

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 August 2015

[09/2015]

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14 September 2015

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. Anthony Wong

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 August 2015

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for August 2015 certified by the ET Leader (ET's ref.: "60249820/C/RMKY15091402" dated 14 September 2015) and provided to us via e-mail on 14 September 2015.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Condition 5.4 of EP-353/2009/I 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 in the vicinity of Portion B with your on-going surveillance and monitoring.

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

c.c. HyD Mr. Matthew Fung (By Fax: 3188 6614)
HyD Mr. Wai-Ping Lee (By Fax: 3188 6614)
AECOM Ms. Echo Leong (By Fax: 2317 7609)
CHEC Mr. Lim Kim Chuan (By Fax: 2578 0413)

Internal: DY, YH, LP, CL, ENPO Site

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Contract No. HY/2010/02

EXECUTIVE SUMMARY

Contract No. HY/2010/02 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Work (here below, known as "the Project") 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 17 July 2015 (EP-353/2009/I) 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 Project).

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

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 Project 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 2016. 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 August 2015. As informed by the Contractor, major activities in the reporting period were:-

Marine-base

- Cellular structure Connecting Arcs
- Rubble Mound Seawall
- Rock fill
- Maintenance of silt curtain & silt screen at sea water intake of HKIA

Land-base

- Earthwork fill
- Surcharge removal & laying
- Deep Cement Mixing
- Removal of Temporary Seawall
- Vertical Band Drains
- Installations of Precast Culverts except sloping outfalls
- 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) monitoring5 sessions1-hour TSP monitoring5 sessionsNoise monitoring4 sessionsImpact water quality monitoring13 sessionsImpact dolphin monitoring2 surveysJoint Environmental site inspection4 sessions

Breaches of Action and Limit Levels for Air Quality

One (1) Limit Level Exceedance of 24hr-TSP was recorded at AMS2. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.

Breaches of Action and Limit Levels for Noise

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

Breaches of Action and Limit Levels for Water Quality

All impact water quality monitoring results were below the Action and Limit Level in the reporting month.

Impact Dolphin Monitoring

A total of five sightings were made, three "on effort" and two "opportunistic". Two sightings were recorded on the 10 August 2015 and three on the 25 August 2015. Sighting details are summarised are plotted in Appendix K and Figure 5c, respectively. The first group sighted on the 10 August 2015 comprised one individual and the second, three individuals. The first group sighted on 25 August 2015 comprised one individual and the second and third groups, each had three individuals. The two groups of three spotted on the 25 August 2015 were the same individuals but in different locations.

Behaviour: On the 10 August 2015, both groups sighted were engaged in feeding activities. On 25 August 2015, the first dolphin sighted was feeding and the second two groups were travelling. No calves were sighted in August 2015. Locations of sighting with different behaviour are mapped in Figure 5d.

For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June – August 2015).

Complaint, Notification of Summons and Successful Prosecution

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

Reporting Change

There was no reporting change required in the reporting period.

Future Key Issues

Key issues to be considered in the coming month included:

- Site runoff should be properly collected and treated prior to discharge;
- Minimize loss of sediment from filling works;
- 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 Work (here below, known as "the Project") 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.
- EPD subsequently issued the Environmental Permit (EP) for HKBCF in November 2009 (EP-1.1.3 353/2009) 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) and July 2015 (EP-353/2009/I). 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 17 July 2015 (EP-353/2009/I) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).
- A Project Specific EM&A Manual, which included all project-relation contents from the original EM&A 1.1.5 Manuals for the Project, was issued in May 2012.
- 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 Project).
- China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to 1.1.7 undertake the construction work of the Project.
- 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 Project 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 2016.
- 1.1.11 According to the Project 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 Project commenced on 12 March 2012.

1.2 **Scope of Report**

1.2.1 This is the forty-second 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

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

Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2015 summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in August 2015.

1.3 Project Organization

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

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Engineer's Representative (ER) (Ove Arup & Partners Hong Kong Limited)	Chief Resident Engineer	Roger Marechal	3698 5700	2698 5999
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	36932254	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

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

- Cellular structure Connecting Arcs
- Rubble Mound Seawall
- Rock fill
- Maintenance of silt curtain & silt screen at sea water intake of HKIA

Land-base

- Earthwork fill
- Surcharge removal & laying
- Deep Cement Mixing
- Removal of Temporary Seawall
- Vertical Band Drains
- Installations of Precast Culverts except sloping outfalls
- 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 Project is shown in Appendix B.
- 1.4.4 The general layout plan of the Project 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 Project 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 Project 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 Project 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 Project Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 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 Reference is made to ET's proposal of relocation of air quality monitoring station (AMS7) dated on 2 February 2015, with no further comment received from IEC on 2 February 2015 and no objection received from EPD on 5 February 2015, the impact air quality monitoring station AMS7 (Hong Kong SkyCity Marriott Hotel) has been relocated to AMS7A (Chu Kong Air-Sea Union Transportation Company Limited) on 3 February 2015. Action Level for air quality, as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel, was adopted for this alternative air quality location.

2.3.5 Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

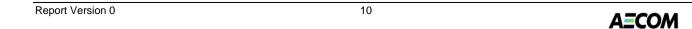


Table 2.2 Locations of Impact Air Quality Monitoring Stations

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 boundary
AMS6*	Dragonair/CNAC (Group) Building	On ground at boundary of the premise
AMS7A	Chu Kong Air-Sea Union Transportation Company Limited	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 project. 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.
- 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 August 2015 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	76	70-81	374	500
AMS3B	76	73-81	368	500
AMS7A	78	69-83	370	500

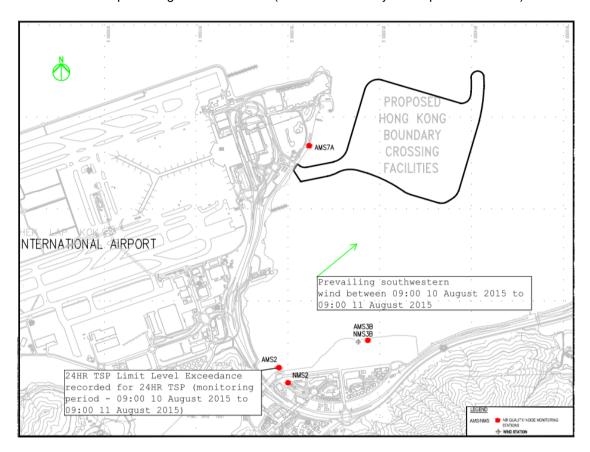
Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS2	109	26-270	176	260
AMS3B	33	21-71	167	260
AMS7A	40	23-82	183	260

- 2.7.2 One (1) Limit Level Exceedance of 24hr-TSP with a reading of 270μg/m³ was recorded at AMS2 on 10 August 2015.
- 2.7.3 According to information provided by the Contractor during the monitoring period, no changes of major works in the construction site of this Contract since box-culvert installation had been commenced in July 2015.
- 2.7.4 Functional checking on HVS at AMS2 was done. Air flow of the HVS was checked and the flow was steady during the 24-hr TSP sampling at AMS2. The filter paper was re-weighted by the assigned HOKLAS laboratory and the result was reconfirmed.
- 2.7.5 The 1-hr TSP values recorded at AMS2 on 10 August 15, were 81μg/m³, 80μg/m³ and 81μg/m³ respectively. All measured values are well below the Action and Limit Levels.
- 2.7.6 The measured 24-hr TSP values recorded at AMS7A (which is located closer to active works than AMS2) on 10 August 15 was 29µg/m³, which was below the Action and Limit Levels.
- 2.7.7 Site inspection for box-culvert installation at Portion D was jointly conducted by ET, Contractor and RSS on 6 August 2015, no fugitive dust was observed at Portion D during the joint site inspection on 6 August 2015.



Box-culvert being installed at Portion D which is relatively far away from monitoring station AMS2 where the limit exceedance of 24-hr TSP was recorded. As refer to the wind direction data collected at Chek Lap Kok by Hong Kong Observatory during the monitoring period on 10 and 11 August 2015 (also see attached), Southwestern winds were prevailing during the monitoring period. Construction works carried out by this Contract are unlikely to cause dust exceedance at AMS2 under the abovementioned prevailing wind directions. (Also see below layout map for reference.)



- In addition, no fugitive dust was expected to be generated in the process of box-culvert installation, as 2.7.9 such, works activities from this Contract is unlikely to contribute to the recorded 24hr-TSP limit level exceedance.
- 2.7.10 The latest available checking record shows that plant engine is operated by ULSD.
- 2.7.11 With reference to the watering record, watering was provided 8 times per day on site from 8 to 14 August 2015.
- 2.7.12 As such, the dust exceedance was therefore considered not to be due to works of this Contract
- 2.7.13 The Contractor was recommended to continue implementing existing dust mitigation measures and the Contractor was reminded ensure to undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas throughout the construction phase.
- 2.7.14 The event action plan is annexed in Appendix L.
- 2.7.15 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 Project Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Project. The Action and Limit level of the noise monitoring is provided in 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 3.1 Noise 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 Project Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Project 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). $L_{\rm eq}$, $L_{\rm 10}$ and $L_{\rm 90}$ 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} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.5.2 Maintenance and Calibration

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

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in August 2015 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.

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

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq (30 mins)}
NMS2	65	63 - 67*	75
NMS3B	65	61 - 67*	70/65^

^{*+3}dB(A) Façade correction included

- 3.7.2 No Action or Limit Level Exceedance of construction noise was recorded in the reporting month.
- 3.7.3 Major noise sources during the noise monitoring included construction activities of the Project, construction activities by other contracts and nearby traffic noise.
- 3.7.4 The event action plan is annexed in Appendix L.

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

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 Project 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 Project 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 middepth 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 Project 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 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Table 4.3 Impact Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	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
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 high-density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
- (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

Table 4.4 Laboratory 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 August 2015 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

Station	Exceedance Level	DO (S&M)	DO (B	ottom)	Tur	bidity		SS	T	otal
	Levei	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action	0	0	0	0	0	0	0	0	0	0
100	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(111)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
137	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(111)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(1011)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(1011)10	Limit	0	0	0	0	0	0	0	0	0	0
IS17	Action	0	0	0	0	0	0	0	0	0	0
1017	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0
513	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(IV)	Limit	0	0	0	0	0	0	0	0	0	0
SR5	Action	0	0	0	0	0	0	0	0	0	0
513	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	0	0	0	0	0	0	0	0	0
SINO	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	0	0	0
SIXI	Limit	0	0	0	0	0	0	0	0	0	0
SR10A	Action	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0
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 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 The co-ordinates for the transect lines and layout map have been provided by AFCD and are shown in Table 5.2 and Figure 4.

Table 5.2 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)

	HK Grid	System	Long Lat	in WGS84
ID	Х	Υ	Long	Lat
1^	804671	815456	113.870287	22.276504
1	804671	831404	113.869975	22.421696
2^	805475	815913	113.878079	22.281819
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	22.325043
7	810499	824613	113.926688	22.360464
8	811508	820847	113.936539	22.326475
8^	811508	821123	113.936539	22.326475
8	811508	824254	113.936486	22.357241
9^	812516	821303	113.946320	22.326894
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	814559	824768	113.966101	22.361920

*Remark: Due to the presence of deployed silt curtain systems at the site boundaries of the Project, 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.

^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.
- The survey vessel departs from Tung Chung Development Pier, Tsing Yi Public Pier or the nearest 5.5.2 safe and convenient pier.
- When the vessel reaches the start of a transect line, "on effort" survey begins. Areas between transect 5.5.3 lines and traveling to and from the study area are defined as "off effort".
- The transect line is surveyed at a speed of 6-8 knots (11-14 km/hr). For the sake of safety, the speed 5.5.4 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°).
- When a group of dolphins is sighted, position, bearing and distance data are recorded immediately 5.5.5 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 August 2015 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 10, 11, 24 and 25 August 2015. A total of 217.8 km of transect line was conducted, all of which was conducted during Beaufort Sea State 3 or better (favourable water conditions). Please note that that some lines were shortened due to works and/or shipping traffic.



The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in August 2015 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.

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

					Total Distance Travelled
Survey	Date	Area	Beaufort	Effort (km)	(km)
	08/10/2015	NWL	1	28.7	
	08/10/2015	NWL	2	28.8	66.9
1	08/10/2015	NWL	3	9.4	
	08/11/2015	NWL	1	6.3	
	08/11/2015	NEL	1	28.8	42.5
	08/11/2015	NEL	2	7.4	
	08/24/2015	NWL	1	23.5	
2	08/24/2015	NEL	1	33.8	59.8
2	08/24/2015	NEL	2	2.5	
	08/25/2015	NWL	1	48.6	48.6
			TOTAL in	AUGUST 2015	217.8

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

Table 5.4 Impact Dolphin Monitoring Survey Details August 2015

Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
	NW L	1	1*
08/10/2015	NEL	0	0
	NW L	0	0
08/11/2015	NEL	0	0
	NW L	0	0
08/24/2015	NEL	0	0
	NW L	2	1
08/25/2015	NEL	0	0
	TOTAL in August 2015	3	2

^{*} Location indicates which area was being surveyed when the sighting was made. The area noted does not necessarily indicate where the dolphins were when the sighting was made.

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	
10 & 11 Aug 2015	36.2	73.2	0	1	0	1.4	
24 & 25 Aug 2015	36.3	72.1	0	2	0	2.8	

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	
10 & 11 Aug 2015	36.2	73.2	0	3	0	4.1	
24 & 25 Aug 2015	36.3	72.1	0	6	0	8.3	

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

- 5.7.2 A total of five sightings were made, three "on effort" and two "opportunistic". Two sightings were recorded on the 10 August 2015 and three on the 25 August 2015. Sighting details are summarised are plotted in Appendix K and Figure 5c, respectively. The first group sighted on the 10 August 2015 comprised one individual and the second, three individuals. The first group sighted on 25 August 2015 comprised one individual and the second and third groups, each had three individuals. The two groups of three spotted on the 25 August 2015 were the same individuals but in different locations.
- 5.7.3 Behaviour On the 10 August 2015, both groups sighted were engaged in feeding activities. On 25 August 2015, the first dolphin sighted was feeding and the second two groups were travelling. No calves were sighted in August 2015.Locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June August 2015).
- 5.7.5 Three re-sightings were noted in July 2015. On July 6th, HZMB 008 was sighted in NWL. HZMB 008 has been sighted once previously in NWL in May 2012. HZMB 004 was sighted on 28th July 2015. HZMB 004 was first sighted in March 2012 and again in September 2012, both times in NWL. Previously recorded as HZMB 120, this dolphin left fin is now matched to a right fin of HZMB 107. The single previous sighting of HZMB 120 (May 2014) is now included in HZMB 107 data. HZMB 107 was sighted on 28 July 2015. This dolphin was first sighted in August 2013 and subsequently in May and October of 2014. All sightings have been made in NWL. It is noted that dolphins which have not been sighted for several years have been resighted again in July 2015. Images and re-sightings data are included Appendix K.
- 5.7.6 Noteworthy Observation¹:
- 5.7.6.1 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. As the working vessels will move during the on-going works, 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 movement, dolphin habitat use and dolphin behaviour.
- 5.7.6.2 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.
- 5.7.6.3 Travel to the northern end of line 10 was slightly impeded by the large numbers of ships in the area.

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^{**} 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.

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.

- 5.7.6.4 Anchored fishing vessels were noted on lines 1 and 2. In previous encounters, dolphins were seen feeding in association with these vessels despite them not being active. This may influence both dolphin behaviour and the view of the area.
- 5.7.6.5 New projects were ongoing at the southern ends of line 3. There are no apparent fixed structures associated with this project only platform and servicing vessels. As it is not known what activity was being conducted, the effect that this project may have specifically on dolphins is not known.
- 5.7.6.6 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).
- 5.7.6.7 Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been proposed by ET on 19 July 2015, verified by IEC on 4 August 2015 and approved by EPD on 19 August 2015The amendments proposed to lines 1, 2, 7, 8, 9 and 11 which were submitted to EPD were approved on 19 August 2015. For this Contract HY/2010/02, the approved lines were travelled since 24 and 25 August 2015.
- 5.7.6.8 It is considered EP conditions is complied with, as all transect lines are still travelled to the best of the monitoring vessels ability given that there are now large permanent structures directly over the path of some transects and working barges. These will continue until any new transect line start/end points is formally approved. All noteworthy observations shall continue to be reported so IEC/ENPO continues to have all details.
- 5.7.7 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 Project. In the reporting month, 4 site inspections were carried out on 6, 13, 20 and 27 August 2015.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

- 6.1.3 Rock material was observed dry; the Contractor was reminded to moisten to prevent generation of fugitive dust during operation. The Contractor provided dust control measure on barge. (Closed)
- 6.1.4 Fugitive dust was observed at northeastern part of the site, the Contractor was reminded to prevent generation of fugitive dust and provide sufficient dust control measures to the site. The Contractor provided dust control measures to the concerned area.
- 6.1.5 Dark smoke emitted from pelican barge was observed at Portion C2b. The Contractor was reminded to keep the plant well maintained to prevent generation of dark smoke. The Contractor subsequently rectified the situation and no dark smoke was observed. (Closed)
- 6.1.6 Dark smoke emitted from excavator was observed at Portion D. The Contractor was reminded to keep the plant well maintained to prevent generation of dark smoke. The Contractor subsequently rectified the situation and no dark smoke was observed. (Closed)
- 6.1.7 Fugitive dust was observed when vehicle was drove pass the road. The Contractor was reminded to provide sufficient dust control to prevent generation of fugitive dust.

Noise

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

Water Quality

6.1.9 Insufficient sand bags was observed on idle grout production facilities, the Contractor was reminded to provide enough sand bags before operation of the grout production facilities to prevent potential runoff. (Reminder)

Chemical and Waste Management

- 6.1.10 It was observed that liquid was accumulated inside drip tray, the Contractor was reminded to regularly clear the water accumulated inside drip tray to prevent potential runoff. The Contractor subsequently rectified the situation and cleared the water accumulated inside drip tray. (Closed)
- 6.1.11 Idle air compressors were observed without drip tray, the Contractor was reminded to provide trip tray to air compressor before use of air compressor. (Reminder)
- 6.1.12 It was observed that sand was loaded inside drip tray. The Contractor was reminded to clear the sand inside drip tray. (Pending for Contractor's rectification)
- 6.1.13 A deformed drip tray was observed on site. The Contractor was reminded to provide drip tray which can effectively contain potential leakage of oil. (Pending for Contractor's rectification)

Landscape and Visual Impact

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

Others

6.1.15 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, 60,671.8m³ of fill were imported for the Project use in the reporting period. 336kg of paper/cardboard packaging, 5120kg of plastics and 58.5m³ 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.

6.3 Environmental Licenses and Permits

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

Table 6.1 Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit	Remarks
			From	То	Holder	
EIAO	Environmental Permit	EP- 353/2009/I	17/07/2015	N/A	HyD	Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities
		EP- 354/2009/D	13/03/2015	N/A		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		17/01/2012		CHEC	Works Area WA4
WDO	Chemical Waste Producer Registration	5213-951- C1186-21	30/3/2012	N/A	CHEC	Chemical waste produced in Contract HY/2010/02
WDO	Chemical Waste Producer Registration	5213-974- C3750-01	31/10/2012		CHEC	Registration as Chemical Waste Producer at To Kau Wan(WA4)
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-RS0773- 15	17/07/2015	20/10/2015	CHEC	Reclamation Works in Contract HY/2010/02
NCO	Construction Noise Permit	GW-RE0622- 15	21/06/2015	20/12/2015	CHEC	Section of TKO Fill Bank under 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 malfunction 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 Project site and associated works areas throughout the construction phase.
- 6.4.7 As informed by the Contractor, an area of Portion B has been handed over to other Contract and the perimeter silt curtain near this area of Portion B has been rearranged on 31 July 2015 for berthing another Contractor's vessels (which do not belong to this Contract). IEC/ENPO was informed on 5 Aug 2015 immediately after ET's review. IEC/ENPO provided further comments on 1 September 2015, ET responded 2 September 2015 with notification letter ref.:60249820/rmky15090201. IEC/ENPO expressed no further comment via letter ref.: HYDHZMBEEM00_0_03351L.15 on 8 September 2015 for the removal of section of perimeter silt curtain near Portion B of HKBCF.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 One (1) Limit Level Exceedance of 24hr-TSP was recorded at AMS2 on 10 August 2015. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.3 All impact water quality monitoring results were below the Action and Limit Level in the reporting month.
- 6.5.4 For dolphin monitoring, a total of five sightings were made, three "on effort" and two "opportunistic". Two sightings were recorded on the 10 August 2015 and three on the 25 August 2015. Sighting details are summarised are plotted in Appendix K and Figure 5c, respectively. The first group sighted on the 10 August 2015 comprised one individual and the second, three individuals. The first group sighted on 25 August 2015 comprised one individual and the second and third groups, each had three individuals. The two groups of three spotted on the 25 August 2015 were the same individuals but in different locations.
- 6.5.5 Behaviour of CWD: On the 10 August 2015, both groups sighted were engaged in feeding activities. On 25 August 2015, the first dolphin sighted was feeding and the second two groups were travelling. No calves were sighted in August 2015.Locations of sighting with different behaviour are mapped in Figure 5d.
- 6.5.6 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June August 2015).
- 6.5.7 Environmental site inspection was carried out 4 times in August 2015. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.5.8 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 No complaint, notification of summons and successful prosecutions was received in the reporting period.



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

Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2015
6.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix N.

7 FUTURE KEY ISSUES

7.2 Construction Programme for the Coming Months

7.2.1 As informed by the Contractor, the major works for the Project in September and October 2015 will be *:-

Marine-base

- Rubble Mound Seawall
- Rock fill
- Maintenance of silt curtain & silt screen at sea water intake of HKIA

Land-base

- Earthwork fill
- Surcharge removal & laying
- Deep Cement Mixing
- Removal of Temporary Seawall
- Vertical Band Drains
- Installations of Precast Culverts except sloping outfalls
- 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 September and October 2015 will be changed subject to works progress.

7.3 Key Issues for the Coming Month

- 7.3.1 Key issues to be considered in the coming months:-
 - Site runoff should be properly collected and treated prior to discharge;
 - Minimize loss of sediment from filling works;
 - 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.

7.4 Monitoring Schedule for the Coming Month

7.4.1 The tentative schedule for environmental monitoring in September 2015 is provided in Appendix F.



8 CONCLUSIONS AND RECOMMENDATIONS

8.2 Conclusions

- 8.2.1 The construction phase and EM&A programme of the Project commenced on 12 March 2012.
- 8.2.2 One (1) Limit Level Exceedance of 24hr-TSP was recorded at AMS2. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 8.2.3 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.2.4 All impact water quality monitoring results were below the Action and Limit Level in the reporting month.
- 8.2.5 For dolphin monitoring: A total of five sightings were made, three "on effort" and two "opportunistic". Two sightings were recorded on the 10 August 2015 and three on the 25 August 2015. Sighting details are summarised are plotted in Appendix K and Figure 5c, respectively. The first group sighted on the 10 August 2015 comprised one individual and the second, three individuals. The first group sighted on 25 August 2015 comprised one individual and the second and third groups, each had three individuals. The two groups of three spotted on the 25 August 2015 were the same individuals but in different locations.
- 8.2.6 Behaviour of CWD: On the 10 August 2015, both groups sighted were engaged in feeding activities. On 25 August 2015, the first dolphin sighted was feeding and the second two groups were travelling. No calves were sighted in August 2015.Locations of sighting with different behaviour are mapped in Figure 5d.
- 8.2.7 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June August 2015).
- 8.2.8 No notification of complaint, summons or prosecution was received in the reporting period.
- 8.2.9 Environmental site inspection was carried out 4 times in August 2015. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

8.3 Recommendations

8.3.1 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

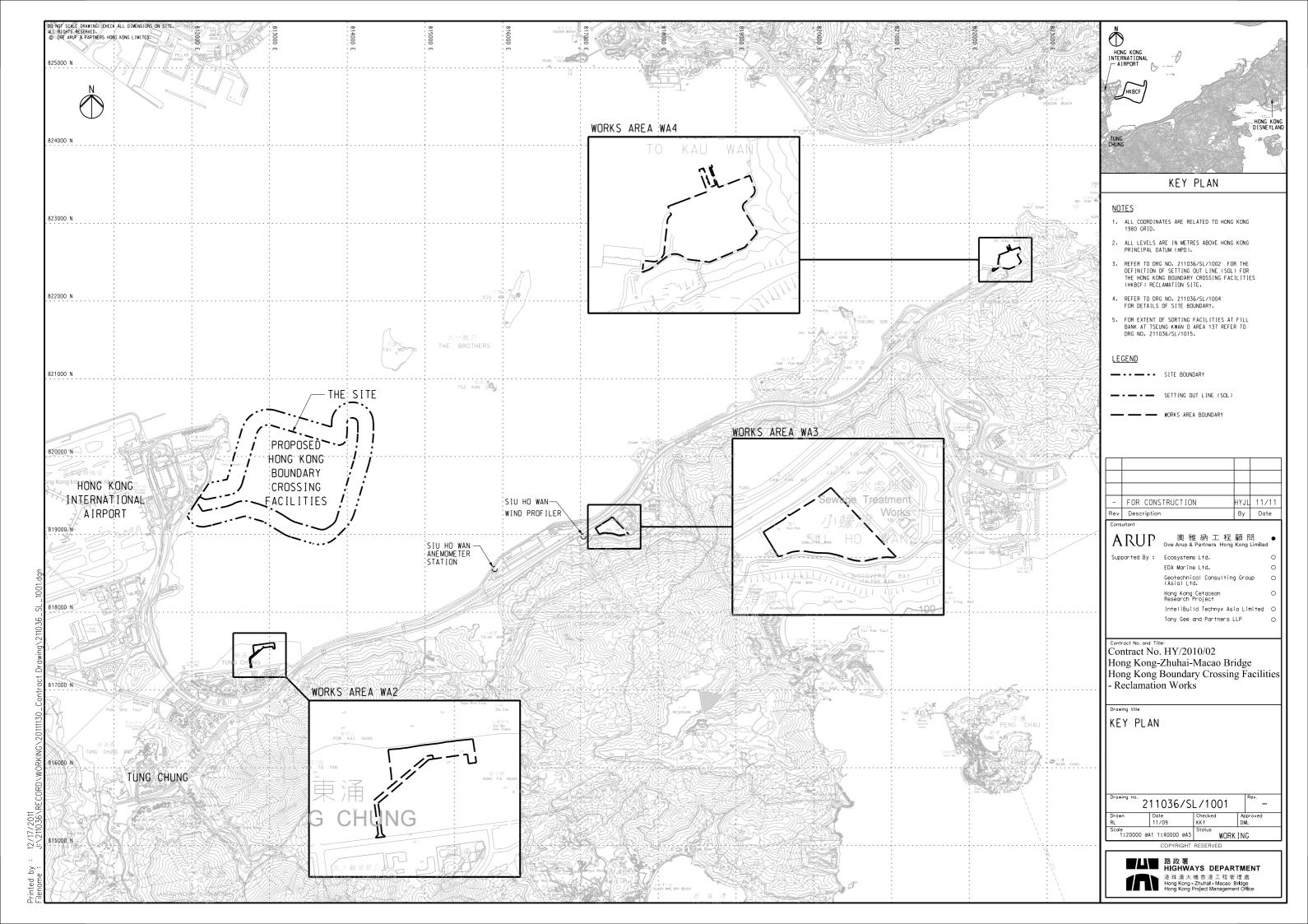
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing 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.

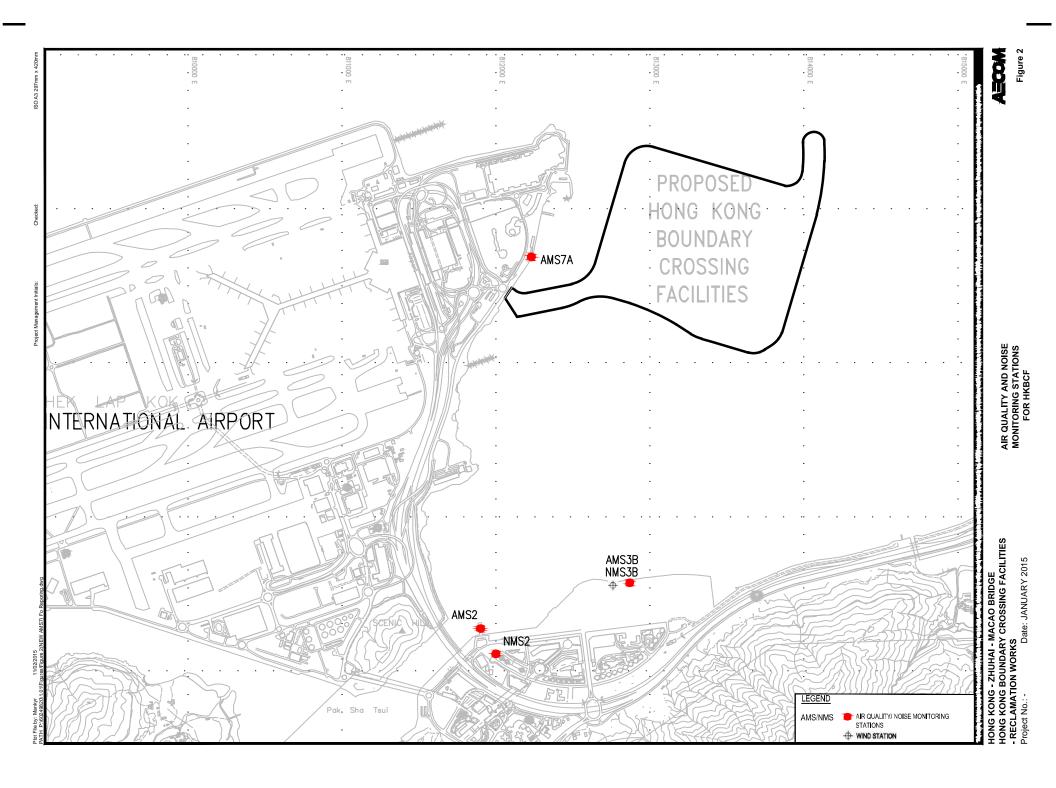
Chemical and Waste Management

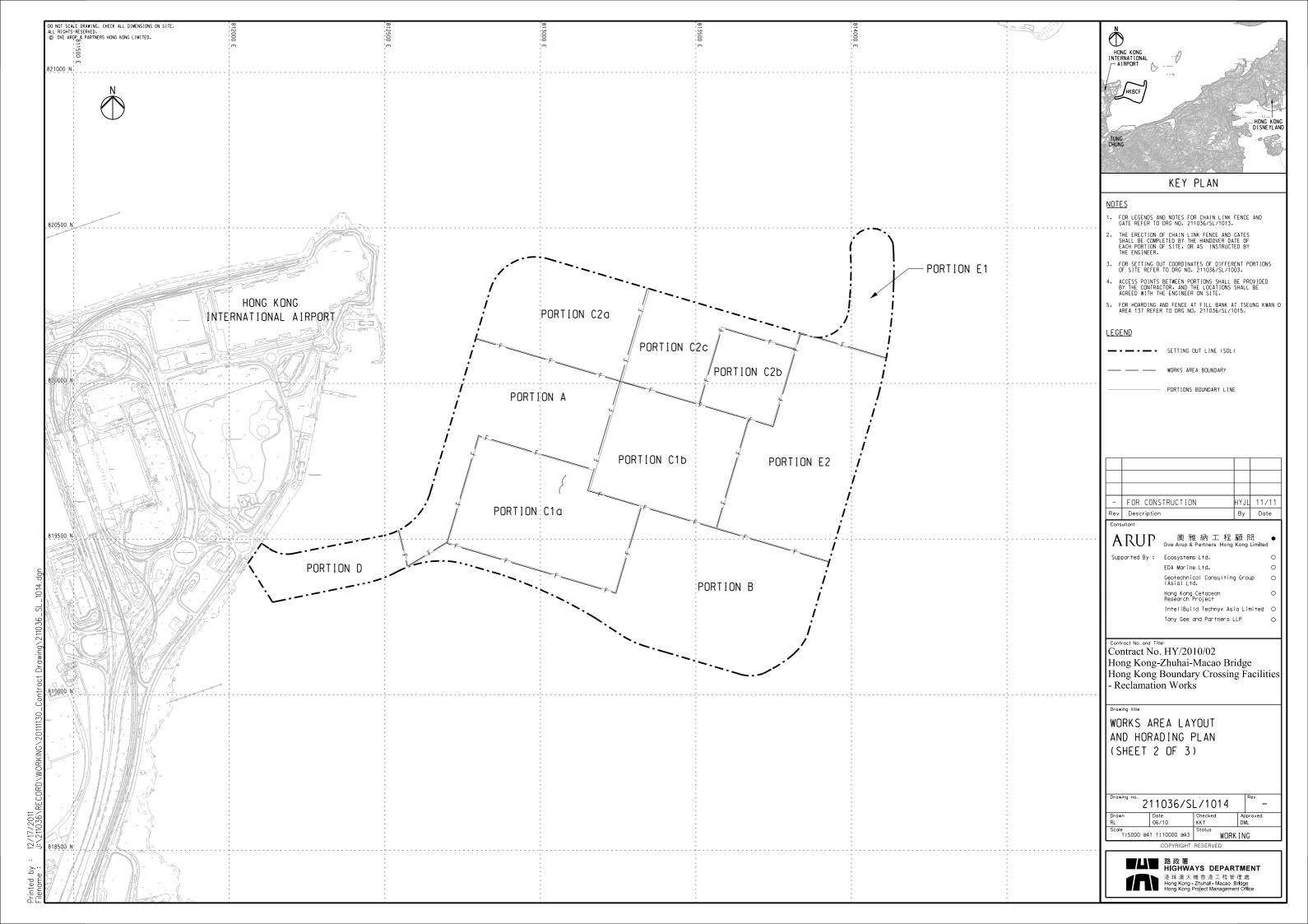
- All types of wastes, both on land and floating in the sea, should be collected and sorted properly
 and disposed of timely and properly. They should be properly stored in designated areas within
 works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and 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.

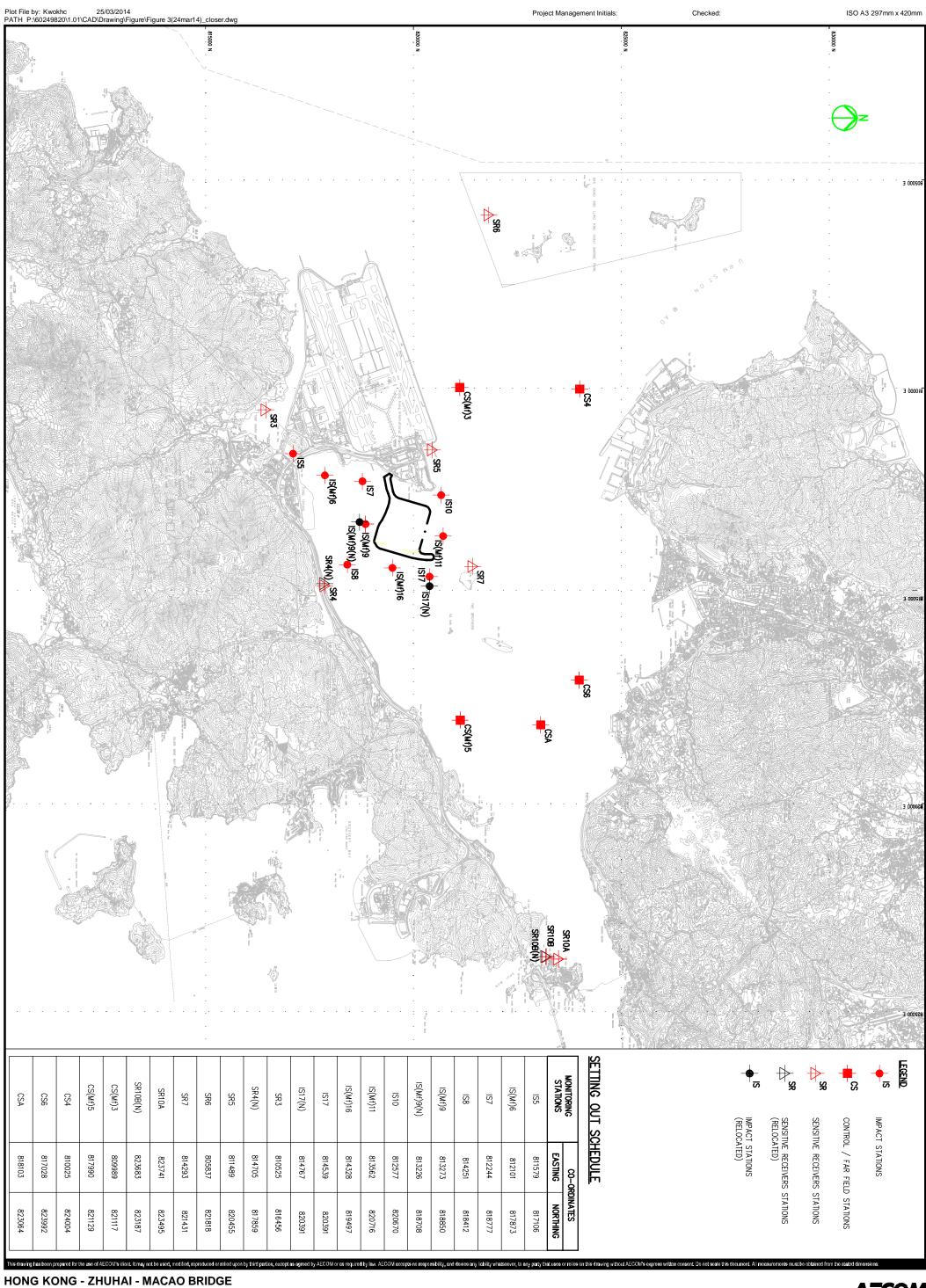
Landscape and Visual Impact

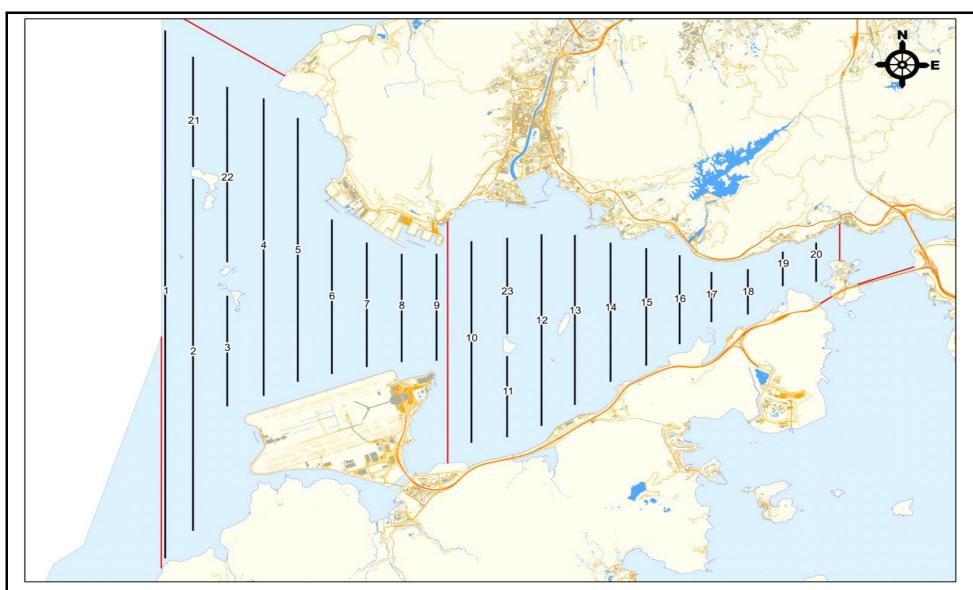
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.











Remarks:

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

Project No.: 60249820 Date: DEC 2012

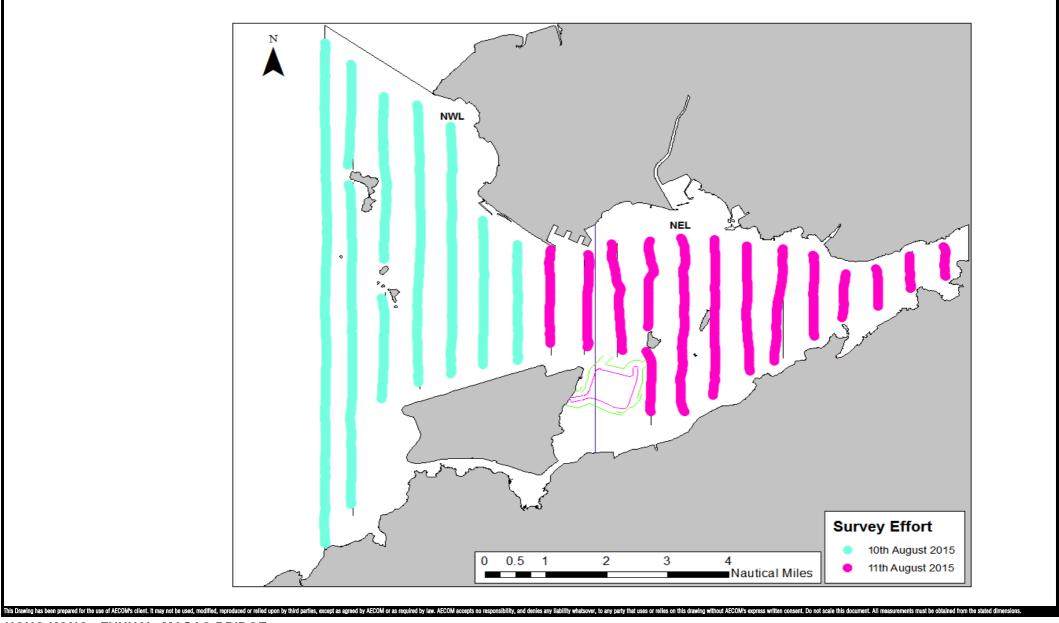




^{*}Transect 10 is now 3.6km in length due to the HKBCF construction site.

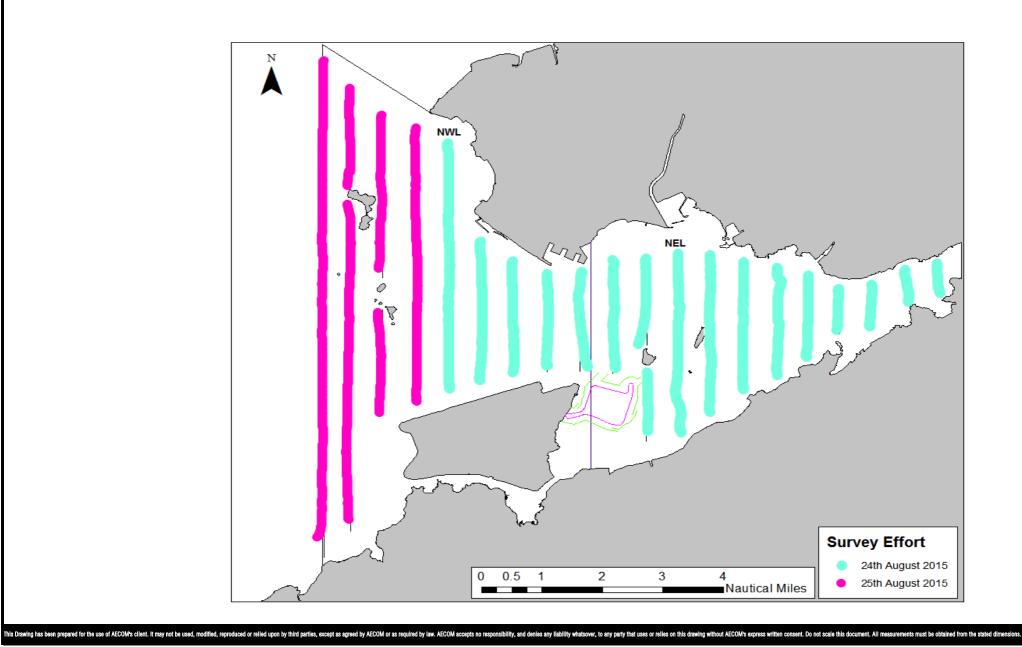
[^]Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km.

