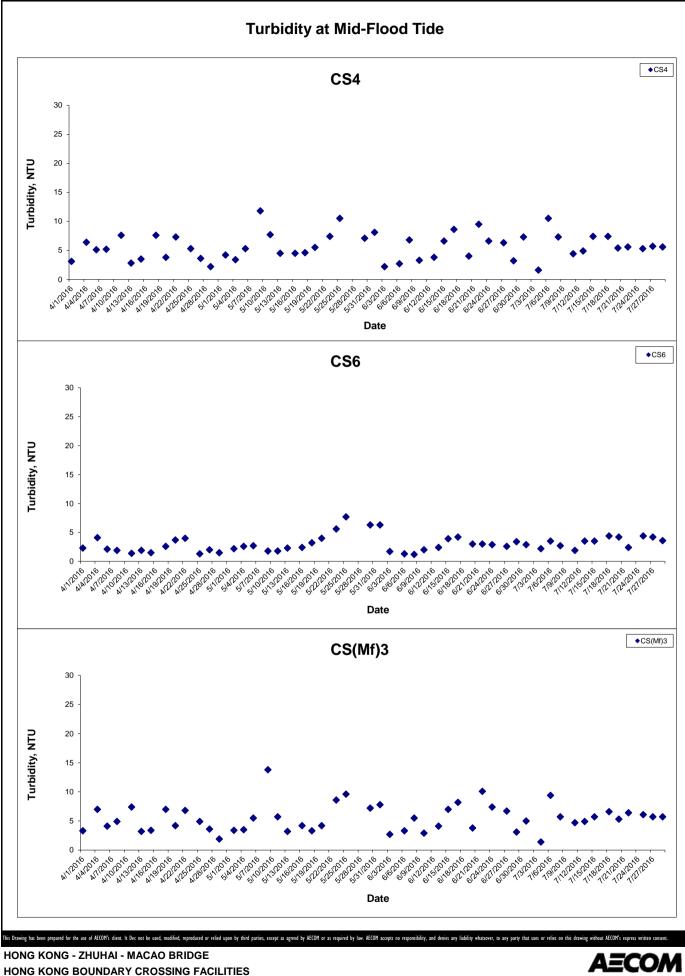


Appendix J

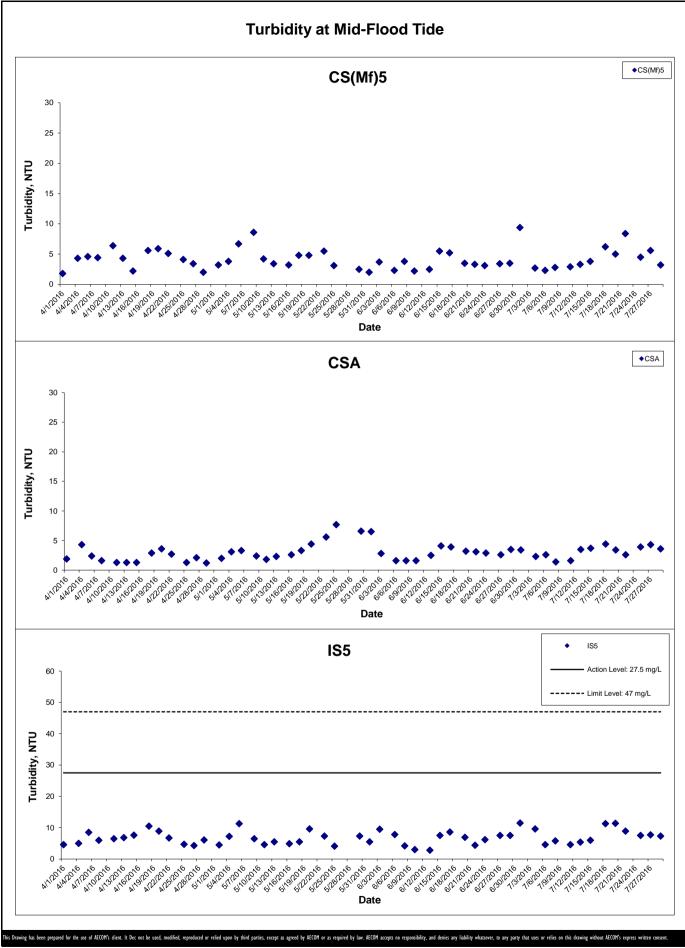


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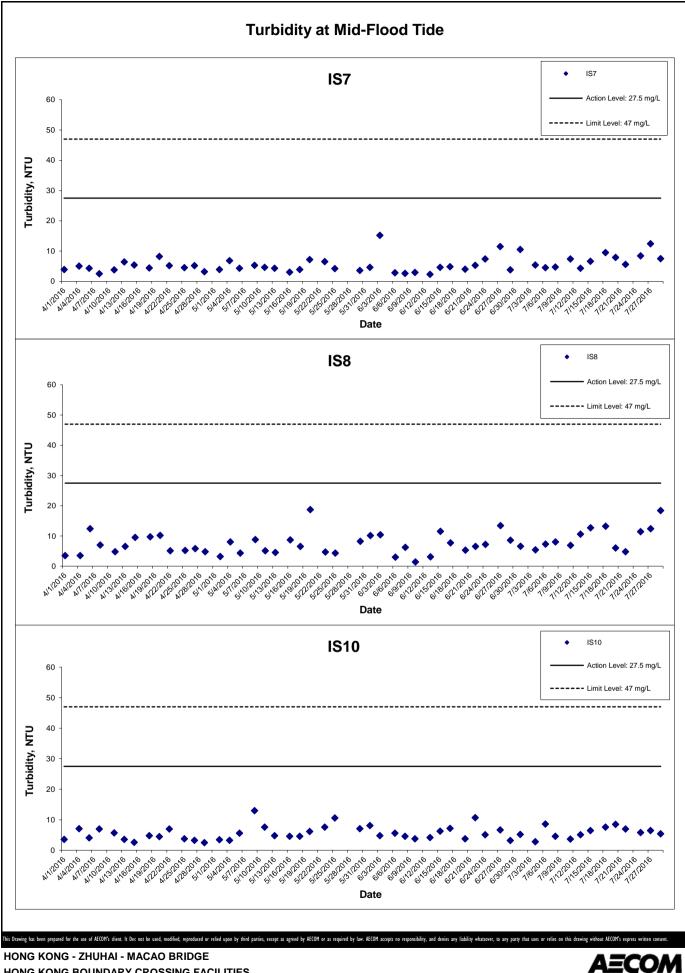


HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

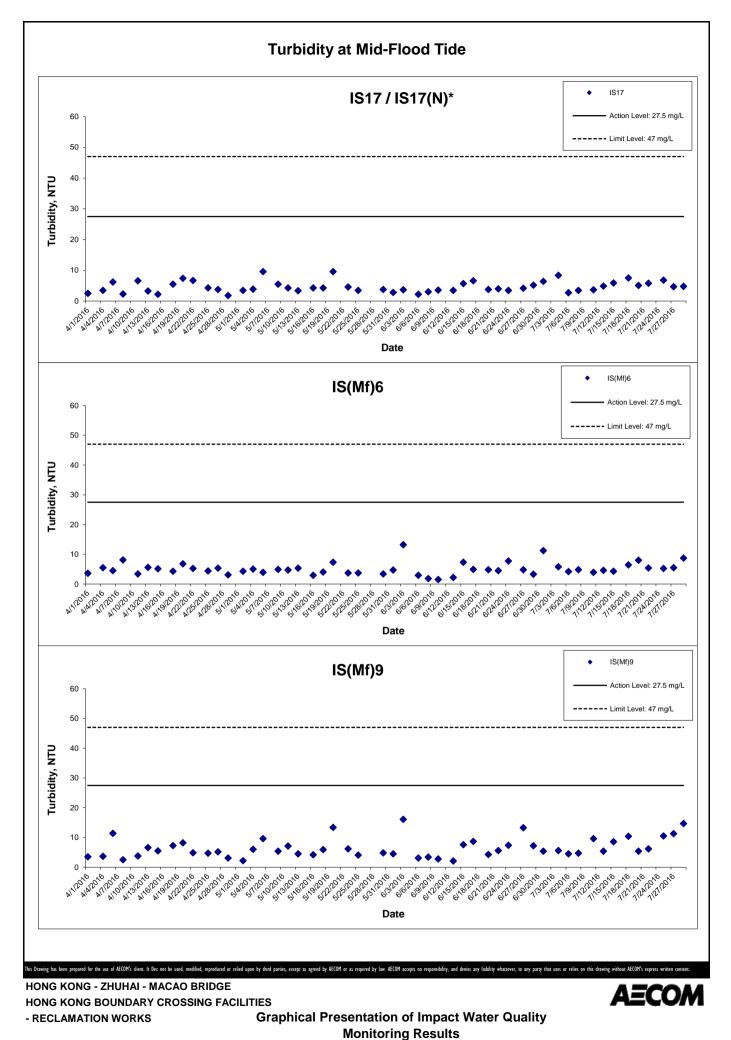


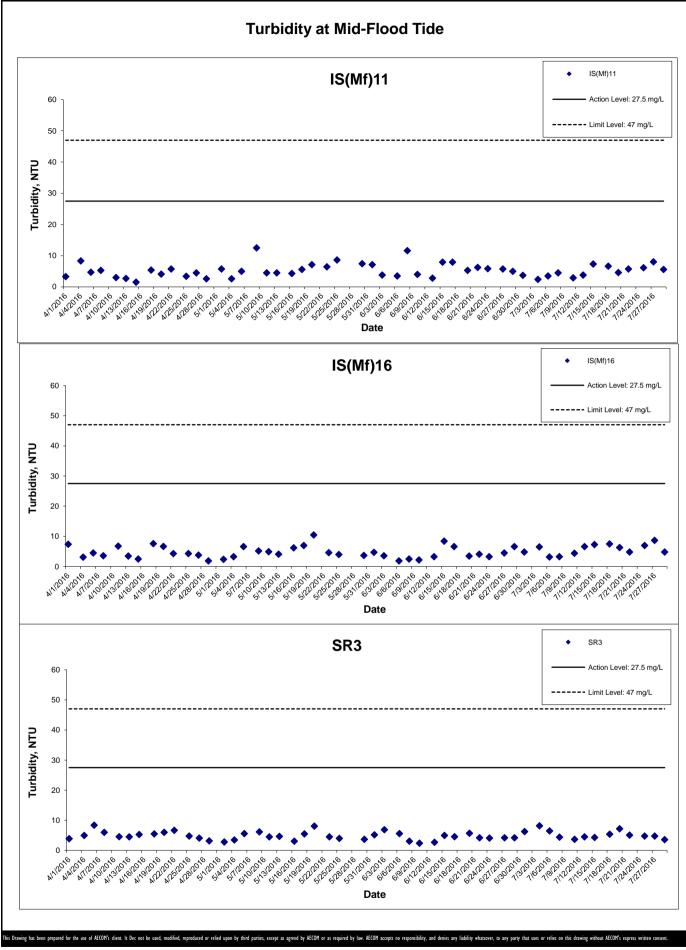
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AECOM



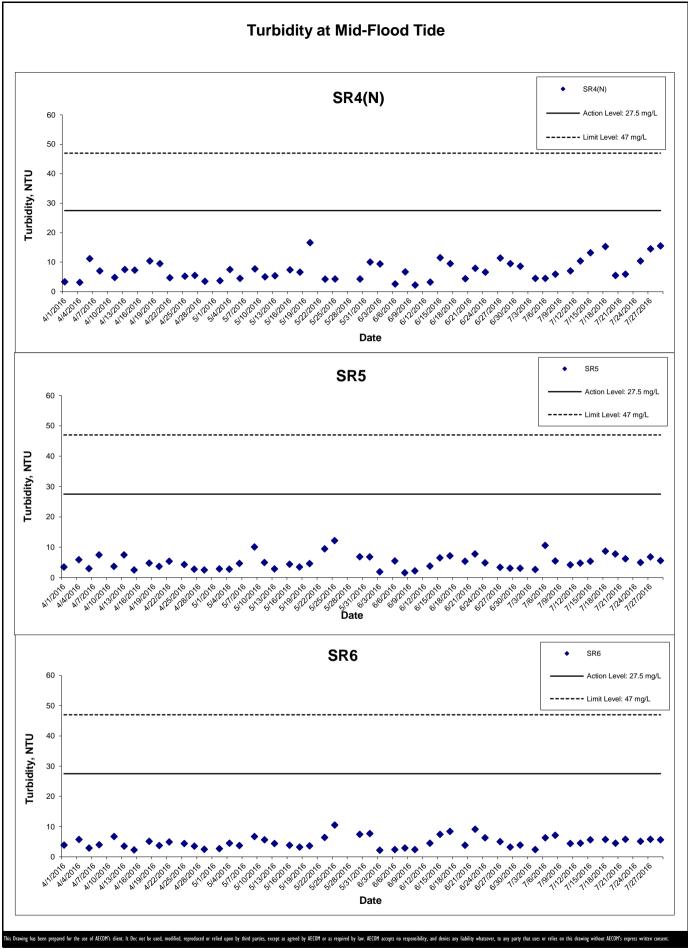
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS





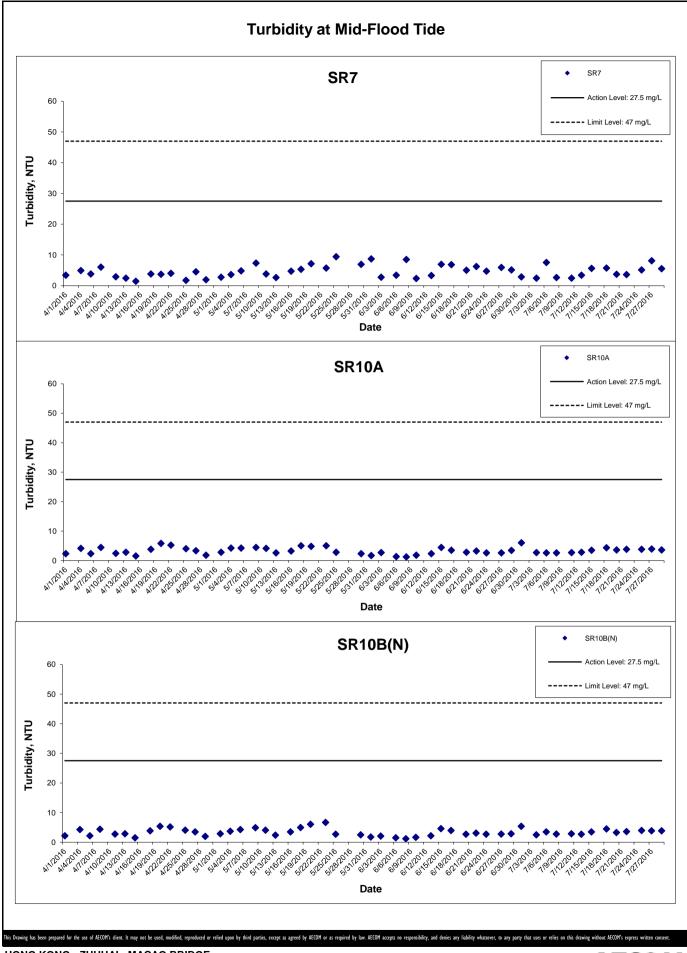
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Graphical Presentation of Impact Water Quality Monitoring Results AECOM



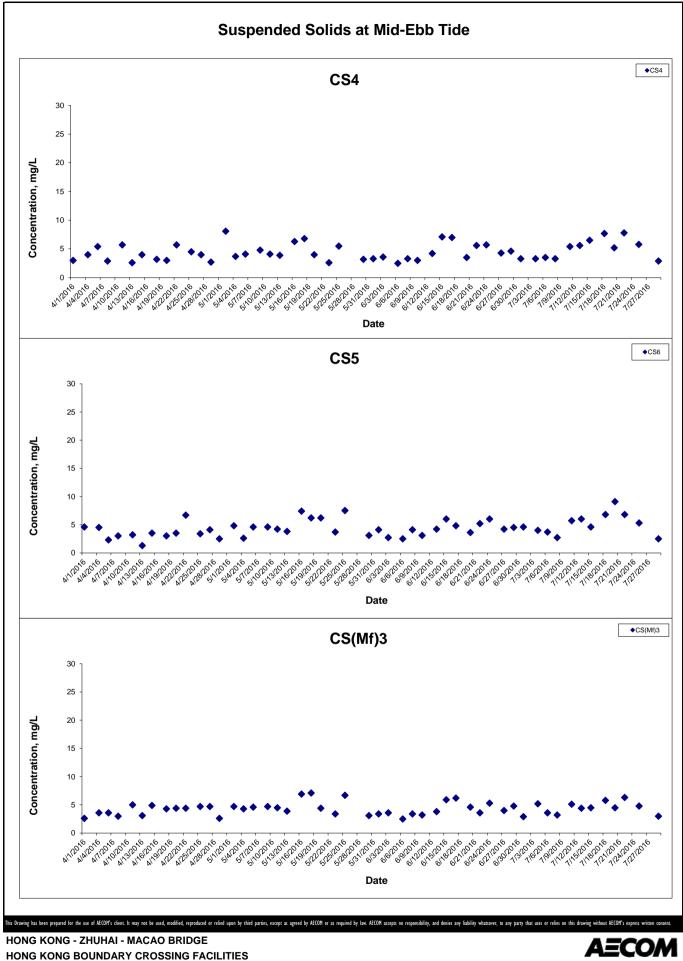
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Prese