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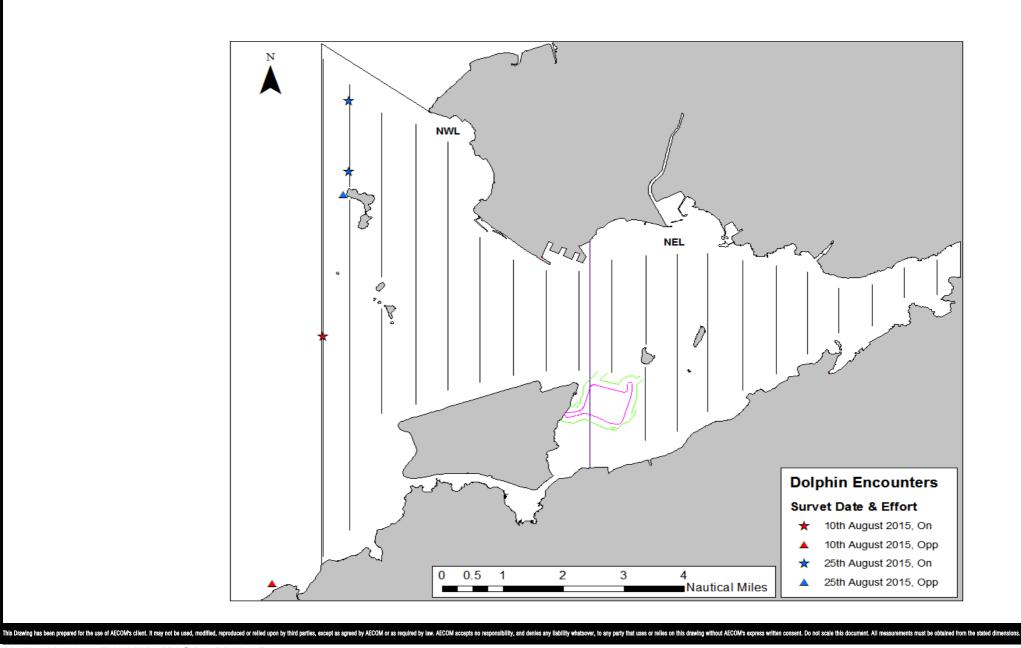
- RECLAMATION WORKS

Project No.: 60249820 Date: Sept 2015



- RECLAMATION WORKS

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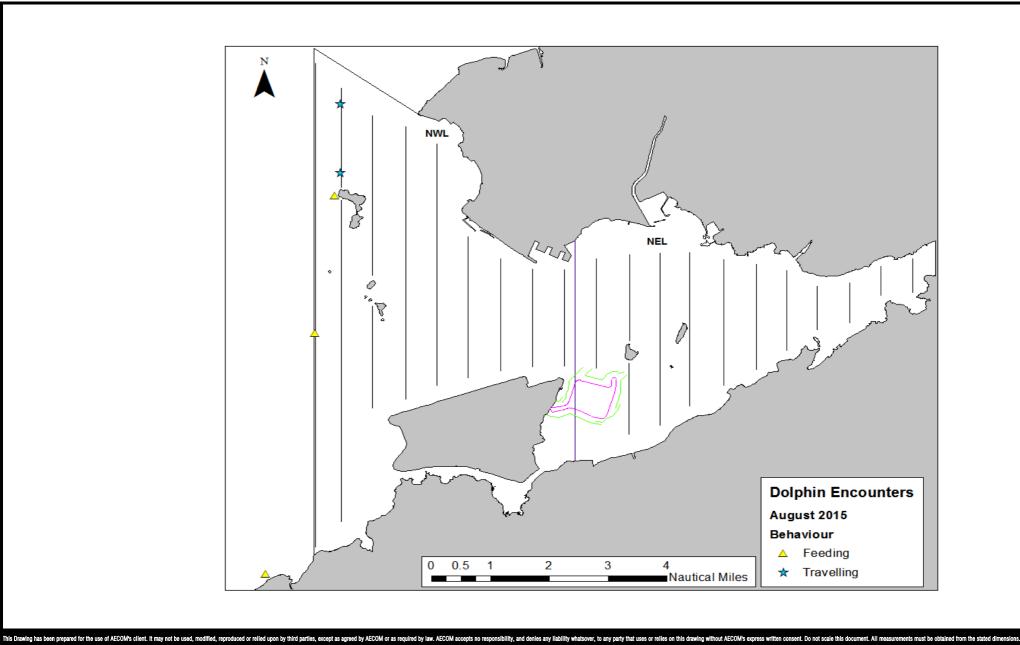


HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CROSSING FACILITIES

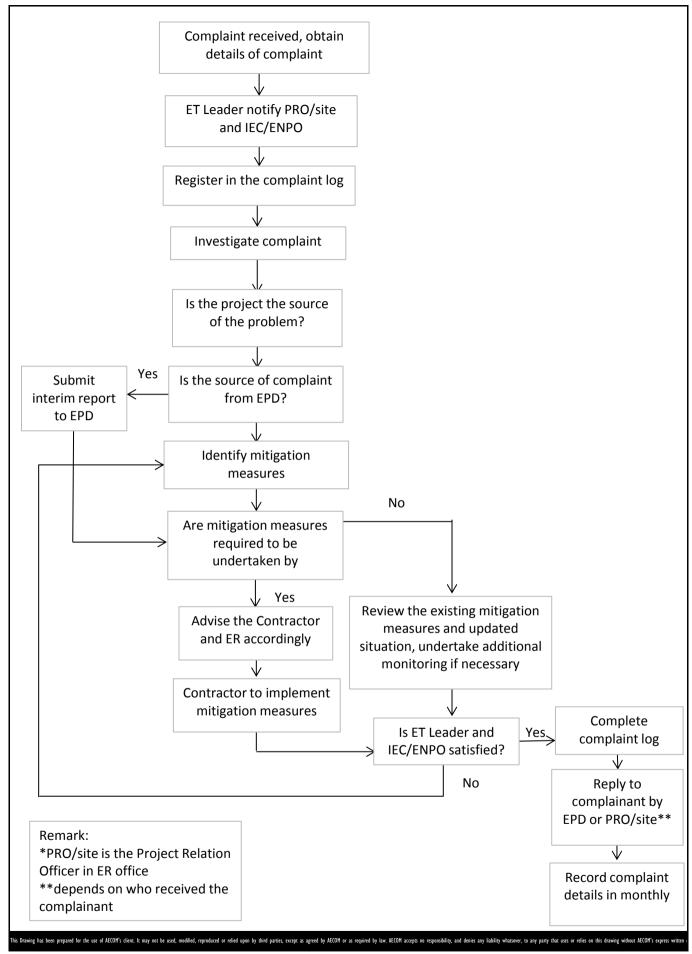
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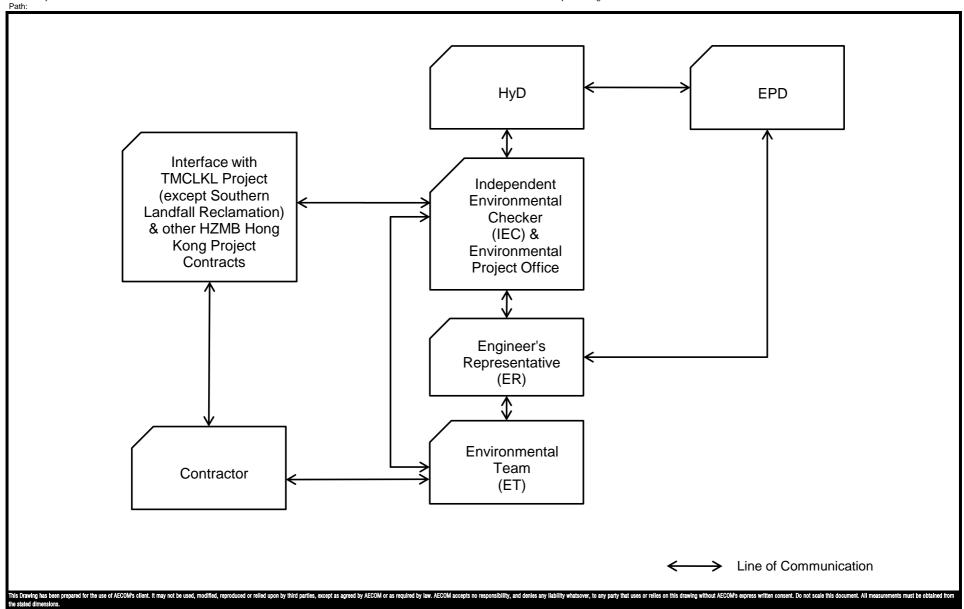


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- RECLAMATION WORKS

Environmental Complaint Handling Procedure

Project No.: 60249820 Date: July 2012 Figure 6

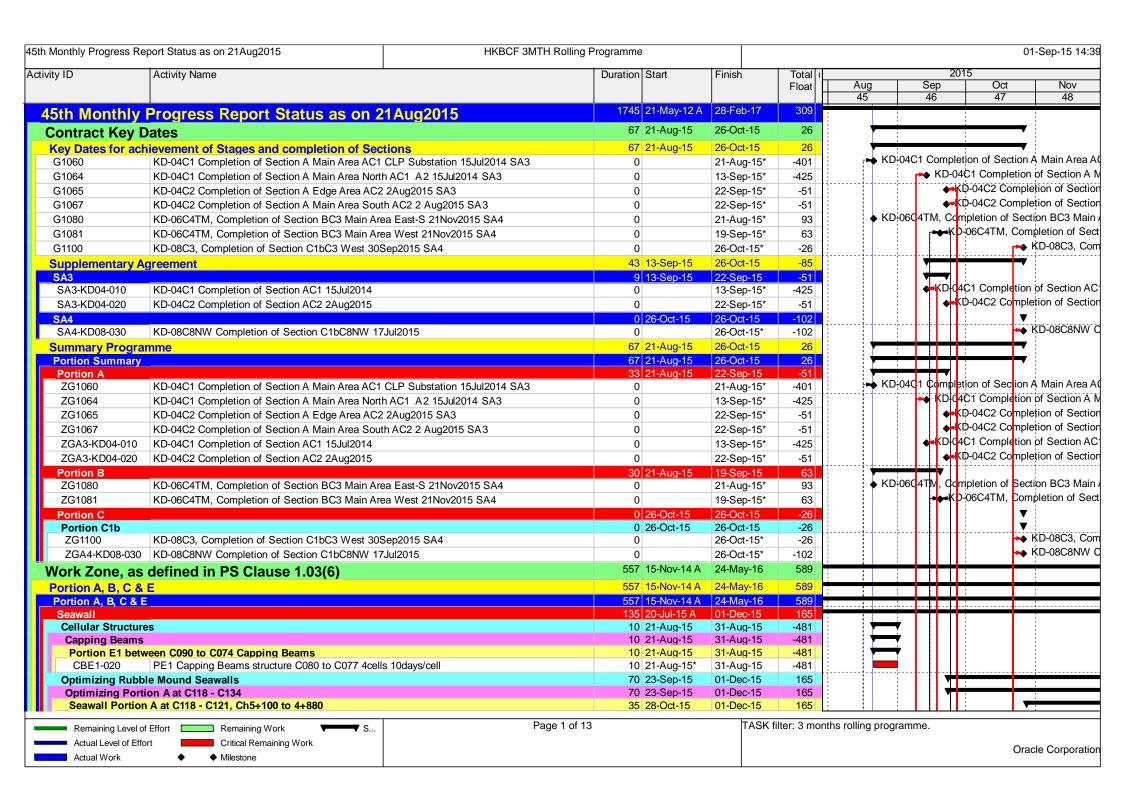


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES --RECLAMATION WORKS

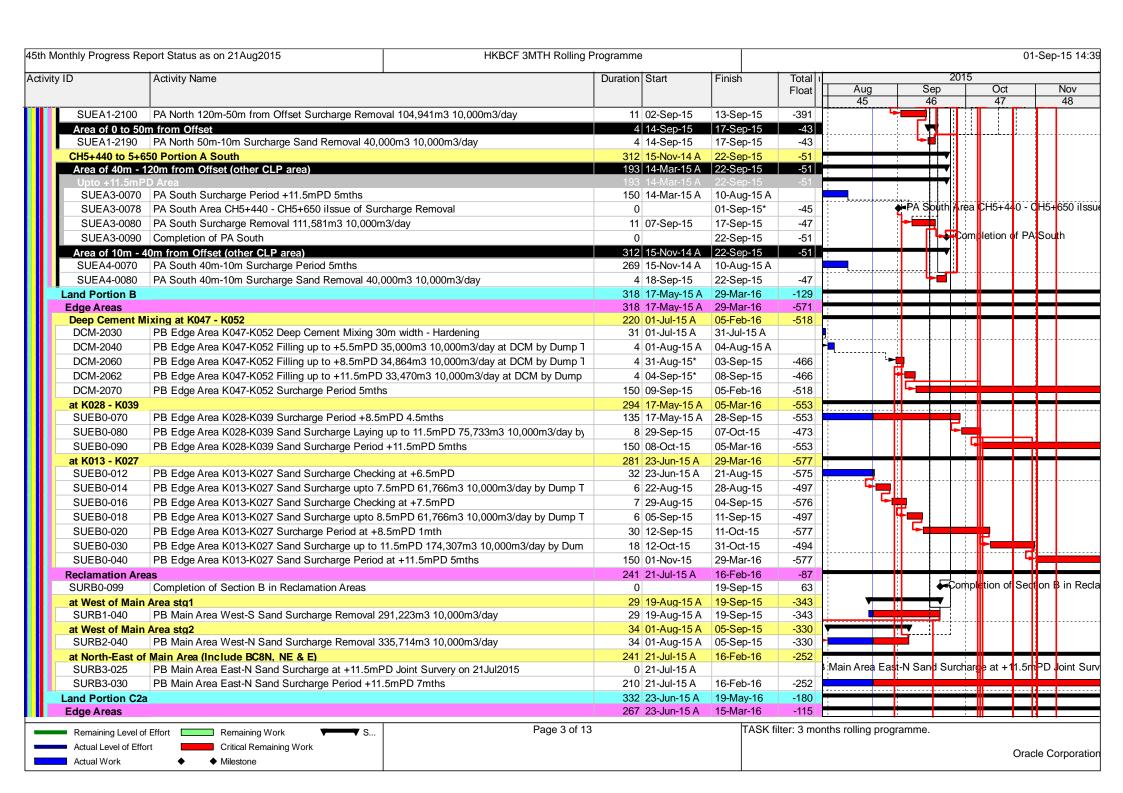
Project No.: 60249820 Date: April 2013

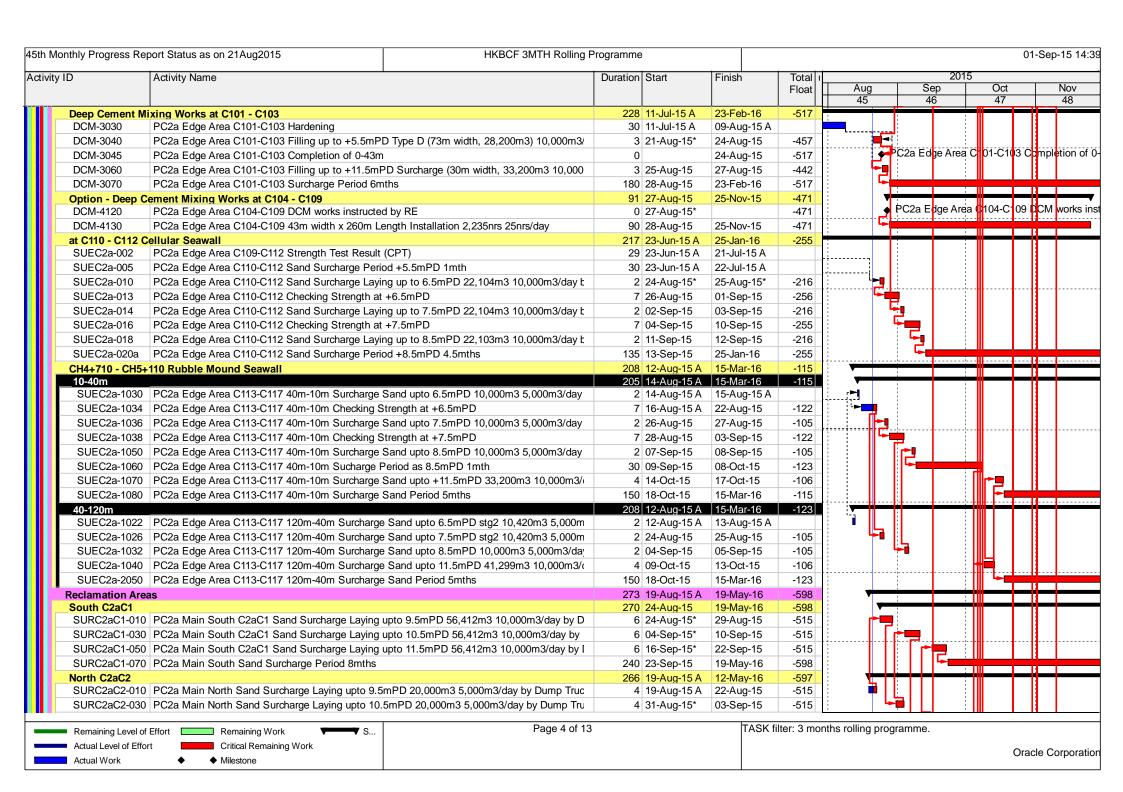


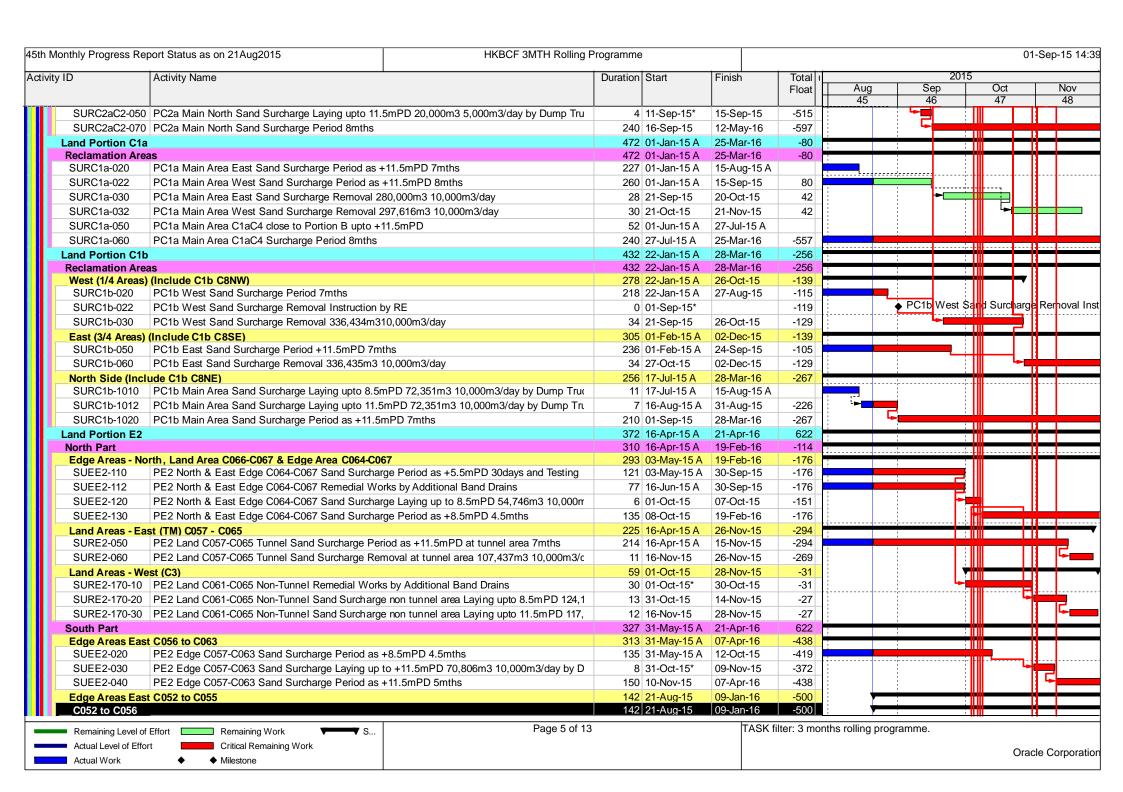


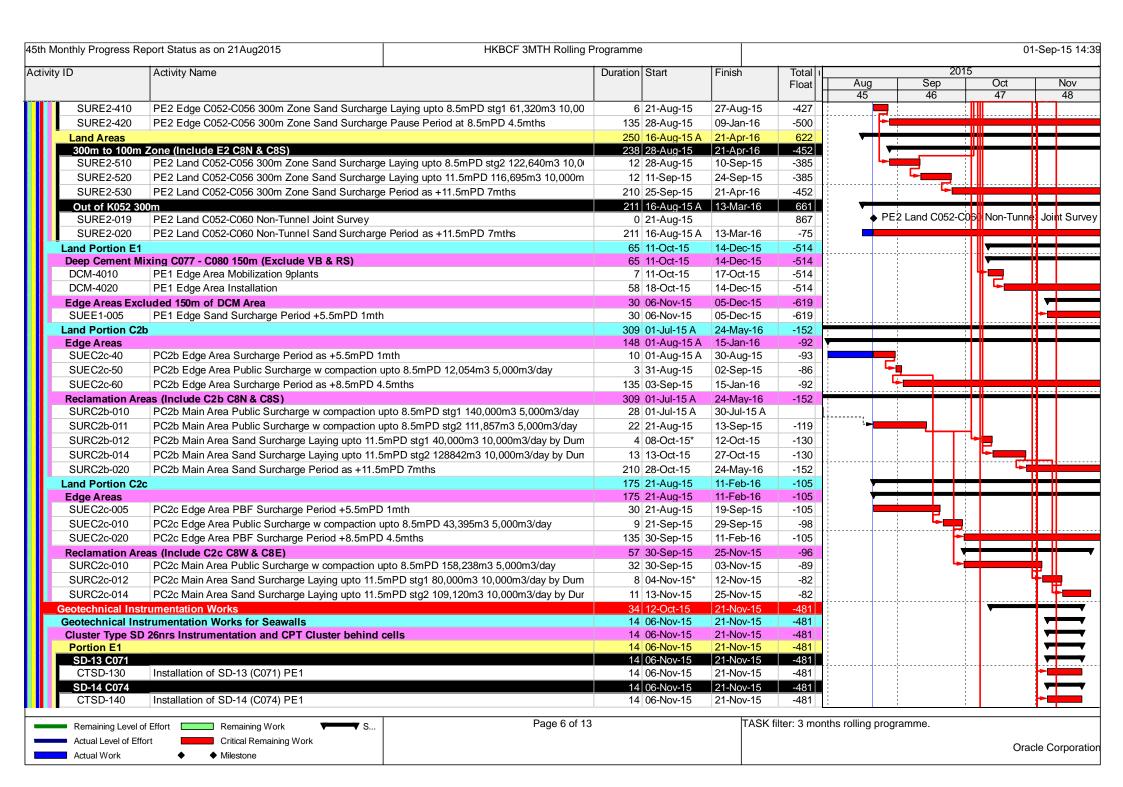


Monthly Progress Re												
rity ID	Activity Name		Duration	Start	Finish	Total	Ι Δ	a		2015	Oct	No
						Float	Aug 45		Sep 46		47	48
RFA1-0110	PA at C121 - C118 Removal of temporary rockfill		11	28-Oct-15	08-Nov-15	157			TĤ	Π!		
RFA1-0120	PA at C121 - C118 Rock Armour 1-3ton 11,102m3 85	0m3/day	13	17-Nov-15	01-Dec-15	142						, →
Seawall Portion	n A at C122 - C124, Ch5+220 to 5+100			20-Oct-15	16-Nov-15	165					▼	
RFA2-0110	PA at C122 - C124 Removal of temporary rockfill			20-Oct-15	27-Oct-15	157					-	
RFA2-0120	PA at C122 - C124 Rock Armour 1-3ton 8,636m3 850)m3/dav		05-Nov-15	16-Nov-15	142						<u>-</u>
	n A at C125 - C128, Ch5+400 to 5+220			08-Oct-15	04-Nov-15	166				 		7
RFA3-0110	PA at C125 - C128 Removal of temporary rockfill			08-Oct-15	19-Oct-15	152				-		:
RFA3-0120	PA at C125 - C128 Rock Armour 1-3ton 11,102m3 85	i0m3/day		21-Oct-15	04-Nov-15	142					- i	=
	n A at C129 - C131, Ch5+550 to 5+400	oo, day		30-Sep-15	20-Oct-15	165				 -	4	
RFA4-0110	PA at C129 - C131 Removal of temporary rockfill			30-Sep-15	07-Oct-15	152						
RFA4-0120	PA at C129 - C131 Rock Armour 0.3-1ton 7,233m3 8	50m3/day		10-Oct-15	20-Oct-15	142				-		i
	n A at C132 - C134, Ch5+700 to 5+550	oomo, aay		23-Sep-15	09-Oct-15	166			,		\top	!
RFA5-0110	PA at C132 - C134, Cn3+700 to 3+350 PA at C132 - C134 Removal of temporary rockfill			23-Sep-15 23-Sep-15	29-Sep-15	150				##		
RFA5-0110	PA at C132 - C134 Removal of temporary focking PA at C132 - C134 Rock Armour 0.3-1ton 7,233m3 8	50m3/day		30-Sep-15	09-Oct-15	142			'			į
		50H5/day				-556						
Conforming Slop	oing Seawaiis			20-Jul-15 A 20-Jul-15 A	29-Sep-15 28-Jul-15 A	-၁၁७				Y		1
Geotextile	n E1 at C068 - C090 23cells			20-Jul-15 A 20-Jul-15 A	28-Jul-15 A 28-Jul-15 A							1
SGE1-020	PE1 Geotextile at C079 - C078 2cells			20-Jul-15 A 20-Jul-15 A	28-Jul-15 A					H-+		: :
Rockfill	1 L 1 Geotextile at CO73 - CO70 2Cells			29-Jul-15 A	29-Sep-15	-556						
	n E1 at C068 - C090 23cells			29-Jul-15 A 29-Jul-15 A	29-Sep-15 29-Sep-15	-556	1	1				i
RFE1-020	PE1 Rockfill type 2 at C080 - C077 4cells			29-Jul-15 A 29-Jul-15 A	07-Sep-15	-562	-	1	_			:
RFE1-020	PE1 Rockfill type 1 at C080 - C077 4cells			08-Sep-15	29-Sep-15	-556		ן : נ				
Reclamation	1 E i Nockilli type i at cooo - corr 4cells			24-Aug-15	05-Nov-15	-619	·				<u>i</u>	
Marine Fill				24-Aug-15 24-Aug-15	10-Oct-15	-619 -617						▼
Land Portion E1				24-Aug-15 24-Aug-15	10-Oct-15	-617		Ŭ ` · ·		<u> </u>		i
MFE1-010	PE1 Marine Sand Fill upto +2.5mPD stg1 70,000m3	5 000m3/day by Pumping barge		24-Aug-15*	07-Sep-15	-562						1
MFE1-020	PE1 Marine Sand Fill upto +2.5mPD stg2 285,354m	, , , , ,		08-Sep-15	10-Oct-15	-532			Z	-	4	1
	ains by Land Plant	o 10,000morday by 1 diffping barge		12-Oct-15	22-Oct-15	-532					<u></u>	; !
	1 12,243nrs by Land			12-Oct-15	22-Oct-15	-532				i i i	_ _	1
VBDE1-10	PE1 Vertical Band Drains 3,478nrs by land plant (400	nrs/day) (2HP)	_	12-Oct-15	22-Oct-15	-532				-		i
Earthwork Fill	1 21 Voltical Band Brains of Horne by land plant (100	moracy) (Em.)		23-Oct-15	05-Nov-15	-532						_
Land Portion E1				23-Oct-15	05-Nov-15	-532						<u> </u>
EFE1-010	PE1 Type D Earthwork Sand Fill upto +5.5mPD 113,	263m3 10 000m3/day by Dump Trucks		23-Oct-15	05-Nov-15	-532						
Surcharge	. 1. Type 2 Lantiment Cana i in apic version 2 113,	zeeme rejecome, aay zy zamp maste		15-Nov-14 A		589	+				<u> </u>	┌┼
Portion A Surcha	arne			15-Nov-14 A		-51			╼┼┷┼┯	/		4
Main Reclamation				21-Jul-15 A	27-Jul-15 A	O I						4
Area of CLP su				21-Jul-15 A	27-Jul-15 A							
SUEA2-0075	PA CLP Issue of Surcharge Removal		0		21-Jul-15 A		CLP Issu	e of Sur	rcharge Re	nova		
SUEA2-0080	PA CLP Substation Sand Surcharge Removal on Ma	in Area 60.410m3 10.000m3/dav		21-Jul-15 A	27-Jul-15 A							<u> </u>
SUEA2-0090	Completion of CLP Substation	,,	0		27-Jul-15 A		Completion	on of CLI	P Substat	aign		4
	SOL offset within 180m to 50m		-	15-Nov-14 A		-51			╼┾┷╄╼	相 日		4 I
SUEA0-199	Completion of Section A at Edge Area 0 - 40m		0	IO NOV ITA	22-Sep-15	-51	1		<u> -</u>	Complet	tion of Se	tion A a
	140 Portion A North		-	01-Sep-15	17-Sep-15	-46	· †					<u> </u>
	120 from Offset			01-Sep-15 01-Sep-15	17-Sep-15 13-Sep-15	-425		<u> </u>	→→]			4
SUEA1-2098	PA North Area CH5+110 - CH5+440 ilssue of Surcha	rge Removal	0	01 00p 10	01-Sep-15*	-425		•	PA No th	Area CH	5+110 - C	H5+440
		Page 2 of 1	-		<u> </u>	ilter: 3 mo	othe rolling			1.1 11		
· ·	of Effort Remaining Work S	1 age 2 01 1	J		17361	3 11101	iaio ioiiii)	g prograi	mino.			
Actual Level of Effe	ort Critical Remaining Work				ı							le Corpo

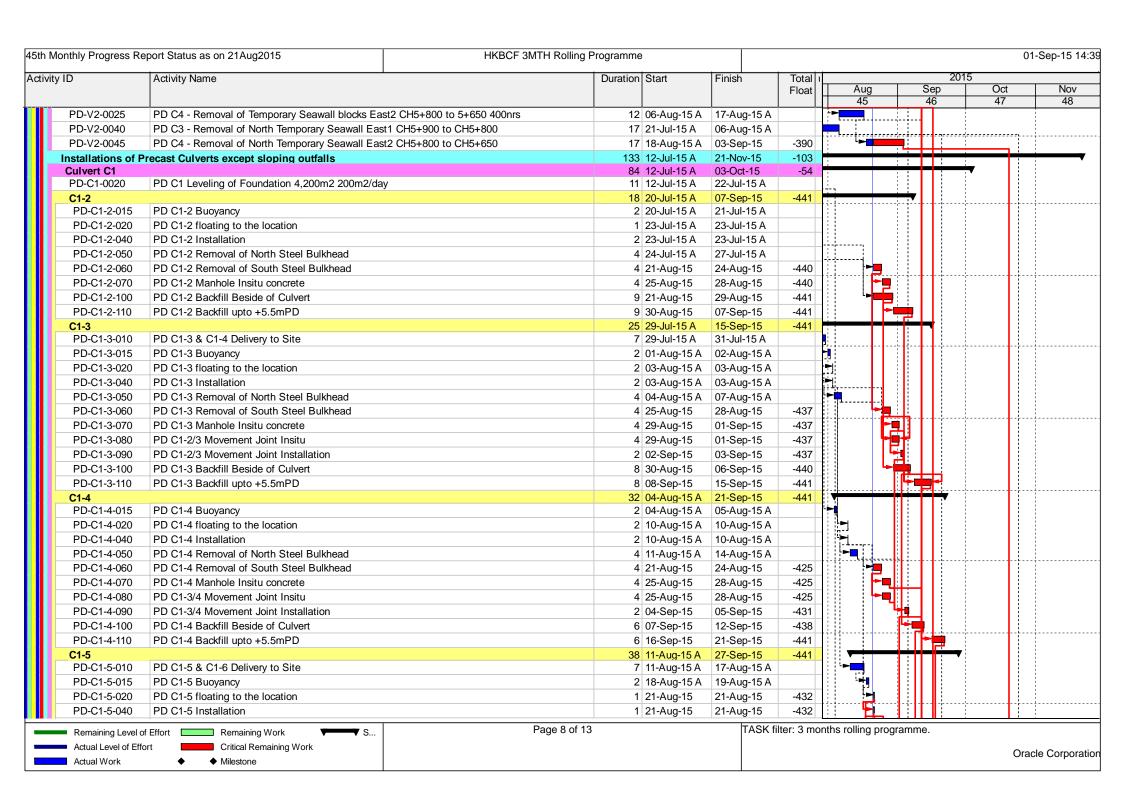








n Monthly Progress R	eport Status as on 21Aug2015	HKBCF 3MTH Rolling P	rogramme						01	1-Sep-15 1
ivity ID	Activity Name		Duration Start	Finish	Total			2015		
					Float	Aug 45		Sep 46	Oct 47	Nov 48
SD-15 C078			14 06-Nov-15	21-Nov-15	-481	+3		40	47	40
CTSD-150	Installation of SD-15 (C078) PE1		14 06-Nov-15	21-Nov-15	-481					-
SD-16 C084			14 06-Nov-15	21-Nov-15	-481	1				—
CTSD-160	Installation of SD-16 (C084) PE1		14 06-Nov-15	21-Nov-15	-481					-
SD-17 C089				21-Nov-15	-481					│ │
CTSD-170	Installation of SD-17 (C089) PE1		14 06-Nov-15	21-Nov-15	-481					-
Geotechnical Ins	strumentation Works for Reclamation RA & RB		14 12-Oct-15	28-Oct-15	-501					
Settlement Marl			14 12-Oct-15	28-Oct-15	-501	1				
SMT2-100	M2 - Installation of Settlement Marker Type2 at Pl	E1	14 12-Oct-15	28-Oct-15	-501				-	
Portion D			219 02-Jul-15 A	05-Feb-16	698	i				1
Submission			0 21-Aug-15	21-Aug-15	867		▼	1		
Design Submissi			0 21-Aug-15	21-Aug-15	867		<u> </u>	; ; 		
	Assessment & Temporary Diversion (stg2 - for c		0 21-Aug-15	21-Aug-15	-399		Y Droine	no Import Alee	000mont 0=-	d Tomas
	Drainage Impact Assessment and Temporary Dive	rsion (stage 2 - for construction of box culver	0	21-Aug-15*	-399		Purainag	ge Impact Asse	assment and	ı rempora
	ssment for Box Culvert EC1		0 21-Aug-15	21-Aug-15	867		Cottlor	nt Assessment	ant for Doy	hout EC
PD-DGN-08010	Settlement Assessment for Box culvert EC1 Subm		0	21-Aug-15*	867	i	Settlen	nent Assessme	HIL TOT BOX C	uiven EC
	sis for Box Culvert EC1 w Precast & Cast in-situ		0 21-Aug-15	21-Aug-15	-399		Ctructu	ral Analysis for	r Doy outvor	 4 EC1 WH
PD-DGN-09010			0	21-Aug-15*	-399		Structu	Tal Arialysis IUI	DOX Cuiveii	CI WILI
	Arrangement & RC drawings for C1 to C4 w Pre		0 21-Aug-15	21-Aug-15	-399		Dotailo	d General Arra	ngoment or	d PC dra
PD-DGN-10010	3	or Box culverts C1 to C4 with Precast Method	0	21-Aug-15*	-399		Detaile	J General Alla	ingement at	iu KC uia
	eawall Blocks & Culverts			06-Jan-16	-452					1
PD-PY1-0200	Convell Blocks for Bormonest construction 1 000s	2 4 9 4 4 9 4 4 9 0 1 4 9 0 1 4 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	150 01-Aug-15 A		-452					·
	Seawall Blocks for Permanent construction 1,990r	118 (3, 180 - 1190)	150 01-Aug-15 A		-452					
Culverts Culverts C2			102 26-Jul-15 A 33 26-Jul-15 A	04-Nov-15 06-Aug-15 A	-394					T*
Curverts C2			33 26-Jul-15 A	06-Aug-15 A						1
PY-C2-5100	PD C02-5 - Wall External Formwork Removal		2 26-Jul-15 A	27-Jul-15 A						
PY-C2-5110	PD C02-5 - Wall Internal Formwork Removal		3 02-Aug-15 A	04-Aug-15 A		. ; ⊳ ∎				·
PY-C2-5120	PD C02-5 - Top Slab Formwork Removal		2 05-Aug-15 A	06-Aug-15 A		<u>-</u> -				
Culverts EC1	1 B 002-0 - 10p clab i ciliwork (tellioval		65 01-Sep-15	04-Nov-15	-394	٦				_
PY-EC1-01000	PD EC01-01 (6.19m) & 02 (17.3m) Casting		20 01-Sep-15*	20-Sep-15	-402					'
PY-EC1-03000	PD EC01-03 (21m) Casting		19 10-Sep-15	28-Sep-15	-402		٦.			
PY-EC1-04000	PD EC01-04 (21m) Casting		17 19-Sep-15	05-Oct-15	-402					
PY-EC1-05000	PD EC01-05 (21m) Casting		16 27-Sep-15	12-Oct-15	-402					
PY-EC1-05000 PY-EC1-06000	PD EC01-05 (21m) Casting PD EC01-06 (21m) Casting		14 05-Oct-15	18-Oct-15	-402	1		1 5.	_	
PY-EC1-06000 PY-EC1-07000	, , , <u>, , , , , , , , , , , , , , , , </u>		13 13-Oct-15	25-Oct-15	-396				1	
PY-EC1-07000 PY-EC1-08000	PD EC01.09 (15m) Casting			_					5	
	PD EC01-08 (15m) Casting		9 21-Oct-15 10 26-Oct-15	29-Oct-15	-396	ļ				<u> </u>
PY-EC1-09000	PD EC01-09 (15.23+3m) Outfall Casting			04-Nov-15	-394					-
Site Construction				05-Feb-16	-179					!
Surcharge East2 Portion			20 09-Jul-15 A 20 09-Jul-15 A	05-Aug-15 A 05-Aug-15 A		<u> </u>				!
A2270	PD East2 - Surcharge Removal 60,000m3 5,000m	n3/day	20 09-Jul-15 A 20 09-Jul-15 A	05-Aug-15 A		<u> </u>				į
C1 to C4	- D Labiz Galorialgo Removal 00,000m3 3,000m	<u>. </u>	219 02-Jul-15 A	05-Feb-16	-179	. franssara				+
Removal of Tem	porary Seawall		34 21-Jul-15 A	03-Feb-16	-390	}				-
	th Temporary Seawall		34 21-Jul-15 A	03-Sep-15	-390	3				1
		Page 7 of 13				nths rolling	nrogrami	me		
Kemaining Level of the control of	of Effort Remaining Work S	1 age 7 of 13					, programm			



rity ID	Activity Name	Dti	Ctort	Finish	Total				2015		
vity ID	Activity Name	Duration	Start	FINISN	Total Float	Aug 45		Sep 46			Nov 48
PD-C1-5-050	PD C1-5 Removal of North Steel Bulkhead	4	22-Aug-15	25-Aug-15	-432	45	-	T	47	T	40
PD-C1-5-060	PD C1-5 Removal of South Steel Bulkhead		26-Aug-15	29-Aug-15	-424	F	-	11		1	1
PD-C1-5-070	PD C1-5 Manhole Insitu concrete		30-Aug-15	02-Sep-15	-424		F-1	11 11			1
PD-C1-5-080	PD C1-4/5 Movement Joint Insitu		30-Aug-15	02-Sep-15	-424		L-4	$\Pi\Pi$		1	
PD-C1-5-090	PD C1-4/5 Movement Joint Installation		06-Sep-15	07-Sep-15	-427		احا	al 1 - 11 :			!
PD-C1-5-100	PD C1-5 Backfill Beside of Culvert		13-Sep-15	18-Sep-15	-438			4		1 1	
PD-C1-5-110	PD C1-5 Backfill upto +5.5mPD		22-Sep-15	27-Sep-15	-441			_I∏⊑	· -	1	
C1-6	<u>'</u>		22-Aug-15	03-Oct-15	-54			╼┾╫┿			İ
PD-C1-6-015	PD C1-6 Buoyancy		22-Aug-15	23-Aug-15	-430	닉	, II	-		1	
PD-C1-6-020	PD C1-6 floating to the location	1	26-Aug-15	26-Aug-15	-432	-					
PD-C1-6-040	PD C1-6 Installation		26-Aug-15	26-Aug-15	-428		<u>-</u>			1 1 3	
PD-C1-6-050	PD C1-6 Removal of North Steel Bulkhead		27-Aug-15	30-Aug-15	-428	Į.	-			'	
PD-C1-6-060	PD C1-6 Removal of South Steel Bulkhead		31-Aug-15	03-Sep-15	-423	į l	-	$\Pi\Pi$			
PD-C1-6-070	PD C1-6 Manhole Insitu concrete	4	04-Sep-15	07-Sep-15	-423		F	all II i			
PD-C1-6-080	PD C1-5/6 Movement Joint Insitu		04-Sep-15	07-Sep-15	-423			Ш			†
PD-C1-6-090	PD C1-5/6 Movement Joint Installation		08-Sep-15	09-Sep-15	-423		- 	4111			
PD-C1-6-100	PD C1-6 Backfill Beside of Culvert		19-Sep-15	24-Sep-15	-438			114	4		
PD-C1-6-110	PD C1-6 Backfill upto +5.5mPD		28-Sep-15	03-Oct-15	-441			11 11	ॉ - <u>-</u>		
PD-C1-6-120	PD C1 Handover to HY/2013/02	0		03-Oct-15	-54			11 11	PD C	1 Hand	dover to H
Culvert C2			12-Jul-15 A	23-Oct-15	-74	.	·	╅╧╫╅			†
PD-C2-0010	PD C2 Excavation 73,000m3 3,500m3/day	The state of the s	12-Jul-15 A	08-Aug-15 A	-			11 11	/ I		
PD-C2-0020	PD C2 Leveling of Foundation	10	09-Aug-15 A		-427	-		11 11	ı I	1 1 3	
C2-2			26-Aug-15	08-Oct-15	-441		_	₩		'	
PD-C2-2-010	PD C2-2 & C2-3 Delivery to site	7	26-Aug-15	01-Sep-15	-432	- 4	-	11 11	ı I	1	İ
PD-C2-2-015	PD C2-2 Buoyancy	2	02-Sep-15	03-Sep-15	-432		4	11-11-			
PD-C2-2-020	PD C2-2 floating to the location	1	04-Sep-15	04-Sep-15	-432			ᆀᅦ			İ
PD-C2-2-040	PD C2-2 Installation	1	04-Sep-15	04-Sep-15	-432			- 1 111	ı I	1	
PD-C2-2-050	PD C2-2 Removal of North Steel Bulkhead	4	05-Sep-15	08-Sep-15	-432		- 1-1		, I	1	
PD-C2-2-060	PD C2-2 Removal of South Steel Bulkhead	4	09-Sep-15	12-Sep-15	-424		-		/ I	1 1	
PD-C2-2-070	PD C2-2 Manhole Insitu concrete	4	13-Sep-15	16-Sep-15	-424			4			[
PD-C2-2-100	PD C2-2 Backfill Beside of Culvert	5	25-Sep-15	29-Sep-15	-437			l II	-		į
PD-C2-2-110	PD C2-2 Backfill upto +5.5mPD	5	04-Oct-15	08-Oct-15	-441				: -	'	
C2-3		39	05-Sep-15	13-Oct-15	-441			╼╄═╫╤			
PD-C2-3-015	PD C2-3 Buoyancy		05-Sep-15	06-Sep-15	-430		- <u> </u>		.	1	
PD-C2-3-020	PD C2-3 floating to the location	1	09-Sep-15	09-Sep-15	-432						-
PD-C2-3-040	PD C2-3 Installation	1	09-Sep-15	09-Sep-15	-429		F				
PD-C2-3-050	PD C2-3 Removal of North Steel Bulkhead	4	10-Sep-15	13-Sep-15	-429		F	-			
PD-C2-3-060	PD C2-3 Removal of South Steel Bulkhead	4	14-Sep-15	17-Sep-15	-426				. [] [
PD-C2-3-070	PD C2-3 Manhole Insitu concrete	4	18-Sep-15	21-Sep-15	-426			1114	<u>a Lij</u>		1
PD-C2-3-080	PD C2-2/3 Movement Joint Insitu	4	14-Sep-15	17-Sep-15	-422			4			
PD-C2-3-090	PD C2-2/3 Movement Joint Installation		22-Sep-15	23-Sep-15	-426				·LLL		1
PD-C2-3-100	PD C2-3 Backfill Beside of Culvert		30-Sep-15	04-Oct-15	-437				· -		1
PD-C2-3-110	PD C2-3 Backfill upto +5.5mPD		09-Oct-15	13-Oct-15	-441				: [
Remaining Level of Eff	· ·	Page 9 of 13	,	TASK	ilter: 3 month	s rolling p	rogram	me.			cle Corpora