Graphical Presentation of Impact Water Quality Monitoring Results ECOM

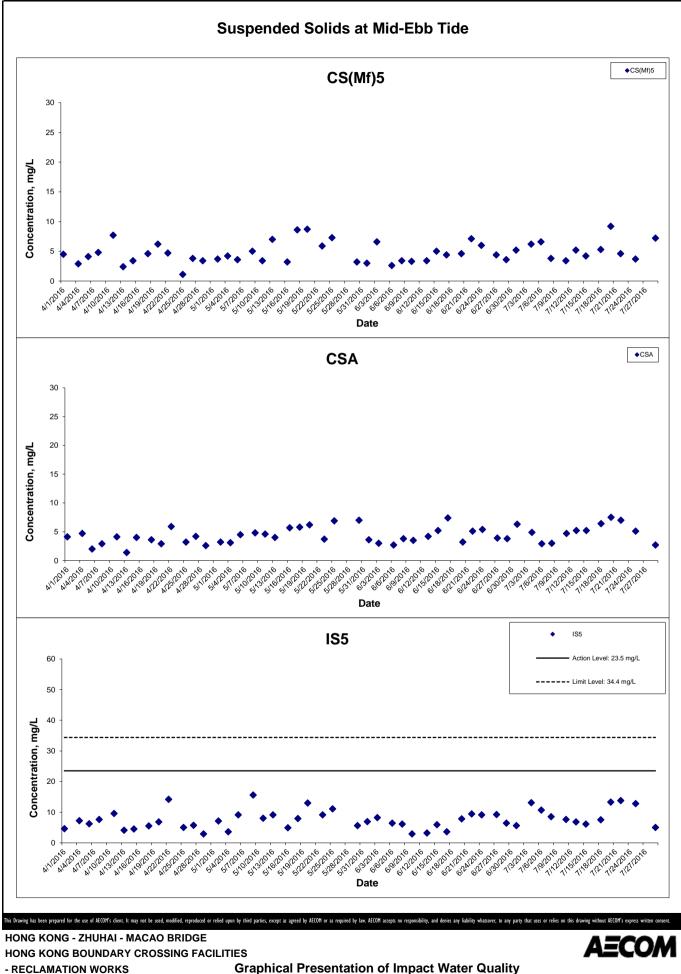


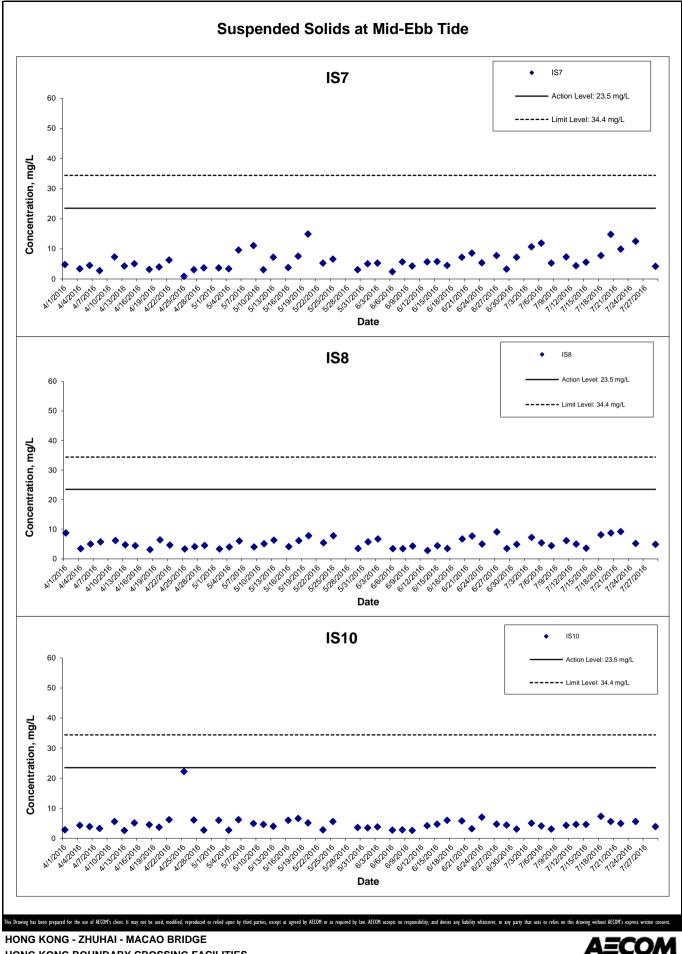
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Graphical Presentation of Impact Water Quality Monitoring Results AECOM



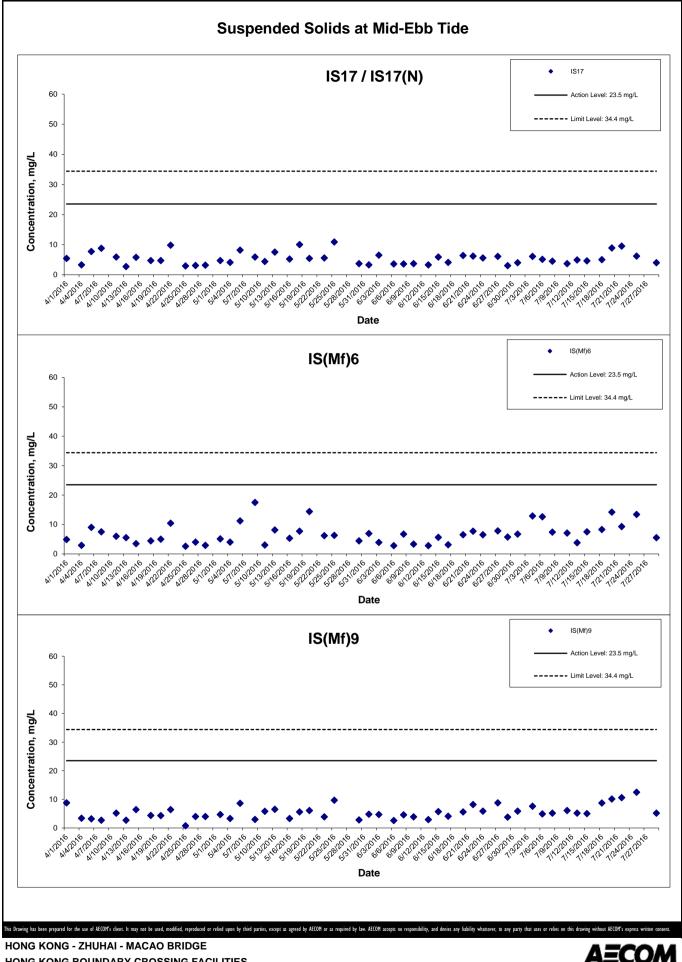
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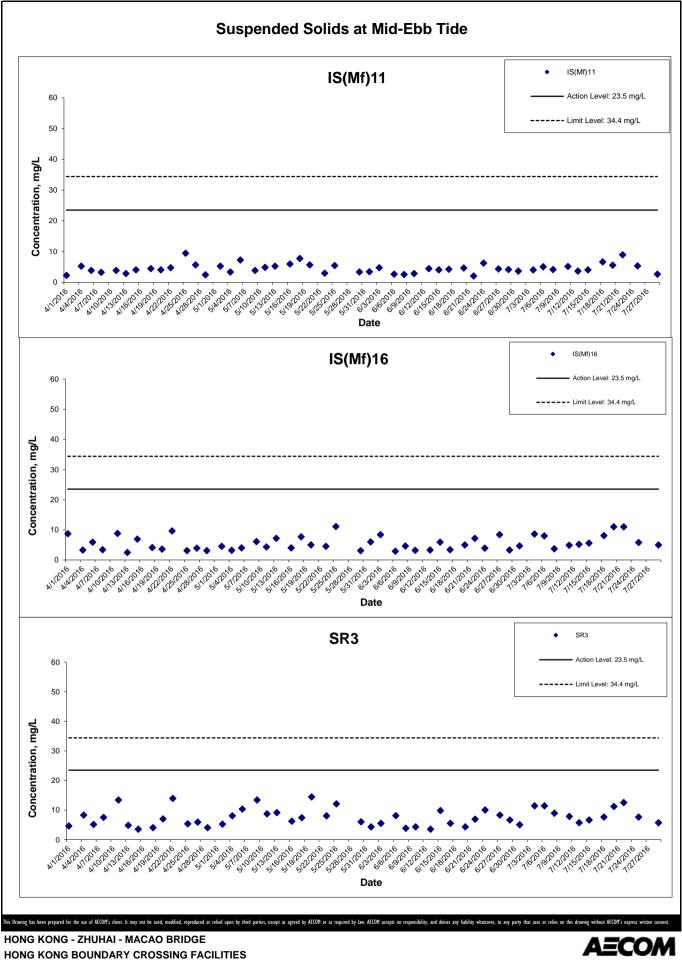
HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS



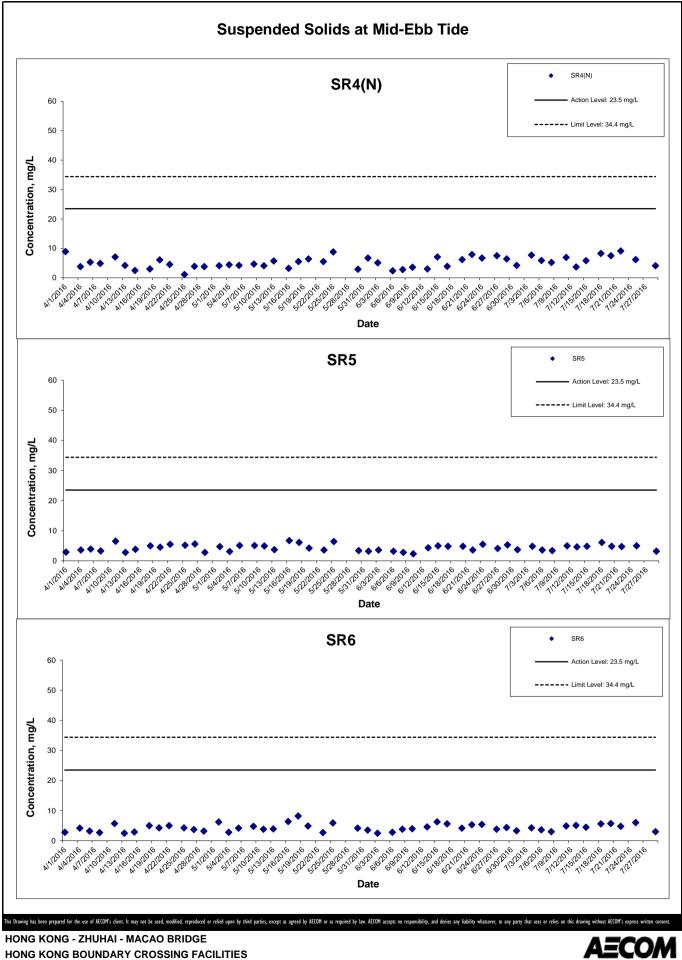
HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