vity ID	Activity Name	Duration	Start	Finish	Total			2015		
Mily 1D	Activity Ivanic	Buration	Otart		Float	Aug 45	Sep 46	0	Oct	Nov 48
C2-4		39	10-Sep-15	18-Oct-15	-441	1	1 VI			40
PD-C2-4-010	PD C2-4 & C2-5 Delivery to site		10-Sep-15	14-Sep-15	-432		L- 1	f - F F		
PD-C2-4-015	PD C2-4 Buoyancy		15-Sep-15	16-Sep-15	-432		¶= '			
PD-C2-4-020	PD C2-4 floating to the location		17-Sep-15	17-Sep-15	-432		 			
PD-C2-4-040	PD C2-4 Installation		17-Sep-15	17-Sep-15	-429					
PD-C2-4-050	PD C2-4 Removal of North Steel Bulkhead		18-Sep-15	21-Sep-15	-429					
PD-C2-4-060	PD C2-4 Removal of South Steel Bulkhead		22-Sep-15	25-Sep-15	-429			/ 		
PD-C2-4-070	PD C2-4 Manhole Insitu concrete		26-Sep-15	29-Sep-15	-429			≝		
PD-C2-4-080	PD C2-3/4 Movement Joint Insitu		26-Sep-15	29-Sep-15	-429		∦ 			
PD-C2-4-090	PD C2-3/4 Movement Joint Installation		30-Sep-15	01-Oct-15	-429		1 1111 '	태 II		
PD-C2-4-100	PD C2-4 Backfill Beside of Culvert		05-Oct-15	09-Oct-15	-437					
PD-C2-4-110	PD C2-4 Backfill upto +5.5mPD		14-Oct-15	18-Oct-15	-441		╬┈┈╫╫┼┼┄	-		
C2-5	FD 62-4 Backilli upito +3.5iliFD		18-Sep-15	23-Oct-15	-74		∥ 		<u> </u>	
PD-C2-5-010	PD C2-5 Delivery to site		18-Sep-15	22-Sep-15	-432					
PD-C2-5-015	PD C2-5 Buoyancy		23-Sep-15	24-Sep-15	-432			.		
PD-C2-5-019 PD-C2-5-020	PD C2-5 Budyancy PD C2-5 floating to the location		25-Sep-15 25-Sep-15	25-Sep-15	-432			.		
PD-C2-5-020 PD-C2-5-040	PD C2-5 Installation		· · · · · · · · · · · · · · · · · · ·					<u></u>		
PD-C2-5-040 PD-C2-5-050	PD C2-5 Removal of North Steel Bulkhead		25-Sep-15	25-Sep-15	-432		1 116	≒		
			26-Sep-15	29-Sep-15	-432			<u> </u>		
PD-C2-5-060	PD C2-5 Removal of South Steel Bulkhead		30-Sep-15	03-Oct-15	-432					
PD-C2-5-070	PD C2-5 Manhole Insitu concrete		04-Oct-15	07-Oct-15	-432					
PD-C2-5-080	PD C2-4/5 Movement Joint Insitu		04-Oct-15	07-Oct-15	-432					
PD-C2-5-090	PD C2-4/5 Movement Joint Installation		08-Oct-15	09-Oct-15	-432			_II TII_}	╅┵┨┊	
PD-C2-5-100	PD C2-5 Backfill Beside of Culvert		10-Oct-15	14-Oct-15	-437					
PD-C2-5-110	PD C2-5 Backfill upto +5.5mPD		19-Oct-15	23-Oct-15	-441			"		00.11
PD-C2-5-120	PD C2 Handover to Hy/2013/02	0		23-Oct-15	-74				PD	C2 Han
Culvert C3			17-Aug-15 A		-98					
PD-C3-0010	PD C3 Excavation 68,000m3 3,500m3/day		17-Aug-15 A	15-Sep-15	-425		FIL	_		
PD-C3-0020	PD C3 Leveling of Foundation		16-Sep-15	25-Sep-15	-405			4		
C3-2			26-Sep-15	28-Oct-15	-414				1	
PD-C3-2-010	PD C3-2 & C2-3 Delivery to site		26-Sep-15	02-Oct-15	-428			7		
PD-C3-2-015	PD C3-2 Buoyancy		03-Oct-15	04-Oct-15	-428		41.1.1			
PD-C3-2-020	PD C3-2 floating to the location		05-Oct-15	05-Oct-15	-428		1 11			
PD-C3-2-040	PD C3-2 Installation		05-Oct-15	05-Oct-15	-428					
PD-C3-2-050	PD C3-2 Removal of North Steel Bulkhead		06-Oct-15	09-Oct-15	-428					
PD-C3-2-060	PD C3-2 Removal of South Steel Bulkhead		10-Oct-15	13-Oct-15	-408			-		
PD-C3-2-070	PD C3-2 Manhole Insitu concrete	4	14-Oct-15	17-Oct-15	-408		1		41	
PD-C3-2-100	PD C3-2 Backfill Beside of Culvert	5	15-Oct-15	19-Oct-15	-410					
PD-C3-2-110	PD C3-2 Backfill upto +5.5mPD	5	24-Oct-15	28-Oct-15	-414			- /		
C3-3		28	06-Oct-15	02-Nov-15	-414			∷ll l ⊨⊨	/ 	,
PD-C3-3-015	PD C3-3 Buoyancy	2	06-Oct-15	07-Oct-15	-426		1 11	 - 		
PD-C3-3-020	PD C3-3 floating to the location	1	10-Oct-15	10-Oct-15	-428					
PD-C3-3-040	PD C3-3 Installation	1	10-Oct-15	10-Oct-15	-420		TITT			
PD-C3-3-050	PD C3-3 Removal of North Steel Bulkhead	4	11-Oct-15	14-Oct-15	-420			1 1 1 1 1 1 1 1 1 1		
Remaining Level of	of Effort Remaining Work S	Page 10 of 13			filter: 3 month	ns rollina pro	gramme.			
- Nemailing Level 0	inclining work			1			J			

vity ID	Activity Name	Duration Start	Finish	Totalı		20	15	
,				Float	Aug 45	Sep 46	Oct 47	N
PD-C3-3-060	PD C3-3 Removal of South Steel Bulkhead	4 15-Oct-15	18-Oct-15	-410	40	40		-
PD-C3-3-070	PD C3-3 Manhole Insitu concrete	4 19-Oct-15	22-Oct-15	-410				4
PD-C3-3-080	PD C3-2/3 Movement Joint Insitu	4 19-Oct-15	22-Oct-15	-410			╽┊╽╽┞╫	i
PD-C3-3-090	PD C3-2/3 Movement Joint Installation	2 23-Oct-15	24-Oct-15	-410		-	- 	4
PD-C3-3-100	PD C3-3 Backfill Beside of Culvert	5 20-Oct-15	24-Oct-15	-410			╽┈║╟┕	₌ 1
PD-C3-3-110	PD C3-3 Backfill upto +5.5mPD	5 29-Oct-15	02-Nov-15	-414				-1 ↓ <u>→</u>
C3-4	,	28 11-Oct-15	07-Nov-15	-414			i II √	┍┿ᠮ╾╸
PD-C3-4-010	PD C3-4 & C2-5 Delivery to site	5 11-Oct-15	15-Oct-15	-428			Ĭ ┡ ╫	
PD-C3-4-015	PD C3-4 Buoyancy	2 16-Oct-15	17-Oct-15	-428			H-q	
PD-C3-4-020	PD C3-4 floating to the location	1 18-Oct-15	18-Oct-15	-428				
PD-C3-4-040	PD C3-4 Installation	1 18-Oct-15	18-Oct-15	-423				
PD-C3-4-050	PD C3-4 Removal of North Steel Bulkhead	4 19-Oct-15	22-Oct-15	-423				a []
PD-C3-4-060	PD C3-4 Removal of South Steel Bulkhead	4 23-Oct-15	26-Oct-15	-413				
PD-C3-4-070	PD C3-4 Manhole Insitu concrete	4 27-Oct-15	30-Oct-15	-413		-		
PD-C3-4-080	PD C3-3/4 Movement Joint Insitu	4 27-Oct-15	30-Oct-15	-413				4
PD-C3-4-090	PD C3-3/4 Movement Joint Installation	2 31-Oct-15	01-Nov-15	-413				4
PD-C3-4-100	PD C3-4 Backfill Beside of Culvert	5 25-Oct-15	29-Oct-15	-410				
PD-C3-4-110	PD C3-4 Backfill upto +5.5mPD	5 03-Nov-15	07-Nov-15	-414				l l-m
C3-5	1 D 00 4 Baddin apto 10.0mm B	29 19-Oct-15	16-Nov-15	-98		-		
PD-C3-5-010	PD C3-5 & C4-2 Delivery to site	7 19-Oct-15	25-Oct-15	-428			╽┊╏╏┖┪	-ii ∶
PD-C3-5-015	PD C3-5 Buoyancy	2 26-Oct-15	27-Oct-15	-428				⋢ 』:
PD-C3-5-020	PD C3-5 floating to the location	1 28-Oct-15	28-Oct-15	-428				<u> </u>
PD-C3-5-040	PD C3-5 Installation	1 28-Oct-15	28-Oct-15	-428				
PD-C3-5-050	PD C3-5 Removal of North Steel Bulkhead	4 29-Oct-15	01-Nov-15	-418				
PD-C3-5-060	PD C3-5 Removal of South Steel Bulkhead	4 02-Nov-15	05-Nov-15	-418				
PD-C3-5-070	PD C3-5 Manhole Insitu concrete	4 06-Nov-15	09-Nov-15	-418				. III ₽
PD-C3-5-080	PD C3-4/5 Movement Joint Insitu	4 06-Nov-15	09-Nov-15	-418				▕▋▍፟፟፟፟፟፟፟፟፟
PD-C3-5-090	PD C3-4/5 Movement Joint Installation	2 10-Nov-15	11-Nov-15	-418				░░
PD-C3-5-100	PD C3-5 Backfill Beside of Culvert	5 02-Nov-15	06-Nov-15	-413				·
PD-C3-5-110	PD C3-5 Backfill upto +5.5mPD	5 12-Nov-15	16-Nov-15	-418				▗║┊ <mark>┌</mark> ┖┰
PD-C3-5-120	PD C3 Handover to Hy/2013/02	0	16-Nov-15	-98				
Culvert C4	1 B 00 Handover to Hy/2010/02	67 16-Sep-15	21-Nov-15	-418		∥ ↓		
PD-C4-0010	PD C4 Excavation 68,000m3 3,500m3/day	30 16-Sep-15	15-Oct-15	-425				
PD-C4-0020	PD C4 Leveling of Foundation 3,450m2 200m2/day	10 16-Oct-15	25-Oct-15	-425		-		
C4-2	2 22.2	24 29-Oct-15	21-Nov-15	-418				
PD-C4-2-015	PD C4-2 Buoyancy	2 29-Oct-15	30-Oct-15	-428				
PD-C4-2-020	PD C4-2 floating to the location	1 31-Oct-15	31-Oct-15	-428				
PD-C4-2-040	PD C4-2 Installation	1 31-Oct-15	31-Oct-15	-421				
PD-C4-2-050	PD C4-2 Removal of North Steel Bulkhead	4 01-Nov-15	04-Nov-15	-419				
PD-C4-2-060	PD C4-2 Removal of South Steel Bulkhead	4 05-Nov-15	08-Nov-15	-415				7
PD-C4-2-070	PD C4-2 Manhole Insitu concrete	4 09-Nov-15	12-Nov-15	-414				
PD-C4-2-100	PD C4-2 Backfill Beside of Culvert	5 09-Nov-15	13-Nov-15	-415				·││┊ <mark>┞╼ळ</mark>
PD-C4-2-110	PD C4-2 Backfill upto +5.5mPD	5 17-Nov-15	21-Nov-15	-418				1111 1
Remaining Level Actual Level of Ef	•	Page 11 of 13	TASK	(filter: 3 month	ns rolling pro	gramme.		Oracle Corp

y ID	Activity Name		Duration	Start	Finish	Totalı		20	15	
,						Float	Aug 45	Sep 46	Oct 47	N
C4-3			21	01-Nov-15	21-Nov-15	-418				∏ ∮
PD-C4-3-010	PD C4-3 Delivery to site		5	01-Nov-15	05-Nov-15	-428			1 1 1 /	
PD-C4-3-015	PD C4-3 Buoyancy		2	06-Nov-15	07-Nov-15	-428			1 1 1	│ ╚ <mark>┸</mark> ┓│
PD-C4-3-020	PD C4-3 floating to the location		1	08-Nov-15	08-Nov-15	-428			1 1 1 /	
PD-C4-3-040	PD C4-3 Installation		1	08-Nov-15	08-Nov-15	-422			1 1 1	
PD-C4-3-050	PD C4-3 Removal of North Steel Bulkhead		4	09-Nov-15	12-Nov-15	-422				-
PD-C4-3-060	PD C4-3 Removal of South Steel Bulkhead		4	13-Nov-15	16-Nov-15	-419			1 1 1	
PD-C4-3-070	PD C4-3 Manhole Insitu concrete		4	17-Nov-15	20-Nov-15	-417			1 1 1	1 I F
PD-C4-3-080	PD C4-2/3 Movement Joint Insitu		4	17-Nov-15	20-Nov-15	-419			1 1 1	
PD-C4-3-100	PD C4-3 Backfill Beside of Culvert		5	17-Nov-15	21-Nov-15	-418			1 1 1	
C4-4				09-Nov-15	20-Nov-15	-425				
PD-C4-4-010	PD C4-4 Delivery to site			09-Nov-15	13-Nov-15	-428			1 1 1	L-
PD-C4-4-015	PD C4-4 Buoyancy		2	14-Nov-15	15-Nov-15	-428			1 1 1	4
PD-C4-4-020	PD C4-4 floating to the location			16-Nov-15	16-Nov-15	-428			1 '	-
PD-C4-4-040	PD C4-4 Installation			16-Nov-15	16-Nov-15	-425			1 1 1	
PD-C4-4-050	PD C4-4 Removal of North Steel Bulkhead			17-Nov-15	20-Nov-15	-425				
C4-5	1 B 64 4 Removal of North Steel Buildlead			17-Nov-15	21-Nov-15	-428			1 1 1	
PD-C4-5-010	PD C4-5 Delivery to site			17-Nov-15	21-Nov-15	-428			1	L
Permanent Acce				04-Oct-15	13-Nov-15	-441			╽┈┯╇╼┷╇┙	_
PD-A2080	PD - C1 Divert Access			04-Oct-15	24-Oct-15	-439			┡	
PD-A2090	PD - C2 Divert Access			24-Oct-15	13-Nov-15	-441				
	porary Access to Portion A			25-Oct-15	20-Nov-15	-441			1 1	
PD-A1100	PD C1 - Removal of Temporary Access			25-Oct-15	31-Oct-15	-439			-	
PD-A1110	PD C2 - Removal of Temporary Access			14-Nov-15	20-Nov-15	-441				⇈ ↳
	Sloping Outfalls			02-Nov-15	05-Feb-16	-404				
Culvert C1 Slop				02-Nov-15	05-Feb-16	-404				
PD-C1-0100	PD C1 Construction of Sloping Outfall			02-Nov-15	05-Feb-16	-404				L-
Extension Culve			137	02-Jul-15 A	25-Nov-15	-394		 	: 	-
Excavation & S			137	02-Jul-15 A	25-Nov-15	-394		 		
PD-EC1-0005	PD EC1 Sheetpiles at EC1-6		28	02-Jul-15 A	31-Aug-15	-344			1	
PD-EC1-0010	PD EC1 Excavation 31,000m3		10	25-Oct-15	04-Nov-15	-394			4	
PD-EC1-0020	PD EC1 Formation of Foundation		20	05-Nov-15	25-Nov-15	-394			1	<u> </u>
Construction of	Permanent Seawall		79	04-Sep-15	27-Nov-15	-328		- 	+	_
Vertical Seawal	I Type V2 6+136 to 5+650		79	04-Sep-15	27-Nov-15	-328		V	+	
Foundation Le	veling			04-Sep-15	13-Nov-15	-394		<u> </u>		· · · · · · · · · · · · · · · · · · ·
PD-V2-0050	PD C1 - Vertical Seawall V2 Foundation Leveling			04-Sep-15	19-Sep-15	-382		-	<u> </u>	
PD-V2-0055	PD C2 - Vertical Seawall V2 Foundation Leveling			26-Sep-15	11-Oct-15	-383				
PD-V2-0060	PD C3 - Vertical Seawall V2 Foundation Leveling	3,000m2	15	29-Oct-15	13-Nov-15	-394			'	
Seawall Blocks	s Installation			21-Sep-15	27-Nov-15	-394				
PD-V2-0070	PD C1 West - Vertical Seawall Blocks V2 VSPD2	- 21 Type 2E 150nrs (30nrs/day)	5	21-Sep-15	25-Sep-15	-382		-		il
PD-V2-0080	PD C1 - Vertical Seawall Blocks V2 VSPD1 - 18 T	ype 2A & 2A5 404nrs (30nrs/day)	14	26-Sep-15	10-Oct-15	-382		└ -■		_
PD-V2-0090	PD C1/C2 - Vertical Seawall Blocks V2 VSOP18 -	17 Type 2A4 202nrs (30nrs/day)	7	12-Oct-15	19-Oct-15	-383			-	
PD-V2-0100	PD C2 - Vertical Seawall Blocks V2 VSOP17 - 14	Type 2A3 & 2A 404nrs (30nrs/day)	13	20-Oct-15	02-Nov-15	-383				
PD-V2-0110	PD C2/C3 - Vertical Seawall Blocks V2 VSOP14 -	12 Type 2A & 2A 404nrs (30nrs/day)	13	14-Nov-15	27-Nov-15	-394				-
Remaining Level of Eff	_	Page 12 c	of 13		TASK	filter: 3 montl	ns rolling pro	gramme.		Oracle Corp

th Monthly Progress	Report Status as on 21Aug2015	HKBCF 3MTH Rolling	Programme		·	·		01	1-Sep-15 1
ctivity ID	Activity Name		Duration Start	Finish	Total Float	l Aug	201 Sep	15 Oct	Nov
					Float	45	46	47	48
Rockfill Type	2 behind seawall		16 20-Oct	t-15 05-Nov	·-15 -366				
PD-V2-0180	PD C1 West - Vertical Seawall V2 Rockf ill Type 2	VSPD2 to 20 1,400m3	2 20-Oct	t-15 21-Oct	-15 -367			<u>-1</u>	
PD-V2-0190	PD C1/C2 - Vertical Seawall V2 Rockf ill Type 2 V	SOP19 to 16 2,100m3	3 03-Nov	v-15 05-Nov	-15 -366			Ļ	1
Geotextile Ty	pe 1		17 22-Oct	t-15 08-Nov	⁻ -15 -366			 	
PD-V2-0230	PD C1 West - Vertical Seawall V2 Geotextile Type	1 VSOP22 to 20 1,000m2	2 22-Oct	t-15 23-Oct	-15 -367			<u>-</u> -	1
PD-V2-0240	PD C1/C2 - Vertical Seawall V2 Geotextile Type 1	VSOP19 to 16 1,500m2	3 06-Nov	v-15 08-Nov	-15 -366				<u>-</u>
Reclamation	upto +3.25mPD		21 24-Oct	t-15 14-Nov	⁻ -15 -366			_	
PD-V2-0280	PD C1 West - Vertical Seawall V2 backfill with cor	npaction upto +3.25mPD VSOP22 to 20	6 24-Oct	t-15 29-Oct-	-15 -367			└ - <u>■</u>	<u> </u>
PD-V2-0290	PD C1/C2 - Vertical Seawall V2 backfill with comp	action upto +3.25mPD VSOP20 to 16	6 09-Nov	v-15 14-Nov	-15 -366				-
Insitu Concre	ete Coping		27 30-Oct	t-15 27-Nov	⁻ -15 -367			▼	-
PD-V2-0330	PD C1 West - Vertical Seawall V2 Insitu Coping V	SOP22 to 20 8bays	16 30-Oct	t-15 16-Nov	·-15 -367	i		└ -I	
PD-V2-0340	PD C1/C2 - Vertical Seawall V2 Insitu Coping VS0	DP20 to 16 11bays	11 17-Nov	v-15 27-Nov	-15 -367				-
Reclamation	upto +5.5mPD		4 17-Nov	v-15 20-Nov	·-15 -321				₩
PD-V2-0380	PD C1 - Vertical Seawall V2 backfill with compacti	on upto +5.5mPD VSOP22 to 20	4 17-Nov	v-15 20-Nov	-15 -321	1			-
Works Area V	NA2 (Tung Chung)		1434 21-Ma	y-12 A 28-Feb	-17 0				
Zone A			1434 21-Ma	y-12 A 28-Feb	-17 0		+	+	+
A1880	Maintenance of Engineer's Accommodation	<u> </u>	1434 21-Ma	y-12 A 28-Feb	-17 0		i		-
Works Area 1	Norks Area TKO Fill Bank			p-12 A 30-Nov	'-16 0	:	-	1	1
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities	in Zone A, B1 & B2	1254 25-Sei	p-12 A 30-Nov	·-16 0		-		

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	A2	Proper watering of exposed spoil should be undertaken throughout the construction	All construction sites	V
HKBCFEIA		phase:		
and S4.8.1 of		Any excavated or stockpile of dusty material should be covered entirely by		
TKCLKLEIA		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		

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		

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		

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	А3	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;		

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)	,	
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		

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/m²), 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

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation			
	Ref			Status			
TMCLKLEIA			representative noise				
			monitoring station				
Waste Management (Construction Waste)							
S12.6 of	WM1	The Contractor shall identify a coordinator for the management of waste.	All construction sites	V			
TMCLKLEIA							
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 and S12.6 of TMCLKLEIA		The following mitigation measures should be implemented in handling the waste:	All construction sites				
		Maintain temporary stockpiles and reuse excavated fill material for backfilling and					
		reinstatement;					
		Carry out on-site sorting;					
		Make provisions in the Contract documents to allow and promote the use of					
		recycled aggregates where appropriate;					
		Adopt 'Selective Demolition' technique to demolish the existing structures and					
		facilities with a view to recovering broken concrete effectively for recycling purpose,					
		where possible;					

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; 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	 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

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		

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	<u>Sewage</u>	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		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 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. 		
Water Quality	(Construction	Phase)		Т
	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

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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		
		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		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
	ive:	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;		Status
		 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

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA		 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 	Location	-
		 discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site 		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 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		
		requirements of the WPCO or collected for offsite disposal;		

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 HKBCFEIA and S6.10 of TMCLKLEIA	W3	Implement a water quality monitoring programme	At identified monitoring location	V
S6.10 of TMCLKLEIA	W4	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All construction site areas	V
Ecology (Cons	struction Phas	re)	1	1
S10.7 of HKBCFEIA and S8.14 of TMCLKLEIA	E1	 Install silt curtain during the construction Limit works fronts Construct seawall prior to reclamation filling where practicable 	Seawall, reclamation area	V

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

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		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		rock materials and planting strip area accommodating screen buffer to		
		enhance "natural-look" of new coastline.		
S10.9 of	LV2	Mitigate Landscape Impacts	All construction site	V
TMCLKLEIA		CM7 Ensure no run-off into water body adjacent to the Project Area.	areas	
S14.3.3. 3 of	LV4	Mitigate Visual Impacts	All construction site	V
HKBCFEIA		V1 Minimize time for construction activities during construction period.	areas	
S10.9 of	LV5	Mitigate Visual Impacts	All construction site	V
TMCLKLEIA		CM6 Control night-time lighting and glare by hooding all lights.	areas	
EM&A				
S15.2.2 of	EM1	An Independent Environmental Checker needs to be employed as per the EM&A	All construction site	V
HKBCFEIA		Manual.	areas	
S15.5 - S15.6	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	All construction site	V
of HKBCFEIA		Prepare a systematic Environmental Management Plan to ensure effective	areas	
		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.		

Legend: V = implemented;

x = not implemented;

N/A = not applicable

Appendix D - Summary of Action and Limit Levels

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

Location	Action Level	Limit Level
AMS2	374 μg/m³	500 μg/m³
AMS3B*	368 μg/m³	500 μg/m³
AMS6	360 μg/m³	500 μg/m³
AMS7A [#]	370 μg/m³	500 μg/m³

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

Table 2 - Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AMS2	176 μg/m³	260 μg/m³
AMS3B*	167 μg/m³	260 μg/m³
AMS6	173 μg/m³	260 μg/m³
AMS7A [#]	183 μg/m³	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 weekdays)

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.

^{*}Action level set out at AMS7 Hong Kong SkyCity Marriott Hotel is adopted.

[#]Action level set out at AMS7 Hong Kong SkyCity Marriott Hotel is adopted.

Table 4 - Action and Limit Levels for Water Quality

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)
	<u>Bottom</u>	<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 and130% 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	

Notes:

- "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)] AND			
	[(STG < 3.9)& (ANI < 17.9)]			

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	Tung Chung Development Pier (AMS2) Operator: Leung Yiu Ting						
Cal. Date:	27-Jul-15			Next Due Date:	27-Se	p-15	_
Equipment No.:	A-001-78T	-		Serial No. 3383		3383	
			Ambient	Condition			
Temperatu	re, Ta (K)	303	Pressure, I	Pa (mmHg)		757.3	
	•	-		,			
		(Orifice Transfer S	tandard Informatio	n		
Serial	No:	843	Slope, mc	1.99924	Interce		-0.0123
Last Calibra	ation Date:	9-Dec-14			= [DH x (Pa/760) x		
Next Calibra	ation Date:	9-Dec-15		Qstd = {[DH x (F	Pa/760) x (298/Ta)] ¹	1/2 -bc} / mc	
			Calibration o	of TSP Sampler			
		0	rfice	Tor Gumpler	HVS	S Flow Recorder	
Resistance	DH (orifice),			Qstd (m³/min) X	Flow Recorder	Continuous Flo	w Recorder
Plate No.	in. of water	[DH x (Pa/76	60) x (298/Ta)] ^{1/2}	axis	Reading (CFM)	Reading IC (CF	
			2.78	1.40	47.0	46.5	3
18	7.9	1	2.10				
18 13	7.9 6.9	-	2.60	1.31	43.0	42.5	7
				+	43.0 37.0	42.5 36.6	
13	6.9		2.60	1.31	5000000		3
13 10	6.9 5.0		2.60 2.21	1.31 1.11	37.0	36.6	3
13 10 7 5 By Linear Regre	6.9 5.0 4.0 2.4 ession of Y on X 37.4357		2.60 2.21 1.98	1.31 1.11 1.00	37.0 32.0	36.6 31.6 22.7	3
13 10 7 5 By Linear Regre Slope, mw = Correlation Coe	6.9 5.0 4.0 2.4 ession of Y on X 37.4357	- 0.9	2.60 2.21 1.98 1.53	1.31 1.11 1.00 0.77	37.0 32.0 23.0	36.6 31.6 22.7	3
13 10 7 5 By Linear Regre Slope , mw = Correlation Coe	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 fficient* =	- 0.9	2.60 2.21 1.98 1.53	1.31 1.11 1.00 0.77	37.0 32.0 23.0	36.6 31.6 22.7	3
13 10 7 5 By Linear Regree Slope, mw = Correlation Coe	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 fficient* =	0.s	2.60 2.21 1.98 1.53 9970 prate. Set Point	1.31 1.11 1.00 0.77	37.0 32.0 23.0	36.6 31.6 22.7	3
13 10 7 5 By Linear Regresione, mw = Correlation Coefficient Coef	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 fficient* =	0.scheck and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min	1.31 1.11 1.00 0.77	37.0 32.0 23.0	36.6 31.6 22.7	3
13 10 7 5 Sy Linear Regresione, mw = Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Coef	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 fficient* = efficient < 0.990, of eld Calibration Cur	check and recalib	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7	3
13 10 7 5 Sy Linear Regresione, mw = Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Correlation Coeff Coef	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 fficient* = efficient < 0.990, of eld Calibration Cur	check and recalib	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to	1.31 1.11 1.00 0.77	37.0 32.0 23.0 -5.8	36.6 31.6 22.7	3
13 10 7 5 By Linear Regresion Coefficient the TSP Figure 13 From the Regresion the Re	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 efficient* = efficient < 0.990, of eld Calibration Curl sion Equation, the	check and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to x Qstd + bw = IC	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7 043	3
13 10 7 5 By Linear Regresion Coefficient	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 efficient* = efficient < 0.990, of eld Calibration Curl sion Equation, the	check and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7	3
13 10 7 5 By Linear Regresion Coefficient	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 efficient* = efficient < 0.990, of eld Calibration Curl sion Equation, the	check and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to x Qstd + bw = IC	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7 043	3
13 10 7 5 By Linear Regre Slope , mw = Correlation Coe If Correlation Coe From the TSP Fie	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 efficient* = efficient < 0.990, of eld Calibration Curl sion Equation, the	check and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to x Qstd + bw = IC	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7 043	3
13 10 7 5 By Linear Regre Slope , mw = Correlation Coe If Correlation Coe From the TSP Fie	6.9 5.0 4.0 2.4 ession of Y on X 37.4357 efficient* = efficient < 0.990, of eld Calibration Curl sion Equation, the	check and recalit	2.60 2.21 1.98 1.53 9970 prate. Set Point 1.30m³/min ding to x Qstd + bw = IC	1.31 1.11 1.00 0.77 Intercept, bw =	37.0 32.0 23.0 -5.8	36.6 31.6 22.7 043	3

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

and the second	Oile Douridary or	Site Office (WA2)	(AMS3B)	Operator:	Leung Y	'iu Ting		
cal. Date:	6-Jul-15			Next Due Date:	6-Se	p-15		
quipment No.:	A-001-79T	-		Serial No.	33	84	_	
		v	Ambient	Condition				
Temperatu	re, Ta (K)	303	Pressure, F	Pa (mmHg)		749.7		
				'				
		(Orifice Transfer S	tandard Informatio	n			
Serial	No:	843	Slope, mc	1.99924	Interce	ept, bc	-0.0123	
Last Calibra	ation Date:	9-Dec-14		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}		
Next Calibra	ation Date:	9-Dec-15		Qstd = {[DH x (F	Pa/760) x (298/Ta)]	^{/2} -bc} / mc		
			Calibration	f TSP Sampler				
		C	rfice	i i or Samplei	HVS	S Flow Recorder		
Resistance		T		1			5 .	
Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFI		
18	7.3		2.66	1.34	50.0	49.25		
13	6.0		2.41	1.21	44.0	43.34		
10	4.9		2.18	1.10	36.0	35.46		
7	3.2		1.76	0.89	25.0	24.62		
5	2.0	+	1.39	0.70	16.0	15.76		
lope , mw = Correlation Coe	53.5454 fficient* = efficient < 0.990,		9974 prate.	Intercept, bw =	-22.4	1032		
	AND CONTRACTOR OF CONTRACTOR O							
				Calculation				
rom the TSP Fie	eld Calibration Cu		1.30m ³ /min	Calculation				
rom the TSP Fie	eld Calibration Cur sion Equation, the		1.30m ³ /min	Calculation				
rom the TSP Fie		"Y" value accord	1.30m ³ /min ding to		r_11/2			
rom the TSP Fie		"Y" value accord	1.30m ³ /min ding to	Calculation x [(Pa/760) x (298/1	[a)] ^{1/2}			
rom the TSP Fie	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC	х [(Pa/760) x (298/1	「a)] ^{1/2}	47 93		
rom the TSP Fie	sion Equation, the	"Y" value accord	1.30m ³ /min ding to	х [(Pa/760) x (298/1	「a)] ^{1/2}	47.93		
rom the TSP Fie	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC	х [(Pa/760) x (298/1	「a)] ^{1/2}	47.93		
rom the TSP Fie	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC	х [(Pa/760) x (298/1	「a)] ^{1/2}	47.93		
from the TSP Fie from the Regress	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC	х [(Pa/760) x (298/1	[a)] ^{1/2}	47.93		
from the TSP Fie from the Regress	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC	х [(Pa/760) x (298/1	「a)] ^{1/2}	47.93		
From the TSP Fie	sion Equation, the	"Y" value accord	1.30m ³ /min ding to x Qstd + bw = IC 50 / Pa) x (Ta / 29	х [(Pa/760) x (298/1	[a)] ^{1/2}	47.93		

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	Chu Kong Air-Sea Uni	ion Transportation C	o.Ltd. (AMS7A)	Operator:	Cheung H	ung Wai	
al. Date:	31-Jul-15			Next Due Date:	30-Se	30-Sep-15	
Equipment No.:	A-001-80T	- ,		Serial No.	No. 3385		-
			Ambient	Condition			
Temperatu	re, Ta (K)	304.0	Pressure, F	Pa (mmHg)		752.3	
			Orifice Transfer S	tandard Informatio	n		
Serial	l No:	843	Slope, mc	1.99924	Interce		-0.01238
Last Calibra	ation Date:	9-Dec-14			= [DH x (Pa/760) x		
Next Calibra	ation Date:	9-Dec-15		Qstd = {[DH x (F	Pa/760) x (298/Ta)] ¹	^{/2} -bc} / mc	
			Calibration	of TSP Sampler			
			Orfice	or Tor Gampler	HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water		60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
18	7.2		2.64	1.33	47.0	46.3	0
13	6.0		2.41	1.21	41.0	40.3	9
10	4.8		2.16	1.09	34.0	33.4	9
7	3.5	1	1.84	0.93	26.0	25.6	1
5	2.7		1.62	0.82	21.0	20.6	9
Slope , mw = Correlation Coe	-		9989	Intercept, bw =	-20.	8261	_
*If Correlation Co	oefficient < 0.990,	check and recal	ibrate.				
				t Calculation			
From the TSP F	ield Calibration Cu	urve, take Qstd =	1.30m ³ /min				
From the Regres	ssion Equation, the	e "Y" value acco	rding to				
		mv	v x Qstd + bw = IC	x [(Pa/760) x (298/	Та)]"-		
Therefore Cat E	Point: IC = / mw v	Oetd + bw \ v [('	760 / Pa) x (Ta / 2	98)11/2=		45.35	
Therefore, Set F	Foint, IC – (IIIw X	CSIU + DW) x [(100/14/1/2	.00 /] -		40100	_
Remarks:							
						3500	
OC Poviower:	LIS CHA	71	Signature	FI		Date: 3 //7	115



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 - De Operator	ec 09, 2014 Tisch	Rootsmeter Orifice I.I		438320 0843	Ta (K) - Pa (mm) -	293 - 755.65
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4010 0.9950 0.8830 0.8420 0.6960	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0069 1.0027 1.0006 0.9994 0.9942	0.7187 1.0077 1.1332 1.1870 1.4285	1.4221 2.0112 2.2486 2.3584 2.8443		0.9957 0.9915 0.9894 0.9883 0.9831	0.7107 0.9965 1.1206 1.1738 1.4126	0.8806 1.2454 1.3924 1.4603 1.7612
Qstd slop intercept coefficient	(b) =	Qa slope intercept coefficie v axis =	z (b) =	1.25189 -0.00766 0.99990		

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 Di	ust Moni	tor		
	facturer/Brand:		-	SIBATA	act mom			
Model	l No.:		-	LD-3				
	ment No.:		A.005.07a					
Sensitivity Adjustment Scale Setting: Operator:				557 CP	И			
				Mike She	ek (MSKN	<i>M</i>)		
Standa	rd Equipment							
							750 - 330	
Equip			precht & Pa	The state of the s		, ,		
Venue			erport (Pui \	ring Seco	ondary So	chool)		
Model Serial			es 1400AB	1401100	00000			
Serial	NO.	Con		DAB2198		V . 10500		
Last C	Calibration Date*:	Sen 7 Ma	ay 2015	00C1436	59803	K _o : <u>12500</u>		
		-						
*Remar	ks: Recommend	ed interval	I for hardwa	re calibra	tion is 1 y	year		
Calibra	tion Result							
Consid	tivity Adjustment	Saala Satt	lina (Poforo	Calibratia	· n) ·	<i>557</i> OF	28.4	
	tivity Adjustment tivity Adjustment					557 CF 557 CF		
Ochsii	livity Adjustille III	ocale oeti	ing (Aiter C	alibration).	CF	IVI	
Hour	Date	Т	Time Ambient		pient	Concentration ¹	Total	Count/
	(dd-mm-yy)			Con	dition	(mg/m³)	Count ²	Minute ³
				Temp	R.H.	Y-axis		X-axis
				(°C)	(%)			
1	08-05-15	09:15	- 10.15	26.9	76	0.04417	1763	29.38
2	08-05-15	10:15	- 11:15	26.9	76	0.04625	1851	30.85
3	08-05-15	11:15	- 12:15	26.9	77	0.04513	1805	30.08
4	08-05-15	12:15	- 13:15	27.1	77	0.04828	1926	32.10
Note:						shnick TEOM®		
	 Total Count Count/minut 							
	o. Countrillina	e was care	diated by ()	otal Cou	11000)			
By Line	ar Regression of	Y or X						
	(K-factor):		0.0015					
	ation coefficient:		0.9983	8				
Validit	y of Calibration F	Secord:	8 May 20	16				
	,		_ 0 may 20	, -				
Remark	KS:							
				()		10		
L								
					1			
QC Re	eviewer: YW F	ung	Signa	ture:	1	Date	e: _11 Ma	y 2015

Model N Equipm	cturer/Brand: No.: ent No.: vity Adjustment	Scale Settii	- - - ng: -	Laser D SIBATA LD-3 A.005.08 702 CP	Ва	nitor		
Operato	or:		-	Mike She	ek (MSK	(M)		
Standard	d Equipment						5510	
	No.:	Cybe Serie Contr Sens 7 Ma	or: 12 y 2015	Ying Seco 0AB2198 00C1436	99803 59803	School) K _o : _128	500	
Calibrati	on Result				·			
Sensitiv	rity Adjustment rity Adjustment					702 702	CPM CPM	
Hour	Date (dd-mm-yy)	Tin	ne	Amb Cond Temp (°C)		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1	08-05-15	09:30 -	10:30	26.9	76	0.04587	1722	28.70
2	08-05-15	10:30 -	11:30	26.9	76	0.04774	1795	29.92
3	08-05-15	11:30 -	12:30	26.9	77	0.04976	1864	31.07
Note:	Total Count Count/minut	was logged e was calcu	by Laser	Dust Mor	nitor	0.05051 tashnick TEOM®	1901	31.68
	Regression of	Y or X	0.0040					
	K-factor): tion coefficient:		0.0016 0.9978					
	of Calibration F	·	8 May 20)16				
Remarks	:							
					4/	/		
QC Rev	viewer: YW F	ung	Signa	ature:			Date: _11	1 May 2015

Mode Equip Sensi	ment No.: tivity Adjustment	Scale Settii	ng: _	SIBATA LD-3 A.005.09 797 CPI	И			
Opera	ator:			Mike She	k (MSKN	1)		
Standa	rd Equipment							
	e: l No.:	Cybe Serie Contr Sens 7 Ma	or: 120 / 2015	7ing Seco 0AB21989 00C14369	99803 59803	K _o : <u>12500</u>)	
Calibra	tion Result	-						
Sensi	tivity Adjustment tivity Adjustment Date		ng (After Ca	alibration		797 CF 797 CF		Count/
	(dd-mm-yy)			Temp (°C)	dition R.H. (%)	(mg/m³) Y-axis	Count ²	Minute ³ X-axis
1	08-05-15	13:15 -		27.1	77	0.04986	1994	33.23
3	08-05-15 08-05-15	14:15 - 15:15 -	15:15 16:15	27.1 27.1	77 77	0.05083	2037	33.95
4	08-05-15	16:15 -	17:15	27.1	76	0.05012 0.05241	2003 2095	33.38 34.92
Slope Correl Validit	2. Total Count 3. Count/minut ar Regression of (K-factor): lation coefficient: by of Calibration F	was logged e was calcu Y or X	by Laser [Oust Mon otal Cou	itor	shnick TEOM [®]		
QC R	eviewer: YW F	- -una	Signat	ture:	η/	Date	ə: 11 Ma	v 2015

Model Equipr	facturer/Brand: No.: ment No.: ivity Adjustment	Scale Settin	_	Laser Du SIBATA LD-3 A.005.10 753 CPI	a	itor		
Opera	tor:		_	Mike She	k (MSKI	M)		
Standa	rd Equipment							
	e: No.:	Cyber, Series Contro Senso 7 May	r: 120 2015	7ing Seco 0AB21989 00C14365	99803 99803	K _o : <u>12500</u>		
Calibra	tion Result		and t			1889		
	ivity Adjustment ivity Adjustment				,	753 CP		
Hour	Date (dd-mm-yy)	Tim	е	Amb Cond Temp (°C)	R.H.	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1	08-05-15	13:45 -	14:45	27.1	(%) 77	0.04963	1989	33.15
2	08-05-15	14:45 -	15:45	27.1	77	0.05131	2054	34.23
3	08-05-15	15:45 -	16:45	27.1	77	0.05170	2066	34.43
4	08-05-15	16:45 -	17:45	27.1	77	0.05269	2110	35.17
Slope	1. Monitoring of 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient:	was logged e was calcul Y or X	by Laser [Dust Mon	itor	ashnick TEOM [®]		
Validity	y of Calibration F	Record: _	8 May 201	16				
Remark	s:							
00.0	aviewer VW F		Signat		4/	Date	a: 11 Ma	. 0045

Model Equip	ment No.:		_	Laser Du SIBATA LD-3 A.005.11	а	tor		
Sensit	tivity Adjustment	Scale Setti	ng: _	799 CPI	И			
Opera	itor:		_	Mike She	k (MSKN	M)		
Standa	rd Equipment							
	e: No.:	Cybe Serie Cont Sens 7 Ma	or: 120 by 2015	7ing Seco 0AB21989 00C14369	99803 59803	K _o : _12500		
Calibra	tion Result						7	
	civity Adjustment civity Adjustment					799 CF 799 CF		
Hour	Date (dd-mm-yy)	Ti	me		dition R.H. (%)	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
_ 1	13-05-15	09:15	- 10:15	27.3	78	0.04635	1853	30.88
2	13-05-15		- 11:15	27.3	78	0.04788	1916	31.93
3	13-05-15		- 12:15	27.3	78	0.04943	1985	33.08
4	13-05-15	12:15	- 13:15	27.4	78	0.05176	2075	34.58
Slope	1. Monitoring of 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient:	was logged e was calc Y or X	d by Laser [Dust Mon	itor	ashnick TEOM [®]		
Validit	y of Calibration F	Record:	13 May 20	016				
Remark	ss:							
OC P/	eviewer: VM F	Euna	Signal	turo:	4/	Date	14 Ma	v 2015

Model Equipr	facturer/Brand: No.: ment No.: ivity Adjustment	Scale Settii		Laser Do SIBATA LD-3B A.005.13 643 CPI	la .	itor		
Opera	tor:		-	Mike She	ek (MSKN	M)		
Standa	rd Equipment			***				
	e: No.:	Cybe Serie Contr Sens 7 Ma	or: 120 y 2015	Ying Seco DAB21989 DOC14369	99803 59803	K _o : <u>125</u> 0	00	
Calibra	tion Result	1/20						
Sensit Sensit	ivity Adjustment ivity Adjustment	Scale Settir	ng (After Ca	alibration):		CPM CPM	
Hour	Date (dd-mm-yy)	Tir	ne		dition R.H. (%)	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1	13-05-15	09:45 -	70.70	27.3	78	0.04654	1867	31.12
2	13-05-15	10:45 -	11:45	27.3	78	0.04743	1901	31.68
3	13-05-15 13-05-15	11:45 - 12:45 -	12:45 13:45	27.3	78 78	0.05036 0.05271	2010	33.50
Note:	1. Monitoring of 2. Total Count 3. Count/minut	lata was me was logged e was calcu	easured by by Laser [Rupprec Dust Mon	ht & Pata itor	ashnick TEOM®	2112	35.20
	ar Regression of (K-factor):	Y or X	0.0015					
	ation coefficient:		0.9984					
Validity	y of Calibration F	Record:	13 May 20	016				
Remark	s:	7						
QC Re	eviewer: YW F	ung	Signat	ture:	4,	/ Da	ate: _14 Ma	y 2015

Type: Manuf	acturer/Brand:		_	Laser Du SIBATA	ıst Moni	tor		
Model			_	LD-3B				
Equip	ment No.:		-	A.005.14	а	×		
Sensit	ivity Adjustment	Scale Settir	ng: _	786 CPI	И			
Opera	tor:		_	Mike She	k (MSKN	1)		
Standa	rd Equipment				0.00			
Fauta					TEOL®			
Equip			recht & Pa			- I I)		
Venue			rport (Pui \	ring Seco	naary So	cnool)		
Model		-	s 1400AB					
Serial	No:	Contr		DAB21989				
1	N-121 - 12 - 15 - 1 +	Sens		00C14365	59803	K _o : <u>12500</u>	0 <u>2</u>	
Last C	Calibration Date*:	/ Ma	y 2015					
*Remar	ks: Recommend	ed interval t	for hardwai	re calibrat	tion is 1 y	/ear		
Calibra	tion Result						- 10 N N N N N N N N N N N N N N N N N N	
	ivity Adjustment ivity Adjustment					786 CP		
Hour	Date	Tir	ne	1	pient	Concentration ¹	Total	Count/
	(dd-mm-yy)			Cond	dition	(mg/m ³)	Count ²	Minute ³
	980.00,000.00			Temp (°C)	R.H. (%)	Y-axis		X-axis
1	13-05-15	13:15	14:15	27.4	78	0.05084	2178	36.30
2	13-05-15	14:15 -	15:15	27.5	78	0.05236	2243	37.38
3	13-05-15	15:15 -	16:15	27.5	78	0.05345	2295	38.25
4	13-05-15	16:15 -	17:15	27.4	77	0.05272	2261	37.68
Note:	Monitoring of 2. Total Count Count/minut	lata was me was logged	easured by by Laser I	Rupprecl Dust Mon	ht & Pata itor	shnick TEOM®	,	
By Linea	ar Regression of	Y or X						
	(K-factor):		0.0014					
Correl	ation coefficient:		0.9972					
Validit	y of Calibration F	Record:	13 May 2	016				
Remark	s:							
QC Re	eviewer: YW F	ung	Signa	ture:	9	Date	e: 14 May	y 2015



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 Website: www.cigismec.com E-mail: smec@cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1106 04-02

Page:

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd. NC-73

Type/Model No.: Serial/Equipment No.:

10307223 / N.004.08

Adaptors used:

Item submitted by

Curstomer:

AECOM ASIA CO., LTD.

Address of Customer: Request No :

Date of receipt:

06-Nov-2014

Date of test:

07-Nov-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	13-May-2015	SCL
Preamplifier	B&K 2673	2239857	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	17-Dec-2014	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

Ambient conditions

Temperature: Relative humidity: 22 ± 1 °C 65 ± 10 %

Air pressure:

1010 ± 10 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B 1, 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 3, 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.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

08-Nov-2014

Company Chop:

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

© Soils & Materials Engineering Co., Ltd

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



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 :

15CA0303 01-02

Page:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: **B&K** 4231

Serial/Equipment No.:

3006428

Adaptors used:

Item submitted by

Curstomer:

AECOM ASIA CO LIMITED

Address of Customer:

Request No.

Date of receipt:

03-Mar-2015

Date of test:

03-Mar-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to
Lab standard microphone	B&K 4180	2412857	13-May-2015	SCL
Preamplifier	B&K 2673	2743150	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	01-Dec-2015	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity:

60 ± 10 %

Air pressure:

1010 ± 5 hPa

Test specifications

- 1, 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.

Approved Signatory:

Date: 04-Mar-2015

Company Chop:

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.

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



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.:

14CA1106 04-01

Page

of

2

Item tested

Description:
Manufacturer:
Type/Model No.:

Sound Level Meter (Type 1)

Rion Co., Ltd.

Microphone Rion Co., Ltd.

NL-31 00320528 / N.007.03A UC-53A 90565

Serial/Equipment No.: Adaptors used:

Item submitted by

AECOM ASIA CO., LTD.

Customer Name: Address of Customer:

Request No.:

-

Date of receipt:

06-Nov-2014

Date of test:

07-Nov-2014

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: or B&K 422 Serial No. 2288444 Expiry Date: 15-Jun-2015 Traceable to: CIGISMEC

Signal generator Signal generator B&K 4226 DS 360 DS 360

33873 61227

09-Apr-2015 09-Apr-2015 CEPREI CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 65 ± 10 %

Relative humidity: Air pressure:

1010 ± 10 hPa

Test specifications

- 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%.
- 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:

Date:

08-Nov-2014

Company Chop:

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.

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



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.:

15CA0317 03

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1)

Microphone **B&K**

Manufacturer: Type/Model No.: **B&K** 2238

4188

Serial/Equipment No.: Adaptors used:

2285692

2791211

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No .: Date of receipt:

17-Mar-2015

Date of test:

18-Mar-2015

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No. 2288444

Expiry Date: 20-Jun-2015

Traceable to: CIGISMEC

Signal generator Signal generator DS 360 DS 360 33873 61227

09-Apr-2015 09-Apr-2015 **CEPREI CEPREI**

Ambient conditions

Temperature: Relative humidity: Air pressure:

21 ± 1 °C 60 ± 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.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jia

Approved Signatory:

Date:

19-Mar-2015

Company Chop:

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.

© Soils & Materials Engineering Co., Ltd.

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1514515

Sub-batch:

0

Date of Issue:

11/05/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2

Serial No.:

12A101545

Equipment No.:

W.026.35

Date of Calibration: 05 May, 2015

Date of next Calibration:

05 August, 2015

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	145.0	-1.3
6667	6610	-0.9
12890	12680	-1.6
58670	58050	-1.1
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.35	3.32	-0.03
5.75	5.71	-0.04
7.80	7.77	-0.03

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)
13.0	12.85	-0.2
26.0	25.91	-0.1
38.0	37.93	-0.1
38.0	37.93	-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 Chee, Richard

General Manage



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1514515

Sub-batch:

Date of Issue:

11/05/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.: Serial No .:

6820 V2 12A101545

Equipment No.:

W.026.35

Date of Calibration: 05 May, 2015

Date of next Calibration:

05 August, 2015

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	20.08	+0.4
30	30.06	+0.2
	Tolerance Limit (%)	±10.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	10.2	+2.0
20	20.1	+0.5
50	50.5	+1.0
100	100.8	+0.8
	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	6.96	-0.04
10.0	9.99	-0.01
	Tolerance Limit (pH Unit)	±0.20

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

Mr Fung Lim Chee, Richard

General Manager -



ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR MIKE SHEK

CLIENT:

AECOM ASIA COMPANY LIMITED

ADDRESS:

1501-10, 15/F, TOWER 1,

GRAND CENTRAL PLAZA,

138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG WORK ORDER: HK1527900

SUB-BATCH:

LABORATORY:

HONG KONG

DATE RECEIVED: DATE OF ISSUE:

04/08/2015 10/08/2015

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

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

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

Scope of Test:

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

Description:

Multifunctional Meter

Brand Name:

YSI

Model No .:

6820 V2 12A101545

Serial No .: Equipment No.:

W.026.35

Date of Calibration: 04 August, 2015

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr Fung Lim Chee, Richard

General Manager

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1527900

Sub-batch:

Date of Issue:

10/08/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No .: Serial No.:

6820 V2 12A101545

Equipment No.:

W.026.35

Date of Calibration: 04 August, 2015

Date of next Calibration:

04 November, 2015

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	144.5	-1.6
6667	6630	-0.6
12890	12740	-1.2
58670	58200	-0.8
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.40	3.45	+0.05
5.60	5.63	+0.03
7.65	7.61	-0.04
	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	11.05	+0.1
23.5	23.57	+0.1
37.5	37.46	-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.

General Manager/

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1527900

Sub-batch:

0

Date of Issue:

10/08/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.: Serial No.:

6820 V2 12A101545

Equipment No.:

W.026.35

Date of Calibration: 04 August, 2015

Date of next Calibration:

04 November, 2015

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.02	+0.2
20	20.05	+0.3
30	30.04	+0.1
	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	10.4	+4.0
20	20.5	+2.5
50	50.6	+1.2
100	100.7	+0.7
	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	4.02	+0.02
7.0	7.03	+0.03
10.0	10.00	0.00
10.0	10.00	0.00
	Tolerance Limit (pH Unit)	±0.20

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

Mr Fung Lim Chee, Richard

General Manager



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR MIKE SHEK

CLIENT:

AECOM ASIA COMPANY LIMITED

ADDRESS:

1501-10, 15/F, TOWER 1.

GRAND CENTRAL PLAZA,

138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG WORK ORDER: HK1514511

SUB-BATCH:

LABORATORY: DATE RECEIVED: HONG KONG

DATE OF ISSUE:

05/05/2015 11/05/2015

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

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

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

Scope of Test:

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

Description: Brand Name: Multifunctional Meter YSI

Model No.:

6820 V2

Serial No.:

12D100972

Equipment No.:

W.026.36 Date of Calibration: 05 May, 2015

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr Fung Lim Chee, Richard

General Manager -

Greater China & Hong Kong

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Page 1 of 3

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1514511

Sub-batch:

Date of Issue:

11/05/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2

Serial No.:

12D100972

Equipment No.:

W.026.36

Date of Calibration: 05 May, 2015

Date of next Calibration:

05 August, 2015

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	144.0	-2.0
6667	6630	-0.6
12890	12850	-0.3
58670	58520	-0.3
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.35	3.36	+0.01
5.75	5.77	+0.02
7.80	7.81	+0.01
	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)
13.0	12.95	-0.1
26.0	26.04	+0.0
38.0	37.94	-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 Thee, Richard

General Manager -

Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1514511

Sub-batch:

0

Date of Issue:

11/05/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2 12D100972

Serial No.:

W.026.36

Equipment No.:

Date of Calibration: 05 May, 2015

5

Date of next Calibration:

05 August, 2015

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.04	+0.4
20	20.02	+0.1
30	30.01	+0.0
	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	19.9	-0.5
50	50.3	+0.6
100	100.6	+0.6
	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	4.02	+0.02
7.0	6.97	-0.03
10.0	9.96	-0.04
	Tolerance Limit (pH Unit)	±0.20

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

Mr Fung Lim thee, Richard

General Manager -

Greater China & Hong Kong



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR MIKE SHEK

CLIENT:

AECOM ASIA COMPANY LIMITED

ADDRESS:

1501-10, 15/F, TOWER 1,

GRAND CENTRAL PLAZA.

138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG WORK ORDER: HK1527908

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED: DATE OF ISSUE:

04/08/2015 10/08/2015

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

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

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

Scope of Test:

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

Description:

Multifunctional Meter

Brand Name:

YSI

Model No .: Serial No.:

6820 V2 12D100972

Equipment No.:

W.026.36

Date of Calibration: 04 August, 2015

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

General Manager

Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1527908

Sub-batch:

Date of Issue:

10/08/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No :

6820 V2

Serial No.: Equipment No.: 12D100972 W.026.36

Date of Calibration: 04 August, 2015

Date of next Calibration:

04 November, 2015

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	145.0	-1.3
6667	6700	+0.5
12890	12910	+0.2
58670	58740	+0.1
	Tolerance Limit (%)	±10.0

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

2.40		
2.40		
3.40	3.34	-0.06
5.60	5.55	-0.05
7.65	7.60	-0.05

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
23.5	23.43	-0.1
37.5	37.40	-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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1527908

Sub-batch:

0

Date of Issue:

10/08/2015

Client:

AECOM ASIA COMPANY LIMITED

Description:

Multifunctional Meter

Brand Name:

YSI

Model No.:

6820 V2 12D100972

Serial No.: Equipment No.:

W.026.36

Date of Calibration: 04 August, 2015

Date of next Calibration:

04 November, 2015

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	20.03	+0.2
30	29.96	-0.1
	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	9.7	-3.0
20	19.5	-2.5
50	49.3	-1.4
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)
4.0	4.01	+0.01
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.

Mr Fung Lim Chee, Richard

General Manager -

Greater China & Hong Kong

Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for August 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Aug
2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug
Z-Aug	3-Aug	4-Aug	5-Aug	0-Aug	7-Aug	8-Aug
	Mid-Flood 8:27 Mid-Ebb 15:01		Mid-Flood 10:16 Mid-Ebb 16:31		Mid-Flood 12:46 Mid-Ebb 18:29	
9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug
	Mid-Ebb 10:08 Mid-Flood 17:20 24-hour TSP 1-hour TSP Noise Dolphin monitoring		Mid-Ebb 11:43 Mid-Flood 18:46		Mid-Flood 6:11 Mid-Ebb 13:01	24-hour TSP 1-hour TSP
16-Aug	17-Aug		19-Aug	20-Aug	21-Aug	22-Aug
	Mid-Flood 8:04 Mid-Ebb 14:39		Mid-Flood 9:18 Mid-Ebb 15:37		Mid-Flood 10:50 Mid-Ebb 16:43 24-hour TSP 1-hour TSP Noise	
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
	Mid-Ebb 8:00 Mid-Flood 15:35 Dolphin monitoring	Dolphin monitoring	Mid-Ebb 10:10 Mid-Flood 17:33	24-hour TSP 1-hour TSP Noise	Mid-Ebb 11:47 Mid-Flood 18:48	
30-Aug	31-Aug					
	Mid-Flood 7:32 Mid-Ebb 13:58					

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

Appendix F Schedule September 2015

Hong Kong Boundary Crossing Facilities – Reclamation Works Tentative Impact Monitoring Schedule for September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Sep	2-Sep	3-Sep	4-Sep	5-Sep
			Mid-Flood 9:16 Mid-Ebb 15:25 24-hour TSP 1-hour TSP		Mid-Flood 11:24 Mid-Ebb 17:04	
6-Sep	7-Sep	8-Sep	Noise 9-Sep	10-Sep	11-Sep	12-Sep
	Mid-Ebb 8:33 Mid-Flood 16:10 Dolphin monitoring	Dolphin monitoring 24-hour TSP 1-hour TSP Noise	Mid-Ebb 10:39 Mid-Flood 17:48		Mid-Ebb 12:02 Mid-Flood 18:42	
	Mid-Flood 7:19 Mid-Ebb 13:42 24-hour TSP 1-hour TSP Noise		Mid-Flood 8:30 Mid-Ebb 14:40		Mid-Flood 9:50 Mid-Ebb 15:45	19-Sep 24-hour TSP 1-hour TSP
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
	Mid-Ebb 5:47 Mid-Flood 13:35		Mid-Ebb 8:23 Mid-Flood 16:12		Mid-Ebb 10:30 Mid-Flood 17:34 24-hour TSP 1-hour TSP Noise	
27-Sep	28-Sep	29-Sep	30-Sep			
	Mid-Flood 6:35 Mid-Ebb 12:52		Mid-Flood 8:20 Mid-Ebb 14:21 Dolphin monitoring 24-hour TSP 1-hour TSP Noise			

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

Appendix F Schedule September 2015

Appendix G Impact Air Quality Monitoring Results

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

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
04-Aug-15	1st Hour	Sunny	0.04	10:10	78	374	500
04-Aug-15	2nd Hour	Sunny	0.01	11:10	74	374	500
04-Aug-15	3rd Hour	Sunny	0.21	12:10	79	374	500
10-Aug-15	1st Hour	Cloudy	0.08	09:50	81	374	500
10-Aug-15	2nd Hour	Cloudy	0.03	10:50	80	374	500
10-Aug-15	3rd Hour	Cloudy	0.01	11:50	81	374	500
15-Aug-15	1st Hour	Cloudy	0.50	13:15	72	374	500
15-Aug-15	2nd Hour	Cloudy	0.50	14:15	70	374	500
15-Aug-15	3rd Hour	Cloudy	0.03	15:15	74	374	500
21-Aug-15	1st Hour	Sunny	1.15	10:10	74	374	500
21-Aug-15	2nd Hour	Sunny	0.56	11:10	75	374	500
21-Aug-15	3rd Hour	Sunny	0.90	12:10	72	374	500
27-Aug-15	1st Hour	Sunny	0.63	10:00	79	374	500
27-Aug-15	2nd Hour	Sunny	0.85	11:00	76	374	500
27-Aug-15	3rd Hour	Sunny	0.25	12:00	79	53	500
				Average	76		
				Min	70		
				Max	81		

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

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m³) ^	Limit Level (µg/m³)
04-Aug-15	1st Hour	Sunny	0.04	10:20	76	368	500
04-Aug-15	2nd Hour	Sunny	0.01	11:20	74	368	500
04-Aug-15	3rd Hour	Sunny	0.21	12:20	75	368	500
10-Aug-15	1st Hour	Cloudy	0.03	11:23	78	368	500
10-Aug-15	2nd Hour	Cloudy	0.01	12:23	80	368	500
10-Aug-15	3rd Hour	Cloudy	0.04	13:23	81	368	500
15-Aug-15	1st Hour	Cloudy	0.50	13:25	73	368	500
15-Aug-15	2nd Hour	Cloudy	0.50	14:25	75	368	500
15-Aug-15	3rd Hour	Cloudy	0.03	15:25	76	368	500
21-Aug-15	1st Hour	Sunny	1.15	10:20	75	368	500
21-Aug-15	2nd Hour	Sunny	0.56	11:20	74	368	500
21-Aug-15	3rd Hour	Sunny	0.90	12:20	76	368	500
27-Aug-15	1st Hour	Sunny	0.63	10:10	76	368	500
27-Aug-15	2nd Hour	Sunny	0.85	11:10	77	368	500
27-Aug-15	3rd Hour	Sunny	0.25	12:10	76	368	500
				Average	76		
				N 4" -	70	1	

Max

Min Max 81

69 83

Remarks:

1-hour TSP Monitoring Results at Station AMS7A - Chu Kong Air-Sea Union Transportation Company Limited

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m³)*	Limit Level (µg/m³)
04-Aug-15	1st Hour	Sunny	0.04	10:30	83	370	500
04-Aug-15	2nd Hour	Cloudy	0.01	11:30	82	370	500
04-Aug-15	3rd Hour	Cloudy	0.21	12:30	83	370	500
10-Aug-15	1st Hour	Cloudy	0.01	12:39	79	370	500
10-Aug-15	2nd Hour	Cloudy	0.04	13:39	78	370	500
10-Aug-15	3rd Hour	Cloudy	1.11	14:39	79	370	500
15-Aug-15	1st Hour	Cloudy	0.50	13:00	69	370	500
15-Aug-15	2nd Hour	Cloudy	0.50	14:00	73	370	500
15-Aug-15	3rd Hour	Cloudy	0.03	15:00	77	370	500
21-Aug-15	1st Hour	Sunny	1.15	10:30	77	370	500
21-Aug-15	2nd Hour	Sunny	0.56	11:30	78	370	500
21-Aug-15	3rd Hour	Sunny	0.90	12:30	76	370	500
27-Aug-15	1st Hour	Sunny	0.63	09:50	75	370	500
27-Aug-15	2nd Hour	Sunny	0.85	10:50	77	370	500
27-Aug-15	3rd Hour	Sunny	0.25	11:50	79	370	500
	·			Average	78		-

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

^{*}Action Level set out at AMS7 Hong Kong SkyCity Marriott Hotel

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	(m³/min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elapse	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)
03-Aug-15	16:00	04-Aug-15	16:00	Sunny	29.4	1008.3	1.33	1.33	1.33	1912.3	2.7901	2.8390	0.0489	5184.04	5208.04	24.00	26	176	260
10-Aug-15	09:00	11-Aug-15	09:00	Sunny	28.1	1004.5	1.34	1.34	1.34	1926.7	2.7910	3.3105	0.5195	5208.04	5232.04	24.00	270	176	260
14-Aug-15	16:00	15-Aug-15	16:00	Rainy	27.0	1008.5	1.33	1.33	1.33	1912.3	2.8028	2.9275	0.1247	5232.04	5256.04	24.00	65	176	260
20-Aug-15	16:00	21-Aug-15	16:00	Sunny	30.0	1002.2	1.33	1.33	1.33	1912.3	2.7544	3.0047	0.2503	5256.04	5280.04	24.00	131	176	260
26-Aug-15	16:00	27-Aug-15	16:00	Sunny	29.0	1008.1	1.33	1.33	1.33	1912.3	2.7994	2.9006	0.1012	5280.04	5304.04	24.00	53	176	260

 Average
 109

 Min
 26

 Max
 270

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

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	$(\mu q/m^3)$	(µg/m ³)	(µg/m ³)
03-Aug-15	16:00	04-Aug-15	16:00	Sunny	29.4	1008.3	1.34	1.34	1.34	1923.8	2.7936	2.8393	0.0457	5959.38	5983.38	24.00	24	167	260
10-Aug-15	09:00	11-Aug-15	09:00	Sunny	28.1	1004.5	1.34	1.34	1.34	1923.8	2.8033	2.8502	0.0469	5983.38	6007.38	24.00	24	167	260
14-Aug-15	16:00	15-Aug-15	16:00	Rainy	27.0	1008.5	1.34	1.34	1.34	1923.8	2.8369	2.8775	0.0406	6007.38	6031.38	24.00	21	167	260
20-Aug-15	16:00	21-Aug-15	16:00	Sunny	30.0	1002.2	1.34	1.34	1.34	1923.8	2.7837	2.9208	0.1371	6031.38	6055.38	24.00	71	167	260
26-Aug-15	16:00	27-Aug-15	16:00	Sunny	29.0	1008.1	1.34	1.34	1.34	1923.8	2.7977	2.8488	0.0511	6055.38	6079.38	24.00	27	167	260
				·	·	·	·	·		·		·		·		Average	33	il .	

 Average
 33

 Min
 21

 Max
 71

24-hour TSP Monitoring Results at Station AMS7A - Chu Kong Air-Sea Union Transportation Company Limited

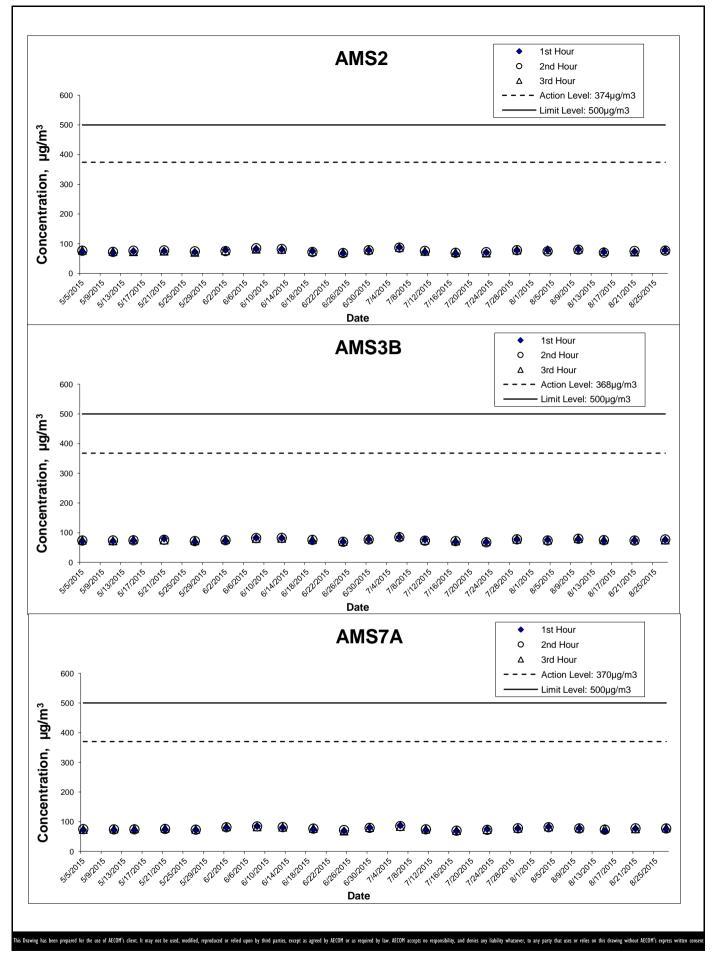
Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	$(\mu g/m^3)$	(µg/m ³)	(µg/m ³)
03-Aug-15	16:00	04-Aug-15	16:00	Sunny	29.4	1008.3	1.30	1.30	1.30	1869.1	2.7990	2.8645	0.0655	4899.92	4923.92	24.00	35	183	260
10-Aug-15	09:00	11-Aug-15	09:00	Sunny	28.1	1004.5	1.30	1.30	1.30	1869.1	2.8115	2.8652	0.0537	4923.92	4947.92	24.00	29	183	260
14-Aug-15	16:00	15-Aug-15	16:00	Rainy	27.0	1008.5	1.30	1.30	1.30	1869.1	2.8246	2.8671	0.0425	4947.92	4971.92	24.00	23	183	260
20-Aug-15	16:00	21-Aug-15	16:00	Sunny	30.0	1002.2	1.30	1.30	1.30	1869.1	2.7451	2.8984	0.1533	4971.92	4995.92	24.00	82	183	260
26-Aug-15	16:00	27-Aug-15	16:00	Sunny	29.0	1008.1	1.30	1.30	1.30	1869.1	2.8017	2.8535	0.0518	4995.92	5019.92	24.00	28	183	260

Remarks:

Average 40 Min 23 Max 82

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

^{*}Action Level set out at AMS7 Hong Kong SkyCity Marriott Hotel



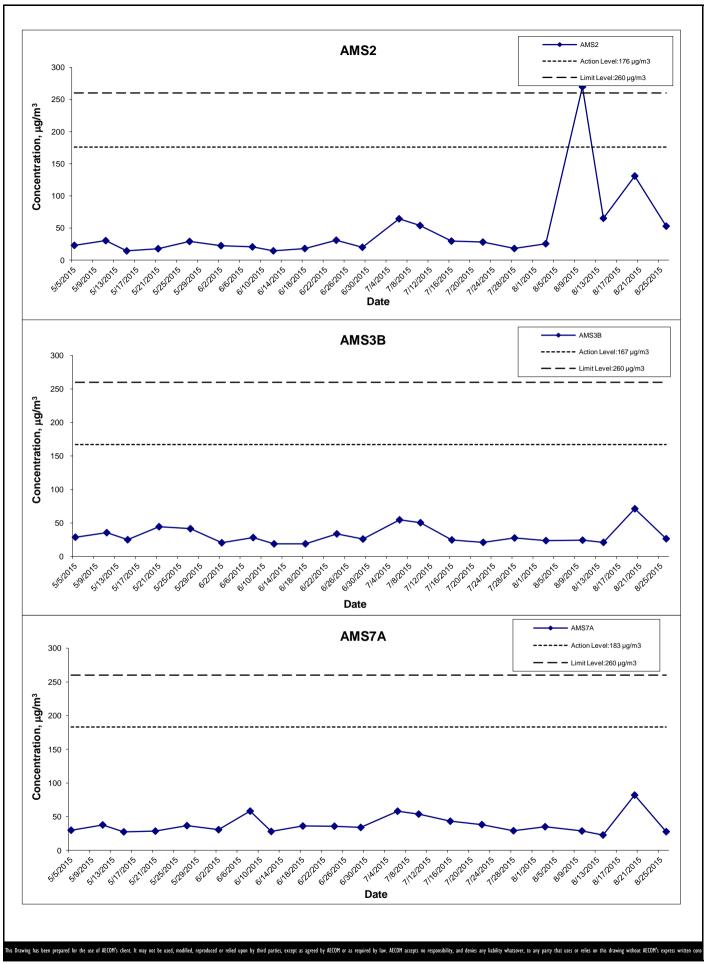
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HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS
Gra

Graphical Presentation of Impact 1-hour TSP

Monitoring Results

AECOM

Project No.: 60249820 Date: SEP 2015 Appendix G



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

- RECLAMATION WORKS Graphical Presentation of Impact 24-hour TSP

Monitoring Results

AECOM

Project No.: 60249820 Date: SEP 2015 Appendix G

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in August 2015

WIND DATA

IND DATA			
Date	Time	Averaged Wind Speed (m/s)	
8/3/2015 8/3/2015	15:01:07 16:01:07	1.55 0.03	76 105
8/3/2015	17:01:07	0.04	61
8/3/2015	18:01:07	0.04	59
8/3/2015	19:01:07	0.04	296 262
8/3/2015 8/3/2015	20:01:07 21:01:07	0.13 0.11	262
8/3/2015	22:01:07	0.10	74
8/3/2015	23:01:07	0.06	240
8/4/2015	00:01:07	0.08	240
8/4/2015	01:01:07	0.04 0.03	253 257
8/4/2015 8/4/2015	02:01:07 03:01:07	0.03	307
8/4/2015	04:01:07	0.00	248
8/4/2015	05:01:07	0.20	251
8/4/2015	06:01:07	0.01	234
8/4/2015 8/4/2015	07:01:07 08:01:07	0.06 0.01	250 26
8/4/2015	09:01:07	0.01	90
8/4/2015	10:01:07	0.04	94
8/4/2015	11:01:07	0.01	71
8/4/2015	12:01:07	0.21	33
8/4/2015 8/4/2015	13:01:07 14:01:12	0.88	280 350
8/4/2015	15:01:12	0.32	279
8/4/2015	16:01:12	1.43	110
8/10/2015	08:01:12	0.70	85
8/10/2015	09:01:12	0.55	103
8/10/2015	10:01:12	0.08	77
8/10/2015 8/10/2015	11:01:12 12:01:12	0.03 0.01	121 76
8/10/2015	12:50:10	0.04	274
8/10/2015	13:50:10	1.11	285
8/10/2015	14:50:10	0.27	45
8/10/2015	15:50:10	0.63	342
8/10/2015 8/10/2015	16:50:10 17:50:10	1.33 0.17	249 240
8/10/2015	18:50:10	0.88	302
8/10/2015	19:50:10	2.07	290
8/10/2015	20:50:10	1.09	298
8/10/2015	21:50:10	0.13	297
8/10/2015 8/10/2015	22:50:10 23:50:10	0.10 0.13	94 98
8/11/2015	00:50:10	0.06	275
8/11/2015	01:50:10	0.77	283
8/11/2015	02:50:10	0.90	335
8/11/2015	03:50:10	0.11	144
8/11/2015	04:50:10	0.01	82 260
8/11/2015 8/11/2015	05:50:10 06:50:10	0.97 0.08	239
8/11/2015	07:50:10	0.74	111
8/11/2015	08:50:10	0.27	91
8/11/2015	09:50:10	0.70	104
8/14/2015 8/14/2015	15:50:10	0.01	315 248
8/14/2015	16:50:10 17:50:10	0.80 2.31	280
8/14/2015	18:50:10	0.11	252
8/14/2015	19:50:10	0.34	265
8/14/2015	20:50:10	1.13	110
8/14/2015	21:50:10	0.34	82
8/14/2015 8/14/2015	22:50:10 23:50:10	0.55 0.73	115 95
8/15/2015	00:50:10	0.56	89
8/15/2015	01:50:10	0.06	76
8/15/2015	02:50:10	0.03	49
8/15/2015	03:50:10	0.00	57
8/15/2015 8/15/2015	04:50:10	0.76	112
8/15/2015 8/15/2015	05:50:10 06:50:10	0.35 0.10	86 103
8/15/2015	07:50:10	0.57	134
8/15/2015	08:50:10	0.97	105
8/15/2015	09:50:10	1.02	110
8/15/2015 8/15/2015	10:50:10	0.27	262 105
8/15/2015	11:50:10 12:50:10	1.58 0.08	105
8/15/2015	13:50:10	0.50	110
8/15/2015	14:50:10	0.50	82
8/15/2015	15:50:10	0.03	62
8/15/2015	16:50:10	0.04	99
8/20/2015 8/20/2015	15:50:10 16:50:10	0.00 0.01	94 309
8/20/2015 8/20/2015	17:50:10	0.01	309 52
8/20/2015	18:50:10	0.17	289
8/20/2015	19:50:10	0.31	277
8/20/2015	20:50:10	0.13	260
8/20/2015	21:50:10	0.29	66
8/20/2015 8/20/2015	22:50:10	0.24 0.10	78 242
8/20/2015 8/21/2015	23:50:10 00:50:10	0.10	242
8/21/2015	01:50:10	1.06	245
8/21/2015	02:50:10	0.66	303
8/21/2015	03:50:10	0.22	29
8/21/2015	04:50:10	0.01	328
	05:50:10	1.15	34
8/21/2015			a
	06:50:10 07:50:10	0.15 0.42	9 345
8/21/2015 8/21/2015	06:50:10	0.15	
8/21/2015 8/21/2015 8/21/2015	06:50:10 07:50:10	0.15 0.42	345

Appendix H Wind Data 1 July 2015

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in August 2015

WIND DATA

Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)			
8/21/2015	11:50:10	0.56	299			
8/21/2015	12:50:10	0.90	308			
8/21/2015	13:50:10	0.70	300			
8/21/2015	14:50:10	0.50	311			
8/21/2015	15:50:10	1.37	297			
8/21/2015	16:50:10	0.99	321			
8/26/2015	15:50:10	0.04	246			
8/26/2015	16:50:10	0.06	235			
8/26/2015	17:50:10	2.83	85			
8/26/2015	18:50:10	0.49	355			
8/26/2015	19:50:10	2.25	339			
8/26/2015	20:50:10	0.36	81			
8/26/2015	21:50:10	1.22	99			
8/26/2015	22:50:10	1.29	79			
8/26/2015	23:50:10	1.19	110			
8/27/2015	00:50:10	0.31	291			
8/27/2015	01:50:10	0.04	135			
8/27/2015	02:50:10	0.01	236			
8/27/2015	03:50:10	0.01	105			
8/27/2015	04:50:10	0.01	257			
8/27/2015	05:50:10	0.03	177			
8/27/2015	06:50:10	0.08	176			
8/27/2015	07:50:10	0.06	238			
8/27/2015	08:50:10	0.38	108			
8/27/2015	09:50:10	0.14	76			
8/27/2015	10:50:10	0.63	89			
8/27/2015	11:38:49	0.85	12			
8/27/2015	12:38:49	0.25	28			
8/27/2015	13:38:49	1.50	252			
8/27/2015	14:38:49	0.45	65			
8/27/2015	15:38:49	0.34	239			
8/27/2015	16:38:49	1.48	254			

Appendix I Impact Daytime Construction Noise Monitoring Results

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

Average

		Nois	se Level for 30	O-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)
4-Aug-15	Sunny	10:30	60	65	63	<5m/s	62.9	75	N
10-Aug-15	Cloudy	10:41	64	68	66	<5m/s	62.9	75	N
21-Aug-15	Sunny	10:40	61	66	64	<5m/s	62.9	75	N
27-Aug-15	Sunny	10:35	63	70	67	<5m/s	62.9	75	N
		Min	60	65	63				
		Mov	6.4	70	67				

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

		Nois	se Level for 30	O-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)
4-Aug-15	Sunny	11:30	56	64	61	<5m/s	66.3	70	N
10-Aug-15	Cloudy	11:27	64	68	67	<5m/s	66.3	70	N
21-Aug-15	Sunny	11:30	60	64	62	<5m/s	66.3	70	N
27-Aug-15	Sunny	11:25	63	69	66	<5m/s	66.3	70	N
		Min	56	64	61				·
		May	64	69	67				

Remark:

Average

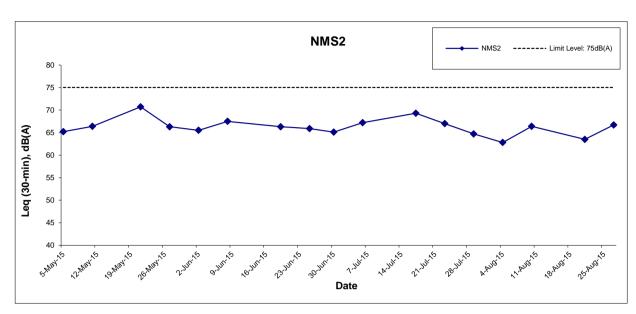
[#] A correction of +3dB(A) was made to the free field measurement.

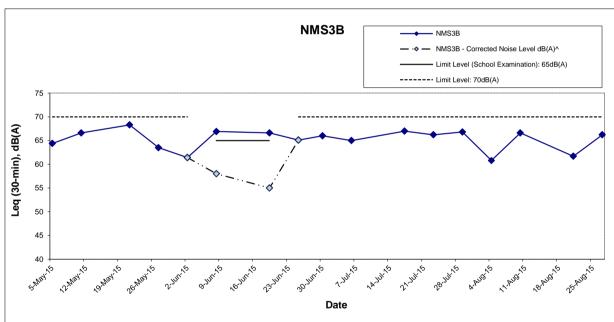
^{*} Façade measurement.

[^] 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.

>The measured noise level on 8 and 19 June 2015 at NMS3B exceeded the noise level of 65dB(A) during examination period but it is higher than the baseline level. Therefore, baseline correction was carried out and the corrected noise level which solely represent the noise level of Construction works are 58.0 dB(A) and 54.8 dB(A) respectively which are lower than the exceedance level of 65dB(A). As such the EAP was not triggered.





Remarks: Effective from July 2012, the Limit Level at NMS3A was revised to 70dB(A). Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

>The measured noise level on 8 and 19 June 2015 at NMS3B exceeded the noise level of 65dB(A) during examination period but it is higher than the baseline level. Therefore, baseline correction was carried out and the corrected noise level which solely represent the noise level of Construction works are 58.0 dB(A) and 54.8 dB(A) respectively which are lower than the exceedance level of 65dB(A). As such the EAP was not triggered.