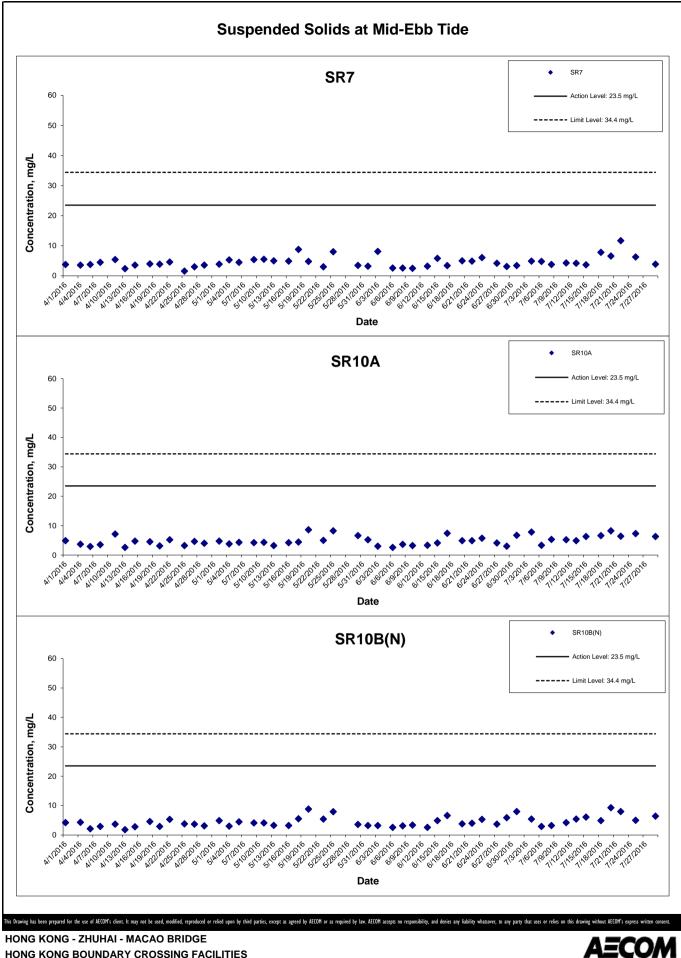


Graphical Presentation of Impact Water Quality Monitoring Results

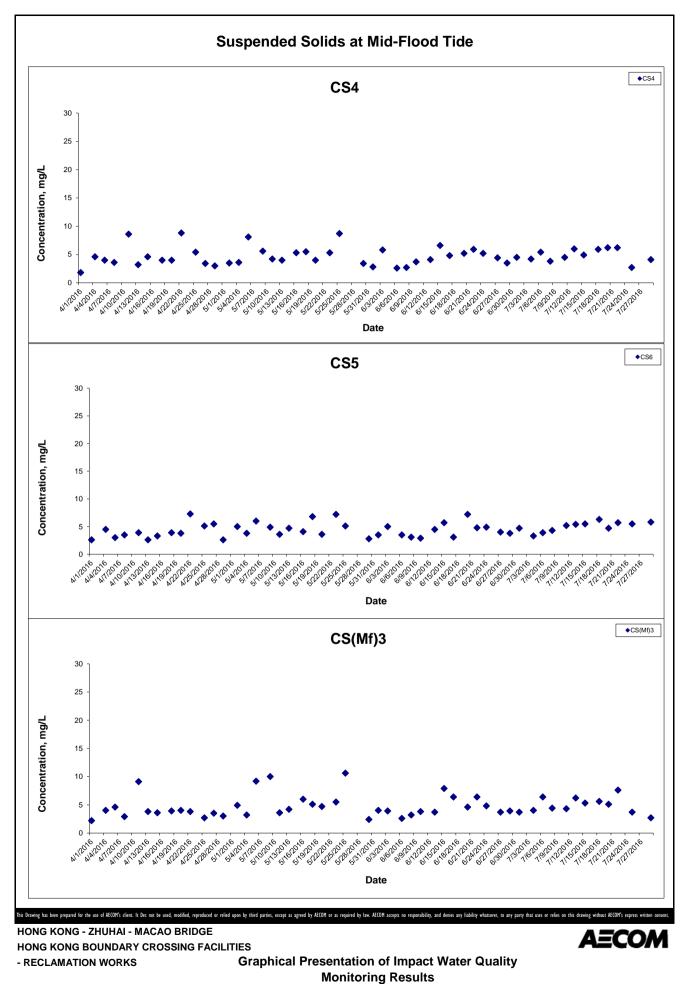
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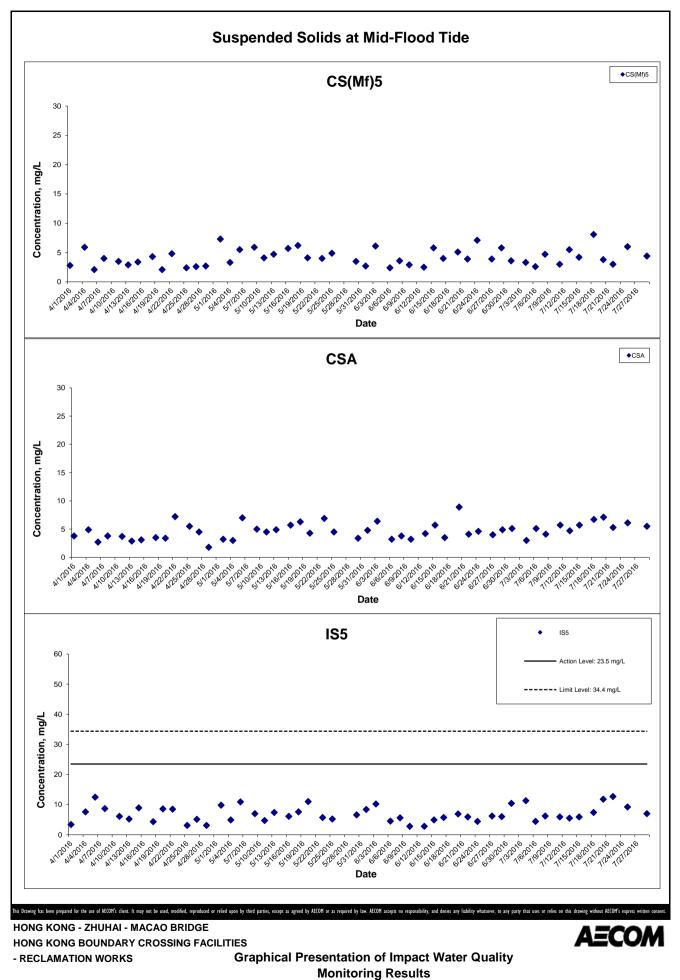
HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results