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- RECLAMATION WORKS

Graphical Presentation of Impact Daytime Construction Noise Monitoring Results



Project No.: 60249820 Date: SEP 2015 Appendix I

Appendix J - Marine Water Quality Monitoring Results

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissolv	ed Oxygen	(mg/L)	Ti	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*
3-Aug-15	Sunny	Moderate	14:18		Surface	1.0	26.5 26.4	26.5	7.8 7.8	7.8	19.9 20.0	19.9	82.9 80.5	81.7	6.0 5.8	5.9		7.2 7.4	7.3		4.4 4.2	4.3	1
				6.6	Middle	3.3	25.3	25.1	7.8	7.8	22.3	22.5	76.6	75.3	5.6	5.5	5.7	6.8	7.0	7.4	2.4	3.3	3.5
					Bottom	5.6	24.9 24.8	24.9	7.8 7.8	7.8	22.8 24.5	24.5	73.9 76.9	79.1	5.4 5.5	5.7	5.7	7.1 7.7	7.8		3.0	2.8	1
F A 45	C	Madazata	15:46		50	0.0	24.9 26.6	20	7.8 7.9		24.5 21.5	20	81.2 78.9	10	5.9 5.6	0		7.8 2.6	1.0	<u> </u>	2.5 7.3	2.0	
5-Aug-15	Sunny	Moderate	15:46		Surface	1.0	26.5	26.6	7.9	7.9	21.5	21.5	80.1	79.5	5.7	5.7	5.7	2.4	2.5		6.3	6.8	l '
				6.3	Middle	3.2	26.4 26.4	26.4	7.9 7.9	7.9	22.1 22.0	22.1	79.3 77.0	78.2	5.6 5.5	5.6		2.5 2.4	2.5	2.5	6.4 7.6	7.0	6.7
					Bottom	5.3	26.3 25.3	25.8	7.9 7.9	7.9	22.2 23.1	22.7	79.3 74.6	77.0	5.7 5.4	5.5	5.5	2.5 2.4	2.5		5.6 7.2	6.4	
7-Aug-15	Sunny	Moderate	17:56		Surface	1.0	27.2 27.1	27.2	8.0 8.0	8.0	16.5 16.6	16.5	83.3 81.6	82.5	6.0 5.9	6.0		2.1 2.2	2.2		3.3 2.9	3.1	
				6.4	Middle	3.2	26.5	26.6	8.0	8.0	18.7	19.3	79.7	77.4	5.7	5.5	5.8	2.2	2.2	2.2	3.7	3.3	3.3
					Bottom	5.4	26.6 24.6	24.6	7.9	7.9	20.0 27.6	27.6	75.0 74.2	75.6	5.4 5.3	5.4	5.4	2.2	2.2		2.8	3.5	
10-Aug-15	Cloudy	Moderate	09:48				24.6 26.5		7.9 7.9		27.5 15.5		76.9 113.6		5.6 8.2		5.4	2.3 1.5			4.1 3.7		
10 / (0)	Oloudy	Woderate	00.40		Surface	1.0	26.8	26.7	7.9 7.9	7.9	14.7 15.1	15.1	112.9	113.3	8.3	8.2	8.2	1.5	1.5		5.2	4.5	
				6.4	Middle	3.2	26.7 26.2	26.5	7.8	7.9	16.0	15.6	111.1 111.0	111.1	8.1 8.2	8.1		1.6	1.6	1.6	4.7 4.8	4.8	4.6
					Bottom	5.4	26.3 26.2	26.2	7.8 7.8	7.8	20.4 20.0	20.2	107.9 102.5	105.2	8.0 7.4	7.7	7.7	1.6 1.6	1.6		4.2 4.6	4.4	<u> </u>
12-Aug-15	Sunny	Moderate	11:25		Surface	1.0	26.2 25.8	26.0	7.9 7.8	7.9	20.2 20.3	20.3	115.8 119.4	117.6	8.3 8.6	8.5		1.3 1.2	1.3		6.2 6.0	6.1	1
				6.3	Middle	3.2	25.4 25.2	25.3	7.7 7.7	7.7	21.5 21.2	21.3	111.1 111.2	111.2	8.0 8.0	8.0	8.3	1.5 1.4	1.5	1.5	7.5 7.2	7.4	7.1
					Bottom	5.3	25.4	25.4	7.8	7.8	23.4	23.7	107.9	106.1	7.8	7.7	7.7	1.6	1.6		8.7	7.9	
14-Aug-15	Cloudy	Moderate	12:21		Confees	1.0	25.3 25.9	25.9	7.8 8.1	8.1	24.1	20.5	104.2 98.4	98.1	7.6 7.1	7.4		1.6 0.9	4.0		7.0 5.5	0.0	
	•				Surface		25.9 25.3		8.1 8.1		20.5 24.0		97.7 91.4		7.1 6.6	7.1	6.8	1.1 3.6	1.0		6.4	6.0	
				6.7	Middle	3.4	25.2	25.3	8.1	8.1	23.9	23.9	87.8	89.6	6.3	6.4		3.8	3.7	3.3	6.9	6.8	6.2
					Bottom	5.7	25.0 25.5	25.3	8.0 8.1	8.1	24.6 24.1	24.3	90.8 97.4	94.1	6.5 7.0	6.7	6.7	5.4 5.2	5.3		5.2 6.5	5.9	
17-Aug-15	Sunny	Moderate	14:05		Surface	1.0	26.3 26.3	26.3	7.9 7.9	7.9	19.5 19.5	19.5	84.0 84.5	84.3	6.1 6.1	6.1	6.0	6.6 6.8	6.7		3.0 2.7	2.9	
				6.5	Middle	3.3	25.3 25.4	25.4	7.9 7.9	7.9	21.5 21.8	21.6	83.3 80.0	81.7	6.0 5.8	5.9	6.0	6.8 6.8	6.8	6.8	3.4 3.3	3.4	3.1
					Bottom	5.5	24.8	24.8	7.9 7.9	7.9	24.0 24.2	24.1	75.6 75.3	75.5	5.5 5.5	5.5	5.5	6.8 6.8	6.8		3.4	3.0	
19-Aug-15	Sunny	Moderate	15:05		Surface	1.0	26.9	26.7	7.9	7.9	18.2	18.5	80.9	81.1	5.8	5.9		2.6	2.7		2.2	2.6	
				6.3	Middle	3.2	26.5 26.0	25.8	7.9 7.8	7.8	18.7 19.4	19.6	81.3 77.0	76.4	5.9 5.6	5.5	5.7	2.7	3.0	3.0	3.0 2.9	2.8	2.5
				0.3			25.6 25.2		7.8 7.8		19.7 23.2		75.8 72.5		5.5 5.3			3.1 3.3		3.0	2.7		2.5
21 Aug 15	Cuppy	Madarata	16:11		Bottom	5.3	25.4	25.3	7.8	7.8	22.5	22.8	72.0	72.3	5.2	5.3	5.3	3.5	3.4	<u> </u>	2.1	2.1	
21-Aug-15	Sunny	Moderate	16:11		Surface	1.0	26.8 26.8	26.8	8.0 8.0	8.0	18.3 18.3	18.3	82.2 83.3	82.8	5.9 6.0	6.0	5.9	2.3	2.3		1.5 1.5	1.5	
				6.4	Middle	3.2	25.0 25.8	25.4	7.9 7.9	7.9	22.2 22.0	22.1	81.8 79.4	80.6	5.9 5.8	5.8		2.3 2.3	2.3	2.3	2.0 3.1	2.6	2.2
					Bottom	5.4	24.4 24.2	24.3	7.9 7.9	7.9	25.6 26.1	25.9	75.3 74.3	74.8	5.4 5.3	5.4	5.4	2.3	2.3		2.1	2.4	
<u> </u>					11		47.4		1.0		20.1		17.0	1	0.0	1		2.0			2.1	1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
24-Aug-15	Sunny	Moderate	08:24		Surface	1.0	26.7 26.6	26.7	8.1 8.2	8.1	17.8 17.9	17.8	106.1 107.9	107.0	7.7 7.8	7.8	7.5	0.9 1.0	1.0		5.0 5.0	5.0	
				6.3	Middle	3.2	25.2 26.3	25.7	7.8 8.1	8.0	24.2 22.5	23.4	100.0 98.8	99.4	7.1 7.0	7.1	7.5	1.4 1.3	1.4	1.3	4.9 5.6	5.3	5.6
					Bottom	5.3	23.7 23.5	23.6	8.0 7.6	7.8	29.9 29.6	29.8	84.3 87.0	85.7	6.1 6.2	6.1	6.1	1.3 1.5	1.4		6.8 6.2	6.5	
26-Aug-15	Sunny	Moderate	10:22		Surface	1.0	24.9 24.8	24.9	8.1 8.1	8.1	26.3 26.6	26.4	99.0 95.1	97.1	7.1 6.8	6.9	6.7	2.4 2.3	2.4		3.0 2.1	2.6	
				6.5	Middle	3.3	23.7 24.1	23.9	8.0 8.0	8.0	29.0 28.7	28.8	88.4 93.7	91.1	6.4 6.7	6.5	0.7	3.5 3.6	3.6	3.5	3.8 4.4	4.1	3.8
					Bottom	5.5	23.6 23.3	23.5	8.0 8.1	8.0	30.0 30.7	30.3	86.0 85.4	85.7	6.2 6.1	6.1	6.1	4.7 4.2	4.5		4.0 5.3	4.7	
28-Aug-15	Rainy	Moderate	12:12		Surface	1.0	25.5 25.5	25.5	8.0 8.0	8.0	26.2 26.3	26.3	101.0 99.1	100.1	7.1 7.0	7.1	7.0	3.1 3.0	3.1		4.3 3.7	4.0	
				6.4	Middle	3.2	24.6 24.6	24.6	8.0 8.0	8.0	27.6 27.6	27.6	94.0 96.7	95.4	6.7 6.8	6.8	7.0	3.2 3.2	3.2	3.2	3.5 2.8	3.2	3.6
					Bottom	5.4	24.6 24.2	24.4	8.1 8.1	8.1	29.1 29.4	29.3	92.2 89.9	91.1	6.6 6.4	6.5	6.5	3.4 3.2	3.3		3.3 4.0	3.7	
31-Aug-15	Cloudy	Moderate	13:17		Surface	1.0	24.7 24.8	24.7	7.9 7.9	7.9	27.7 27.4	27.5	76.1 77.1	76.6	5.4 5.5	5.4	5.4	8.4 8.4	8.4		7.2 6.7	7.0	
				6.2	Middle	3.1	24.5 24.6	24.6	7.9 7.9	7.9	28.1 28.0	28.0	76.0 74.7	75.4	5.4 5.3	5.3	5.4	8.6 8.5	8.6	8.6	7.0 6.6	6.8	8.1
					Bottom	5.2	24.2 24.6	24.4	7.9 7.9	7.9	29.6 28.2	28.9	74.4 73.9	74.2	5.3 5.2	5.3	5.3	8.7 8.8	8.8		10.2 10.9	10.6	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Ti	urbidity(NTI	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*
3-Aug-15	Sunny	Moderate	08:56		Surface	1.0	25.3 25.3	25.3	7.8 7.8	7.8	21.2 21.2	21.2	83.5 80.9	82.2	6.1 5.9	6.0		12.4 13.0	12.7		21.6 21.9	21.8	1
				6.6	Middle	3.3	25.3	25.3	7.8	7.8	21.2	21.2	78.0	79.8	5.7	5.8	5.9	13.1	13.4	13.4	22.5	22.6	22.4
					Bottom	5.6	25.3 25.3	25.2	7.8 7.8	7.8	21.2 21.3	22.3	81.5 78.1	78.8	5.9 5.7	5.7	5.7	13.6 13.9	14.0		22.6 22.5	22.7	ł
5-Aug-15	Sunny	Moderate	11:03				25.1 26.4		7.7 7.8		23.2 19.6		79.4 76.5		5.8 5.6		5.1	14.1 4.3			22.8 3.1		
3-Aug-13	Outliny	Woderate	11.03		Surface	1.0	26.5	26.4	7.8	7.8	19.3	19.4	77.1	76.8	5.6	5.6	5.5	4.2	4.3		4.2	3.7	1
				6.3	Middle	3.2	26.2 25.9	26.0	7.8 7.8	7.8	21.4 21.1	21.3	72.6 73.8	73.2	5.3 5.4	5.3		4.4 4.4	4.4	4.4	3.4 4.1	3.8	3.8
					Bottom	5.3	25.5 25.1	25.3	7.8 7.8	7.8	24.0 24.3	24.2	73.1 71.0	72.1	5.3 5.1	5.2	5.2	4.5 4.6	4.6		3.6 4.1	3.9	ł
7-Aug-15	Sunny	Moderate	13:13		Surface	1.0	26.6	26.6	8.0	8.0	20.7	20.6	82.1	81.4	5.9	5.8		3.5	3.4		3.0	2.8	
				6.5	Middle	3.3	26.6 25.0	25.0	7.9	7.9	20.5 25.7	25.4	80.7 79.6	79.6	5.8 5.7	5.7	5.8	3.2	3.5	3.5	2.6 3.4	3.6	3.1
				0.0			25.0 24.9		7.9 7.9	7.9	25.2 26.2		79.5 77.4		5.7 5.5		5.0	3.5 3.6		0.0	3.8 2.9	2.8	
10-Aug-15	Cloudy	Moderate	17:30		Bottom	5.5	24.8 26.9	24.8	7.9 7.9		26.4 15.4	26.3	77.8 105.3	77.6	5.6 7.5	5.6	5.6	3.5 2.5	3.6		2.6 4.0		
10-Aug-13	Cloudy	Woderate	17.50		Surface	1.0	26.8	26.9	7.9	7.9	15.1	15.3	104.2	104.8	7.4	7.4	7.1	2.3	2.4		4.7	4.4	1
				6.5	Middle	3.3	25.4 24.5	24.9	7.8 7.7	7.8	23.9 25.9	24.9	92.3 92.6	92.5	6.8 6.8	6.8		2.5 2.5	2.5	2.5	4.1 3.8	4.0	4.2
					Bottom	5.5	24.7 24.4	24.5	7.8 7.8	7.8	28.0 28.1	28.1	89.5 88.4	89.0	6.4 6.5	6.5	6.5	2.7 2.6	2.7		4.1 4.1	4.1	1
12-Aug-15	Sunny	Moderate	18:50		Surface	1.0	27.0 27.1	27.1	7.9 7.9	7.9	18.7 16.8	17.8	121.2 124.1	122.7	8.8 9.0	8.9		2.0 1.9	2.0		3.2 2.8	3.0	
				6.4	Middle	3.2	26.6	26.4	7.8	7.9	19.1	19.2	115.2	115.8	8.3	8.4	8.7	2.3	2.3	2.3	2.8	3.4	3.6
					Bottom	5.4	26.2 25.5	26.3	7.9 7.8	7.8	19.4 22.7	22.0	116.3 109.0	109.8	8.4 7.9	7.9	7.9	2.2 2.5	2.5		3.9 4.1	4.3	
14-Aug-15	Cloudy	Moderate	06:14				27.0 25.6		7.9 8.1		21.3 21.1		110.5 89.0		8.0 6.5		7.0	2.4			4.5 4.0		
	5.522,				Surface	1.0	25.7 25.0	25.6	8.1 8.1	8.1	21.5 24.1	21.3	92.1 86.9	90.6	6.7	6.6	6.5	2.3	2.5		5.6	4.8	
				6.6	Middle	3.3	25.0	25.0	8.1	8.1	24.4	24.3	88.5	87.7	6.4	6.3		4.0	4.2	3.9	5.6	5.7	5.5
					Bottom	5.6	24.9 25.2	25.0	8.0 8.0	8.0	24.9 24.7	24.8	87.7 90.1	88.9	6.3 6.5	6.4	6.4	4.7 5.0	4.9		6.0 6.2	6.1	
17-Aug-15	Sunny	Moderate	08:19		Surface	1.0	24.7 24.7	24.7	7.9 7.9	7.9	23.9 23.8	23.9	70.6 72.9	71.8	5.1 5.3	5.2		10.4 10.5	10.5		16.7 17.6	17.2	
				6.5	Middle	3.3	24.7	24.7	7.9 7.9	7.9	24.1	24.1	70.3	70.8	5.1	5.1	5.2	10.5	10.4	10.4	19.2	18.8	18.5
					Bottom	5.5	24.7	24.7	7.9	7.9	24.0 24.2	24.2	71.2 71.1	70.7	5.2 5.2	5.1	5.1	10.3 10.2	10.3		18.3 19.7	19.4	l
19-Aug-15	Sunny	Moderate	09:43				24.7 25.1		7.9 7.9	7.9	24.2	23.2	70.2 83.8	83.5	5.1 6.1			10.3			19.1		
					Surface	1.0	25.2 23.7	25.1	7.9 7.9		23.3 27.1		83.1 78.6		6.0 5.7	6.0	5.9	2.3	2.3		2.5 2.5	2.4	ł
				6.4	Middle	3.2	23.8	23.7	7.8	7.9	26.2	26.7	79.3	79.0	5.7	5.7		2.4	2.5	2.5	2.6	2.6	2.8
					Bottom	5.4	23.5 23.6	23.6	7.8 7.8	7.8	28.9 28.8	28.8	74.5 75.8	75.2	5.4 5.6	5.5	5.5	2.8 2.7	2.8		3.4 3.5	3.5	<u> </u>
21-Aug-15	Sunny	Moderate	11:19		Surface	1.0	26.1 26.1	26.1	7.9 8.0	7.9	20.3 20.7	20.5	85.3 83.8	84.6	6.1 6.1	6.1	<i>-</i>	3.5 3.5	3.5		2.2 2.8	2.5	
				6.6	Middle	3.3	24.8 24.3	24.6	7.9 7.9	7.9	25.6 26.6	26.1	77.8 77.5	77.7	5.6 5.6	5.6	5.9	3.4 3.4	3.4	3.5	2.2 3.5	2.9	3.0
					Bottom	5.6	24.3	24.1	7.9	7.9	26.2	26.8	77.6	74.3	5.6	5.4	5.4	3.5	3.5		3.4	3.6	
		<u> </u>	<u> </u>	<u> </u>			24.0	1	7.9		27.3	,	71.0		5.1			3.5			3.7		

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling	g	Temperati	ture (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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*
24-Aug-15	Sunny	Moderate	15:00		Surface		26.6 26.8	26.7	8.2 8.2	8.2	22.1 22.2	22.2	116.0 108.7	112.4	8.2 7.7	8.0	7.3	2.3 2.4	2.4		3.8 4.4	4.1	
				6.4	Middle	3.2	23.8 23.7	23.8	8.0 8.0	8.0	27.7 28.6	28.2	92.8 87.6	90.2	6.7 6.3	6.5	7.3	3.5 3.3	3.4	3.4	3.6 3.5	3.6	4.1
					Bottom	5.4	23.3 23.0	23.1	8.0 8.0	8.0	30.7 30.8	30.7	99.7 93.5	96.6	7.1 6.7	6.9	6.9	4.5 4.4	4.5		4.5 4.6	4.6	
26-Aug-15	Sunny	Moderate	17:00		Surface	1.0	25.1 25.2	25.2	8.2 8.2	8.2	26.1 26.0	26.0	105.3 108.6	107.0	7.5 7.7	7.6	7.3	3.0 2.8	2.9		4.9 4.7	4.8	
				6.5	Middle		24.2 24.3	24.3	8.0 8.1	8.0	27.8 28.4	28.1	101.7 95.8	98.8	7.2 6.8	7.0	7.5	3.4 3.6	3.5	4.0	5.9 6.1	6.0	5.9
					Bottom	55	24.2 23.6	23.9	8.1 8.0	8.0	28.8 29.7	29.3	82.1 78.9	80.5	5.9 5.6	5.8	5.8	5.6 5.5	5.6		6.6 7.4	7.0	
28-Aug-15	Sunny	Moderate	18:07		Surface		25.6 25.7	25.7	8.0 8.0	8.0	26.2 26.0	26.1	100.0 100.1	100.1	7.0 7.1	7.0	7.0	6.6 6.3	6.5		6.4 5.3	5.9	
				6.4	Middle	3.2	25.3 25.3	25.3	8.0 8.1	8.1	27.1 27.0	27.1	97.9 97.9	97.9	6.9 6.9	6.9	7.0	6.4 6.5	6.5	6.5	9.3 8.8	9.1	8.3
					Bottom	5.4	25.6 25.2	25.4	8.1 8.1	8.1	26.7 27.3	27.0	97.7 96.4	97.1	6.9 6.8	6.8	6.8	6.5 6.3	6.4		10.0 9.8	9.9	
31-Aug-15	Cloudy	Moderate	08:04		Surface	1()	24.4 24.3	24.4	7.9 7.9	7.9	28.9 28.9	28.9	78.4 78.0	78.2	5.6 5.5	5.5	5.5	9.6 9.5	9.6		10.4 9.3	9.9	
				6.5	Middle		24.3 24.1	24.2	7.9 7.9	7.9	29.2 29.1	29.1	76.4 77.1	76.8	5.4 5.5	5.4	5.5	9.8 9.8	9.8	9.8	13.3 12.8	13.1	12.5
					Bottom	5.5	24.1 24.2	24.2	7.9 7.9	7.9	30.1 29.3	29.7	74.7 74.4	74.6	5.3 5.3	5.3	5.3	9.9 10.0	10.0		15.0 13.8	14.4	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Ti	urbidity(NTI	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*
3-Aug-15	Sunny	Moderate	13:59		Surface	1.0	26.5 26.4	26.5	7.8 7.9	7.9	19.9 20.0	20.0	83.4 82.2	82.8	6.0 5.9	6.0		6.6 6.5	6.6		3.3 3.6	3.5	
				16.8	Middle	8.4	24.8	24.8	7.8	7.8	24.6	24.6	72.8	72.6	5.3	5.2	5.6	7.9	8.2	8.0	3.3	3.3	3.4
					Dottom	15.8	24.8 24.8	24.8	7.8 7.8	7.8	24.6 24.7	24.7	72.4 74.5	75.0	5.2 5.4	5.4	5.4	8.5 8.8	9.1		3.2 4.3	3.5	
5-Aug-15	Cuppy	Madarata	15:25		Bottom	15.6	24.8 26.5		7.8 7.9		24.7 21.4		75.5 75.2		5.5 5.4		5.4	9.3 1.9	9.1		2.7 6.9		
5-Aug-15	Sunny	Moderate	15.25		Surface	1.0	26.3	26.4	7.9	7.9	21.6	21.5	75.6	75.4	5.4	5.4	5.4	1.9	1.9		8.2	7.6]
				16.2	Middle	8.1	25.2 25.6	25.4	7.9 7.9	7.9	24.5 25.3	24.9	73.4 74.7	74.1	5.2 5.3	5.3		2.8 2.7	2.8	2.5	8.3 7.6	8.0	7.0
					Bottom	15.2	24.7 24.6	24.6	7.9 7.9	7.9	26.9 27.1	27.0	71.7 70.4	71.1	5.1 5.0	5.1	5.1	2.8 2.8	2.8		4.9 5.9	5.4	
7-Aug-15	Sunny	Moderate	17:31		Surface	1.0	27.3	27.3	8.0	8.0	16.6	16.6	80.8	79.9	5.8	5.8		2.2	2.2		2.5	2.5	
				16.9	Middle	8.5	27.3 24.4	24.4	8.0 7.9	7.9	16.6 28.0	28.0	79.0 74.7	75.5	5.7 5.3	5.4	5.6	2.2	2.5	2.4	2.5	2.6	2.8
				10.0			24.4		7.9 7.8		28.0 28.6		76.3 68.2		5.4 4.9			2.5 2.5		2.7	3.6		2.0
40 000 45	Classales	Madazata	40:40		Bottom	15.9	24.3	24.3	7.9	7.8	28.3	28.4	69.5	68.9	5.0	4.9	4.9	2.5	2.5		3.0	3.3	
10-Aug-15	Cloudy	Moderate	10:10		Surface	1.0	26.6 26.5	26.6	7.9 7.9	7.9	14.6 16.4	15.5	103.6 105.9	104.8	7.5 7.8	7.6	7.3	1.4 1.5	1.5		4.6 5.9	5.3	
				15.8	Middle	7.9	26.2 26.0	26.1	7.8 7.8	7.8	18.2 19.8	19.0	95.4 94.1	94.8	6.9 7.0	6.9		1.7 1.8	1.8	1.7	5.9 5.6	5.8	5.8
					Bottom	14.8	24.5 26.4	25.4	7.7 7.8	7.8	24.9 21.3	23.1	84.6 83.6	84.1	6.2 6.1	6.1	6.1	1.9 1.8	1.9		6.7 5.6	6.2	
12-Aug-15	Sunny	Moderate	11:47		Surface	1.0	25.8 26.0	25.9	7.9 7.9	7.9	20.7 20.6	20.6	115.5 114.5	115.0	8.3 8.3	8.3		1.6 1.5	1.6		7.1 7.4	7.3	
				15.4	Middle	7.7	25.4	25.5	7.8	7.8	22.2	22.0	106.2	108.1	7.7	7.8	8.1	1.6	1.7	1.7	7.3	7.2	7.3
					Bottom	14.4	25.5 25.2	25.4	7.8 7.8	7.8	21.8 23.3	23.2	110.0 98.1	97.3	8.0 7.1	7.0	7.0	1.7 1.9	1.9		7.0 8.3	7.5	
14-Aug-15	Cloudy	Moderate	12:00				25.5 25.7		7.9 8.1		23.1		96.5 88.1		7.0 6.4		7.0	1.8 4.6			6.6		
147/409 10	Oloudy	Woderate	12.00		Surface	1.0	25.7	25.7	8.1	8.1	20.7	20.7	88.9	88.5	6.5	6.4	6.3	4.5	4.6		6.7	6.5	
				16.5	Middle	8.3	25.0 25.0	25.0	8.1 8.0	8.1	24.8 24.7	24.8	85.9 83.4	84.7	6.2 6.0	6.1		5.3 5.6	5.5	5.5	6.2 5.4	5.8	6.4
					Bottom	15.5	25.2 25.0	25.1	8.1 8.0	8.1	24.7 24.8	24.7	91.1 84.4	87.8	6.5 6.1	6.3	6.3	6.5 6.2	6.4		7.0 6.7	6.9	i
17-Aug-15	Sunny	Moderate	13:41		Surface	1.0	26.1 26.5	26.3	7.9 8.0	8.0	19.7 19.3	19.5	79.1 82.4	80.8	5.7 5.9	5.8		6.5 6.5	6.5		4.0 3.6	3.8	
				16.4	Middle	8.2	24.7	24.7	7.9	7.9	24.3	24.2	72.6	73.2	5.3	5.3	5.6	6.6	6.7	6.7	4.2	4.2	3.9
					Bottom	15.4	24.7 24.7	24.7	7.9 7.9	7.9	24.2 24.3	24.3	73.7 70.8	72.1	5.4 5.1	5.2	5.2	6.7 6.9	6.9		4.1	3.7	1
19-Aug-15	Sunny	Moderate	14:42				24.7 26.1		7.9 7.9		24.2 18.3		73.3 78.2		5.3 5.7		0.2	6.8 2.7			3.1 2.7		
107149 10	Cumy	moderate	2		Surface	1.0	25.9 25.5	26.0	7.9 7.8	7.9	19.4 19.9	18.9	78.3 77.9	78.3	5.7	5.7	5.7	2.8	2.8		2.8	2.8	1
				15.0	Middle	7.5	25.3	25.4	7.8	7.8	22.6	21.3	78.0	78.0	5.6	5.6		2.9	3.0	3.1	2.1	2.5	2.7
					Bottom	14.0	25.3 25.3	25.3	7.8 7.8	7.8	22.6 23.0	22.8	75.1 75.8	75.5	5.4 5.6	5.5	5.5	3.4 3.3	3.4		2.6 2.7	2.7	
21-Aug-15	Sunny	Moderate	15:49		Surface	1.0	26.5 26.8	26.7	8.0 8.0	8.0	18.3 18.3	18.3	75.6 80.0	77.8	5.5 5.8	5.6		2.5 2.4	2.5		2.6 2.4	2.5	
				16.1	Middle	8.1	24.4	24.3	7.9	7.9	26.3	26.3	75.2	74.5	5.4	5.4	5.5	2.4	2.4	2.4	2.3	2.7	2.6
					Bottom	15.1	24.1 24.0	23.9	7.9 7.9	7.9	26.2 26.7	26.8	73.8 70.1	70.5	5.4 5.1	5.1	5.1	2.4	2.4		3.0 2.5	2.7	
			1	l	Dottoill	10.1	23.9	20.0	7.9	1.5	27.0	20.0	70.9	70.5	5.1	5.1	5.1	2.4	2.7		2.9	2.1	<u>l</u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	pl	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	08:43		Surface 1.	0 26.7 26.1	26.4	8.1 8.0	8.1	20.0 19.0	19.5	94.3 90.3	92.3	6.8 6.5	6.6	6.3	1.9 2.0	2.0		4.9 4.8	4.9	
				16.5	Middle 8.	3 23.1 23.0	23.0	7.8 7.9	7.9	31.1 31.4	31.2	82.2 82.6	82.4	5.9 5.9	5.9	0.3	4.3 4.2	4.3	3.8	4.1 5.4	4.8	4.7
					Bottom 15	.5 23.1 23.0	23.0	7.7 7.9	7.8	31.1 31.5	31.3	80.5 78.7	79.6	5.9 5.7	5.8	5.8	4.9 5.0	5.0		4.6 4.4	4.5	
26-Aug-15	Sunny	Moderate	10:40		Surface 1.	0 25.0 25.1	25.0	8.1 8.1	8.1	26.6 25.8	26.2	93.1 90.8	92.0	6.6 6.5	6.6	6.4	4.4 4.1	4.3		4.3 6.0	5.2	
				16.3	Middle 8.	2 23.2 23.2	23.2	8.0 8.0	8.0	31.1 30.8	31.0	86.3 87.0	86.7	6.2 6.2	6.2	0.4	5.2 5.0	5.1	5.5	4.8 4.4	4.6	4.9
					Bottom 15	.3 23.5 23.6	23.6	8.0 8.0	8.0	30.9 30.4	30.6	75.3 78.9	77.1	5.4 5.6	5.5	5.5	7.1 6.9	7.0		5.1 4.6	4.9	
28-Aug-15	Rainy	Moderate	12:39		Surface 1.	0 25.6 25.7	25.6	8.0 8.0	8.0	26.2 26.0	26.1	96.0 95.6	95.8	6.8 6.7	6.8	6.6	3.6 3.4	3.5		2.6 2.7	2.7	
				16.5	Middle 8.	3 24.1 24.2	24.2	8.0 8.0	8.0	29.4 29.3	29.3	90.5 90.6	90.6	6.4 6.4	6.4	0.0	3.5 3.5	3.5	3.5	2.4 3.7	3.1	3.0
					Bottom 15	.5 24.1 24.1	24.1	8.1 8.1	8.1	29.5 29.4	29.5	87.7 83.5	85.6	6.2 5.9	6.1	6.1	3.5 3.5	3.5		3.0 3.2	3.1	
31-Aug-15	Cloudy	Moderate	12:56		Surface 1.	0 24.7 24.6	24.6	7.9 7.9	7.9	27.7 28.0	27.8	79.1 78.5	78.8	5.6 5.6	5.6	5.5	7.8 7.8	7.8		10.9 11.1	11.0	
				15.6	Middle 7.	24.6	24.5	7.9 7.9	7.9	28.2 28.1	28.2	76.7 76.8	76.8	5.4 5.4	5.4	5.5	8.1 8.0	8.1	8.1	11.8 11.6	11.7	11.3
					Bottom 14	.6 24.6 24.6	24.6	7.9 7.9	7.9	28.2 28.2	28.2	74.9 75.0	75.0	5.3 5.3	5.3	5.3	8.4 8.3	8.4		11.8 10.7	11.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
3-Aug-15	Sunny	Moderate	09:15		Surface	1.0	25.3 25.3	25.3	7.8 7.8	7.8	21.2 21.2	21.2	75.8 76.0	75.9	5.5 5.5	5.5		9.8 10.3	10.1		17.3 18.2	17.8	
				16.7	Middle	8.4	25.1 25.0	25.1	7.8 7.8	7.8	21.7 22.1	21.9	74.2 74.0	74.1	5.4 5.4	5.4	5.5	11.8 12.1	12.0	12.1	17.6 17.7	17.7	19.2
					Bottom	15.7	24.8	24.9	7.7	7.8	23.6	23.4	75.8	75.3	5.5	5.5	5.5	14.1	14.3		22.4	22.2	
5-Aug-15	Sunny	Moderate	11:17				24.9 26.3		7.8 7.9		23.2 19.7		74.8 74.2		5.4 5.4			14.5 5.1	1		22.0 4.8		
0 7.ug 10	Caimiy	moderate			Surface	1.0	26.4 25.2	26.4	7.8 7.8	7.8	19.6 24.4	19.6	76.6 71.4	75.4	5.6 5.2	5.5	5.4	5.4	5.3		5.2	5.0	
				16.1	Middle	8.1	25.3	25.2	7.8	7.8	24.1	24.3	75.2	73.3	5.4	5.3		5.6	5.5	5.4	7.2	6.3	4.7
					Bottom	15.1	25.4 25.1	25.2	7.8 7.8	7.8	24.3 24.5	24.4	71.0 70.4	70.7	5.1 5.1	5.1	5.1	5.5 5.5	5.5		3.1 2.5	2.8	
7-Aug-15	Sunny	Moderate	13:36		Surface	1.0	26.8 26.3	26.6	8.0 8.0	8.0	19.2 21.4	20.3	80.6 81.3	81.0	5.8 5.8	5.8	<i>-</i>	3.2 3.2	3.2		2.6 3.5	3.1	
				17.2	Middle	8.6	24.7 24.7	24.7	7.9 7.9	7.9	26.2 25.9	26.0	76.3 76.5	76.4	5.5 5.5	5.5	5.7	3.3 3.3	3.3	3.2	3.7 2.9	3.3	3.2
					Bottom	16.2	24.5	24.4	7.9 7.9	7.9	27.2	27.2	71.6 71.1	71.4	5.1	5.1	5.1	3.3 3.1	3.2		3.3 2.9	3.1	İ
10-Aug-15	Cloudy	Moderate	17:06		Surface	1.0	24.4 26.9	27.1	8.0	8.0	27.3 13.5	13.5	102.0	104.9	5.1 7.5	7.6		2.3	2.3		3.4	3.4	
				16.0	Middle	8.0	27.2 26.5	26.0	7.9 7.8	7.8	13.6 20.2	20.9	107.7 95.0	96.3	7.7	7.1	7.4	2.2	2.5	2.5	3.4 4.1	4.0	3.6
				10.0		15.0	25.6 24.6	24.5	7.8 7.8	7.8	21.6 27.2	27.4	97.5 86.7	84.0	7.2 6.2	6.0	6.0	2.5 2.7	2.7	2.5	3.8	3.4	3.0
12-Aug-15	Sunny	Moderate	18:29		Bottom		24.3 27.1		7.7 7.9		27.7 17.7		81.3 118.0		5.9 8.5		6.0	2.6 1.8			3.3 5.6		<u> </u>
12 / lug 10	Culliny	Wioderate	10.23		Surface	1.0	27.0	27.1	7.9	7.9	18.5	18.1	118.7	118.4	8.6	8.6	8.4	1.9	1.9		5.0	5.3	
				15.5	Middle	7.8	26.5 27.0	26.7	7.9 7.9	7.9	18.8 18.8	18.8	112.6 112.3	112.5	8.1 8.1	8.1		2.0	2.1	2.1	4.8 5.9	5.4	5.4
					Bottom	14.5	26.1 25.9	26.0	7.8 7.9	7.9	20.0 22.1	21.1	109.1 107.2	108.2	7.9 7.8	7.8	7.8	2.4 2.3	2.4		5.4 5.5	5.5	
14-Aug-15	Cloudy	Moderate	06:36		Surface	1.0	25.6 25.6	25.6	8.1 8.1	8.1	21.6 21.6	21.6	90.9 90.9	90.9	6.6 6.6	6.6		2.1 2.2	2.2		4.1 3.6	3.9	
				16.7	Middle	8.4	24.9 24.9	24.9	8.1 8.0	8.1	25.2 25.1	25.2	85.2 83.8	84.5	6.1 6.0	6.1	6.4	5.8 5.8	5.8	4.6	6.1 5.9	6.0	5.6
					Bottom	15.7	24.8 24.9	24.9	8.0	8.0	25.4 25.4	25.4	85.4 87.1	86.3	6.1 6.3	6.2	6.2	5.5 5.8	5.7		7.2 6.6	6.9	
17-Aug-15	Sunny	Moderate	08:41		Surface	1.0	24.7	24.7	7.9	7.9	23.9	23.9	75.2	75.3	5.5	5.5		5.5	5.5		20.9	20.9	
				16.7	Middle	8.4	24.7 24.6	24.7	7.9 7.9	7.9	23.9 24.3	24.3	75.4 75.4	75.0	5.5 5.5	5.4	5.5	5.5 5.5	5.6	5.5	20.8 26.1	26.4	24.6
				10.7		15.7	24.7 24.6		7.9 7.9	7.9	24.3 24.5		74.6 74.7		5.4 5.4	5.4	5.4	5.6 5.5		0.0	26.6 26.1	26.5	24.0
19-Aug-15	Sunny	Moderate	10:04		Bottom		24.6 24.3	24.6	7.9 7.9		24.7 24.6	24.6	75.6 78.3	75.2	5.5 5.7		5.4	5.5 1.7	5.5		26.9 2.1		
19-Aug-13	Odiniy	Woderate	10.04		Surface	1.0	25.0	24.7	7.9	7.9	23.4	24.0	77.0	77.7	5.6	5.7	5.6	1.8	1.8		2.1	2.1	.
				15.3	Middle	7.7	23.5 24.3	23.9	7.8 7.8	7.8	27.1 25.0	26.1	76.2 74.9	75.6	5.6 5.4	5.5		1.9 2.0	2.0	2.0	2.5 2.2	2.4	2.6
					Bottom	14.3	24.3 23.5	23.9	7.8 7.8	7.8	26.8 29.0	27.9	72.2 72.4	72.3	5.2 5.2	5.2	5.2	2.3 2.2	2.3		2.8 3.9	3.4	
21-Aug-15	Sunny	Moderate	11:41		Surface	1.0	26.2 26.3	26.3	7.9 8.0	8.0	19.8 19.5	19.6	84.2 81.3	82.8	6.1 5.9	6.0		3.2 3.2	3.2		2.0 2.1	2.1	
				16.1	Middle	8.1	24.0 24.1	24.0	7.9 7.9	7.9	27.3 26.9	27.1	70.0 75.9	73.0	5.1 5.5	5.3	5.7	3.2 3.3	3.3	3.3	2.2	2.5	2.4
					Bottom	15.1	24.0	24.0	7.9	7.9	27.2	27.3	68.6	67.1	5.0	4.8	4.8	3.3	3.3		2.5	2.5	[
							23.9	_	7.9		27.3	_	65.6	_	4.7	_		3.2			2.4	_	<u> </u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	14:41		Surface	1.0	26.4 26.3	26.4	8.2 8.2	8.2	22.6 23.0	22.8	97.7 97.2	97.5	6.9 6.9	6.9	6.3	3.6 3.7	3.7		2.7 3.3	3.0	
				16.7	Middle	8.4	23.3 23.2	23.3	7.9 8.0	8.0	29.4 29.7	29.6	76.0 82.5	79.3	5.5 5.9	5.7	0.3	6.5 6.3	6.4	6.0	3.4 2.7	3.1	3.0
					Bottom 1	15.7	22.7 22.8	22.7	8.0 7.9	7.9	31.5 31.1	31.3	76.2 72.3	74.3	5.5 5.2	5.4	5.4	7.8 8.2	8.0		3.4 2.2	2.8	
26-Aug-15	Sunny	Moderate	16:43		Surface	1.0	25.0 25.1	25.0	8.1 8.1	8.1	26.3 26.4	26.4	94.5 91.4	93.0	6.7 6.5	6.6	6.3	5.0 5.1	5.1		6.9 6.1	6.5	
				16.0	Middle	8.0	23.4 23.7	23.5	8.0 8.0	8.0	30.3 29.7	30.0	85.0 83.2	84.1	6.1 6.0	6.0	0.5	7.2 7.4	7.3	6.8	7.3 7.0	7.2	6.6
					Bottom 1	15.0	23.4 23.4	23.4	8.0 8.0	8.0	30.7 30.3	30.5	75.4 75.5	75.5	5.4 5.4	5.4	5.4	8.0 7.8	7.9		6.2 5.7	6.0	
28-Aug-15	Sunny	Moderate	17:47		Surface	1.0	25.8 26.0	25.9	8.0 8.0	8.0	26.3 25.9	26.1	95.9 99.6	97.8	6.7 7.0	6.9	6.8	6.5 6.5	6.5		4.2 4.8	4.5	
				16.9	Middle	8.5	25.3 25.2	25.2	8.0 8.0	8.0	27.2 27.3	27.2	96.0 92.5	94.3	6.8 6.5	6.6	0.0	6.5 6.6	6.6	6.5	4.7 4.2	4.5	4.7
					Bottom 1	15.9	25.2 25.1	25.2	8.1 8.1	8.1	27.3 27.4	27.3	94.4 90.8	92.6	6.7 6.4	6.5	6.5	6.4 6.6	6.5		5.6 4.5	5.1	
31-Aug-15	Cloudy	Moderate	08:26		Surface	1.0	24.4 24.1	24.2	7.9 7.9	7.9	28.8 29.5	29.1	76.3 76.6	76.5	5.4 5.4	5.4	5.4	9.4 9.3	9.4		12.6 13.4	13.0	
				15.9	Middle	8.0	23.8 24.0	23.9	7.9 7.9	7.9	30.0 29.1	29.6	74.4 75.1	74.8	5.3 5.3	5.3	5.4	9.5 9.6	9.6	9.6	13.9 13.5	13.7	13.7
					Bottom 1	14.9	23.7 24.2	24.0	7.9 7.9	7.9	31.2 30.8	31.0	73.9 74.4	74.2	5.2 5.3	5.3	5.3	9.7 9.8	9.8		14.2 14.5	14.4	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
3-Aug-15	Sunny	Moderate	15:06		Surface	1.0	27.4 27.6	27.5	8.0 8.0	8.0	25.9 26.0	25.9	79.1 79.1	79.1	5.5 5.5	5.5		11.1 11.2	11.2		6.1 5.9	6.0	1
				12.2	Middle	6.1	27.1 26.7	26.9	8.0 8.0	8.0	28.7 28.9	28.8	78.4 76.1	77.3	5.4 5.2	5.3	5.4	11.5 11.5	11.5	11.4	5.8 5.0	5.4	6.0
					Bottom	11.2	25.6 26.0	25.8	8.0 8.0	8.0	33.9 30.6	32.3	74.1 77.3	75.7	5.1 5.3	5.2	5.2	11.5	11.5		6.0 7.0	6.5	
5-Aug-15	Sunny	Moderate	16:36		Surface	1.0	28.9	28.8	8.1	8.1	22.8	22.9	79.8	79.3	5.4	5.4		3.5	3.5		4.1	4.4	
				13.1	Middle	6.6	28.8 28.5	28.4	8.1 8.1	8.1	23.1 23.7	23.7	78.7 77.2	76.3	5.3 5.3	5.2	5.3	3.4	3.4	3.5	4.6 5.2	4.8	4.5
					Bottom	12.1	28.4 28.6	28.4	8.0	8.0	23.8 23.8	23.9	75.4 78.1	76.8	5.1 5.3	5.2	5.2	3.6 3.5	3.6		4.3	4.3	
7-Aug-15	Sunny	Moderate	18:39		Surface	1.0	28.3 28.9	28.9	8.0 7.9	7.9	24.1	23.4	75.5 96.8	97.7	5.2 6.5	6.6	0.2	3.7	3.4		4.1	4.4	
				40.0			28.9 26.9		7.9 7.9		23.4 27.7		98.5 93.3		6.6		6.5	3.4		0.7	4.1 5.0		4.0
				12.6	Middle	6.3	27.0 26.9	27.0	7.9 7.9	7.9	27.3 30.7	27.5	95.6 91.8	94.5	6.5 6.2	6.4		3.6 3.8	3.7	3.7	4.6 6.0	4.8	4.9
10-Aug-15	Cloudy	Moderate	09:57		Bottom	11.6	27.1	27.0	7.9 8.4	7.9	30.3 19.8	30.5	91.2	91.5	6.2 7.5	6.2	6.2	4.0	3.9		5.1	5.6	
10-Aug-13	Cloudy	Moderate	09.57		Surface	1.0	28.6	28.7	8.4	8.4	20.4	20.1	107.9 108.5 81.5	108.2	7.5 7.5	7.5	6.5	4.5 4.4	4.5		2.3	2.5	
				12.2	Middle	6.1	26.3 26.8	26.6	8.2 8.2	8.2	30.9	31.4	80.7	81.1	5.4	5.5		4.6	4.5	4.5	2.9	2.8	2.6
					Bottom	11.2	24.4 24.4	24.4	8.2 8.2	8.2	36.7 36.7	36.7	77.4 80.0	78.7	5.3 5.4	5.3	5.3	4.5 4.5	4.5		3.0 2.2	2.6	
12-Aug-15	Sunny	Moderate	11:22		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	24.8 24.8	24.8	107.7 109.7	108.7	7.6 7.7	7.6	7.3	6.4 5.8	6.1		3.1 4.7	3.9	
				13.5	Middle	6.8	25.7 25.7	25.7	8.1 8.2	8.2	32.1 32.3	32.2	98.1 98.8	98.5	6.9 6.9	6.9		8.7 8.2	8.5	7.4	4.4 4.9	4.7	4.8
					Bottom	12.5	25.7 25.7	25.7	8.1 8.2	8.1	32.4 32.3	32.4	103.3 105.1	104.2	7.2 7.3	7.3	7.3	7.8 7.4	7.6		5.3 6.3	5.8	
14-Aug-15	Cloudy	Moderate	13:01		Surface	1.0	27.6 27.8	27.7	8.3 8.3	8.3	24.1 24.2	24.1	85.6 89.4	87.5	5.9 6.1	6.0		6.5 6.8	6.7		5.2 6.2	5.7	
				12.0	Middle	6.0	26.9 26.5	26.7	8.2 8.2	8.2	28.4 28.8	28.6	83.0 78.7	80.9	5.6 5.3	5.5	5.8	6.6	6.7	6.7	5.7 6.1	5.9	5.7
					Bottom	11.0	25.7 25.8	25.7	8.2 8.2	8.2	33.0 32.7	32.9	79.1 76.8	78.0	5.4 5.3	5.3	5.3	6.8 6.8	6.8		5.6 5.2	5.4	
17-Aug-15	Sunny	Moderate	14:29		Surface	1.0	27.9	27.7	8.1	8.1	23.9	24.2	82.2 80.9	81.6	5.6	5.6		5.4	5.7		5.9	6.1	
				13.2	Middle	6.6	27.6 26.4	26.4	8.1 8.1	8.1	24.6	28.0	79.7	78.9	5.6	5.4	5.5	5.9 9.0	9.0	7.6	6.2 5.7	5.8	6.3
					Bottom	12.2	26.5 26.1	26.2	8.1 8.1	8.1	28.0 29.4	28.9	78.0 72.9	73.7	5.4 5.0	5.1	5.1	9.0 8.3	8.1		5.9 7.9	7.0	
19-Aug-15	Sunny	Moderate	15:10		Surface	1.0	26.3 28.5	28.5	8.1 8.1	8.1	28.4	24.2	74.5 84.6	85.0	5.1 5.8	5.8		7.9	3.1		6.0 3.4	3.6	
				13.3	Middle	6.7	28.6 25.6	26.0	8.1 8.1	8.1	24.2 30.9	30.9	85.3 77.4	77.2	5.8 5.4	5.3	5.6	3.1	3.1	3.1	3.7	3.2	3.3
				13.3			26.4 25.2		8.1 8.1		30.9 33.5		77.0 76.7		5.3 5.3		5.0	3.0 3.2		ا . ۱	3.3 2.2		ა.ა
21-Aug-15	Sunny	Moderate	16:34		Bottom	12.3	25.3 28.3	25.2	8.1 8.2	8.1	33.4 26.8	33.4	76.4 89.8	76.6	5.2 6.0	5.3	5.3	3.1 2.1	3.2		3.9 2.2	3.1	
217.0g 10	Curry	Moderate	10.04		Surface	1.0	28.0	28.2	8.2 8.2	8.2	26.9 32.4	26.8	85.2 76.5	87.5	5.7 5.2	5.9	5.6	2.2	2.2		2.9	2.6	
				13.3	Middle	6.7	25.8	26.0	8.1	8.2	33.7	33.1	76.6	76.6	5.2	5.2		2.0	2.0	2.1	2.7	2.5	2.8
					Bottom	12.3	25.5 25.9	25.7	8.1 8.2	8.1	34.3 33.7	34.0	81.7 77.2	79.5	5.5 5.2	5.4	5.4	2.1 2.3	2.2		4.2 2.3	3.3	1

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	07:48		Surface 1.	0 27.8 27.9	27.9	8.4 8.4	8.4	27.2 26.6	26.9	114.6 118.8	116.7	7.7 8.0	7.9	6.7	2.3 2.4	2.4		2.6 4.2	3.4	
				12.4	Middle 6.	2 26.0 25.9	26.0	8.3 8.2	8.3	32.5 32.5	32.5	79.4 80.4	79.9	5.4 5.4	5.4	0.7	3.4 3.5	3.5	3.3	3.6 3.1	3.4	3.4
					Bottom 11	.4 24.5 24.6	24.6	8.2 8.2	8.2	35.6 35.6	35.6	78.4 74.1	76.3	5.3 5.0	5.2	5.2	3.9 3.9	3.9		3.4 3.2	3.3	
26-Aug-15	Sunny	Moderate	09:39		Surface 1.	0 27.0 26.7	26.8	8.3 8.3	8.3	30.2 30.8	30.5	92.3 89.9	91.1	6.2 6.1	6.1	5.9	2.6 2.8	2.7		3.3 3.3	3.3	
				12.4	Middle 6.	2 24.5 24.6	24.6	8.2 8.1	8.2	35.4 35.2	35.3	83.2 81.1	82.2	5.7 5.6	5.6	5.9	2.8 2.8	2.8	2.8	3.2 3.8	3.5	3.8
					Bottom 11	.4 24.4 24.6	24.5	8.1 8.2	8.2	35.6 35.4	35.5	76.3 73.8	75.1	5.2 5.0	5.1	5.1	2.8 3.0	2.9		4.2 5.1	4.7	
28-Aug-15	Rainy	Moderate	11:13		Surface 1.	0 26.8 26.8	26.8	8.2 8.2	8.2	30.0 30.1	30.1	89.8 87.9	88.9	6.1 6.0	6.0	5.8	7.5 7.4	7.5		6.5 6.4	6.5	
				12.8	Middle 6.	4 25.8 25.9	25.9	8.2 8.2	8.2	33.1 33.2	33.1	77.5 84.5	81.0	5.3 5.7	5.5	3.0	7.7 7.5	7.6	7.6	5.2 6.1	5.7	6.5
					Bottom 11	.8 25.8 26.1	25.9	8.3 8.3	8.3	33.3 33.1	33.2	76.5 79.4	78.0	5.2 5.4	5.3	5.3	7.7 7.7	7.7		7.1 7.4	7.3	
31-Aug-15	Cloudy	Moderate	13:32		Surface 1.	0 26.4 26.5	26.5	8.1 8.1	8.1	32.2 31.9	32.1	78.1 78.7	78.4	5.3 5.4	5.3	5.3	9.0 8.9	9.0		11.5 11.5	11.5	
				13.5	Middle 6.	26.2	26.3	8.1 8.1	8.1	32.5 32.8	32.6	77.8 76.7	77.3	5.3 5.2	5.2	5.5	9.0 9.0	9.0	9.0	10.2 10.1	10.2	11.0
					Bottom 12	.5 25.8 26.3	26.0	8.1 8.1	8.1	34.2 33.8	34.0	75.9 77.5	76.7	5.2 5.3	5.2	5.2	9.1 9.0	9.1		11.1 11.4	11.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
3-Aug-15	Sunny	Moderate	08:11		Surface	1.0	27.2 27.3	27.2	8.0 8.0	8.0	25.5 25.2	25.3	72.2 76.3	74.3	5.0 5.3	5.1	F.4	10.2 10.1	10.2		3.1 3.1	3.1	
				12.8	Middle	6.4	25.5 25.4	25.5	8.0 8.0	8.0	33.0 33.9	33.4	75.0 71.8	73.4	5.2 5.0	5.1	5.1	10.5 10.5	10.5	10.4	4.2 3.8	4.0	3.6
					Bottom	11.8	25.5 25.4	25.4	8.0 8.0	8.0	34.1 34.3	34.2	70.6 72.4	71.5	4.9 5.0	4.9	4.9	10.6 10.2	10.4		4.3 3.1	3.7	
5-Aug-15	Sunny	Moderate	09:39		Surface	1.0	27.7	27.6	8.0	8.0	24.0	24.2	76.7	77.0	5.4	5.4		3.3	3.4		6.3	5.7	
				13.5	Middle	6.8	27.5 25.9	25.9	8.0	8.0	24.5 30.9	31.0	77.2 75.0	74.9	5.4 5.2	5.2	5.3	3.4	3.6	3.5	5.0 5.0	5.5	5.7
					Bottom	12.5	25.9 25.7	25.9	8.0	8.0	31.1 31.7	31.2	74.8 71.1	71.3	5.1 4.9	4.9	4.9	3.5 3.6	3.5		5.9 6.7	5.9	
7-Aug-15	Sunny	Moderate	12:20		Surface	1.0	26.1 28.5	28.5	7.8	7.8	30.7 22.5	22.6	71.5 74.7	74.9	4.9 5.0	5.1		3.4 2.6	2.7		5.1 5.4	4.9	
				40.4			28.5 26.1		7.8 7.8		22.7 29.1		75.0 75.9		5.1 5.1		5.1	2.7 3.2		0.4	4.3 4.9		5.0
				13.1	Middle	6.6	26.1 26.0	26.1	7.8 7.8	7.8	29.0 32.8	29.0	74.8 74.7	75.4	5.1 5.2	5.1		3.0 3.5	3.1	3.1	4.6 5.4	4.8	5.0
10-Aug-15	Cloudy	Moderate	17:26		Bottom	12.1	26.1 28.9	26.0	7.8 8.6	7.8	32.3 19.6	32.5	75.9 124.9	75.3	5.1 8.6	5.1	5.1	3.4 4.9	3.5		5.2	5.3	
10-Aug-13	Cloudy	Moderate	17.20		Surface	1.0	28.9	28.9	8.5	8.5	19.7	19.7	123.7	124.3	8.6	8.6	7.5	4.9	4.9		4.6	4.6	
				12.6	Middle	6.3	26.0 26.2	26.1	8.2 8.2	8.2	32.8 32.5	32.6	93.8 93.4	93.6	6.3 6.3	6.3		4.8	4.8	4.9	4.8	4.8	4.8
					Bottom	11.6	25.0 25.0	25.0	8.2 8.2	8.2	35.8 35.8	35.8	76.4 79.3	77.9	5.2 5.3	5.2	5.2	4.9 4.8	4.9		4.9 4.8	4.9	
12-Aug-15	Sunny	Moderate	18:39		Surface	1.0	29.3 28.9	29.1	8.1 8.2	8.1	23.9 24.7	24.3	119.1 110.7	114.9	8.2 7.7	8.0	7.0	4.5 5.1	4.8		5.8 5.7	5.8	
				13.4	Middle	6.7	26.1 26.1	26.1	8.0 8.0	8.0	32.2 32.2	32.2	84.5 88.4	86.5	5.9 6.2	6.0	7.0	6.1 5.7	5.9	5.4	4.8 5.8	5.3	5.9
					Bottom	12.4	26.0 26.1	26.0	8.0 7.9	7.9	32.6 32.5	32.6	92.3 99.2	95.8	6.4 6.9	6.6	6.6	5.8 5.3	5.6		6.3 6.7	6.5	
14-Aug-15	Cloudy	Moderate	05:37		Surface	1.0	27.0 26.7	26.8	8.3 8.2	8.2	26.7 28.4	27.6	79.0 79.3	79.2	5.4 5.4	5.4		4.2 4.0	4.1		3.9 4.5	4.2	
				12.7	Middle	6.4	25.1 25.2	25.1	8.2 8.2	8.2	33.2 33.0	33.1	74.1 73.8	74.0	5.1 5.0	5.0	5.2	4.1 4.1	4.1	4.1	3.1 3.4	3.3	3.4
					Bottom	11.7	25.1	25.1	8.2	8.2	33.1	33.1	72.5	71.7	5.0	4.9	4.9	4.1	4.1		2.8	2.8	
17-Aug-15	Sunny	Moderate	07:17		Surface	1.0	25.1 27.0	26.9	8.2 8.1	8.1	33.2 26.5	26.5	70.9 80.0	79.0	4.8 5.5	5.4		4.1 5.9	6.0		7.6	7.4	
				13.6	Middle	6.8	26.8 25.2	25.2	8.1 8.1	8.1	26.5 32.9	32.9	78.0 75.2	77.2	5.3 5.2	5.3	5.4	7.6	7.4	6.6	7.1 9.4	8.9	9.4
					Bottom	12.6	25.1 25.3	25.3	8.1 8.1	8.1	32.9 32.9	32.9	79.1 74.0	73.8	5.4 5.1	5.0	5.0	7.2 6.7	6.5	0.0	8.3 11.6	12.0	
19-Aug-15	Sunny	Moderate	08:30				25.2 28.1		8.1 8.1		33.0 23.2		73.6 85.0		5.0 5.9		3.0	6.3 2.6			12.4 3.2		
	,				Surface	1.0	28.1 27.3	28.1	8.1 8.1	8.1	23.4 26.3	23.3	84.7 79.2	84.9	5.8 5.5	5.9	5.6	2.7	2.7		2.7 3.2	3.0	
				13.4	Middle	6.7	26.7 25.6	27.0	8.1 8.0	8.1	27.9 32.5	27.1	75.0 78.1	77.1	5.2 5.3	5.3		2.7	2.7	2.8	2.8	3.0	3.1
04.4	2	Malant	40.00		Bottom	12.4	25.3	25.5	8.0	8.0	32.6	32.5	73.9	76.0	5.1	5.2	5.2	3.0	3.0		3.9	3.4	<u> </u>
21-Aug-15	Sunny	Moderate	10:08		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	26.1 26.3	26.2	85.2 83.5	84.4	5.7 5.7	5.7	5.6	2.0 1.9	2.0		-	-	
				13.4	Middle	6.7	25.9 25.7	25.8	8.1 8.1	8.1	31.0 32.1	31.6	79.7 79.3	79.5	5.4 5.4	5.4		3.3 3.5	3.4	2.9	-	-	1.5
					Bottom	12.4	25.8 25.7	25.7	8.1 8.1	8.1	32.4 32.8	32.6	72.2 71.3	71.8	4.9 4.9	4.9	4.9	3.0 3.3	3.2		1.4 1.5	1.5	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling) T	emperature (°0	C)	рН	Salin	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Susper	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth (m) \	alue Avera	ige Valu	e Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
24-Aug-15	Sunny	Moderate	15:34		Surface 1		29.3 29.1	2 8.7 8.6	8.7	25.6 26.1	25.8	138.0 135.0	136.5	9.2 9.0	9.1	7.6	3.9 3.8	3.9		4.0 4.6	4.3	
				12.6	Middle 6	63	24.4 24.2 24.	3 8.2 8.2	8.2	35.6 35.8	35.7	87.4 87.9	87.7	6.0 6.0	6.0	7.0	6.3 6.4	6.4	5.6	6.0 6.5	6.3	5.8
					Bottom 1		23.7 23.8	8.2 8.2	8.2	36.9 36.7	36.8	73.6 77.5	75.6	5.0 5.3	5.2	5.2	6.4 6.4	6.4		7.4 6.1	6.8	
26-Aug-15	Sunny	Moderate	17:41		Surface 1		26.8 26.7	7 8.3 8.3	8.3	31.1 31.3	31.2	85.7 86.2	86.0	5.8 5.8	5.8	5.7	5.5 5.5	5.5		6.2 6.8	6.5	
				12.8	Middle 6		24.9 25.2	0 8.2 8.2	8.2	35.3 34.9	35.1	81.6 80.3	81.0	5.6 5.4	5.5	0.7	5.7 5.7	5.7	5.6	8.7 8.0	8.4	7.8
					Bottom 1	181	24.8 24.9 24.	8.2 8.2	8.2	35.7 35.5	35.6	78.5 75.4	77.0	5.3 5.1	5.2	5.2	5.7 5.7	5.7		8.1 8.6	8.4	
28-Aug-15	Sunny	Moderate	18:24		Surface 1		26.9 26.5	7 8.2 8.2	8.2	30.1 30.5	30.3	89.2 78.1	83.7	6.1 5.3	5.7	5.6	5.8 5.7	5.8		2.3 2.6	2.5	
				13.3	Middle 6	h /	26.1 26.0 26.	0 8.2 8.2	8.2	32.3 32.7	32.5	84.3 75.1	79.7	5.7 5.1	5.4	3.0	5.8 5.7	5.8	5.9	4.0 5.1	4.6	4.0
					Bottom 1		25.9 26.0 25.	9 8.2 8.2	8.2	33.1 32.7	32.9	74.9 78.6	76.8	5.1 5.3	5.2	5.2	5.9 6.0	6.0		4.5 5.1	4.8	
31-Aug-15	Cloudy	Moderate	06:47		Surface 1	1 ()	26.3 26.4 26.	4 8.1 8.1	8.1	30.3 30.4	30.3	77.8 77.8	77.8	5.3 5.3	5.3	5.3	6.2 6.3	6.3		6.3 6.6	6.5	
				13.6	Middle 6		25.6 25.5	6 8.1 8.1	8.1	33.2 33.4	33.3	75.9 75.8	75.9	5.2 5.2	5.2	5.5	6.3 6.3	6.3	6.4	9.0 9.1	9.1	8.1
					Bottom 1		25.5 25.5	5 8.1 8.1	8.1	33.6 33.4	33.5	75.2 75.4	75.3	5.1 5.2	5.2	5.2	6.5 6.5	6.5		8.5 9.1	8.8	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Ti	urbidity(NTI	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*
3-Aug-15	Sunny	Moderate	15:32		Surface	1.0	26.4 25.6	26.0	7.8 7.9	7.8	20.8 21.8	21.3	88.4 92.4	90.4	6.3 6.6	6.5		2.3 2.0	2.2		2.7 2.8	2.8	
				9.6	Middle	4.8	24.3	24.3	7.8	7.9	26.2	26.4	83.8	84.2	6.0	6.1	6.3	3.2	3.4	3.0	3.5	3.3	3.5
							24.3 24.1	24.2	7.9 7.8	7.9	26.6 27.3		84.5 76.1		6.1 5.5		5.5	3.6			3.1 4.8	4.4	
5.0 45	0	Madagata	17.00		Bottom	8.6	24.3	24.2	7.9	7.9	27.0	27.2	77.9	77.0	5.6	5.5	5.5	3.5	3.4		4.0	4.4	
5-Aug-15	Sunny	Moderate	17:02		Surface	1.0	26.8 26.8	26.8	7.9 7.9	7.9	20.7 20.9	20.8	82.8 81.0	81.9	5.9 5.8	5.8	5.8	2.2 2.2	2.2		6.1 6.8	6.5	
				10.1	Middle	5.1	26.3 26.5	26.4	7.9 7.9	7.9	21.4 21.1	21.3	77.5 81.0	79.3	5.6 5.8	5.7	3.0	2.5 2.4	2.5	2.4	7.2 6.0	6.6	6.8
					Bottom	9.1	25.6	26.1	7.9	7.9	23.5	23.1	77.6	79.8	5.6	5.7	5.7	2.5	2.6		7.8	7.4	
7-Aug-15	Sunny	Moderate	19:07		Surface	1.0	26.6 26.7	26.8	7.9 8.1	8.1	22.7 22.6	22.5	81.9 103.4	105.2	5.8 7.3	7.4		2.6	2.2		7.0 4.7	4.1	
							26.9 25.6		8.2 8.0		22.5 25.2		106.9 85.6		7.5 6.1		6.8	2.2			3.4		
				10.3	Middle	5.2	25.6	25.6	8.0	8.0	25.7	25.4	86.2	85.9	6.1	6.1		2.2	2.2	2.2	2.7	3.2	3.6
					Bottom	9.3	23.8 23.9	23.8	8.0 8.0	8.0	29.9 29.4	29.6	85.6 82.7	84.2	6.1 5.9	6.0	6.0	2.2 2.2	2.2		3.2 3.6	3.4	
10-Aug-15	Cloudy	Moderate	08:42		Surface	1.0	26.4 26.3	26.3	7.9 7.8	7.9	19.0 18.1	18.6	87.7 95.4	91.6	6.4 6.9	6.7		1.7 1.9	1.8		6.3 7.0	6.7	
				9.7	Middle	4.9	26.2	25.7	7.8	7.8	19.9	20.4	82.1	82.9	5.9	6.0	6.4	1.8	2.0	2.1	6.2	6.0	6.0
				0			25.2 23.7		7.7 7.7	_	20.8 30.1		83.6 79.2		6.1 5.7			2.2			5.8 5.6		. 0.0
10.0 15	0	Madagata	40.04		Bottom	8.7	23.7	23.7	7.7	7.7	29.8	30.0	77.5	78.4	5.7	5.7	5.7	2.5	2.5		4.9	5.3	
12-Aug-15	Sunny	Moderate	10:21		Surface	1.0	25.9 25.0	25.4	7.9 7.9	7.9	20.8 21.6	21.2	108.3 110.0	109.2	7.9 8.0	7.9	7.7	2.3 2.2	2.3		6.8 6.4	6.6	
				9.7	Middle	4.9	24.3 24.4	24.4	7.8 7.8	7.8	26.3 24.1	25.2	101.5 103.8	102.7	7.3 7.4	7.4	7.7	2.6 2.4	2.5	2.5	5.7 6.8	6.3	6.4
					Bottom	8.7	24.3	24.4	7.8	7.8	26.4	26.4	98.1	98.8	7.1	7.2	7.2	2.7	2.7		6.7	6.4	
14-Aug-15	Cloudy	Moderate	13:33		Surface	1.0	24.4 25.8	25.7	7.9 8.1	8.1	26.4 22.3	22.3	99.5 89.7	91.1	7.3 6.4	6.6		2.7	3.0		6.1 7.7	7.6	
							25.6 24.5		8.1 8.1		22.4 27.0		92.5 85.9		6.7 6.2		6.4	3.1 6.9			7.4 7.4		
				9.9	Middle	5.0	24.2	24.4	8.1	8.1	27.8	27.4	83.9	84.9	6.0	6.1		7.0	7.0	5.4	6.0	6.7	7.3
					Bottom	8.9	24.1 24.2	24.2	8.0 8.0	8.0	28.3 27.8	28.1	87.1 90.8	89.0	6.2 6.5	6.4	6.4	5.8 6.5	6.2		7.7 7.7	7.7	
17-Aug-15	Sunny	Moderate	15:17		Surface	1.0	25.7 25.8	25.7	8.0 8.0	8.0	21.1 20.8	21.0	75.9 76.6	76.3	5.5 5.6	5.5		2.2 2.2	2.2		2.6 2.9	2.8	
				9.9	Middle	5.0	24.3	24.6	7.9	7.9	25.3	25.1	72.1	72.2	5.2	5.2	5.4	2.6	2.6	2.5	4.2	4.4	3.8
							25.0 23.9		7.9 7.9		25.0 27.0		72.2 70.1		5.2 5.0		5.0	2.5 2.5			4.5 3.4		-
10.0 15	0	Madagata	10.10		Bottom	8.9	23.8	23.8	7.9	7.9	27.1	27.0	68.1	69.1	4.9	5.0	5.0	2.6	2.6		4.8	4.1	
19-Aug-15	Sunny	Moderate	16:16		Surface	1.0	26.7 26.7	26.7	7.9 7.9	7.9	17.6 18.1	17.8	82.7 82.1	82.4	6.0 6.0	6.0	5.9	2.0 1.9	2.0		1.9 1.8	1.9	
				9.7	Middle	4.9	25.8 25.8	25.8	7.9 7.9	7.9	19.7 19.8	19.8	80.5 80.7	80.6	5.9 5.8	5.8	0.0	2.3 2.3	2.3	2.3	2.0 2.3	2.2	2.3
					Bottom	8.7	25.5	25.5	7.8	7.8	22.6	22.7	77.9	78.6	5.6	5.7	5.7	2.6	2.6		2.6	2.7	
21-Aug-15	Sunny	Moderate	17:22		Surface	1.0	25.5 25.6	25.8	7.8 8.0	8.0	22.7 23.8	23.7	79.3 83.5	84.7	5.7 6.0	6.1		2.5	2.5		2.8 1.4	1.5	
							26.0 24.8		8.0 8.0		23.5 26.6		85.9 84.1		6.1 6.1		6.1	2.4			1.6 2.1		
				10.0	Middle	5.0	24.5	24.7	8.0	8.0	27.3	27.0	82.7	83.4	5.9	6.0		2.6	2.5	2.5	2.7	2.4	2.2
					Bottom	9.0	22.5 22.5	22.5	8.0 7.9	8.0	31.6 31.4	31.5	79.2 77.4	78.3	5.6 5.5	5.5	5.5	2.6 2.6	2.6		2.7 2.7	2.7	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	07:05		Surface	1.0	25.8 24.8	25.3	8.2 8.2	8.2	23.9 24.6	24.2	116.5 110.1	113.3	8.3 8.0	8.1	7.9	1.3 1.4	1.4		4.4 4.9	4.7	
				10.0	Middle	5.0	24.2 24.2	24.2	8.1 8.1	8.1	27.6 27.8	27.7	107.6 108.7	108.2	7.7 7.8	7.7	7.5	1.6 1.7	1.7	1.5	4.3 5.3	4.8	4.6
					Bottom	9.0	24.2 24.1	24.1	8.1 8.1	8.1	27.9 27.8	27.8	111.3 109.6	110.5	8.0 7.9	7.9	7.9	1.3 1.4	1.4		4.4 4.2	4.3	
26-Aug-15	Sunny	Moderate	09:02		Surface	1.0	24.4 24.4	24.4	8.1 8.1	8.1	29.7 29.8	29.7	93.3 93.8	93.6	6.6 6.6	6.6	6.4	2.4 2.2	2.3		5.0 5.7	5.4	
				10.3	Middle	5.2	23.0 22.4	22.7	8.0 8.0	8.0	32.9 34.1	33.5	88.0 83.3	85.7	6.3 5.9	6.1	0.4	2.6 2.8	2.7	2.6	6.1 6.9	6.5	6.2
					Bottom	9.3	23.1 22.4	22.8	8.0 8.0	8.0	32.8 34.1	33.5	86.2 87.9	87.1	6.1 6.3	6.2	6.2	2.8 2.8	2.8		6.6 6.8	6.7	
28-Aug-15	Rainy	Moderate	10:56		Surface	1.0	24.5 24.2	24.3	7.9 7.9	7.9	28.5 29.4	29.0	82.6 80.2	81.4	5.9 5.7	5.8	5.8	2.3 2.3	2.3		2.8 3.6	3.2	
				10.2	Middle	5.1	23.6 24.1	23.9	7.9 7.9	7.9	30.3 29.9	30.1	77.5 81.9	79.7	5.5 5.8	5.7	3.0	2.3 2.3	2.3	2.3	2.8 4.0	3.4	3.4
					Bottom	9.2	23.3 23.7	23.5	7.9 7.9	7.9	32.2 31.6	31.9	78.0 80.4	79.2	5.5 5.7	5.6	5.6	2.3 2.3	2.3		3.8 3.3	3.6	
31-Aug-15	Cloudy	Moderate	14:41		Surface	1.0	24.3 24.1	24.2	8.0 8.0	8.0	28.7 28.6	28.7	77.7 77.4	77.6	5.5 5.5	5.5	5.5	4.8 4.9	4.9		11.2 11.4	11.3	
				9.4	Middle	4.7	23.7 23.6	23.7	8.0 7.9	8.0	31.0 31.0	31.0	76.0 76.0	76.0	5.4 5.4	5.4	5.5	5.1 5.0	5.1	5.1	11.3 11.5	11.4	11.3
					Bottom	8.4	23.8 23.7	23.8	7.9 8.0	8.0	31.4 31.2	31.3	74.2 74.3	74.3	5.3 5.3	5.3	5.3	5.2 5.3	5.3		11.4 11.0	11.2	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ţ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	07:41		Surface	1.0	25.5 25.5	25.5	7.7 7.7	7.7	20.1 20.4	20.2	76.1 75.6	75.9	5.6 5.5	5.5		2.2 2.3	2.3		7.6 7.9	7.8	
				9.8	Middle	4.9	25.3 25.3	25.3	7.7	7.7	21.8 21.6	21.7	75.0 75.8	74.9	5.5 5.4	5.4	5.5	2.6 2.6	2.6	2.4	7.8 7.1	7.5	7.5
					Bottom	8.8	25.4 25.3	25.4	7.7	7.7	21.6 21.9	21.7	77.5	76.6	5.6 5.5	5.6	5.6	2.0	2.2		6.9 7.4	7.2	
5-Aug-15	Sunny	Moderate	09:46		0 (26.4		7.8		20.4	22.4	75.6 73.5		5.3			1.6			4.5		
011119	,				Surface	1.0	26.4 26.0	26.4	7.8 7.8	7.8	20.3 21.0	20.4	73.9 73.0	73.7	5.3 5.3	5.3	5.3	1.7	1.7		4.3 3.3	4.4	-
				10.4	Middle	5.2	26.0 25.9	26.0	7.8 7.8	7.8	21.0 21.5	21.0	71.2 72.2	72.1	5.1 5.2	5.2		1.6	1.7	1.7	4.9	4.1	4.1
					Bottom	9.4	25.7	25.8	7.8	7.8	22.0	21.8	71.1	71.7	5.1	5.2	5.2	1.6	1.6		4.4	3.9	
7-Aug-15	Sunny	Moderate	12:01		Surface	1.0	26.0 26.2	26.1	7.9 8.0	8.0	22.0 21.9	22.0	71.5 73.2	72.4	5.1 5.2	5.1	5.1	1.4 1.4	1.4		3.1 2.4	2.8	
				11.2	Middle	5.6	24.1 24.2	24.2	7.9 7.9	7.9	28.0 28.1	28.0	70.5 72.7	71.6	5.1 5.2	5.1	0.1	1.5 1.4	1.5	1.5	3.1 2.8	3.0	3.0
					Bottom	10.2	23.9 24.1	24.0	7.9 7.9	7.9	29.7 29.3	29.5	70.1 71.0	70.6	5.0 5.1	5.0	5.0	1.5 1.5	1.5		3.9 2.5	3.2	
10-Aug-15	Cloudy	Moderate	18:40		Surface	1.0	25.7 25.6	25.7	7.9 7.9	7.9	19.6 20.3	20.0	123.5 118.9	121.2	8.8 8.5	8.6		1.8 2.0	1.9		5.2 6.4	5.8	
				9.7	Middle	4.9	24.9	24.8	7.9	7.9	23.3	23.2	112.1	112.4	8.1	8.2	8.4	2.4	2.4	2.3	5.7	5.7	5.7
					Bottom	8.7	24.7 24.9	24.9	7.8 7.8	7.9	23.1 27.1	26.6	112.7 108.8	110.0	8.2 7.9	8.0	8.0	2.3	2.6		5.6 5.7	5.7	
12-Aug-15	Sunny	Moderate	19:51		Surface	1.0	24.9 25.6	25.6	7.9 7.9	7.9	26.1 23.9	23.9	111.1 120.6	119.9	8.1 8.7	8.7		2.6 3.6	3.6		5.7 8.8	8.5	
				0.7			25.7 25.5		7.9 7.9		23.9 24.3		119.2 112.4		8.6 8.1		8.5	3.6			8.2 9.3		
				9.7	Middle	4.9	25.2 25.7	25.4	7.9 7.9	7.9	24.2 24.3	24.3	114.8 109.5	113.6	8.3 7.9	8.2		3.8	3.8	3.8	9.9 9.1	9.6	9.3
			0.5.00		Bottom	8.7	25.4	25.5	7.9	7.9	26.3	25.3	108.4	109.0	7.8	7.9	7.9	3.8	3.9		10.2	9.7	
14-Aug-15	Cloudy	Moderate	05:00		Surface	1.0	24.0 24.0	24.0	8.0 8.0	8.0	27.3 27.4	27.4	79.4 79.4	79.4	5.7 5.7	5.7	5.5	2.1 2.3	2.2		7.5 7.2	7.4	
				9.5	Middle	4.8	22.8 23.1	22.9	8.0 8.0	8.0	31.2 30.5	30.8	70.4 74.1	72.3	5.1 5.3	5.2		3.7 4.0	3.9	3.2	6.4 6.5	6.5	7.2
					Bottom	8.5	23.1 22.7	22.9	8.0 8.0	8.0	30.7 31.4	31.1	76.7 72.3	74.5	5.5 5.2	5.4	5.4	3.3 3.5	3.4		7.3 7.9	7.6	
17-Aug-15	Sunny	Moderate	07:10		Surface	1.0	24.3 24.0	24.1	7.9 7.9	7.9	24.4 26.5	25.4	75.0 71.7	73.4	5.4 5.2	5.3		2.3 2.4	2.4		4.6 4.3	4.5	
				10.5	Middle	5.3	23.9 23.5	23.7	7.9 7.9	7.9	26.7 27.5	27.1	73.7 71.7	72.7	5.4 5.2	5.3	5.3	2.3	2.4	2.4	5.3 5.5	5.4	5.8
					Bottom	9.5	23.4	23.7	7.9	7.9	28.8	27.8	70.0	71.5	5.1	5.2	5.2	2.3	2.3		7.1	7.4	
19-Aug-15	Sunny	Moderate	08:31		Surface	1.0	23.9 24.8	25.0	7.9 7.8	7.8	26.8 25.3	25.1	73.0 78.3	78.6	5.3 5.7	5.7		2.3 1.2	1.2		7.6	2.5	
				9.8	Middle	4.9	25.1 24.6	24.4	7.8 7.8	7.8	24.9 25.9	26.0	78.9 75.1	74.9	5.6 5.4	5.4	5.6	1.2	1.5	1.4	2.8	2.7	2.5
				9.0			24.3 24.0		7.8 7.8		26.0 27.1		74.6 72.5		5.4 5.2			1.5 1.6		1.4	2.7		2.5
21-Aug-15	Suppy	Moderate	09:59	<u> </u>	Bottom	8.8	24.1 25.3	24.1	7.8 7.9	7.8	27.2	27.2	73.8 78.8	73.2	5.3 5.7	5.3	5.3	1.6	1.6		2.4	2.3	
21-Aug-13	Sunny	Woderate	09.59		Surface	1.0	25.1	25.2	7.9	7.9	23.0	22.7	77.5	78.2	5.6	5.6	5.6	1.8	1.8		3.1	3.0	
				10.3	Middle	5.2	24.6 24.4	24.5	7.9 7.9	7.9	24.9 25.6	25.2	77.9 76.2	77.1	5.6 5.5	5.5		1.8 1.9	1.9	1.9	2.6 2.2	2.4	2.7
					Bottom	9.3	22.9 23.2	23.0	7.9 7.9	7.9	30.3 29.5	29.9	73.0 74.8	73.9	5.3 5.4	5.3	5.3	1.9 1.9	1.9		2.8 2.5	2.7	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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*
24-Aug-15	Sunny	Moderate	16:13		Surface	1.0	24.9 25.2	25.0	8.2 8.3	8.2	27.2 26.8	27.0	109.6 100.2	104.9	7.8 7.2	7.5	7.1	1.3 1.4	1.4		4.2 4.8	4.5	
				10.3	Middle	5.2	22.6 22.6	22.6	8.0 7.9	8.0	31.8 31.8	31.8	93.5 91.8	92.7	6.7 6.6	6.7	7.1	1.2 1.2	1.2	1.3	5.1 4.9	5.0	4.8
					Bottom	9.3	22.5 22.6	22.5	7.9 8.0	8.0	32.1 32.0	32.0	77.6 83.1	80.4	5.6 6.0	5.8	5.8	1.4 1.2	1.3		5.1 4.8	5.0	
26-Aug-15	Sunny	Moderate	18:16		Surface	1.0	24.6 24.6	24.6	8.1 8.2	8.1	27.9 28.1	28.0	107.4 109.7	108.6	7.6 7.8	7.7	7.6	1.2 1.1	1.2		4.7 3.8	4.3	
				10.3	Middle	5.2	24.2 24.1	24.1	8.1 8.0	8.0	29.4 29.2	29.3	101.8 107.6	104.7	7.2 7.6	7.4	7.0	1.6 1.6	1.6	1.6	6.1 4.2	5.2	4.9
					Bottom	9.3	24.2 24.1	24.2	8.1 7.9	8.0	29.4 29.2	29.3	97.3 98.8	98.1	6.9 7.0	7.0	7.0	1.8 2.0	1.9		6.1 4.5	5.3	
28-Aug-15	Sunny	Moderate	19:31		Surface	1.0	24.2 24.4	24.3	8.0 8.0	8.0	30.0 29.4	29.7	84.7 82.1	83.4	6.0 5.8	5.9	5.9	2.8 2.9	2.9		3.6 3.5	3.6	
				10.0	Middle	5.0	23.9 24.0	24.0	8.0 8.0	8.0	30.5 30.6	30.6	80.5 82.0	81.3	5.7 5.8	5.8	5.5	3.1 3.1	3.1	3.1	4.3 4.1	4.2	4.0
					Bottom	9.0	23.8 23.8	23.8	8.0 8.0	8.0	31.2 30.9	31.1	80.9 79.9	80.4	5.7 5.7	5.7	5.7	3.1 3.2	3.2		4.5 3.8	4.2	
31-Aug-15	Cloudy	Moderate	06:45		Surface	1.0	23.1 23.1	23.1	7.9 7.9	7.9	32.7 32.7	32.7	78.2 77.4	77.8	5.5 5.5	5.5	5.4	5.9 6.0	6.0		10.3 11.3	10.8	
				9.6	Middle	4.8	23.1 23.1	23.1	7.9 7.9	7.9	32.7 32.6	32.7	75.0 75.7	75.4	5.3 5.4	5.3	5.4	6.2 6.1	6.2	6.2	13.5 13.9	13.7	13.5
					Bottom	8.6	23.1 23.1	23.1	7.9 7.9	7.9	32.7 32.6	32.6	73.7 74.9	74.3	5.2 5.3	5.3	5.3	6.5 6.4	6.5		15.8 16.0	15.9	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissolv	ed Oxygen	(mg/L)	Ti	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*
3-Aug-15	Sunny	Moderate	15:44		Surface	1.0	25.5 26.0	25.7	7.8 7.8	7.8	21.7 21.4	21.6	77.2 81.1	79.2	5.6 5.8	5.7		1.7 1.5	1.6		5.3 3.9	4.6	
				34.5	Middle	17.3	24.1	24.1	7.8	7.8	27.1	27.3	72.2	72.7	5.2	5.2	5.5	1.6	1.6	1.6	4.5	4.5	4.6
					Bottom	33.5	24.0 24.0	23.9	7.8 7.8	7.8	27.6 27.8	28.0	73.2 72.7	73.5	5.3 5.2	5.3	5.3	1.6 1.5	1.6		4.4	4.6	1
5.0		Mariana.	47.40		Dottoili	00.0	23.9	20.0	7.8	7.0	28.2	20.0	74.3	70.0	5.3	0.0	0.0	1.6	1.0		5.0	4.0	
5-Aug-15	Sunny	Moderate	17:12		Surface	1.0	26.8 26.8	26.8	7.9 7.9	7.9	20.7 20.7	20.7	77.3 75.0	76.2	5.5 5.3	5.4	5.3	3.2 3.1	3.2		5.6 7.2	6.4	
				33.0	Middle	16.5	25.7 25.5	25.6	7.9 7.9	7.9	23.0 23.8	23.4	73.4 73.1	73.3	5.2 5.2	5.2	0.0	3.2 3.2	3.2	3.2	6.8 6.3	6.6	6.4
					Bottom	32.0	23.5 23.6	23.5	7.8 7.9	7.9	30.5 30.1	30.3	69.3 70.1	69.7	5.0 5.1	5.0	5.0	3.3 3.3	3.3		6.6 5.9	6.3	
7-Aug-15	Sunny	Moderate	19:19		Surface	1.0	26.9	26.9	8.2	8.2	22.4	22.0	89.3	92.1	6.4 6.7	6.5		2.5	2.6		3.3	3.3	
				33.6	Middle	16.8	27.0 25.2	24.6	8.2	8.0	21.7	30.0	94.9 77.5	77.8	5.4	5.5	6.0	2.6	2.6	2.6	3.2	3.5	3.2
					Bottom	32.6	24.0	23.3	8.0	8.0	31.7 32.8	31.2	78.1 76.6	73.5	5.5 5.4	5.2	5.2	2.5 2.5	2.6		3.0 2.9	2.9	1
10-Aug-15	Cloudy	Moderate	08:25				23.7 26.5		8.0 7.8		29.7 17.1		70.4 107.8		5.0 7.9		5.2	2.6 1.1			2.9 5.8		
10-Aug-13	Oloudy	Woderate	00.23		Surface	1.0	26.6	26.5	7.9	7.9	17.4	17.2	109.3	108.6	8.0	7.9	7.8	1.1	1.1		6.8	6.3]
				34.4	Middle	17.2	25.9 26.4	26.1	7.9 7.8	7.8	18.9 18.6	18.7	103.6 105.0	104.3	7.6 7.6	7.6		1.1 1.2	1.2	1.2	6.8 6.4	6.6	6.5
					Bottom	33.4	24.7 25.4	25.1	7.7 7.8	7.8	26.2 23.9	25.1	101.4 100.9	101.2	7.5 7.2	7.4	7.4	1.3 1.3	1.3		6.5 6.5	6.5	
12-Aug-15	Sunny	Moderate	10:01		Surface	1.0	25.9 25.7	25.8	8.0 7.9	8.0	21.4 21.6	21.5	107.0 104.0	105.5	7.7 7.6	7.6	7.3	1.4 1.3	1.4		6.4 5.2	5.8	
				34.0	Middle	17.0	23.9 24.2	24.1	7.9 7.9	7.9	25.5 24.9	25.2	89.3 103.2	96.3	6.5 7.4	6.9	7.3	1.4 1.4	1.4	1.5	6.1 6.5	6.3	6.1
					Bottom	33.0	24.4 23.9	24.2	8.0 7.8	7.9	26.1 27.3	26.7	85.6 85.6	85.6	6.2 6.2	6.2	6.2	1.6 1.6	1.6		6.5 6.1	6.3	
14-Aug-15	Cloudy	Moderate	13:45		Surface	1.0	25.7	25.7	8.1	8.1	22.7	22.6	89.7	89.1	6.4	6.4		1.9	2.0		4.8	4.6	
					+		25.8 24.0		8.1 8.0		22.4 28.8		88.4 81.9		6.4 5.9		6.1	2.0 3.6			4.4 4.6		∤
				34.6	Middle	17.3	23.9	24.0	8.0	8.0	28.9 29.1	28.9	79.6 85.0	80.8	5.7 6.1	5.8		3.8	3.7	3.2	5.5 8.1	5.1	5.7
					Bottom	33.6	23.9	23.9	8.0	8.0	29.2	29.1	81.4	83.2	5.8	5.9	5.9	3.9	3.8		6.9	7.5	
17-Aug-15	Sunny	Moderate	15:26		Surface	1.0	25.8 26.0	25.9	8.0 8.0	8.0	20.9 20.6	20.8	73.4 76.1	74.8	5.3 5.5	5.4	5.0	2.2 2.3	2.3		4.7 4.4	4.6	
				34.8	Middle	17.4	24.0 24.1	24.1	7.9 7.9	7.9	26.5 26.4	26.5	69.7 69.7	69.7	5.0 5.0	5.0	5.2	2.7 2.6	2.7	2.5	5.0 4.0	4.5	4.9
					Bottom	33.8	23.9	23.9	7.9 7.9	7.9	26.9 27.7	27.3	68.1 66.6	67.4	4.9 4.8	4.9	4.9	2.6 2.6	2.6		4.8 6.3	5.6	
19-Aug-15	Sunny	Moderate	16:29		Surface	1.0	26.5	26.6	7.9	7.9	19.0	19.1	82.7	82.4	6.0	6.0		1.2	1.2		1.0	1.3	
				34.1	Middle	17.1	26.7 26.1	26.1	7.9 7.9	7.9	19.2 21.1	20.9	82.1 80.5	80.7	6.0 5.9	5.8	5.9	1.1	1.3	1.3	1.5 0.9	1.0	1.2
				J-4.1			26.0 25.8	_	7.9 7.9	-	20.7 22.8		80.8 78.9		5.8 5.6		5.0	1.3 1.5		1.0	1.0		1.2
21-Aug-15	Sunny	Moderate	17:31		Bottom	33.1	24.9	25.4	7.9	7.9	25.0 23.8	23.9	78.2 78.8	78.6	5.7 5.6	5.6	5.6	1.4	1.5		1.5	1.4	
21-Aug-15	Suring	Moderate	17.31		Surface	1.0	25.9	25.9	8.1	8.1	23.8	23.8	85.5	82.2	6.1	5.8	5.7	2.1	2.2		1.5	1.6	_
				33.7	Middle	16.9	23.1 22.6	22.8	8.0 7.9	8.0	31.2 31.4	31.3	78.4 74.1	76.3	5.7 5.4	5.5		2.1 2.1	2.1	2.2	2.6 2.6	2.6	2.6
					Bottom	32.7	22.1 22.1	22.1	7.9 8.0	7.9	32.6 32.7	32.6	68.7 69.4	69.1	5.0 5.0	5.0	5.0	2.1 2.2	2.2		3.6 3.3	3.5	
<u> </u>		·							0.0		02.1		00.7		0.0						0.0		