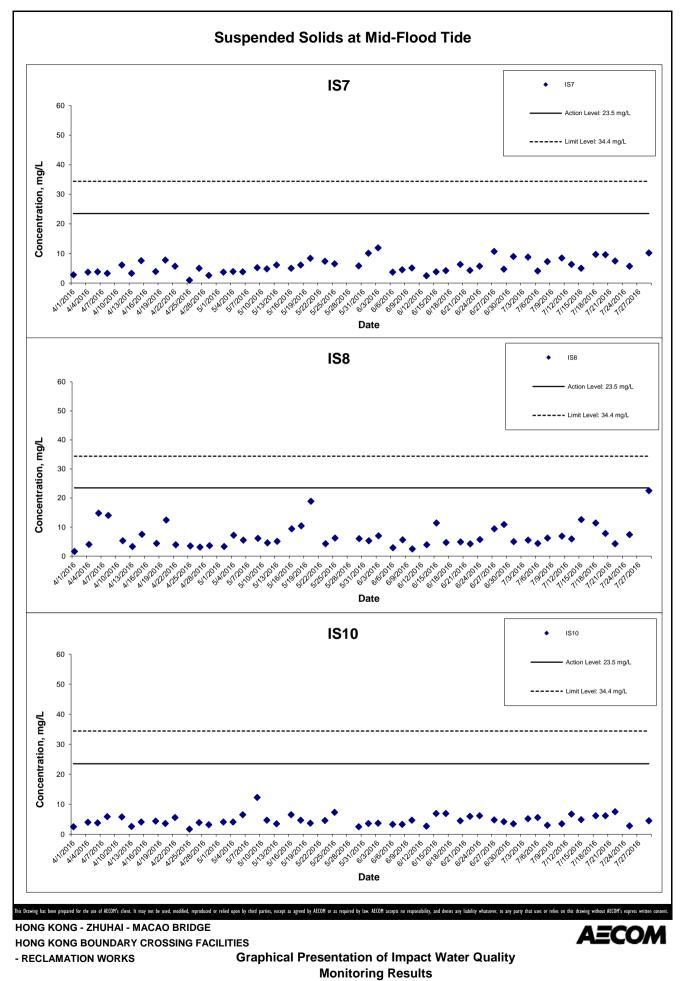


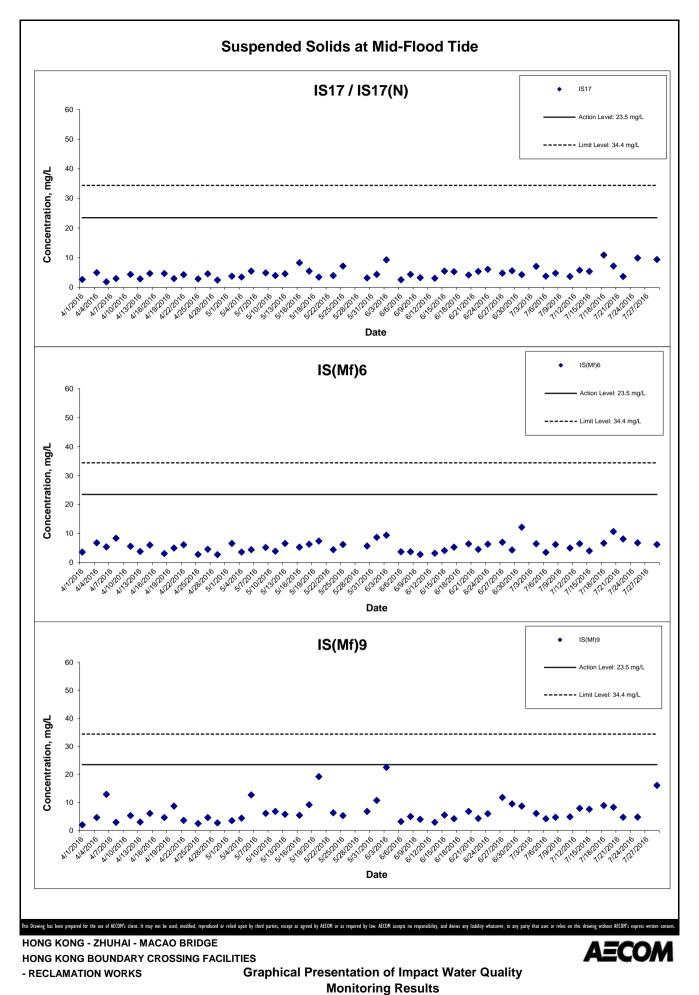
HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results



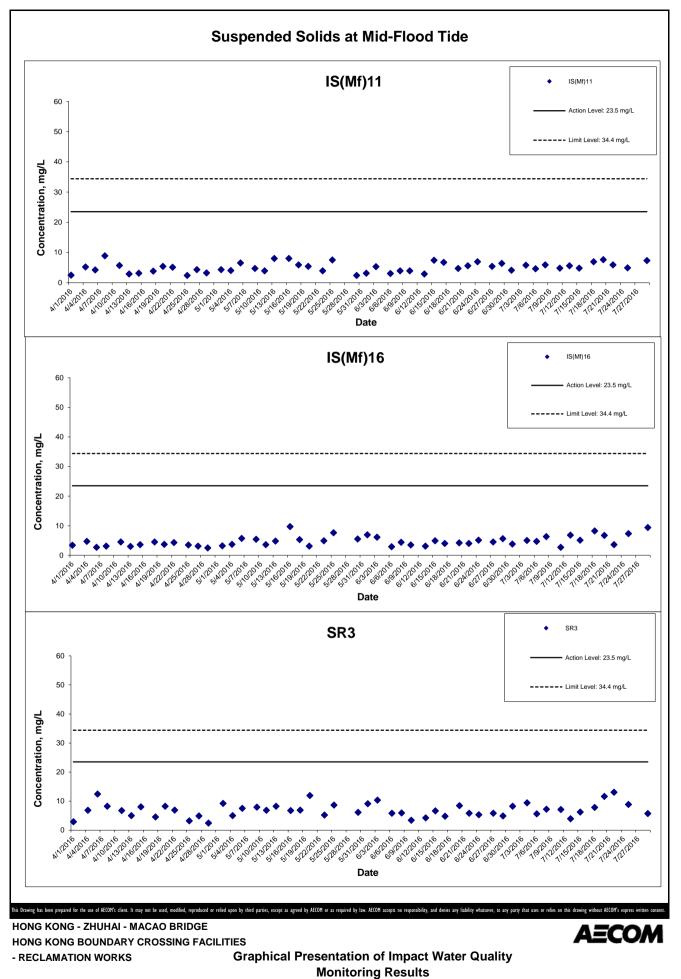
Project No.: 60249820 Date: August 2016



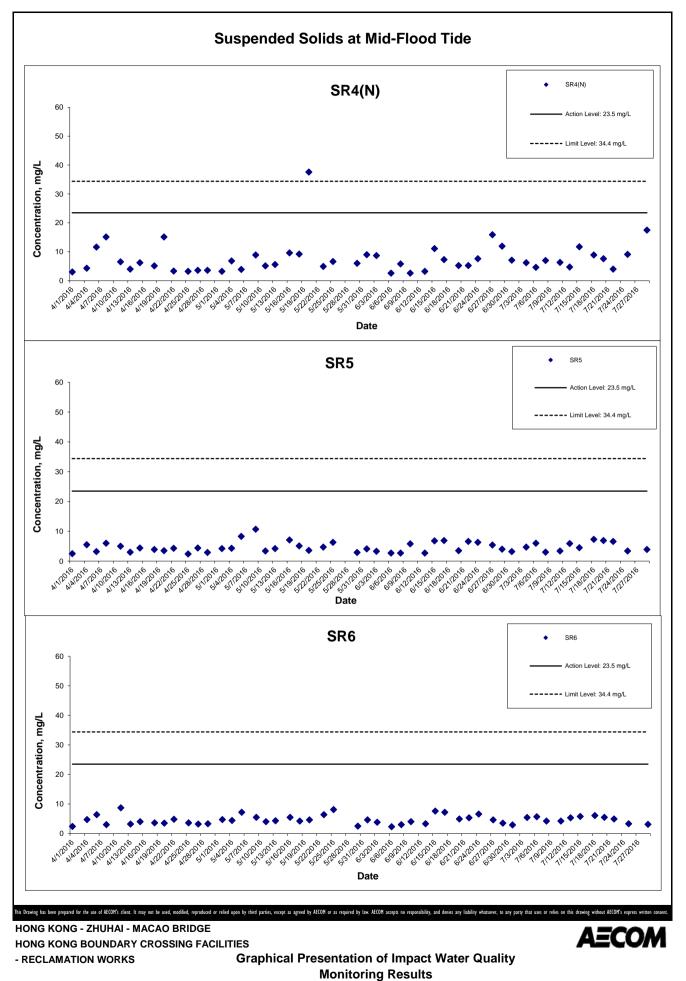




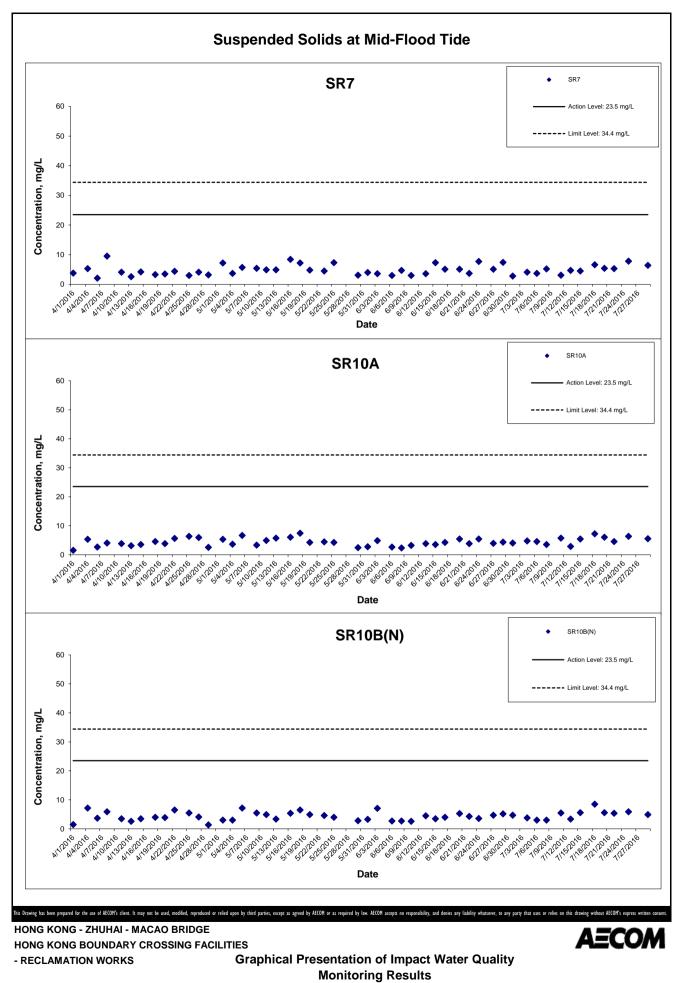
Project No.: 60249820 Date: August 2016



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Project No.: 60249820 Date: August 2016

North East Lantau

North West Lantau

Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1 Impact Dolphin Monitoring Survey Sighting Table

Pr	oject	Contract	Date	Sighting No.	Time	Group Size	Area	Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
Н	KBCF	HY/2010/02	18-Jul-16	1276	09:18:57	9	WL*	1	N/A	Орр	Impact	813698.3	803673.4	Summer	No
Н	KBCF	HY/2010/02	18-Jul-16	1277	13:14:48	3	NWL	2	280	On	Impact	828225.3	806742.1	Summer	No

* Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

KEY:

Sighting	Opp Opportunistic	
	On On effort	
PSD	Perpendicular Sighting Distance	NEL
Group Size	Represents best estimate for group encountered	NWL
PS = Purse Seine	e trawler (active)	
HT = Hang Trawle	er (not active but sorting fish and cleaning nets)	

GN = Gill Net

Annex I

June 2016 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 134		23/5/2016	1251	NWL
HZMB 132		23/5/2016	1244	NWL
HZMB 131		22/3/2016	1215	NWL
HZMB 130		4/2/2016	1199	NWL
		7/1/2016	1189	NWL
HZMB 129		22/10/2015	1156	NWL
		7/9/2015	1143	NWL
		25/8/2015	1138	NWL
HZMB 128		3/1/2015	1056	NWL
HZMB 127		3/1/2015	1056	NWL
		23/5/2016	1244	NWL
HZMB 126		23/2/2015	1068	NWL
		3/1/2015	1054	NWL
		23/5/2016	1249	NWL
HZMB 125		7/3/2016	1208	NWL
		13/10/2014	1019	NWL
HZMB 124		22/9/2014	1005	NWL
HZMB 123		25/8/2014	998	NWL
		22/10/2015	1156	NWL
HZMB 122		4/8/2014	989	NWL
HZMB 121		14/7/2014	968	NWL
HZMB 120		31/5/2014	951	NWL
HZMB 119		19/4/2014	940	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 118		6/1/2014	890	NWL
HZMB 117		17/6/2014	964	NWL
		6/1/2014	888	NWL
HZMB 116		25/8/2014	999	NWL
		14/7/2014	972	NWL
HZMB 115		14/7/2014	971	NWL
		26/12/2013	879	NWL
		26/12/2013	879	NWL
		6/6/2016	1261	NWL
HZMB 114		5/11/2015	1162	NWL
		24/10/2013	827	NWL
HZMB 113		24/10/2013	827	NWL
HZMB 112		15/10/2013	815	NWL
HZMB 111		15/10/2013	815	NWL
		18/1/2016	1193	NWL
HZMB 110		15/10/2013	812	NWL
		11/6/2015	1118	NWL
HZMB 108		30/8/2013	780	NEL
		28/7/2015	1126	NWL
		13/10/2014		NWL
HZMB 107		31/5/2014		NWL
		21/8/2013		NWL
HZMB 106		21/8/2013		NWL
		31/5/2014	951	NWL
HZMB 105		8/7/2013		NWL
HZMB 104		8/7/2013	711	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 103		8/7/2013	711	NWL
HZMB 102		8/7/2013	706	NWL
HZMB 101		8/7/2013	706	NWL
HZMB 100		8/7/2013	706	NWL
		13/6/2013	681	NWL
HZMB 099		13/6/2013	680	NWL
		23/2/2015	1077	NWL
		18/12/2014	1044	NWL
		4/8/2014	992	NWL
		6/1/2014	888	NWL
		2/11/2013	849	NWL
		2/11/2013	845	NWL
	NL104	24/10/2013	831	NWL
		8/7/2013	711	NWL
HZMB 098		24/5/2013	659	NWL
		7/11/2011	Baseline	NWL
		5/11/2011	Baseline	NWL
		5/11/2011	Baseline	NWL
		2/11/2011	Baseline	NWL
		28/10/2011	Baseline	NWL
		23/9/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
HZMB 097		9/5/2013	647	NWL
HZMB 096		1/4/2013	621	NWL
		30/8/2013	780	NEL
		25/6/2013	697	NWL
HZMB 095		13/6/2013	682	NWL
		1/4/2013	621	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		13/10/2014	1019	NWL
		31/5/2014	954	NWL
HZMB 094		17/2/2014	910	NWL
		26/6/2013	703	NWL
		25/6/2013	698	NWL
		18/3/2013	601	NWL
		24/5/2013	657	NWL
HZMB 093		21/2/2013	587	NWL
		20/4/2015	1097	NWL
HZMB 092		21/2/2013	589	NWL
		15/2/2013	581	NWL
HZMB 091		15/2/2013	579	NWL
		25/6/2013	697	NWL
HZMB 090		13/6/2013	682	NWL
		15/2/2013	579	NWL
HZMB 089		15/2/2013	579	NWL
HZMB 088		15/2/2013	579	NWL
HZMB 087		15/2/2013	579	NWL
		19/3/2015	1086	NWL
	NII 040	9/5/2013	642	NWL
HZMB 086	NL242	15/2/2013	579	NWL
		10/10/2011	Baseline	NWL
		13/10/2014	1019	NWL
HZMB 085		31/5/2014	954	NWL
		26/6/2013	703	NWL
HZMB 084		15/2/2013	579	NWL
		14/2/2013	575	NWL
HZMB 083	NL136	1/12/2015	1180	NWL
	INL 130	11/5/2015	1104	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		19/12/2013	863	NWL
		28/3/2013	607	NWL
		15/2/2013	579	NWL
		28/1/2013	568	NWL
		28/1/2013	564	NWL
		19/4/2012	267	NWL
		28/10/2011	Baseline	NWL
		28/10/2011	Baseline	NWL
		10/10/2011	Baseline	NEL
		6/9/2011	Baseline	NWL
		20/10/2014	1024	NWL
		21/2/2013	587	NWL
HZMB 082		15/2/2013	579	NWL
		28/1/2013	563	NWL
		28/1/2013	559	NWL
HZMB 081		28/1/2013	557	NWL
HZMB 080		28/1/2013	556	NWL
HZMB 079		28/1/2013	556	NWL
		15/2/2013	579	NWL
HZMB 078		8/1/2013	552	NWL
		26/12/2013	878	NWL
HZMB 077		8/7/2013	706	NWL
		11/12/2012	541	NWL
		8/7/2013	706	NWL
HZMB 076		11/12/2012	541	NWL
HZMB 075		6/12/2012	525	NEL
		9/5/2013	647	NWL
		1/4/2013	623	NWL
HZMB 074		1/4/2013	621	NWL
		21/2/2013	594	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		10/12/2012	529	NEL
		6/12/2012	525	NEL
		9/5/2013	647	NWL
		1/4/2013	623	NWL
		1/4/2013	621	NWL
HZMB 073		21/2/2013	594	NEL
		10/12/2012	529	NEL
		6/12/2012	525	NEL
HZMB 072		24/10/2012	476	NWL
		24/10/2012	475	NWL
HZMB 071		12/10/2012	466	NWL
HZMB 070		24/10/2012	476	NWL
		4/6/2015	1116	NWL
		21/8/2013	774	NWL
HZMB 069		8/7/2013	711	NWL
		24/10/2012	476	NWL
		20/10/2014	1025	NWL
HZMB 068		1/11/2013	839	NWL
		24/10/2012	476	NWL
HZMB 067		24/10/2012	475	NWL
		28/1/2013	559	NWL
		11/12/2012	537	NWL
		24/10/2012	475	NWL
HZMB 066	NL93	12/10/2012	466	NWL
		7/11/2011 Baseline		NWL
		5/11/2011	Baseline	NWL
		19/3/2015	1086	NWL
		17/6/2014	964	NWL
HZMB 064		9/5/2013	647	NWL
		28/1/2013	561	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		24/10/2012	475	NWL
		12/10/2012	466	NWL
		9/5/2013	647	NWL
HZMB 063		12/10/2012	466	NWL
		6/12/2012	525	NEL
HZMB 062		11/10/2012	457	NWL
HZMB 060		18/9/2012	447	NWL
HZMB 059		21/2/2013	591	NWL
		18/9/2012	445	NWL
HZMB 057		18/9/2012	440	NWL
		18/9/2012	442	NWL
HZMB 056		5/9/2012	433	NEL
HZMB 055		4/9/2012	425	NWL
		12/5/2016	1238	NWL
		1/12/2015	1180	NWL
		20/4/2015	1097	NWL
		15/1/2015	1062	NWL
		31/5/2014	953	NWL
		6/1/2014	888	NWL
		7/11/2013	854	NWL
		2/11/2013	845	NWL
HZMB 054	CH34	24/10/2013	831	NWL
		30/8/2013	780	NEL
		8/7/2013	711	NWL
		18/9/2013	448	NWL
		5/9/2012	432	NEL
		7/11/2011	Baseline	NWL
		5/11/2011	Baseline	NWL
		2/11/2011	Baseline	NWL
		1/11/2011	Baseline	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		1/11/2011	Basalina	NEL
		28/10/2011		NWL
		6/10/2011		NWL
HZMB 053		4/9/2012		NWL
HZMB 052		4/9/2012	423	NWL
		11/5/2015	1104	NWL
		4/8/2014	989	NWL
		9/5/2013	644	NWL
		1/4/2013	622	NWL
HZMB 051	NL213	15/2/2013	582	NWL
		15/2/2013	581	NWL
		28/1/2013	559	NWL
		28/1/2013	556	NWL
		4/9/2012	422	NWL
		14/7/2014	971	NWL
		10/1/2014	900	NWL
HZMB 050		6/1/2014	888	NWL
		15/2/2013	579	NWL
HZMB 050		4/9/2012	421	NWL
		9/10/2015	1151	NWL
HZMB 049		29/7/2014	982	NWL
		3/9/2012	419	NWL
HZMB 048		3/9/2012	419	NWL
		28/4/2015	1100	NWL
HZMB 047		3/9/2012	412	NWL
HZMB 046		3/9/2012	412	NWL
		23/5/2016	1249	NWL
HZMB 045		17/2/2014	910	NWL
		13/6/2013	682	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		15/2/2013	579	NWL
		1/11/2012	495	NWL
		23/5/2016	1247	NWL
		18/1/2016	1194	NWL
		13/10/2014	1019	NWL
		17/2/2014	910	NWL
		19/12/2013	864	NWL
		2/11/2013	845	NWL
		1/11/2013	842	NWL
		15/10/2013	819	NWL
HZMB 044	NL98	9/5/2013	648	NWL
	INL90	9/5/2013	647	NWL
		1/4/2013	623	NWL
		1/4/2013	621	NWL
		15/2/2013	579	NWL
		1/11/2012	495	NWL
		7/11/2011	Baseline	NWL
		6/11/2011	Baseline	NEL
		1/11/2011	Baseline	NEL
		6/10/2011	Baseline	NEL
HZMB 043		3/9/2012	407	NWL
		22/10/2015	1156	NWL
		19/12/2013	863	NWL
HZMB 042	NL260	1/11/2012	495	NWL
		7/11/2011	Baseline	NWL
		5/6/2014	960	NEL
		17/2/2014	910	NWL
		2/11/2013	845	NWL
HZMB 041	NL24	9/5/2013	648	NWL
		9/5/2013	647	NWL
		1/4/2013	623	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		4/4/0040	004	N 10 4 / 1
		1/4/2013		NWL
		15/2/2013		NWL
		1/11/2012		NWL
		6/11/2011		NEL
		5/11/2011		NWL
		5/11/2011		NWL
		10/10/2011		NWL
		17/2/2014		NWL
		6/1/2014		NWL
		15/10/2013		NWL
HZMB 040		8/7/2013		NWL
		8/7/2013		NWL
		21/2/2013	589	NWL