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	06:53		Surface	1.0	25.2 25.8	25.5	8.1 8.2	8.2	23.0 23.8	23.4	100.7 112.7	106.7	7.3 8.0	7.7	6.7	1.4 1.3	1.4		4.5 3.9	4.2	
				34.7	Middle	17.4	23.0 22.9	23.0	8.0 8.0	8.0	29.3 29.8	29.6	78.7 78.6	78.7	5.7 5.7	5.7	0.7	2.1 2.2	2.2	1.9	3.6 3.6	3.6	3.8
					Bottom	33.7	22.7 22.7	22.7	8.0 8.0	8.0	30.2 29.9	30.1	81.0 79.2	80.1	5.9 5.8	5.8	5.8	2.2 2.1	2.2		3.8 3.6	3.7	
26-Aug-15	Sunny	Moderate	08:51		Surface	1.0	24.5 24.6	24.5	8.1 8.1	8.1	29.6 29.3	29.4	92.4 91.2	91.8	6.5 6.4	6.5	5.9	2.2 2.2	2.2		4.9 4.8	4.9	
				35.4	Middle	17.7	22.2 22.4	22.3	7.9 8.0	8.0	34.3 34.1	34.2	71.6 74.9	73.3	5.1 5.3	5.2	0.0	2.5 2.7	2.6	2.4	5.0 4.1	4.6	5.1
					Bottom	34.4	22.0 22.1	22.0	7.9 8.0	8.0	34.5 34.6	34.6	77.4 78.9	78.2	5.5 5.6	5.6	5.6	2.3 2.2	2.3		6.2 5.3	5.8	
28-Aug-15	Rainy	Moderate	10:46		Surface	1.0	25.0 24.6	24.8	7.9 7.9	7.9	27.1 28.3	27.7	85.6 81.8	83.7	6.1 5.8	5.9	5.8	2.5 2.4	2.5		2.7 2.9	2.8	
				34.1	Middle	17.1	23.2 23.1	23.2	7.9 7.9	7.9	32.3 32.6	32.4	79.8 77.2	78.5	5.7 5.5	5.6	5.6	2.7 2.6	2.7	2.7	2.8 2.6	2.7	3.1
					Bottom	33.1	23.0 22.8	22.9	7.9 8.0	8.0	32.9 33.6	33.2	75.5 73.7	74.6	5.4 5.2	5.3	5.3	2.8 2.8	2.8		4.0 3.5	3.8	
31-Aug-15	Cloudy	Moderate	14:51		Surface	1.0	24.2 24.3	24.3	7.9 7.9	7.9	28.5 28.2	28.4	78.7 79.4	79.1	5.6 5.6	5.6	5.5	4.4 4.5	4.5		9.9 10.9	10.4	
				34.5	Middle	17.3	23.8 24.0	23.9	7.9 7.9	7.9	28.9 28.6	28.8	76.8 76.6	76.7	5.4 5.4	5.4	5.5	4.7 4.7	4.7	4.7	10.4 10.8	10.6	10.8
					Bottom	33.5	23.8 24.3	24.0	7.9 7.9	7.9	30.7 30.0	30.3	75.0 75.1	75.1	5.3 5.3	5.3	5.3	4.8 5.0	4.9		12.0 10.6	11.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Temper	ature (°C)	ŗ	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*
3-Aug-15	Sunny	Moderate	07:26		Surface	1.0	25.6 25.5	25.5	7.7 7.7	7.7	19.9 20.4	20.2	81.1 84.5	82.8	5.9 6.1	6.0		1.7 1.8	1.8		7.0 6.3	6.7	
				34.8	Middle	17.4	25.1 25.2	25.2	7.7 7.7	7.7	22.7 22.2	22.5	76.6 80.6	78.6	5.6 5.8	5.7	5.9	2.4 2.7	2.6	2.2	7.3 7.5	7.4	8.7
					Bottom	33.8	25.0 25.3	25.2	7.7	7.7	23.1	22.6	78.0 78.7	78.4	5.7 5.7	5.7	5.7	2.2	2.3		12.3	12.1	
5-Aug-15	Sunny	Moderate	09:37		Surface	1.0	26.2	26.2	7.8	7.8	20.5	20.5	71.3	71.2	5.1	5.1		1.4	1.4		5.6	5.1	
				34.1	Middle	17.1	26.2 25.7	25.6	7.8 7.8	7.8	20.4 22.0	22.4	71.1 71.2	70.8	5.1 5.1	5.1	5.1	1.4	1.5	1.5	4.6 4.5	4.8	4.6
				34.1	-		25.5 25.5		7.8 7.8		22.7 23.3		70.3 69.3		5.0 5.0			1.5 1.5		1.5	5.0 3.3		4.0
7 Aug 15	Sunny	Moderate	11:51		Bottom	33.1	25.2 26.0	25.3	7.7	7.8	25.2 21.9	24.3	67.9 74.0	68.6	4.9 5.3	4.9	4.9	1.5	1.5		4.2	3.8	
7-Aug-15	Suriny	Moderate	11.51		Surface	1.0	26.2	26.1	8.0	7.9	21.9	21.9	75.4	74.7	5.4	5.4	5.3	1.2	1.2		2.5	2.3	
				34.6	Middle	17.3	24.2 24.1	24.2	7.9 7.9	7.9	27.9 28.8	28.4	72.8 73.5	73.2	5.2 5.2	5.2		1.2 1.2	1.2	1.2	2.8 4.1	3.5	3.1
					Bottom	33.6	23.9 24.2	24.0	7.9 7.9	7.9	29.8 29.1	29.4	69.8 69.8	69.8	5.0 5.0	5.0	5.0	1.2 1.3	1.3		3.8 2.9	3.4	
10-Aug-15	Cloudy	Moderate	18:51		Surface	1.0	25.7 25.9	25.8	7.8 7.9	7.9	21.7 20.2	20.9	97.1 109.1	103.1	7.2 8.0	7.6	7.1	1.2 1.3	1.3		4.6 3.7	4.2	
				34.6	Middle	17.3	24.1 24.0	24.0	7.8 7.8	7.8	29.3 29.4	29.3	94.9 91.7	93.3	6.7 6.5	6.6	7.1	1.4 1.4	1.4	1.4	4.1 4.5	4.3	4.5
					Bottom	33.6	24.1 24.1	24.1	7.8 7.8	7.8	29.4	29.3	88.8 89.9	89.4	6.4 6.5	6.5	6.5	1.4	1.4		5.7 4.2	5.0	
12-Aug-15	Sunny	Moderate	20:06		Surface	1.0	24.8	24.8	7.9 7.9	7.9	25.3	25.3	103.7	103.8	7.4	7.4		1.6	1.7		6.5	6.9	
				34.3	Middle	17.2	24.8 24.5	24.5	7.9	7.9	25.3 26.9	26.9	103.8 101.4	101.5	7.4 7.3	7.3	7.4	1.7	1.9	1.9	7.2 7.8	8.0	7.5
					Bottom	33.3	24.5 24.6	24.7	7.8 7.9	7.9	26.9 26.9	26.8	101.6 100.8	100.9	7.3 7.2	7.2	7.2	1.9 2.1	2.1		8.1 7.7	7.6	
14-Aug-15	Cloudy	Moderate	04:46	<u> </u>	Surface	1.0	24.7 24.0	24.0	7.9 8.0	8.0	26.8 27.1	27.2	101.0 80.2	80.8	7.2 5.8	5.8	7.2	2.0	2.3		7.4	7.0	
							24.0 22.8		8.0 8.0		27.2 31.0		81.3 72.1		5.9 5.2		5.5	2.2 4.4			7.0 7.6		
				34.8	Middle	17.4	22.8	22.8	8.0	8.0	30.9 31.1	30.9	72.2 74.7	72.2	5.2 5.4	5.2		4.8	4.6	3.8	7.1	7.4	7.0
47.4 45	0	Moderate	07.00		Bottom	33.8	22.7	22.8	8.0	8.0	31.0	31.1	78.6	76.7	5.7	5.5	5.5	4.5	4.4		7.0	6.6	
17-Aug-15	Sunny	Moderate	07:02		Surface	1.0	24.3 24.3	24.3	7.9 7.9	7.9	25.3 24.4	24.8	75.9 73.5	74.7	5.5 5.3	5.4	5.4	2.1	2.2		7.0 6.0	6.5	
				34.4	Middle	17.2	23.9 23.5	23.7	7.9 7.9	7.9	26.6 27.6	27.1	72.9 74.7	73.8	5.3 5.4	5.3		2.8 2.9	2.9	2.6	6.5 6.6	6.6	6.8
					Bottom	33.4	23.3 23.6	23.5	7.9 7.9	7.9	28.3 27.8	28.0	71.1 71.5	71.3	5.1 5.2	5.2	5.2	2.8 2.8	2.8		6.3 8.1	7.2	
19-Aug-15	Sunny	Moderate	08:18		Surface	1.0	24.8 25.1	25.0	7.8 7.8	7.8	23.7 24.2	24.0	74.6 75.0	74.8	5.4 5.4	5.4		1.1 1.0	1.1		2.0 2.0	2.0	
				34.3	Middle	17.2	24.5 24.5	24.5	7.8 7.8	7.8	24.5 25.8	25.2	72.8 74.1	73.5	5.3 5.4	5.3	5.4	1.2	1.2	1.2	2.7	2.8	2.4
					Bottom	33.3	24.3 23.8	24.1	7.8 7.8	7.8	25.8 27.2	26.5	71.6 71.5	71.6	5.2 5.1	5.2	5.2	1.3	1.3		2.4	2.3	
21-Aug-15	Sunny	Moderate	09:49		Surface	1.0	24.9	25.1	7.9	7.9	24.0	23.7	78.3	78.6	5.6	5.7		2.2	2.2		2.4	2.3	
				34.3	Middle	17.2	25.2 22.7	22.9	7.9 7.9	7.9	23.4 30.3	30.3	78.9 74.4	74.3	5.7 5.4	5.4	5.6	2.1	2.2	2.2	2.2	2.2	2.4
					Bottom	33.3	23.0 22.7	22.7	7.9 7.9	7.9	30.4 30.3	30.5	74.2 69.6	69.6	5.3 5.0	5.0	5.0	2.1 2.1	2.1		2.1	2.7	
					ווטווטם	JJ.J	22.8	22.1	7.9	1.9	30.7	30.5	69.5	09.0	5.0	5.0	5.0	2.1	2.1		2.6	2.1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	16:27		Surface 1.	0 25.2 25.3	25.2	8.3 8.3	8.3	26.8 26.7	26.8	122.7 114.6	118.7	8.7 8.1	8.4	7.2	1.3 1.4	1.4		4.4 5.0	4.7	
				34.2	Middle 17	.1 22.3 22.4	22.4	8.0 8.0	8.0	32.4 32.3	32.3	83.8 82.1	83.0	6.0 5.9	6.0	1.2	1.5 1.4	1.5	1.4	4.6 4.5	4.6	4.8
					Bottom 33	.2 22.1 22.2	22.1	8.0 8.0	8.0	32.9 32.8	32.8	98.3 99.3	98.8	7.1 7.2	7.1	7.1	1.5 1.3	1.4		5.1 5.1	5.1	
26-Aug-15	Sunny	Moderate	18:30		Surface 1.	0 24.6 24.6	24.6	8.2 8.2	8.2	28.4 28.2	28.3	104.7 109.0	106.9	7.4 7.7	7.6	7.4	0.8 0.7	0.8		2.1 2.2	2.2	
				35.6	Middle 17	.8 24.1 23.6	23.8	8.1 8.0	8.1	29.8 30.8	30.3	100.4 102.4	101.4	7.1 7.3	7.2	7.4	1.3 1.4	1.4	1.2	3.0 4.1	3.6	3.1
					Bottom 34	.6 23.7 24.2	23.9	8.0 8.1	8.1	30.7 29.5	30.1	94.4 90.3	92.4	6.7 6.4	6.6	6.6	1.3 1.3	1.3		2.7 4.2	3.5	
28-Aug-15	Sunny	Moderate	19:41		Surface 1.	0 24.2 24.2	24.2	8.0 8.0	8.0	29.7 29.7	29.7	82.7 78.9	80.8	5.9 5.6	5.7	5.6	2.6 2.5	2.6		3.8 3.8	3.8	
				33.0	Middle 16	.5 23.6 23.5	23.5	8.0 8.0	8.0	31.2 31.2	31.2	78.7 77.9	78.3	5.6 5.5	5.5	3.0	2.8 2.8	2.8	2.7	4.3 3.7	4.0	4.0
					Bottom 32	.0 23.8 23.7	23.7	8.0 8.0	8.0	31.0 31.0	31.0	76.2 76.6	76.4	5.4 5.4	5.4	5.4	2.8 2.8	2.8		4.9 3.7	4.3	
31-Aug-15	Cloudy	Moderate	06:32		Surface 1.	0 23.2 23.1	23.2	7.8 7.9	7.9	32.4 32.5	32.5	77.4 76.4	76.9	5.5 5.4	5.4	5.4	6.3 6.2	6.3		12.5 12.8	12.7	
				34.8	Middle 17	.4 23.1 23.1	23.1	7.8 7.8	7.8	32.6 32.5	32.5	75.0 75.6	75.3	5.3 5.4	5.3	5.4	6.4 6.6	6.5	6.5	12.5 13.6	13.1	13.4
					Bottom 33	.8 23.1 23.1	23.1	7.8 7.8	7.8	32.6 32.5	32.5	73.7 73.9	73.8	5.2 5.2	5.2	5.2	6.7 6.8	6.8		14.1 14.4	14.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
3-Aug-15	Sunny	Moderate	14:04		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	26.4 26.5	26.5	73.8 74.1	74.0	5.1 5.1	5.1		15.2 15.6	15.4		3.5 2.9	3.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	15.4	-	-	5.8
					Bottom	2.2	28.0 27.8	27.9	8.0	8.0	26.6 27.0	26.8	72.6 73.1	72.9	5.0 5.1	5.0	5.0	15.2 15.5	15.4		8.8 7.7	8.3	
5-Aug-15	Sunny	Moderate	15:17		Surface	1.0	28.8	28.8	8.1	8.2	21.9	21.9	81.4	81.9	5.6	5.6		3.9	3.9		11.3	11.0	
				3.3	Middle	-	28.8	_	8.2	_	21.9	_	82.3	_	5.6 -	_	5.6	3.8	_	3.9	10.7	_	10.2
					Bottom	2.3	28.7	28.7	8.2	8.2	22.6	22.5	84.7	83.2	5.8	5.7	5.7	3.7	3.8		8.7	9.3	
7-Aug-15	Sunny	Moderate	17:41		Surface	1.0	28.8 30.2	30.2	7.9	7.9	22.3 25.5	25.4	81.7 102.6	103.1	5.6 6.9	6.9	0	3.9 6.9	6.9		9.9 6.8	6.6	
				3.1		1.0	30.2	-	7.8	7.5	25.4	-	103.5	-	6.9	0.5	6.9	6.9	-	7.1	6.4	-	
				3.1	Middle	2.1	30.2	30.2	7.9	7.9	25.4	25.3	109.8	105.9	7.2	7.0	7.0	7.2	7.3	7.1	8.0	7.2	6.9
10-Aug-15	Cloudy	Moderate	11:06		Bottom		30.2 28.9		7.9 8.4		25.3 25.0		101.9 108.7		6.9 7.3		7.0	7.3 5.5			6.4 2.5		
	,				Surface	1.0	28.9	28.9	8.5	8.4	24.6	24.8	104.8	106.8	7.1	7.2	7.2	5.5	5.5		3.4	3.0	
				3.2	Middle	-	- 28.6	-	8.3	-	27.5	-	105.3	-	7.0	-		- 5.7	-	5.6	3.7	-	3.5
40 Aug 45	Comment	Madagata	40.45		Bottom	2.2	28.7	28.6	8.4	8.4	27.3	27.4	110.4	107.9	7.3	7.2	7.2	5.5	5.6		4.2	4.0	
12-Aug-15	Sunny	Moderate	12:45		Surface	1.0	29.4 29.4	29.4	8.3 8.3	8.3	23.0 23.0	23.0	116.0 117.4	116.7	8.0 8.1	8.1	8.1	5.6 5.1	5.4		3.9 4.8	4.4	
				3.3	Middle	-	-	-		-		-	-	-		-		-	-	5.9	-	-	4.8
					Bottom	2.3	27.9 27.8	27.9	8.3 8.3	8.3	26.3 26.5	26.4	116.9 118.4	117.7	8.1 8.2	8.1	8.1	6.2 6.6	6.4		5.3 5.1	5.2	
14-Aug-15	Cloudy	Moderate	11:58		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	25.7 25.6	25.6	91.7 93.1	92.4	6.2 6.3	6.3	6.3	9.8 9.5	9.7		3.5 3.0	3.3	
				3.1	Middle	1	-	-		-		-		-		-	0.5	-	-	9.7	-	-	3.9
					Bottom	2.1	28.0 28.1	28.0	8.3 8.3	8.3	26.0 25.8	25.9	92.4 92.6	92.5	6.3 6.3	6.3	6.3	9.5 9.8	9.7		5.1 3.7	4.4	
17-Aug-15	Sunny	Moderate	13:26		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	25.4 25.3	25.4	86.2 84.2	85.2	5.9 5.7	5.8		9.7 8.9	9.3		8.7 9.1	8.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	9.4	-	-	9.1
					Bottom	2.3	27.9 27.9	27.9	8.1 8.1	8.1	25.4 25.4	25.4	89.0 84.7	86.9	6.1 5.8	5.9	5.9	9.4 9.4	9.4		8.6 9.8	9.2	
19-Aug-15	Sunny	Moderate	14:08	1	Surface	1.0	29.1 29.0	29.1	8.1 8.1	8.1	23.6 23.5	23.6	98.0 101.6	99.8	6.6 6.8	6.7		5.4 5.3	5.4		4.0	3.2	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	5.5	-	-	2.9
					Bottom	2.5	29.1 29.2	29.1	8.1	8.1	24.7	24.6	96.8	97.3	6.6	6.6	6.6	5.6	5.6		2.2	2.5	
21-Aug-15	Sunny	Moderate	15:32		Surface	1.0	29.3	29.2	8.1 8.2	8.2	24.5 26.8	27.0	97.7 93.7	92.7	6.6	6.1		5.5 6.6	6.7		3.4	3.7	
				3.3	Middle	_	29.1	-	8.2	-	27.2	-	91.7	-	6.1	-	6.1	6.7	_	7.1	3.9	-	3.5
					Bottom	2.3	29.0	28.8	8.2	8.2	28.0	28.2	93.6	93.6	6.2	6.2	6.2	7.2	7.4		3.3	3.2	
					DOMOITI	2.0	28.6	20.0	8.2	0.2	28.3	20.2	93.6	33.0	6.2	0.2	0.2	7.6	7.4		3.0	٧.۷	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Т	urbidity(NTI	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*
24-Aug-15	Sunny	Moderate	08:59		Surface	1.0	29.1 28.6	28.9	8.4 8.4	8.4	27.2 28.0	27.6	107.2 108.1	107.7	7.1 7.2	7.2	7.2	6.6 6.7	6.7		3.2 2.2	2.7	
				3.2	Middle			-		-	-	-		-	-	-	1.2	-	-	6.7	-	-	3.5
					Bottom	2.2	27.4 27.3	27.4	8.3 8.3	8.3	30.3 30.6	30.5	105.0 103.8	104.4	7.0 6.9	6.9	6.9	6.6 6.5	6.6		4.3 4.3	4.3	
26-Aug-15	Sunny	Moderate	10:56		Surface	1.0	28.7 28.6	28.7	8.4 8.4	8.4	29.5 29.5	29.5	90.9 94.1	92.5	6.0 6.3	6.1	6.1	4.7 4.8	4.8		5.6 6.4	6.0	
				3.0	Middle	-		-	-	-	-	-		-	-	-	0.1	-	-	4.8	-	-	7.2
					Bottom	2.0	27.3 27.3	27.3	8.3 8.3	8.3	31.4 31.4	31.4	92.0 88.7	90.4	6.1 5.9	6.0	6.0	4.8 4.8	4.8		8.1 8.7	8.4	
28-Aug-15	Rainy	Moderate	12:24		Surface	1.0	27.8 27.4	27.6	8.2 8.2	8.2	30.1 30.4	30.3	92.9 91.5	92.2	6.2 6.1	6.2	6.2	6.1 6.3	6.2		2.1 2.1	2.1	
				3.2	Middle	-		-	-	-	-	-		-	-	-	0.2	-	-	6.3	-	-	2.3
					Bottom	2.2	27.3 27.5	27.4	8.2 8.2	8.2	30.6 30.3	30.5	91.5 89.1	90.3	6.1 6.0	6.0	6.0	6.4 6.3	6.4		2.4 2.4	2.4	
31-Aug-15	Cloudy	Moderate	12:35		Surface	1.0	27.5 27.5	27.5	8.1 8.1	8.1	30.7 30.7	30.7	90.6 94.2	92.4	6.1 6.3	6.2	6.2	5.8 5.6	5.7	_	6.1 5.2	5.7	-
				3.3	Middle	-	-	-	-	-	-	-	1 1	-	-	-	0.2	-	-	5.7	-	-	5.6
					Bottom	2.3	27.5 27.5	27.5	8.1 8.1	8.1	30.6 30.6	30.6	89.8 91.3	90.6	6.1 6.2	6.1	6.1	5.8 5.6	5.7		5.4 5.4	5.4	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	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*
3-Aug-15	Sunny	Moderate	09:13		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	22.9 22.9	22.9	76.9 75.7	76.3	5.3 5.2	5.3		9.4 9.1	9.3		5.3 5.1	5.2	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	9.4	-	-	4.6
					Bottom	2.3	27.9 27.9	27.9	8.0 8.0	8.0	23.0 23.0	23.0	78.9 76.2	77.6	5.4 5.3	5.4	5.4	9.4 9.4	9.4		4.8 3.0	3.9	
5-Aug-15	Sunny	Moderate	10:53		Surface	1.0	28.6	28.6	8.0	8.0	21.8	21.9	80.2	80.1	5.5	5.5		4.4	4.5		6.4	5.5	
				3.3	Middle	_	28.6		8.0	-	21.9		79.9	-	5.5	_	5.5	4.6		4.7	4.5	-	5.4
				0.0	Bottom	2.3	28.5	28.6	8.0	8.0	22.4	22.3	80.0	79.9	5.5	5.5	5.5	4.9	4.8	7.1	5.2	5.3	0.4
7-Aug-15	Sunny	Moderate	13:23				28.6 29.3	29.6	8.0		22.2		79.7 102.9		5.5 6.9		5.5	4.7 5.6			5.4 4.6		
	,				Surface	1.0	29.9		8.0	8.0	22.9	23.1	109.0	106.0	7.3	7.1	7.1	5.9	5.8		4.5	4.6	
				3.2	Middle	-	- 29.6	-	8.0	-	23.1	-	104.5	-	6.9	-		6.7	-	6.3	4.7	-	4.4
40 40 45	Classalis	Madagata	40:45		Bottom	2.2	29.8	29.7	8.0	8.0	24.1	23.6	100.0 153.1	102.3	6.7	6.8	6.8	6.6	6.7		3.6	4.2	
10-Aug-15	Cloudy	Moderate	16:15		Surface	1.0	29.1 29.1	29.1	8.6 8.6	8.6	23.1	23.2	151.1	152.1	10.3 10.2	10.3	10.3	4.3	4.4		5.8 6.2	6.0	
				3.1	Middle	-	-	-		-	-	-	-	-		-		-	-	4.5	-	-	6.0
					Bottom	2.1	29.0 29.1	29.1	8.6 8.6	8.6	24.0 24.9	24.4	146.8 140.9	143.9	9.9 9.4	9.7	9.7	4.4 4.5	4.5		5.7 6.1	5.9	
12-Aug-15	Sunny	Moderate	17:14		Surface	1.0	29.6 29.8	29.7	8.3 8.3	8.3	25.9 25.6	25.8	119.4 119.2	119.3	8.2 8.1	8.2	8.2	10.7 9.5	10.1		7.1 6.8	7.0	
				3.2	Middle	-	-	-		-		-		-		-	0.2	-	-	9.9	-	-	7.5
					Bottom	2.2	29.5 28.7	29.1	8.2 8.2	8.2	26.5 27.2	26.9	119.3 118.3	118.8	8.1 8.1	8.1	8.1	10.0 9.4	9.7		7.4 8.4	7.9	
14-Aug-15	Cloudy	Moderate	06:39		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	24.9 25.0	24.9	93.9 96.3	95.1	6.4 6.5	6.5		5.2 5.5	5.4		4.6 4.4	4.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	5.5	-	-	4.0
					Bottom	2.2	28.3 28.3	28.3	8.3 8.3	8.3	25.4 25.5	25.5	93.7 90.6	92.2	6.3 6.1	6.2	6.2	5.5 5.5	5.5		3.5 3.4	3.5	
17-Aug-15	Sunny	Moderate	08:25		Surface	1.0	27.6	27.6	8.1	8.1	25.0	25.0	107.9	104.3	7.4	7.2		4.7	4.5		9.0	9.0	
				3.4	Middle	-	27.6	-	8.1	-	25.0	-	100.7	-	6.9	-	7.2	4.3	-	4.8	9.0	-	9.2
					Bottom	2.4	27.6	27.6	8.1	8.1	25.0	25.0	98.2	96.8	6.7	6.6	6.6	5.0	5.1		9.0	9.3	
19-Aug-15	Sunny	Moderate	09:33	<u> </u>	Surface	1.0	27.6 28.9	28.9	8.1 8.1	8.1	25.1 24.0	24.0	95.3 96.4	97.6	6.5 6.5	6.6		5.2 5.0	5.0		9.6	3.1	
				3.5	Middle		28.9	-	8.1	-	24.0	-	98.7	-	6.7	0.0	6.6	5.0	-	5.1	2.9	-	2.8
				5.5		2.5	28.9	28.9	8.1	8.1	24.0	24.1	96.0	96.1	6.5	6.5	6.5	5.0		5.1	2.6	2.5	2.0
21-Aug-15	Sunny	Moderate	11:17		Bottom		28.9 28.9		8.1 8.1		24.1 24.0		96.1 92.0		6.5 6.2	6.5	0.0	5.2 5.9	5.1		2.3 1.4		<u> </u>
2.7.09.0					Surface	1.0	29.3	29.1	8.2	8.1	23.6	23.8	98.7	95.4	6.6	6.4	6.4	5.4	5.7		1.2	1.3	
				3.3	Middle	-	- 29.0	-	-	-	24.9	-	95.4	-	- 6.4	-		-	-	6.0	2.1	-	1.7
					Bottom	2.3	28.9 28.7	28.8	8.1 8.1	8.1	24.9 25.3	25.1	95.4 93.6	94.5	6.4 6.3	6.3	6.3	6.4 6.1	6.3		2.1	2.1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Susper	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*
24-Aug-15	Sunny	Moderate	14:21		Surface	1.0	29.8 30.0	29.9	8.6 8.6	8.6	27.4 27.2	27.3	128.9 128.2	128.6	8.6 8.5	8.5	8.5	4.8 4.7	4.8		4.7 5.2	5.0	
				3.1	Middle			•		-	-	-		-	1 1	-	0.5	-	-	4.8	-	-	4.6
					Bottom	2.1	28.7 29.8	29.3	8.5 8.6	8.6	28.2 27.4	27.8	127.1 128.1	127.6	8.5 8.5	8.5	8.5	4.8 4.8	4.8		3.6 4.6	4.1	
26-Aug-15	Sunny	Moderate	16:31		Surface	1.0	28.1 28.3	28.2	8.3 8.3	8.3	29.1 29.7	29.4	88.9 93.2	91.1	5.9 6.2	6.0	6.0	9.7 9.7	9.7		6.9 6.2	6.6	
				3.1	Middle			•		-	-	-		-	1 1	-	0.0	-	-	9.8	-	-	6.7
					Bottom	2.1	27.3 27.8	27.6	8.0 8.3	8.2	31.6 31.1	31.3	91.1 91.6	91.4	6.0 6.1	6.0	6.0	9.8 9.9	9.9		6.7 6.9	6.8	
28-Aug-15	Sunny	Moderate	17:27		Surface	1.0	27.8 27.9	27.9	8.3 8.3	8.3	30.5 30.4	30.4	99.4 103.8	101.6	6.6 6.9	6.8	6.8	9.7 9.7	9.7		3.0 2.0	2.5	
				3.3	Middle	-		-		-	-	-		-	1 1	-	0.0	-	-	9.8	-	-	2.7
					Bottom	2.3	27.7 27.9	27.8	8.3 8.3	8.3	30.6 30.4	30.5	99.4 99.0	99.2	6.6 6.6	6.6	6.6	9.9 9.7	9.8		2.9 2.7	2.8	
31-Aug-15	Cloudy	Moderate	07:46		Surface	1.0	27.1 27.1	27.1	8.1 8.1	8.1	30.2 30.2	30.2	89.3 85.8	87.6	6.1 5.8	5.9	5.9	9.7 9.6	9.7		7.0 6.0	6.5	
				3.3	Middle	-	-	-		-	-	-	1 1	-		-	5.5	-	-	9.7	-	-	6.7
					Bottom	2.3	27.1 27.2	27.2	8.1 8.1	8.1	30.2 30.2	30.2	84.7 86.8	85.8	5.7 5.9	5.8	5.8	9.6 9.7	9.7		6.9 6.7	6.8	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	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*
3-Aug-15	Sunny	Moderate	14:16		Surface	1.0	28.2 28.3	28.2	8.1 8.1	8.1	24.0 24.1	24.1	80.7 82.0	81.4	5.5 5.6	5.6		7.7 7.5	7.6		3.3 4.0	3.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	7.7	-	-	4.1
					Bottom	2.4	28.1	28.1	8.0	8.0	24.5	24.7	81.1 81.4	81.3	5.5 5.6	5.5	5.5	7.8 7.5	7.7		4.2	4.5	
5-Aug-15	Sunny	Moderate	15:31				28.7		8.0 8.1		23.2		78.8		5.4			3.6			6.4		
o Aug 10	Curiny	Woderate	10.01		Surface	1.0	28.7	28.7	8.1	8.1	23.2	23.2	78.8	78.8	5.4	5.4	5.4	3.6	3.6		7.8	7.1	_
				3.4	Middle	-	28.7	-	8.1	-	23.9	-	79.1	-	5.4	-		3.5	-	3.6	5.2	-	6.2
					Bottom	2.4	28.7	28.7	8.1	8.1	24.1	24.0	78.8	79.0	5.3	5.3	5.3	3.5	3.5		5.4	5.3	<u> </u>
7-Aug-15	Sunny	Moderate	17:52		Surface	1.0	29.4 28.7	29.0	8.0 7.9	7.9	24.7 25.3	25.0	102.5 105.5	104.0	6.7 7.1	6.9	6.9	5.0 4.9	5.0		7.1 7.2	7.2	
				3.5	Middle	-	-	-	-	-		-		-		-	0.0	-	-	5.2	-	-	6.9
					Bottom	2.5	28.2 29.8	29.0	7.9 7.9	7.9	27.7 26.3	27.0	91.6 100.2	95.9	6.1 6.7	6.4	6.4	5.3 5.4	5.4		6.7 6.3	6.5	
10-Aug-15	Cloudy	Moderate	10:53		Surface	1.0	29.0 29.2	29.1	8.5 8.6	8.5	24.8 24.6	24.7	122.8 127.6	125.2	8.2 8.5	8.4		5.2 5.2	5.2		3.8 3.6	3.7	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	5.3	-	-	3.2
					Bottom	2.6	29.1 28.5	28.8	8.5 8.4	8.5	25.4 27.3	26.4	117.8 119.4	118.6	7.9 8.0	7.9	7.9	5.2 5.3	5.3		3.2	2.7	
12-Aug-15	Sunny	Moderate	12:26		Surface	1.0	28.4	28.4	8.3	8.3	24.7	24.8	121.3	119.9	8.4	8.3		6.4	6.4		5.9	5.9	
				3.6	Middle	_	28.4	_	8.3	_	24.8	_	118.4	_	8.2	_	8.3	6.4	_	6.5	5.8	-	5.7
					Bottom	2.6	27.8	28.0	8.2	8.3	26.5	26.3	123.1	121.3	8.5	8.4	8.4	6.4	6.5		5.9	5.5	1
11.0			10.11		Dottom	2.0	28.2	20.0	8.3	0.0	26.0	20.0	119.4	121.0	8.3	0.4	0.4	6.5	0.0		5.1	0.0	<u> </u>
14-Aug-15	Cloudy	Moderate	12:11		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	24.6 24.6	24.6	98.6 97.6	98.1	6.7 6.7	6.7	6.7	7.7 7.8	7.8		5.3 5.9	5.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.8	-	-	5.9
					Bottom	2.7	28.1 28.2	28.2	8.3 8.3	8.3	25.5 25.5	25.5	99.1 96.0	97.6	6.7 6.5	6.6	6.6	7.6 7.8	7.7		5.4 6.9	6.2	
17-Aug-15	Sunny	Moderate	13:39		Surface	1.0	28.5 28.3	28.4	8.1 8.1	8.1	23.8 24.0	23.9	91.4 91.7	91.6	6.2 6.3	6.2	6.2	5.6 6.0	5.8		6.8 7.0	6.9	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	6.2	-	-	6.3
					Bottom	2.5	28.4 28.0	28.2	8.1 8.1	8.1	23.8 24.2	24.0	91.5 92.3	91.9	6.2 6.3	6.3	6.3	6.4 6.6	6.5		5.6 5.8	5.7	
19-Aug-15	Sunny	Moderate	14:23		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	23.5 23.6	23.6	104.2 106.5	105.4	7.1 7.2	7.1		4.8 4.8	4.8		3.9 4.0	4.0	
				3.5	Middle	-	- 29.0	-	- 8.2	-	-	-	- 106.5	-	-	-	7.1	- 4.8	-	4.9	- 4.0	-	3.9
					Bottom	2.5	29.1	29.1	8.2	8.2	23.4	23.5	103.8	104.2	7.0	7.1	7.1	4.8	4.9		3.6	3.8	
21-Aug-15	Sunny	Moderate	15:47		Surface	1.0	29.0 28.7	28.5	8.2 8.2	8.2	23.5 26.5	26.8	104.6 92.5	91.3	7.1 6.2	6.1		5.0 4.4	4.6		3.9 1.5	1.6	
				3.6	Middle	-	28.3		8.2	-	27.1		90.0	-	6.0		6.1	4.8		5.0	1.7	-	1.9
				5.0		2.6	28.0	28.3	8.2	8.2	28.7	28.6	94.0	93.0	6.3	6.2	6.2	5.5	5.4	3.0	2.0	2.2	1.5
					Bottom	۷.٥	28.5	28.3	8.2	8.2	28.5	∠8.6	92.0	93.0	6.1	0.∠	0.2	5.2	5.4		2.4	2.2	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	08:46		Surface	1.0	27.7 28.3	28.0	8.3 8.3	8.3	28.9 28.5	28.7	92.8 93.1	93.0	6.2 6.2	6.2	6.2	3.6 3.6	3.6		4.3 5.2	4.8	
				3.7	Middle			-		-		-		-		-	0.2	-	-	3.6	-	-	4.9
					Bottom	2.7	27.7 26.8	27.3	8.3 8.2	8.3	30.1 31.0	30.5	92.7 91.4	92.1	6.2 6.1	6.1	6.1	3.5 3.5	3.5		5.0 4.8	4.9	
26-Aug-15	Sunny	Moderate	10:42		Surface	1.0	28.7 28.6	28.6	8.4 8.4	8.4	29.3 29.6	29.5	101.9 98.3	100.1	6.7 6.5	6.6	6.6	4.4 4.4	4.4		6.3 6.3	6.3	
				3.6	Middle	-		-		-		-		-	1 1	-	0.0	-	-	4.5	-	-	6.1
					Bottom	2.6	27.1 27.1	27.1	8.3 8.3	8.3	31.5 31.5	31.5	101.4 92.9	97.2	6.8 6.2	6.5	6.5	4.5 4.5	4.5		5.5 6.1	5.8	
28-Aug-15	Rainy	Moderate	12:11		Surface	1.0	27.4 27.5	27.4	8.2 8.2	8.2	31.0 30.9	30.9	83.6 84.4	84.0	5.6 5.6	5.6	5.6	5.1 5.1	5.1		2.1 2.6	2.4	
				3.4	Middle			-		-		-		-		-	5.0	-	-	5.2	-	-	3.1
					Bottom	2.4	27.4 27.5	27.5	8.2 8.2	8.2	31.1 30.9	31.0	82.3 83.9	83.1	5.5 5.6	5.6	5.6	5.2 5.1	5.2		3.6 3.9	3.8	
31-Aug-15	Cloudy	Moderate	12:46		Surface	1.0	27.5 27.4	27.5	8.1 8.1	8.1	30.6 30.7	30.6	87.7 87.4	87.6	5.9 5.9	5.9	5.9	5.6 5.7	5.7		5.1 5.6	5.4	
				3.3	Middle	-		-		-		-		-		-	5.5	-	-	5.7	-	-	5.7
					Bottom	2.3	27.4 27.5	27.5	8.1 8.1	8.1	30.7 30.6	30.6	87.4 87.6	87.5	5.9 5.9	5.9	5.9	5.7 5.6	5.7		6.0 5.9	6.0	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	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*
3-Aug-15	Sunny	Moderate	09:01		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	22.5 22.0	22.2	72.3 76.9	74.6	5.0 5.3	5.2		7.9 8.1	8.0		6.2 5.3	5.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	8.0	-	-	6.2
					Bottom	2.6	27.8 27.8	27.8	8.0 8.0	8.0	23.5 23.0	23.2	73.8 71.6	72.7	5.1 5.0	5.1	5.1	7.9 8.0	8.0		6.6 6.4	6.5	
5-Aug-15	Sunny	Moderate	10:38		Surface	1.0	28.4	28.4	8.0	8.0	21.5	21.5	75.3	76.8	5.2	5.3		5.3	5.3		2.2	1.9	
				3.6	Middle		28.4		8.0	-	21.6		78.3	-	5.4		5.3	5.3	-	5.9	1.6		1.7
				0.0	Bottom	2.6	28.2	28.2	8.0	8.0	22.7	22.7	83.3	79.9	5.7	5.5	5.5	6.6	6.5	0.0	1.7	1.4	'''
7-Aug-15	Sunny	Moderate	13:09				28.2 28.8		8.0 7.9	7.9	22.8 23.9	23.8	76.4 100.9		5.3 6.8		5.5	6.3 5.6			1.1 4.1		
.3	,				Surface	1.0	28.9	28.8	7.9		23.8		99.6	100.3	6.7	6.8	6.8	5.4	5.5		2.9	3.5	
				3.5	Middle	-	- 29.2	-	7.9	-	23.5	-	98.2	-	6.7	-		6.3	-	5.9	3.4	-	3.8
40 000 45	Clavidi	Madagata	40:24		Bottom	2.5	29.1	29.2	7.9 8.6	7.9	23.5	23.5	98.9 148.3	98.6	6.7	6.7	6.7	6.1	6.2		4.6	4.0	
10-Aug-15	Cloudy	Moderate	16:31		Surface	1.0	29.1 29.0	29.0	8.6	8.6	23.1 23.5	23.3	150.6	149.5	9.9 10.2	10.0	10.0	4.8	4.8		5.0 4.8	4.9	
				3.5	Middle	-	-	-		-		-	-	-		-		-	-	4.9	-	-	6.6
					Bottom	2.5	29.0 29.1	29.1	8.5 8.6	8.5	27.6 25.6	26.6	136.6 136.6	136.6	9.0 9.2	9.1	9.1	4.8 4.9	4.9		8.4 8.0	8.2	
12-Aug-15	Sunny	Moderate	17:32		Surface	1.0	29.4 29.6	29.5	8.4 8.4	8.4	25.4 25.5	25.5	131.6 130.2	130.9	9.0 8.9	8.9	8.9	9.4 10.1	9.8		5.3 5.8	5.6	
				3.3	Middle	-	-	-		-		-		-		-	0.5	-	-	9.9	-	-	7.2
					Bottom	2.3	29.3 28.1	28.7	8.3 8.3	8.3	26.9 28.4	27.7	130.8 128.1	129.5	8.9 8.8	8.9	8.9	9.9 9.8	9.9		8.8 8.6	8.7	
14-Aug-15	Cloudy	Moderate	06:26		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	25.0 24.9	25.0	98.2 98.5	98.4	6.7 6.7	6.7		4.0 3.8	3.9		2.8 3.0	2.9	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	4.0	-	-	4.4
					Bottom	2.8	28.0 28.1	28.1	8.3 8.3	8.3	25.1 25.2	25.1	98.3 99.0	98.7	6.7 6.7	6.7	6.7	3.9 4.0	4.0		5.2 6.5	5.9	
17-Aug-15	Sunny	Moderate	08:12		Surface	1.0	27.5	27.5	8.1	8.1	24.5	24.3	89.9	90.8	6.2	6.3		4.9	5.0		5.6	5.9	
				3.5	Middle	_	27.5 -	-	8.1	_	24.2	-	91.7	-	6.3	-	6.3	5.1	_	5.1	6.1	-	8.2
					Bottom	2.5	27.4	27.4	8.1	8.1	25.2	25.2	90.4	91.8	6.2	6.3	6.3	4.9	5.1		10.6	10.4	l
19-Aug-15	Sunny	Moderate	09:18	<u> </u>	Surface	1.0	27.4 28.6	28.6	8.1 8.1	8.1	25.2 23.1	23.0	93.1 94.0	95.6	6.4	6.5		5.3 3.9	3.9		2.8	2.6	
				3.4	Middle	-	28.5	-	8.1	-	23.0	-	97.2	-	6.6	-	6.5	3.9	-	4.0	2.3	-	2.9
				5.4		2.4	28.5	28.5	8.1	8.1	24.0	24.0	95.3	94.4	6.5	6.5	6.5	4.0	4.0	₹.0	3.3		2.3
21-Aug-15	Sunny	Moderate	11:01		Bottom		28.6 28.8		8.1 8.1		24.0 24.2		93.5 97.4		6.4 6.6	6.5	0.0	4.0 8.0			2.9	3.1	
					Surface	1.0	28.8	28.8	8.1	8.1	24.2	24.2	97.4	97.4	6.6	6.6	6.6	7.5	7.8		2.8	2.7	-
				3.4	Middle	-	- 29.6	-	-	-	24.6	-	97.1	-	-	-		-	-	8.5	2.8	-	2.7
					Bottom	2.4	28.6 28.7	28.6	8.1 8.1	8.1	24.6	24.6	96.8	97.0	6.6 6.5	6.6	6.6	9.1 9.3	9.2		2.8	2.7	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samplii	ng	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:35		Surface	1.0	28.7 28.7	28.7	8.5 8.4	8.5	27.6 28.2	27.9	132.5 140.5	136.5	8.9 9.3	9.1	9.1	10.0 10.3	10.2		7.3 7.0	7.2	
				3.5	Middle	-	-	-		-	-	-	-	-	1 1	-	5.1	-	-	10.3	-	-	7.7
					Bottom	2.5	27.2 28.6	27.9	8.4 8.5	8.4	30.6 28.9	29.7	130.7 131.1	130.9	8.6 8.6	8.6	8.6	10.2 10.4	10.3		8.2 8.2	8.2	
26-Aug-15	Sunny	Moderate	16:43		Surface	1.0	27.8 27.9	27.8	8.3 8.3	8.3	29.9 29.9	29.9	88.4 86.8	87.6	5.9 5.8	5.8	5.8	9.7 9.3	9.5		6.7 6.9	6.8	
				3.7	Middle	-	-	-		-	-	-	-	-		-	0.0	-	-	9.6	-	-	6.9
					Bottom	2.7	27.6 27.6	27.6	8.3 8.3	8.3	31.5 31.6	31.5	95.1 88.8	92.0	6.3 5.9	6.1	6.1	9.6 9.7	9.7		6.7 7.0	6.9	
28-Aug-15	Sunny	Moderate	17:36		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	30.6 30.5	30.6	97.8 97.0	97.4	6.5 6.5	6.5	6.5	9.7 9.5	9.6		1.7 1.7	1.7	
				3.3	Middle	-	-	-		-	-	-	-	-	1 1	-	0.5	-	-	9.7	-	-	1.9
					Bottom	2.3	27.7 27.9	27.8	8.3 8.3	8.3	30.8 30.5	30.7	96.5 97.4	97.0	6.4 6.5	6.5	6.5	9.7 9.7	9.7		2.1 2.1	2.1	
31-Aug-15	Cloudy	Moderate	07:34		Surface	1.0	27.1 27.0	27.1	8.1 8.1	8.1	29.8 29.9	29.8	88.7 89.8	89.3	6.0 6.1	6.1	6.1	6.9 6.9	6.9		5.7 5.7	5.7	
				3.3	Middle	-	-	-		-	-	-	-	-		-	0.1	-	-	7.0	-	-	5.9
					Bottom	2.3	27.1 27.0	27.0	8.1 8.1	8.1	29.8 30.1	29.9	87.6 88.3	88.0	6.0 6.0	6.0	6.0	6.9 7.0	7.0		5.9 6.1	6.0	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Ti	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*
3-Aug-15	Sunny	Moderate	14:40		Surface	1.0	26.8 26.8	26.8	7.8 7.8	7.8	18.7 18.7	18.7	75.6 77.4	76.5	5.4 5.5	5.5		8.6 9.0	8.8		5.7 6.1	5.9	1
				10.4	Middle	5.2	25.0 25.0	25.0	7.8 7.8	7.8	23.7	23.7	73.6	73.3	5.3	5.3	5.4	8.9 10.4	9.7	9.8	6.8	6.7	6.6
					Bottom	9.4	25.0	24.9	7.8	7.8	23.9	24.3	73.0 76.4	76.1	5.3 5.5	5.5	5.5	10.6	10.9		6.5 6.4	7.2	1
5-Aug-15	Sunny	Moderate	16:07				24.9 26.6		7.8 7.9		24.7		75.7 80.3		5.5 5.7			11.2 3.2			7.9 7.7		
3-Aug-13	Guilly	Woderate	10.07		Surface	1.0	26.6	26.6	7.9	7.9	21.3	21.3	79.2	79.8	5.6	5.7	5.7	3.3	3.3		8.5	8.1	ł
				10.7	Middle	5.4	26.4 26.3	26.4	7.9 7.9	7.9	22.0 22.0	22.0	77.1 78.9	78.0	5.5 5.6	5.6		3.2 3.1	3.2	3.3	8.1 7.4	7.8	7.1
					Bottom	9.7	25.0 26.1	25.6	7.8 7.9	7.9	25.4 23.8	24.6	74.6 78.1	76.4	5.3 5.6	5.4	5.4	3.2 3.3	3.3		5.0 5.7	5.4	
7-Aug-15	Sunny	Moderate	18:16		Surface	1.0	28.4 28.3	28.4	8.0 8.0	8.0	13.9 14.2	14.0	82.0 86.9	84.5	5.9 6.3	6.1		2.6 2.5	2.6		2.9 2.2	2.6	1
				10.5	Middle	5.3	26.0 24.5	25.3	7.9 7.9	7.9	24.7	25.0	75.2	73.8	5.4 5.2	5.3	5.7	2.8	2.8	2.7	3.1	3.1	3.3
					Bottom	9.5	24.0	24.1	7.9	7.9	25.3 29.2	28.9	72.4 72.4	72.3	5.1	5.1	5.1	2.8	2.8		3.0 4.4	4.1	
10-Aug-15	Cloudy	Moderate	09:30				24.2 26.7		7.9 7.9		28.6 14.7		72.1 115.1		5.1 8.3			2.8 1.6			3.8 5.9		<u> </u>
	•				Surface	1.0	26.8 26.4	26.7	7.9 7.9	7.9	14.3 18.1	14.5	116.2 113.8	115.7	8.4 8.2	8.3	8.3	1.5 1.7	1.6		5.7 6.3	5.8	
				10.3	Middle	5.2	26.3	26.4	7.8	7.8	19.3	18.7	113.1	113.5	8.2	8.2		1.8	1.8	1.8	6.3	6.3	6.2
					Bottom	9.3	26.6 26.3	26.5	7.9 7.8	7.9	19.2 19.5	19.3	107.9 108.8	108.4	7.8 7.9	7.8	7.8	1.9 2.0	2.0		6.6 6.3	6.5	
12-Aug-15	Sunny	Moderate	11:09		Surface	1.0	26.4 24.6	25.5	8.0 7.8	7.9	20.3 23.6	21.9	131.0 134.6	132.8	9.4 9.9	9.6	9.4	2.8 2.7	2.8		5.8 5.4	5.6	
				9.7	Middle	4.9	24.6 26.4	25.5	7.8 7.9	7.9	20.2 20.4	20.3	124.4 128.0	126.2	9.0 9.3	9.1	9.4	3.1 3.2	3.2	3.2	6.2 4.7	5.5	5.3
					Bottom	8.7	26.4 26.4	26.4	7.9 8.0	8.0	20.6	20.5	119.5 117.8	118.7	8.6 8.5	8.6	8.6	3.4 3.6	3.5		5.1 4.7	4.9	
14-Aug-15	Cloudy	Moderate	12:43		Surface	1.0	25.8	25.7	8.1	8.1	20.6	20.9	89.3	88.6	6.5	6.4		5.4	5.3		5.6	5.9	
							25.7 25.1		8.1 8.1		21.1 24.8		87.8 85.6		6.4		6.3	5.1 8.8			6.1		
				10.5	Middle	5.3	25.1 25.1	25.1	8.0 8.1	8.1	24.9 24.9	24.9	85.9 87.3	85.8	6.2	6.1		8.6 7.4	8.7	7.2	6.1	6.2	6.2
					Bottom	9.5	25.1	25.1	8.0	8.1	24.9	24.9	88.1	87.7	6.3	6.3	6.3	7.8	7.6		6.6	6.6	
17-Aug-15	Sunny	Moderate	14:25		Surface	1.0	25.3 25.3	25.3	7.9 7.9	7.9	22.6 22.5	22.6	73.3 72.5	72.9	5.3 5.2	5.3	5.2	6.9 7.0	7.0		4.9 5.4	5.2	
				10.5	Middle	5.3	24.7 24.6	24.7	7.9 7.9	7.9	23.8 23.8	23.8	70.4 70.5	70.5	5.1 5.1	5.1	5.2	6.9 6.9	6.9	6.9	6.2 6.8	6.5	6.3
					Bottom	9.5	24.5 24.6	24.5	7.9 7.9	7.9	25.2 25.0	25.1	68.5 68.7	68.6	5.0 5.0	5.0	5.0	6.9	6.9		6.8 7.8	7.3	
19-Aug-15	Sunny	Moderate	15:23		Surface	1.0	27.5	27.5	7.9	7.9	16.3	16.3	83.2	83.2	6.1	6.1		2.3	2.4		1.4	1.5	
				10.1	Middle	5.1	27.4 27.2	26.8	7.9 7.9	7.9	16.2 16.8	17.0	83.1 75.4	75.9	6.0 5.5	5.4	5.8	2.4	2.6	2.6	1.5 1.5	1.5	1.9
				10.1			26.4 25.4		7.9 7.8	-	17.1 22.4		76.3 73.0		5.4 5.3			2.5 2.8		2.0	1.5 2.1		1.9
24 Aug 45	C	Madaats	40.22		Bottom	9.1	25.4	25.4	7.8	7.8	22.6	22.5	72.9	73.0	5.3	5.3	5.3	2.9	2.9		3.4	2.8	
21-Aug-15	Sunny	Moderate	16:33		Surface	1.0	27.0 27.0	27.0	8.0	8.0	18.8 18.9	18.8	86.6 87.2	86.9	6.2 6.3	6.2	6.2	2.5	2.6		2.5 2.5	2.5	
				10.6	Middle	5.3	24.5 23.6	24.1	7.9 7.9	7.9	27.3 28.2	27.7	86.8 84.5	85.7	6.2 6.0	6.1		2.6 2.6	2.6	2.6	2.9 2.1	2.5	2.5
					Bottom	9.6	23.6 23.4	23.5	7.9 7.9	7.9	28.6 28.8	28.7	79.6 73.1	76.4	5.7 5.3	5.5	5.5	2.5 2.6	2.6		2.6	2.4	
<u> </u>							20.7		1.0	·	20.0		10.1		0.0	1		2.0				1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling) Te	nperature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ı) Va	ue Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
24-Aug-15	Sunny	Moderate	07:58		Surface	1.0 26		8.1 8.1	8.1	21.1 20.6	20.8	108.3 103.3	105.8	7.7 7.4	7.6	7.1	1.4 1.5	1.5		3.6 3.7	3.7	
				10.4	Middle	5.2 23	23.0	7.8 7.9	7.9	31.2 31.4	31.3	90.6 93.5	92.1	6.5 6.8	6.6	7.1	2.0 2.2	2.1	2.3	2.0 3.4	2.7	3.7
					Bottom	9.4 22		7.7 8.0	7.8	31.3 31.2	31.2	73.1 78.7	75.9	5.2 5.6	5.4	5.4	3.3 3.3	3.3		5.0 4.5	4.8	
26-Aug-15	Sunny	Moderate	09:57		Surface	1.0 24	24 /	8.1 8.1	8.1	26.8 27.1	26.9	92.8 95.9	94.4	6.6 6.8	6.7	6.5	2.3 2.1	2.2		4.5 4.0	4.3	
				10.7	Middle	5.4 23		8.0 8.0	8.0	30.1 29.6	29.8	88.0 84.7	86.4	6.3 6.1	6.2	0.5	4.2 4.5	4.4	4.3	5.8 5.0	5.4	5.0
					Bottom	9.7 23		8.1 8.0	8.0	29.8 31.3	30.6	73.8 74.7	74.3	5.3 5.3	5.3	5.3	6.1 6.2	6.2		5.6 5.1	5.4	
28-Aug-15	Rainy	Moderate	11:50		Surface	1.0 25	25.4	8.0 8.0	8.0	26.3 26.3	26.3	91.5 94.0	92.8	6.5 6.6	6.6	6.6	3.1 3.1	3.1		2.1 2.5	2.3	
				10.5	Middle	5.3 24	24 /	8.0 8.0	8.0	28.0 27.7	27.9	88.5 94.0	91.3	6.3 6.6	6.5	0.0	3.3 3.3	3.3	3.2	2.7 2.4	2.6	2.5
					Bottom	9.5	24 /	8.0 8.0	8.0	28.3 28.5	28.4	90.5 86.6	88.6	6.4 6.1	6.3	6.3	3.3 3.2	3.3		3.2 2.1	2.7	
31-Aug-15	Cloudy	Moderate	13:40		Surface	1.0 24	24.6	7.9 7.9	7.9	27.7 27.6	27.7	78.5 78.2	78.4	5.6 5.5	5.6	5.5	9.9 9.7	9.8		10.6 11.4	11.0	
				10.0	Middle	5.0 24	24.2	7.9 7.9	7.9	28.1 28.1	28.1	76.3 75.4	75.9	5.4 5.3	5.4	5.5	10.0 10.1	10.1	10.1	11.0 10.0	10.5	11.9
					Bottom	9.0 24	24.4	7.9 7.9	7.9	29.2 27.7	28.5	73.7 74.0	73.9	5.2 5.2	5.2	5.2	10.4 10.3	10.4		14.4 14.2	14.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Surry Moderne 10.26 Surry Moderne 10.26 Surry Moderne 10.26 Surry Moderne 10.26 Surry Moderne 10.26 Surry Moderne 10.27 Surry Moderne 10.27 Surry Moderne 10.28 Surry Surry Moderne 10.28 Surry Surry Surry Moderne 10.28 Surry Su	Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	Ti	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
10.6 Mode 5.0 24.1 24.5 7.8 7.8 24.2 24.7 7.8 7.8 24.8 24.8 7.					Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average		Average	Value	Average	DA*	Value	Average	DA*		Average	DA*
10.0 Moderno 10.0	3-Aug-15	Sunny	Moderate	08:27		Surface	1.0		25.1		7.8		22.1		75.7		5.5			11.6			20.3	l
Sumy Moderate 10.39 Surface 10.39 Surface 10.39 Surface 10.39 Surface 10.39 Surface 10.30 Su					10.6	Middle	5.3	24.8	24.8	7.8	7.8	23.7	23.7	77.5	75.7	5.6	5.5	5.5	13.8	13.6	13.3	21.6	21.7	20.9
Surface 10 200 22 283 78 78 78 10 200 10 200 200 200 10 200 200 200 10 200 20						Bottom	9.6	24.9	24.8	7.8	7.8	23.8	23.8	75.8	74.6	5.5	5.4	5.4	14.7	14.6		20.7	20.8	
Summy Moderate 19.97 Mod	5 Aug 15	Suppy	Moderate	10:20																				
Note Fig. Surrey Moderate 12.51 Surrey Moder	3-Aug-13	Sullily	ivioderate	10.39		Surface	1.0	26.2	26.3	7.8	7.8	19.4	19.2	78.3	78.4	5.7	5.7	5.5	5.2	5.4		3.9	3.4	<u> </u>
T-Aug-15 Sunny Moderate 1251 Sunny Moderate 1251 Sunny Moderate 1251 Sunny Moderate 1251 Sunny Moderate 1251 Sunny Moderate 1251 Sunny Moderate 17.40 Sunny Moderate 17.40 Sunny Moderate 17.40 Sunny Moderate 17.40 Sunny Moderate 17.40 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 19.07 Sunny Moderate 10.6 Sunny Moderate 10.6 Sunny Moderate 10.6 Sunny Moderate 10.6 Sunny Moderate 10.6 Sunny Moderate 10.6 Sunny Moderate					10.9	Middle	5.5	24.9	24.8	7.8	7.8	25.2	25.4	75.8	72.7	5.5	5.3		5.6	5.6	5.5	4.3	3.9	3.9
Surface 1.0 26.7 26.7 8.0 8.0 19.4 18.9 81.1 82.0 5.9 5.0 5.6 3.8 5.9 2.5 2.5 2.7						Bottom	9.9		24.7		7.8		26.0		70.2		5.1	5.1		5.6			4.3	ľ
10.6 Mode 5.3 24.5 24.5 7.9 7.9 7.7 27.7 77.6 72.7 74.6 5.3 5.2 5.0 3.8 3.8 3.8 3.9 2.5 2.5 2.5	7-Aug-15	Sunny	Moderate	12:51		Surface	1.0		26.7		8.0		18.9		82.0		5.9		-	3.9			2.1	
Bottom 8.6 24.4 24.4 7.9 7.9 28.1 28.1 68.1 68.5 4.9 5.0 5.0 3.9 3.9 3.5 3.4					10.6	Middle	5.3	24.5	24.5	7.9	7.9	27.7	27.7	74.6	72.4	5.3	5.2	5.6	3.8	3.8	3.9	2.5	2.5	2.7
10-Aug-15						Bottom	9.6	24.3	24.4	7.9	7.9	28.1	28.1	68.1	69.5	4.9	5.0	5.0	3.9	3.9		3.2	3.4	1
Surface 10 26.8 26.5 7.9 7.9 7.9 14.3 18.5 130.6 121.7 9.1 9.0 9.1 22 2.5 2.6 2.6 3.5 4.0 4.5	10-Aug-15	Cloudy	Moderate	17:49															0.0					
Note 10.5 Note 10.5		,						26.8		7.9		14.3		130.4		9.2		9.1	2.2			5.4		<u> </u>
12-Aug-15 Surmy Moderate 19:07 Surface 1.0 27.7 27.5 7.9 7.9 19.0 19.2 1241 1230 9.0 8.8 8.8 8.0 2.8 2.9 4.2 4.3					10.3	Middle	5.2	26.0	26.1	7.9	7.9	18.8	18.5	122.8	121.7	9.1	9.0		2.6	2.6	2.6	3.5	4.0	4.5
Surface 10 27.7 27.3 7.9 7.9 19.0 18.2 121.9 12.50 8.8 6.9 2.3 2.4 5.0 5.5						Bottom	9.3		25.4		8.0		27.2		107.2		7.8	7.8		2.9			4.3	
Part	12-Aug-15	Sunny	Moderate	19:07		Surface	1.0		27.5		7.9	-	19.2		123.0		8.9	0.6		2.4			5.0	
Bottom 8.9 26.0 Bottom 8.9 26.0 25.2 25.2 8.1 8.1 23.4 23.5 87.2 23.6 109.5 7.8 7.9 7.9 2.9 2.9 2.9 6.2 6.5					9.9	Middle	5.0		25.8		7.9		20.9		115.4		8.3	0.0		2.6	2.6		5.1	5.5
14-Aug-15						Bottom	8.9	26.0	25.7	8.0	7.9	23.1	23.6	109.5	108.7	7.9	7.9	7.9	2.8	2.9		6.2	6.5	1
10.3 Middle 5.2 24.5 2	14-Aug-15	Cloudy	Moderate	05:49		Surface	1.0		25.2		8.1		23.5		86.8		63			46			7.8	
10.5 Middle 5.2 24.5 24.5 8.0 8.0 26.7 26.7 86.5 85.5 85.9 6.1 6.0 6.6 6.0 6.6 6.3 7.9					10.0	-												6.2						
17-Aug-15 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 07:57 Sunny Moderate 09:25 Sunny Moderate 09:25 Sunny Moderate 09:25 Sunny Moderate 09:25 Sunny Moderate 09:25 Sunny Moderate 09:25 Sunny Moderate 10:53 Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny					10.3			24.5		8.1		26.3		84.3		6.1			6.6		5.9	7.9		7.9
10.6 10.6 10.6 25.0 24.9 7.9 7.9 22.8 22.7 77.2 76.9 5.6 5.5 5.5 8.7 8.7 8.7 8.6 6.6 6.3 6.4 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.4 6.5						Bottom	9.3	24.6	24.5	8.0	8.0	26.7	26.7	86.3	85.9	6.2	6.2	6.2	6.3	6.4		7.9	7.9	
10.6 Middle 5.3 24.3 7.9 7.9 7.9 25.0 25.1 75.8 75.2 5.5 5.4 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	17-Aug-15	Sunny	Moderate	07:57		Surface	1.0		24.9		7.9		22.7		76.9		5.6	5.5		8.7			6.3	
Bottom 9.6 24.2 24.2 7.9 7.9 7.9 26.1 26.1 74.1 74.2 5.4 5.4 5.4 8.6 8.6 7.3 7.3 7.3 19-Aug-15					10.6	Middle	5.3		24.3		7.9		25.1		75.2		5.4	5.5		8.6	8.6		5.5	6.4
19-Aug-15 Sunny Moderate 09:25						Bottom	9.6	24.2	24.2	7.9	7.9	26.1	26.1	74.1	74.2	5.4	5.4	5.4	8.6	8.6		7.3	7.3	1
10.3 Middle 5.2 23.9 24.3 7.8 7.8 25.8 78.9 78.6 5.6 5.6 5.6 5.6 3.1 3.2 3.2 3.2 3.8 4.2 2.9 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	19-Aug-15	Sunny	Moderate	09:25		Surface	1.0	25.3	25.3	7.8	7.9	23.9	23.5	83.8	82.8	6.0	6.0		2.8	2.9		4.2	3.5	
Sunny Moderate 10:53 Sufface 1.0 26.3 26.4 24.0 7.9 7.9 26.9 27.7 72.8 73.7 5.4 5.5 5.6 5.					10.2	-												5.8			2.2			4.2
21-Aug-15 Sunny Moderate 10:53 Surface 1.0 26.3 26.3 8.0 8.0 19.4 19.5 76.3 77.2 76.8 5.5 5.5 5.5 5.5 5.5 5.6 5.6 5.6 5.6 5.6					10.3																3.2			4.2
11.2 Surface 1.0 26.2 26.3 8.0 6.0 19.6 19.5 77.2 76.8 5.6 5.5 5.5 5.5 2.6 2.5 2.4 2.4 11.2 Middle 5.6 23.7 24.0 7.9 7.9 27.7 27.3 74.5 73.7 5.4 5.5 5.6 5.6 5.6 5.6 2.3 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	21 Aug 15	Suppy	Moderate	10:52				24.0		7.8		29.1		75.1		5.4		5.3	3.4			5.0		
11.2 Middle 5.6 24.3 24.0 7.9 7.9 26.9 27.3 72.8 73.7 5.2 5.3 5.6 5.6 5.6 2.5 2.4 2.4 8.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	21-Aug-15	Suring	Woderate	10.55		Surface	1.0	26.2	26.3	8.0	8.0	19.6	19.5	77.2	76.8	5.6	5.5	5.4	5.5	5.5		2.6	2.5	_
					11.2	Middle	5.6	24.3	24.0	7.9	7.9	26.9	27.3	72.8	73.7	5.2	5.3		5.6	5.6	5.6	2.5	2.4	2.4
ıı ı ı ı ı l l l 23./ l l 7.9 l l 28.2 l l 70.8 l l 5.1 l l 5.7 l l l 23.1 l						Bottom	10.2	23.4 23.7	23.6	7.9 7.9	7.9	28.7 28.2	28.5	70.8 70.8	70.8	5.1 5.1	5.1	5.1	5.5 5.7	5.6		2.2	2.3	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Temperat	ture (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	1)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
24-Aug-15	Sunny	Moderate	15:23		Surface		27.1 27.1	27.1	8.2 8.3	8.3	21.9 22.0	22.0	102.9 113.3	108.1	7.2 8.0	7.6	7.0	3.4 3.2	3.3		4.2 4.0	4.1	
				10.6	Middle	531	23.2 23.1	23.1	8.0 8.0	8.0	30.8 31.1	31.0	89.8 86.9	88.4	6.4 6.2	6.3	7.0	4.5 4.8	4.7	4.3	3.7 3.8	3.8	4.1
					Bottom	9.6	22.9 23.1	23.0	8.0 8.0	8.0	31.5 31.2	31.3	103.3 95.0	99.2	7.4 6.8	7.1	7.1	4.9 4.9	4.9		3.6 5.4	4.5	
26-Aug-15	Sunny	Moderate	17:24		Surface		24.9 25.1	25.0	8.1 8.2	8.2	26.7 26.7	26.7	100.5 105.6	103.1	7.1 7.5	7.3	7.1	2.3 2.2	2.3		5.7 5.2	5.5	
				10.5	Middle		24.2 24.2	24.2	8.1 8.1	8.1	29.3 29.3	29.3	98.2 96.8	97.5	7.0 6.9	6.9	7.1	2.2 2.3	2.3	2.4	6.1 6.2	6.2	6.0
					Bottom	95	24.3 24.5	24.4	8.1 8.1	8.1	29.3 29.1	29.2	101.8 101.6	101.7	7.2 7.2	7.2	7.2	2.8 2.6	2.7		6.6 6.1	6.4	
28-Aug-15	Sunny	Moderate	18:28		Surface	1.0	25.5 25.4	25.4	8.0 8.0	8.0	26.7 26.8	26.7	95.4 95.6	95.5	6.7 6.7	6.7	6.7	5.9 6.1	6.0		13.9 13.3	13.6	
				10.9	Middle		24.9 25.0	24.9	8.0 8.0	8.0	28.5 28.6	28.5	93.7 95.1	94.4	6.6 6.7	6.7	0.7	5.9 5.9	5.9	5.9	13.1 12.1	12.6	13.3
					Bottom	991	24.8 25.0	24.9	8.0 8.0	8.0	29.1 28.8	29.0	92.5 92.0	92.3	6.5 6.5	6.5	6.5	5.9 5.8	5.9		13.7 13.8	13.8	
31-Aug-15	Cloudy	Moderate	07:40		Surface	1()	24.6 24.5	24.5	7.9 7.9	7.9	28.2 28.4	28.3	77.5 78.5	78.0	5.5 5.6	5.5	5.5	10.6 10.7	10.7		17.9 17.3	17.6	
				10.1	Middle		24.4 24.5	24.5	7.9 7.9	7.9	28.7 28.5	28.6	76.7 75.8	76.3	5.4 5.4	5.4	5.5	10.8 10.8	10.8	10.9	17.1 16.1	16.6	17.5
					Bottom	91	24.5 24.5	24.5	7.9 7.9	7.9	28.5 28.5	28.5	74.3 73.9	74.1	5.3 5.2	5.2	5.2	11.0 11.1	11.1		18.7 17.8	18.3	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(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*
3-Aug-15	Sunny	Moderate	14:49		Surface	1.0	26.2 25.6	25.9	7.8 7.8	7.8	20.1 20.2	20.1	79.9 79.3	79.6	5.8 5.7	5.7		5.8 6.0	5.9		8.9 9.7	9.3	
				10.7	Middle	5.4	24.9 24.8	24.9	7.8 7.8	7.8	24.2 24.2	24.2	78.8 74.8	76.8	5.7 5.4	5.6	5.7	6.6 6.9	6.8	7.0	8.9 8.8	8.9	9.5
					Bottom	9.7	24.9 24.9	24.9	7.8 7.8	7.8	24.2 24.3 24.2	24.2	75.0 75.2	75.1	5.5 5.5	5.5	5.5	8.5 8.1	8.3		10.2	10.4	İ
5-Aug-15	Sunny	Moderate	16:17		Surface	1.0	26.7	26.7	7.8	7.9	21.2	21.2	80.6	81.2	5.7	5.8		2.6	2.7		6.6	6.9	
							26.7 26.6		7.9 7.9	-	21.2 21.6		81.7 79.8		5.8 5.7		5.7	2.7			7.1 6.8		
				9.9	Middle	5.0	26.5 26.0	26.5	7.9 7.9	7.9	21.8 22.5	21.7	78.3 78.0	79.1	5.6 5.6	5.6		2.7 2.7	2.7	2.7	8.3 7.8	7.6	7.6
7.045	0	Malaria	40.05		Bottom	8.9	26.1	26.1	7.9	7.9	22.4	22.5	78.3	78.2	5.6	5.6	5.6	2.8	2.8		8.7	8.3	
7-Aug-15	Sunny	Moderate	18:25		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	15.7 15.9	15.8	82.3 87.2	84.8	5.9 6.3	6.1	5.8	2.5 2.4	2.5		3.0 3.2	3.1	
				10.2	Middle	5.1	25.8 25.0	25.4	7.9 7.9	7.9	25.7 27.1	26.4	79.9 73.9	76.9	5.7 5.3	5.5		2.6 2.5	2.6	2.6	3.7 3.8	3.8	3.7
					Bottom	9.2	24.2 24.1	24.2	7.9 7.9	7.9	28.7 28.7	28.7	75.0 72.0	73.5	5.3 5.1	5.2	5.2	2.6 2.5	2.6		3.7 4.5	4.1	Ì
10-Aug-15	Cloudy	Moderate	09:16		Surface	1.0	26.7 26.7	26.7	7.9 7.9	7.9	15.3 15.4	15.4	114.4 113.7	114.1	8.4 8.1	8.3		1.2 1.1	1.2		5.9 5.4	5.7	
				10.2	Middle	5.1	26.3 26.3	26.3	7.9 7.9	7.9	18.3 17.7	18.0	113.3 112.3	112.8	8.3 8.3	8.3	8.3	1.3	1.3	1.3	5.4 5.9	5.7	6.1
					Bottom	9.2	26.2 26.3	26.2	7.9 7.9	7.9	21.0	21.3	107.7 109.7	108.7	7.7 8.0	7.9	7.9	1.4	1.4		7.1 6.4	6.8	İ
12-Aug-15	Sunny	Moderate	11:00		Surface	1.0	26.8	26.7	7.9	7.9	20.0	20.1	137.2	137.9	9.8	9.9		1.2	1.2		3.5	3.5	
				9.9	Middle	5.0	26.5 25.2	25.7	7.9 7.9	7.9	20.2 21.8	21.3	138.5 123.6	125.2	10.1 8.8	8.9	9.4	1.1	1.3	1.3	3.5 6.0	5.9	5.3
				0.0	Bottom	8.9	26.1 26.1	25.7	8.0 8.0	7.9	20.7	22.2	126.7 117.5	117.7	9.1 8.5	8.5	8.5	1.2 1.4	1.5		5.8 7.1	6.6	0.0
14-Aug-15	Cloudy	Moderate	12:53				25.2 25.7		7.9 8.1		23.5 21.4		117.9 91.1		8.5 6.6		0.5	1.5 1.4			6.0 5.4		<u> </u>
	,				Surface	1.0	25.9 25.1	25.8	8.1 8.1	8.1	20.6	21.0	97.3 88.2	94.2	7.0	6.8	6.6	1.5	1.5		4.6	5.0	l
				10.6	Middle	5.3	25.2	25.1	8.1	8.1	24.5	24.7	89.3	88.8	6.4	6.4		3.7	3.5	2.9	4.9	5.5	5.5
					Bottom	9.6	25.2 25.0	25.1	8.1 8.0	8.1	25.5 25.1	25.3	94.8 92.8	93.8	6.8 6.6	6.7	6.7	3.6 4.0	3.8		6.0	5.9	
17-Aug-15	Sunny	Moderate	14:35		Surface	1.0	25.4 25.3	25.4	7.9 7.9	7.9	22.1 22.2	22.2	73.5 74.5	74.0	5.3 5.4	5.4	5.3	6.7 6.5	6.6		7.0 7.2	7.1	
				10.3	Middle	5.2	24.5 24.5	24.5	7.9 7.9	7.9	24.2 24.2	24.2	74.0 69.6	71.8	5.4 5.0	5.2	0.0	6.7 6.7	6.7	6.7	5.9 6.7	6.3	7.1
					Bottom	9.3	24.1 24.1	24.1	7.9 7.9	7.9	26.3 26.1	26.2	70.5 67.4	69.0	5.1 4.9	5.0	5.0	6.7 6.8	6.8		8.5 7.2	7.9	Ì
19-Aug-15	Sunny	Moderate	15:32		Surface	1.0	26.9 26.8	26.8	7.9 7.9	7.9	17.4 17.4	17.4	83.7 83.8	83.8	6.0 6.1	6.1		2.3	2.3		1.9	1.8	
				10.2	Middle	5.1	25.7	25.8	7.8	7.8	20.3	19.6	81.7	81.8	5.9	5.9	6.0	2.4	2.5	2.5	2.6	2.8	2.5
					Bottom	9.2	25.8 25.6	25.7	7.8 7.8	7.8	18.9 22.1	21.7	81.8 79.8	79.7	6.0 5.8	5.8	5.8	2.5	2.7		2.9	2.9	
21-Aug-15	Sunny	Moderate	16:41	<u> </u>	Surface	1.0	25.8 27.1	27.1	7.8 8.0	8.0	21.2 19.2	19.3	79.5 92.0	91.5	5.8 6.6	6.5		2.6	2.1		3.5 1.4	1.5	
				40.2			27.1 25.5		8.0 7.9		19.3 23.4		90.9 86.5		6.5 6.2		6.3	2.1		0.0	1.5 2.2		2.2
				10.3	Middle	5.2	25.3 23.6	25.4	7.9 7.9	7.9	24.2	23.8	83.5 80.9	85.0	6.0 5.8	6.1		2.1 2.3	2.2	2.2	3.1 2.9	2.7	2.3
					Bottom	9.3	23.6	23.6	7.9	7.9	28.8	28.8	81.3	81.1	5.8	5.8	5.8	2.2	2.3		2.3	2.6	<u>i </u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	07:50		Surface	1.0	26.4 26.4	26.4	8.2 8.2	8.2	22.5 21.9	22.2	110.2 114.0	112.1	7.8 8.1	8.0	7.8	2.4 2.2	2.3		3.4 3.0	3.2	
				10.4	Middle	5.2	23.6 23.3	23.5	8.0 8.0	8.0	30.4 30.7	30.5	100.4 109.0	104.7	7.2 7.8	7.5	7.0	2.5 2.8	2.7	3.5	3.4 2.0	2.7	2.9
					Bottom	9.4	23.4 23.6	23.5	8.0 8.1	8.1	30.5 30.5	30.5	97.9 93.5	95.7	7.0 6.9	7.0	7.0	5.3 5.5	5.4		2.4 3.1	2.8	
26-Aug-15	Sunny	Moderate	09:46		Surface	1.0	24.7 24.8	24.8	8.1 8.1	8.1	27.1 26.6	26.8	91.4 83.8	87.6	6.5 6.0	6.2	6.2	3.1 3.4	3.3		4.9 4.0	4.5	
				10.5	Middle	5.3	23.2 23.2	23.2	8.0 8.0	8.0	31.6 31.6	31.6	88.4 82.3	85.4	6.3 5.9	6.1	0.2	5.3 5.3	5.3	4.6	5.0 5.8	5.4	4.9
					Bottom	9.5	23.1 22.9	23.0	8.0 8.0	8.0	32.2 32.4	32.3	80.6 78.7	79.7	5.7 5.6	5.7	5.7	5.0 5.5	5.3		4.7 4.9	4.8	
28-Aug-15	Rainy	Moderate	11:38		Surface	1.0	24.6 24.8	24.7	7.9 7.9	7.9	27.5 27.3	27.4	81.9 81.8	81.9	5.8 5.8	5.8	5.8	6.9 7.1	7.0		2.8 2.0	2.4	
				10.8	Middle	5.4	24.1 24.1	24.1	7.9 7.9	7.9	29.8 29.9	29.8	80.7 80.1	80.4	5.7 5.7	5.7	3.0	6.9 6.8	6.9	7.0	3.8 2.0	2.9	2.6
					Bottom	9.8	24.0 24.2	24.1	7.9 7.9	7.9	30.3 29.9	30.1	78.3 77.9	78.1	5.6 5.5	5.5	5.5	7.1 6.9	7.0		2.2 2.7	2.5	
31-Aug-15	Cloudy	Moderate	13:54		Surface	1.0	24.2 24.5	24.3	7.9 7.9	7.9	27.7 27.7	27.7	78.5 77.7	78.1	5.6 5.5	5.5	5.5	9.7 9.6	9.7		10.2 9.9	10.1	
				10.1	Middle	5.1	24.0 24.2	24.1	7.9 7.9	7.9	29.1 28.2	28.6	76.0 76.1	76.1	5.4 5.4	5.4	5.5	9.8 9.8	9.8	9.9	10.2 9.7	10.0	10.3
					Bottom	9.1	24.1 24.3	24.2	7.9 7.9	7.9	28.5 28.9	28.7	74.6 74.0	74.3	5.3 5.2	5.3	5.3	10.0 10.1	10.1		11.0 10.3	10.7	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	Ti	urbidity(NT	U)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	08:20		Surface	1.0	25.4 25.4	25.4	7.8 7.8	7.8	21.0 20.9	21.0	74.9 75.7	75.3	5.5 5.5	5.5		3.8 3.5	3.7		6.2 6.2	6.2	
				10.6	Middle	5.3	24.8	24.8	7.8	7.8	23.7	23.7	72.8	72.7	5.3	5.3	5.4	4.4	4.2	4.6	5.6	6.2	6.8
					Bottom	9.6	24.8 24.6	24.7	7.8 7.8	7.8	23.7 24.4	24.2	72.5 74.9	74.5	5.3 5.4	5.4	5.4	4.0 5.6	5.9		6.7 8.7	8.0	
E Aug 1E	Sunny	Moderate	10:25				24.8 25.8		7.8 7.8		24.1 21.2		74.0 74.5		5.4 5.4			6.1 5.5			7.2 8.1		
5-Aug-15	Suriny	ivioderate	10.25		Surface	1.0	25.8	25.8	7.8	7.8	20.9	21.1	73.8	74.2	5.4	5.4	5.4	5.4	5.5		9.3	8.7	
				10.5	Middle	5.3	25.3 25.3	25.3	7.8 7.8	7.8	23.8 23.9	23.8	73.1 72.5	72.8	5.3 5.3	5.3		5.4 5.5	5.5	5.5	10.1 9.9	10.0	10.4
					Bottom	9.5	25.3 25.1	25.2	7.8 7.8	7.8	24.1 25.5	24.8	71.7 72.3	72.0	5.2 5.2	5.2	5.2	5.4 5.6	5.5		13.1 11.6	12.4	
7-Aug-15	Sunny	Moderate	12:41		Surface	1.0	26.8 26.8	26.8	8.0 8.0	8.0	20.9 21.1	21.0	91.3 89.0	90.2	6.5 6.3	6.4		2.6 2.7	2.7		5.4 5.6	5.5	
				10.8	Middle	5.4	25.4 24.8	25.1	7.9 7.9	7.9	26.4 26.6	26.5	88.5 86.8	87.7	6.3 6.2	6.2	6.3	2.8	2.9	2.8	4.9 5.8	5.4	5.6
					Bottom	9.8	24.6	24.7	7.9	7.9	27.2	27.2	78.7	80.0	5.6	5.7	5.7	2.9	2.9		5.6	6.0	1
10-Aug-15	Cloudy	Moderate	18:01		Surface	1.0	24.7 26.3	26.1	7.9 7.9	7.9	27.2 20.4	20.0	81.2 133.6	132.5	5.7 9.6	9.6		2.8 1.5	1.6		6.3 4.8	4.3	
				40.4			26.0 26.6	_	7.9 7.9		19.5 18.7		131.4 120.8		9.5 8.7		9.3	1.6		4.7	3.7 4.4		4.6
				10.4	Middle	5.2	26.0 26.4	26.3	7.9 7.9	7.9	18.8 18.9	18.7	125.6 117.6	123.2	9.1 8.6	8.9		1.6 1.8	1.7	1.7	4.9 4.3	4.7	4.6
40.045	0	M. I	10.15		Bottom	9.4	26.4	26.4	7.9	7.9	19.9	19.4	117.6	117.6	8.6	8.6	8.6	1.8	1.8		5.4	4.9	
12-Aug-15	Sunny	Moderate	19:15		Surface	1.0	27.0 26.4	26.7	7.9 7.9	7.9	19.9 20.1	20.0	123.9 121.0	122.5	9.0 8.8	8.9	8.8	1.2 1.1	1.2		5.2 5.1	5.2	
				10.0	Middle	5.0	27.2 26.5	26.8	8.0 7.9	7.9	21.6 20.2	20.9	119.2 119.2	119.2	8.6 8.6	8.6	-	1.1 1.2	1.2	1.2	5.2 4.6	4.9	5.0
					Bottom	9.0	26.4 26.9	26.7	7.9 7.9	7.9	21.9 19.8	20.9	111.2 113.0	112.1	8.0 8.2	8.1	8.1	1.3 1.3	1.3		4.1 5.7	4.9	
14-Aug-15	Cloudy	Moderate	05:42		Surface	1.0	25.3	25.3	8.1	8.1	23.1	23.1	87.4	87.3	6.3	6.3		3.8	3.9		6.9	6.9	
				10.4	Middle	5.2	25.3 24.3	24.3	8.1 8.1	8.1	23.0 26.3	26.2	87.1 83.1	83.2	6.3 6.0	6.0	6.2	4.0 5.0	5.0	5.5	6.9	6.5	6.4
					Bottom	9.4	24.4	23.9	8.1 8.0	8.0	26.1 28.2	28.2	83.3 85.2	85.4	6.0 6.1	6.1	6.1	4.9 7.8	7.6		6.7 5.7	5.8	-
17-Aug-15	Sunny	Moderate	07:48				23.9 24.9		8.0 7.9		28.2 23.1		85.5 77.2		6.1 5.6		0.1	7.3 6.5			5.9 6.1		
17-Aug-13	Guilly	Woderate	07.40		Surface	1.0	24.9	24.9	7.9	7.9	23.0	23.1	78.2	77.7	5.7	5.6	5.6	6.4	6.5		5.6	5.9	<u> </u>
				10.6	Middle	5.3	24.3 24.3	24.3	7.9 7.9	7.9	25.4 25.3	25.4	76.5 75.3	75.9	5.5 5.4	5.5		7.8 7.8	7.8	7.3	5.5 5.1	5.3	6.0
					Bottom	9.6	24.3 24.2	24.3	7.9 7.9	7.9	25.8 25.8	25.8	74.5 73.6	74.1	5.4 5.3	5.4	5.4	7.5 7.7	7.6		7.3 6.0	6.7	
19-Aug-15	Sunny	Moderate	09:15		Surface	1.0	25.6 25.8	25.7	7.9 7.9	7.9	22.6 21.8	22.2	78.6 76.3	77.5	5.7 5.4	5.6		2.8 3.0	2.9		2.8 2.5	2.7	
				10.3	Middle	5.2	23.6 24.2	23.9	7.9 7.9	7.9	26.1 24.8	25.5	75.8 74.6	75.2	5.5 5.4	5.4	5.5	3.2	3.3	3.2	2.7	2.8	2.7
					Bottom	9.3	23.5	23.6	7.9 7.8	7.8	29.5 28.4	29.0	72.3 70.8	71.6	5.2	5.2	5.2	3.5 3.4	3.5	1	2.3	2.5	
21-Aug-15	Sunny	Moderate	10:40		Surface	1.0	26.2	26.1	8.0	8.0	19.5	19.7	79.7	78.2	5.8	5.7		3.5	3.6		2.1	2.6	
				11.6	Middle	5.8	26.1 24.2	24.1	7.9	7.9	19.8 27.0	27.0	76.6 74.3	75.6	5.6 5.3	5.4	5.6	3.6 11.3	11.3	8.9	3.1	3.8	3.5
				11.0	Bottom	10.6	24.0 23.6	23.7	7.9 7.9	7.9	27.0 28.1	28.0	76.9 71.1	72.2	5.6 5.1	5.2	5.2	11.2 11.5	11.7	0.0	3.8 4.5	4.0	0.0
					טטווטווו	10.0	23.7	23.1	7.9	7.9	27.9	20.0	73.3	12.2	5.3	5.2	5.2	11.8	11.7		3.4	4.0	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling	Ten	perature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	15:33		Surface	1.0 27. 27.		8.4 8.4	8.4	22.6 22.6	22.6	127.9 126.5	127.2	8.7 8.6	8.6	8.4	2.4 2.6	2.5		3.4 4.3	3.9	
				10.3	Middle 5	5.2 24. 26.	25.4	8.0 8.3	8.1	27.5 25.4	26.4	113.3 112.9	113.1	8.1 8.1	8.1	0.4	2.3 2.5	2.4	3.1	3.8 4.0	3.9	3.7
					Bottom 9	9.3 24. 24.	744	7.9 8.3	8.1	29.0 29.1	29.1	114.6 108.8	111.7	8.1 8.0	8.1	8.1	4.2 4.5	4.4		3.0 3.3	3.2	
26-Aug-15	Sunny	Moderate	17:35		Surface	1.0 25. 24.		8.0 8.1	8.1	26.4 26.5	26.5	96.5 101.6	99.1	6.9 7.2	7.0	6.9	5.5 5.2	5.4		4.4 5.4	4.9	
				10.6	Middle 5	5.3 23. 23.		7.8 8.0	7.9	29.7 29.9	29.8	94.6 96.8	95.7	6.7 6.9	6.8	0.9	6.8 7.1	7.0	6.9	4.5 4.9	4.7	4.6
					Bottom 9	9.6 23. 23.		7.6 8.0	7.8	29.8 30.0	29.9	86.0 92.5	89.3	6.1 6.6	6.4	6.4	8.2 8.3	8.3		3.7 4.9	4.3	
28-Aug-15	Sunny	Moderate	18:39		Surface	1.0 24.	24.8	8.0 8.0	8.0	28.3 28.3	28.3	86.1 84.3	85.2	6.1 6.0	6.0	6.0	5.3 5.4	5.4		2.6 2.4	2.5	
				10.3	Middle 5	5.2 24. 24.	74.4	8.0 8.0	8.0	29.2 29.1	29.1	85.7 83.7	84.7	6.1 5.9	6.0	0.0	5.4 5.4	5.4	5.4	2.7 2.6	2.7	3.2
					Bottom 9	9.3 24. 24.	24.4	8.0 8.0	8.0	29.6 29.1	29.4	85.3 86.0	85.7	6.0 6.1	6.1	6.1	5.3 5.5	5.4		4.0 4.8	4.4	
31-Aug-15	Cloudy	Moderate	07:52		Surface	1.0 24.	1 24.3	7.9 7.9	7.9	28.4 28.6	28.5	79.4 79.5	79.5	5.6 5.6	5.6	5.6	8.9 8.8	8.9		6.6 6.4	6.5	
				10.2	Middle 5	5.1 24. 24.	74.4	7.9 7.9	7.9	28.7 28.7	28.7	78.0 77.4	77.7	5.5 5.5	5.5	5.6	9.1 9.2	9.2	9.2	6.7 6.6	6.7	7.2
					Bottom 9	9.2 24. 24.	24.4	7.9 7.9	7.9	29.0 29.1	29.0	76.8 75.6	76.2	5.4 5.4	5.4	5.4	9.3 9.4	9.4		8.0 8.8	8.4	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