		1/11/2012	493	NWL
HZMB 038		23/5/2016	1246	NWL
		1/11/2012	490	NWL
HZMB 037		1/11/2012	490	NWL
HZMB 036		3/9/2012	407	NWL
		1/11/2012	490	NWL
		15/2/2013	579	NWL
HZMB 035		1/11/2012	490	NWL
HZMB 034		1/11/2012	493	NWL
		17/11/2014	1035	NWL
HZMB 028		1/4/2013	625	NWL
		6/8/2012	373	NWL
		19/12/2013	863	NWL
		15/2/2013	579	NWL
HZMB 027		28/1/2013	568	NWL
		28/1/2013	564	NWL
		14/6/2012	299	NWL
HZMB 026		13/10/2014	1018	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		25/6/2013	697	NWL
		9/5/2013	642	NWL
		28/1/2013	561	NWL
		13/6/2012	295	NEL
		22/2/2013	596	NEL
		21/2/2013	591	NWL
HZMB 025		6/12/2012	525	NEL
		11/10/2012	457	NWL
		13/6/2012	295	NEL
HZMB 024		18/3/2013	601	NWL
		13/6/2012	295	NEL
		9/10/2015	1153	NWL
		9/10/2015	1152	NWL
		20/4/2015	1097	NWL
		18/12/2014	1044	NWL
		17/11/2014	1035	NWL
		6/1/2014	888	NWL
HZMB 023		8/7/2013	715	NWL
		8/7/2013	711	NWL
		1/4/2013	619	NWL
		21/2/2013	589	NWL
		15/2/2013	579	NWL
		10/7/2012	330	NWL
		21/4/2016	1219	NWL
		7/9/2015	1143	NWL
		20/4/2015	1097	NWL
		18/12/2014	1044	NWL
HZMB 022		17/11/2014	1035	NWL
		4/8/2014	991	NWL
		6/1/2014	888	NWL
		24/10/2013	827	NWL
		8/7/2013	715	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		8/7/2013	711	NWL
		1/4/2013	619	NWL
		21/2/2013	589	NWL
		15/2/2013	579	NWL
		10/7/2012	330	NWL
		22/3/2016	1215	NWL
HZMB 021	NL37	10/7/2012	330	NWL
		16/9/2011	Baseline	NWL
HZMB 020		10/7/2012	330	NWL
HZMB 019		10/7/2012	330	NWL
		17/2/2014	910	NWL
		9/5/2013	647	NWL
HZMB 018		21/2/2013	594	NEL
		10/12/2012	529	NEL
		10/7/2012	330	NWL
HZMB 017		10/7/2012	330	NWL
		8/7/2013	706	NWL
		11/12/2012	539	NWL
HZMB 016		18/9/2012	446	NWL
		4/9/2012	421	NWL
		10/7/2012	330	NWL
HZMB 015		10/7/2012	330	NEL
		25/8/2015	1139	NWL
		26/12/2013	880	NWL
		6/8/2012	373	NWL
HZMB 014	NL176	13/6/2012	295	NEL
		6/11/2011	Baseline	NEL
		1/11/2011	Baseline	NEL
		1/11/2011	Baseline	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 013		28/5/2012	281	NWL
HZMB 012		28/5/2012	281	NWL
		22/2/2013	597	NEL
		21/2/2013	592	NEL
		14/2/2013	572	NEL
		6/11/2012	517	NEL
HZMB 011	EL01	19/9/2012	452	NWL
		31/3/2012	261	NEL
		2/11/2011	Baseline	NWL
		1/11/2011	Baseline	NEL
		19/3/2015	1084	NWL
HZMB 009		28/5/2012	281	NWL
		6/7/2015	1122	NWL
HZMB 008		28/5/2012	281	NWL
		10/12/2012	529	NEL
HZMB 007	NL246	6/11/2011	Baseline	NEL
		16/9/2011	Baseline	NWL
		22/10/2015	1158	NWL
		21/2/2013	594	NEL
HZMB 006		11/12/2012	539	NWL
		1/11/2012	495	NWL
		29/3/2012	250	NWL
		9/2/2015	1070	NWL
		9/2/2015	1069	NWL
		9/11/2013	860	NWL
		7/11/2013	858	NWL
HZMB 005		15/10/2013	813	NWL
		10/12/2012	532	NWL
		6/8/2012	374	NWL
		28/5/2012	287	NWL
HZMB 004		28/7/2015	1126	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		4/9/2012		NWL
		31/3/2012	262	NWL
		15/10/2013	812	NWL
		25/6/2013	697	NWL
HZMB 003	NL179	10/12/2012	529	NEL
		31/3/2012	261	NWL
		6/11/2011	Baseline	NEL
		16/9/2011	Baseline	NWL
		31/5/2014	951	NWL
		26/12/2013	878	NWL
		19/12/2013	863	NWL
	WL111	1/11/2013	839	NWL
		15/10/2013	819	NWL
		24/9/2013	798	NWL
		14/2/2013	573	NWL
HZMB 002		11/12/2012	536	NWL
		11/12/2012	535	NWL
		12/10/2012	466	NWL
		24/10/2012	475	NWL
		28/5/2012	281	NWL
		29/3/2012	250	NWL
		2/11/2011	Baseline	NWL
		23/5/2016	1251	NWL
		25/8/2014	997	NWL
		21/8/2013	771	NWL
HZMB 001	WL46	13/6/2013		NWL
		1/4/2013		NWL
		14/2/2013		NWL
		29/3/2012		NWL
	CH98	2/11/2011		NWL
		2/11/2011		NWL
	NL11	7/11/2011		NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	NL12	2/11/2011	Baseline	NWL
		23/9/2011	Baseline	NWL
	VL33	1/11/2011	Baseline	NEL
		5/11/2011	Baseline	NWL
		7/11/2011	Baseline	NWL
	NL46	28/10/2011	Baseline	NWL
	CH153	11/10/2011	Baseline	NWL
		7/11/2001	Baseline	NWL
	NL48	2/11/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
	NL75	16/9/2011	Baseline	NWL
		1/11/2011	Baseline	NEL
	NL80	2/11/2011	Baseline	NWL
	NL118	6/9/2011	Baseline	NWL
	NII 400	6/11/2011	Baseline	NEL
	NL120	10/10/2011	Baseline	NWL
		6/11/2011	Baseline	NEL
	NL123	10/10/2011	Baseline	NWL
		6/10/2011	Baseline	NWL
		1/11/2011	Baseline	NEL
	NL139	10/10/2011	Baseline	NEL
		16/9/2011		NWL
	NH 405	5/11/2011	Baseline	NWL
	NL165	2/11/2011	Baseline	NWL
	NL170	6/10/2011	Baseline	NEL
		7/11/2011		NWL
	NL188	1/11/2011	Baseline	NWL
		28/10/2011	Baseline	NWL
	NL191	7/9/2011	Baseline	NWL
		7/11/2011		NWL
	NL202	28/10/2011	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		7/11/2011	Baseline	NWL
	NL210	5/11/2011	Baseline	NWL
		2/11/2011	Baseline	NWL
		7/9/2011	Baseline	NWL
		5/11/2011	Baseline	NWL
	NL214	2/11/2011	Baseline	NWL
		28/10/2011	Baseline	NWL
	NL220	10/10/2011	Baseline	NEL
	NL224	28/10/2011	Baseline	NWL
	NIL 000	5/11/2011	Baseline	NWL
	NL226	17/10/2011	Baseline	WL
	NII 000	2/11/2011	Baseline	NWL
	NL230	17/10/2011	Baseline	WL
		28/10/2011	Baseline	NWL
	NL233	6/10/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
		7/11/2011	Baseline	NWL
	NL241	2/11/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
		1/11/2011	Baseline	NEL
	NL244	1/11/2011	Baseline	NWL
		5/9/2011	Baseline	WL
	NL256	2/11/2011	Baseline	NWL
	NII 050	16/9/2011	Baseline	NWL
	NL258	5/9/2011	Baseline	WL
	NL259	7/11/2011	Baseline	NWL
	NL261	1/11/2011	Baseline	NEL
		6/11/2011		NEL
	NL264	6/10/2011	Baseline	NEL
		23/9/2011	Baseline	NWL
	NL269	2/11/2011	Baseline	NWL
	NL272	5/11/2011	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2/11/2011	Baseline	NWL
		28/10/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
	NL278	2/11/2011	Baseline	NWL
	NL279	2/11/2011	Baseline	NWL
	SL42	2/11/2011	Baseline	NWL
	SL43	28/10/2011	Baseline	NWL
		5/11/2011	Baseline	NWL
		2/11/2011	Baseline	NWL
	WL04	17/10/2011	Baseline	WL
		10/10/2011	Baseline	NWL
		16/9/2011	Baseline	NWL
		1/11/2011	Baseline	NEL
	WL05	1/11/2011	Baseline	NEL
	WL11	7/11/2011	Baseline	NWL
		17/10/2011	Baseline	WL
	WL25	23/9/2011	Baseline	WL
		16/9/2011	Baseline	NWL
		2/11/2011	Baseline	WL
	WL88	16/9/2011	Baseline	NWL
	WL116	16/9/2011	Baseline	NWL
	WL124	2/11/2011	Baseline	NWL
	14/1 450	28/10/2011	Baseline	NWL
	WL156	23/9/2011	Baseline	WL
	WL162	16/9/2011	Baseline	NWL
	NL275	23/9/2011	Baseline	WL
		2/11/2011	Baseline	WL
	SL48	17/10/2011	Baseline	WL
		23/9/2011	Baseline	WL
	0,4400	2/11/2011	Baseline	WL
	CH108	2/11/2011	Baseline	WL
	CH157	2/11/2011	Baseline	WL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	NL206	7/10/2011	Baseline	WL
	WL28	23/9/2011	Baseline	WL
	14/1 40	2/11/2011	Baseline	WL
	WL42	5/9/2011	Baseline	WL
	WL47	17/10/2011	Baseline	WL
	14/1.04	17/10/2011	Baseline	WL
	WL61	23/9/2011	Baseline	WL
	WL66	7/11/2011	Baseline	WL
	14// 00	5/9/2011	Baseline	WL
	WL68	5/9/2011	Baseline	WL
		2/11/2011	Baseline	WL
	WL72	2/11/2011	Baseline	WL
		23/9/2011	Baseline	WL
	WL87	23/9/2011	Baseline	WL
	14// 00	2/11/2011	Baseline	WL
	WL88	16/9/2011	Baseline	WL
	WL116	16/9/2011	Baseline	WL
	14/1 4 4 0	2/11/2011	Baseline	WL
	WL118	2/11/2011	Baseline	WL
	WL123	2/11/2011	Baseline	WL
	WL124	2/11/2011	Baseline	WL
	14/1 400	7/11/2011	Baseline	WL
	WL128	2/11/2011	Baseline	WL
		2/11/2011	Baseline	WL
	WL131	2/11/2011	Baseline	WL
		23/9/2011	Baseline	WL
	WL132	23/9/2011	Baseline	WL
	WL137	2/11/2011	Baseline	WL
	WL138	2/11/2011	Baseline	WL
	WL144	2/11/2011	Baseline	WL
	WL145	5/9/2011	Baseline	WL
	WL146	17/10/2011	Baseline	WL

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Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	WL153	7/11/2011	Baseline	WL
	WL157	23/9/2011	Baseline	WL
	WL158	23/9/2011	Baseline	WL
	WL163	7/11/2011	Baseline	WL
	WL 103	2/11/2011	Baseline	WL
	WL165	17/10/2011	Baseline	WL
	WL167	17/10/2011	Baseline	WL
	WL170	7/11/2011	Baseline	WL
	WL171	28/10/2011	Baseline	WL



HZMB 114 2016-06-06_09-37-51 MED

HZMB 114 2016-06-06_09-40-46_01 MED



Appendix L – Event Action Plan

Event / Action Plan for Air Quality

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

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

Event	Action				
	ET Leader	IEC	ER	Contractor	
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 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; 	 proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is 	

Event / Action Plan for Construction Noise

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

Event / Action Plan for Water Quality

Event	Action							
	ET Leader	IEC	ER	Contractor				
Action level being exceeded by one sampling day	 Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Repeat measurement on next day of exceedance to confirm findings. 	 Check monitoring data submitted by ET and Contractor's working methods; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. Amend working methods if appropriate. 				

Event	Action							
	ET Leader	IEC	ER	Contractor				
Action level being exceeded by two or more consecutiv e sampling days	 Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level; Repeat measurement on next day of exceedance to confirm findings. 	 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 ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	 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; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification; Implement the agreed mitigation measures; Amend working methods if appropriate. 				

Event	Action						
	ET Leader	IEC	ER	Contractor			
Limit level being exceeded by one sampling day	 Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit 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 ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the ER 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 mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Amend working methods if appropriate. 			

Event		Actior	ו	
	ET Leader	IEC	ER	Contractor
or more consecutive sampling days	 Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	 Inform the ER and confirm notification of the non-compliance in writing; Take immediate action to avoid further exceedance; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Event / Action Plan for Dolphin Monitoring

Event	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 finding 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 non-compliance 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 	 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 	 Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 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. Supervise the implementation 	 Inform the ER/SOR and confirm notification of the non-compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. Implement the agreed additional dolphin monitoring and/or any other mitigation

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 dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 		of additional monitoring and/or any other mitigation measures.	measures.
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Monthly Summary Waste Flow Table for <u>July / 2016 (year)</u>

Project : F	Iong Kong – Z	huhai – Macao	Bridge, Hong	Kong Bound	lary Crossing	g Facilities –	Reclamation V	Works			Contract No.: 1	HY/2010/02
		Actual	Actual Quantities of Inert C&D Materials Generated Monthly			Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 5)	Surplus Surcharge exported to Macau (see Note 5)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste (see Note 4)	Others, e.g. general refuse (see Note 3)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan-16	0.0000	0.0000	0.0000	3.0720	0.0000	0.0000	52.4729	0.0000	0.2520	0.0000	0.8000	0.0520
Feb-16	0.0000	0.0000	0.0000	6.3366	0.0000	0.0000	6.1333	0.0000	0.0000	6.0800	0.0000	0.0520
Mar-16	0.0000	0.0000	0.0000	56.1071	0.0000	0.0000	38.3187	0.0000	0.3080	0.0000	0.0000	0.0520
Apr-16	0.0000	0.0000	0.0000	47.2724	3.5710	0.0000	18.7380	0.0000	0.2240	0.0000	0.0000	0.3662
May-16	0.0000	0.0000	0.0000	24.8600	93.8100	0.0000	45.2723	0.0000	0.0000	0.0000	0.0000	0.0715
Jun-16	0.0000	0.1560	0.0000	29.1938	96.1830	0.0000	27.8820	0.0000	0.0000	0.0000	0.0000	0.0650
Sub-total	0.0000	0.1560	0.0000	166.8419	193.5640	0.0000	188.8172	0.0000	0.7840	6.0800	0.8000	0.6587
Jul-16	0.0000	0.0000	0.0000	32.0000	118.7477	0.0000	54.3087	0.0000	0.4200	0.0000	0.0000	0.0715
Aug-16												
Sep-16												
Oct-16												
Nov-16												
Dec-16												
Total	0.0000	0.1560	0.0000	198.8419	312.3117	0.0000	243.1259	0.0000	1.2040	6.0800	0.8000	0.7302

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(1) Broken concrete for recycling into aggregates. Notes:

(2) Plastics refer to plastic bottles / containers / sheets / foam / barrier from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Chemical waste refer to spent "battery" and "oil with water".

(5) Subject to be revised.

Appendix N

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics on Exceedances

		Total no. recorded in this month	Total no. recorded since project commencement
1-Hour TSP	Action	-	-
	Limit	-	-
24-Hour TSP	Action	-	-
	Limit	-	-
Noise	Action	-	-
	Limit	-	-
Water Quality	Action	-	2
	Limit	-	3
Dolphin Monitoring	Action	-	-
	Limit	-	-

Remarks: Exceedances which are not project-related are not presented in this table.

Cumulative statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. received in this month	Total no. received since project commencement
Environmental complaints	19 July 2016	A complaint about marine litter near Tuen Mun Ferry Pier was received on 16 Jul 2016, 9:19am. The complainant complained that pollution was observed at Tuen Mun Ferry Pier and queried whether the pollutant came from the construction sites of the Lantau area or bridge	Closed	1	36
		construction. After investigation, it is considered the marine litter floating near the Tuen Mun Ferry Pier is			

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	unlikely to	be related to this Contract.			
Notification of summons	-	-	-	-	2
Successful Prosecutions	-	-	-	-	2