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

Condition Cond	Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	Ti	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
Surrey Moderate 16.10 Surrey Moderate 16.10 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.54 Surrey Moderate 17.55		Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mode 1, Mode 1, 20, 27,	3-Aug-15	Sunny	Moderate	14:42		Surface	1.0		27.7		8.0		25.3		85.4		5.9			8.2			5.5	
Sumy Moderate Sumy Moderate 16:06 Suffice 10 28:05 26:4 8:0 8:0 30; 37:5 30; 78:0 5:0					6.1	Middle	3.1	26.8	26.9	8.0	8.0	27.8	27.6	79.9	82.0	5.5	5.6	5.8	8.1	8.1	8.1	5.9	5.9	5.5
Surrice Surrice 10.04 Surrice 10.04 Surrice 10.02						Bottom	5.1	26.5	26.4		8.0	31.1	30.9	80.7	78.8	5.6	5.5	5.5		8.1		5.3	5.2	1
Summon S	5.045		Martanete	40.00		Dottom	0.1		20.4		0.0		00.0		70.0		0.0	0.0		0.1			0.2	└
Berlan B	5-Aug-15	Sunny	Moderate	16:06		Surface	1.0	28.8	28.8	8.1	8.1	22.8	23.1	80.2	79.4	5.5	5.4	5.4	3.5	3.7		4.3	4.7	
TAUGH Surry Moderate 18:16					6.2	Middle	3.1		28.7		8.1	23.8	23.8	78.0	78.1	5.3	5.3	5	3.6	3.8	3.9	5.7	6.3	5.3
Surface 10 27 28 79 79 28 40 61 62 62 62 63 63 63 64 65 65 65 65 65 65 65						Bottom	5.2		28.6		8.1		24.0		78.2		5.3	5.3		4.1			4.8	
6.3 Middle 3.2 27.5 7.8 7.9 7.9 28.0 27.5 86.5 84.5 5.6 5.7 5.6 5.6 5.7 5.8 3.5 3.5 5.8 5.7	7-Aug-15	Sunny	Moderate	18:16		Surface	1.0		28.3		7.9		26.1		86.5		5.8			3.2			5.5	
Bottom S. 27.7 27.8 7.9 7.9 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.7 27.8 27.8 27.7 27.8 27.8 27.7 27.8 27.7 27.8 27					6.3	Middle	3.2	27.5	27.6	7.8	7.9	28.0	27.5	86.5	84.5	5.8	5.7	5.8	3.4	3.5	3.5	6.9	6.9	6.0
10-Aug-15						Bottom	53	27.7	27.8	7.9	79	28.1	27.9	84.4	85.5	5.7	5.8	5.8	3.8	3.0		5.5	5.7	
Summy Moderate 14:05 Summy Moderate	10-Δυα-15	Cloudy	Moderate	10.29														0.0	0.0					
Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 11:54 Summy Moderate 12:35 Summy Moderate 12:35 Summy Moderate 12:35 Summy Moderate 12:35 Summy Moderate 12:35 Summy Moderate 14:45 Summy Moderate	10 / lag 10	Oloudy	Woderate	10.20		Surface	1.0	28.8	28.8	8.5	8.5	23.7	23.8	122.2	120.9	8.3	8.2	7.9	3.9	3.9		2.8	2.6	'
12-Aug-15 Sunny Moderate 11:54 Sufface 1.0 29.2 28.6 8.3 8.3 27.5 27.4 27.7 28.2 28.6 8.2 28.6 28.2 28.2					6.3	Middle	3.2	28.6	28.5	8.4	8.4	25.3	25.2	113.7	111.3	7.7	7.5		3.8	3.9	3.9	2.1	2.6	2.8
Surface 10 28.9 28.5 8.2 8.2 26.2 26.1 10.5 1						Bottom	5.3		28.1		8.3		27.2		108.8		7.3	7.3		3.9			3.1	
A	12-Aug-15	Sunny	Moderate	11:54		Surface	1.0		28.6		8.3		23.2		115.4		8.0	7.0		4.6			4.0	
Bottom Surface Surfa					6.4	Middle	3.2		27.4		8.2		26.1		107.1		7.5	7.8		5.4	5.1		4.8	4.9
14-Aug-15						Bottom	5.4	27.3	27.3	8.1	8.1	28.1	27.6	106.3	106.8	7.4	7.4	7.4	5.2	5.4		6.0	6.0	
17-Aug-15 Sunny Moderate 14:45 Sufface 1.0 27.8 2	14-Aug-15	Cloudy	Moderate	12:35		Curtoso	1.0		27.0		0.2		25.0		97.2		5.0			6.2			6.7	
17-Aug-15																		5.9						∤ '
17-Aug-15 Sunny Moderate 14:05 Sufface 1.0 27.8 27.7 8.1 8.1 25.5 25.4 83.5 5.7 5.6 5.5 7.6 7.8 7.8 8.2					6.2	Middle		27.1		8.2		28.5		83.0		5.6			6.5		6.3	7.3		7.5
Surface 1.0 27.6 27.7 8.1 8.1 25.5 25.4 79.5 81.5 5.4 5.5 5.5 6.4 6.1 6.5 8.2						Bottom	5.2	26.8	26.8	8.3	8.3	29.3	29.3	84.1	82.8	5.7	5.6	5.6	6.2	6.2		8.6	8.6	<u> </u>
6.1 Middle 3.1 27.0 27.0 8.1 8.1 8.1 26.4 26.4 79.4 76.9 5.5 5.3 6.4 6.4 6.1 6.5 8.0 8.1 8.1 8.1 27.7 79.4 76.9 5.5 5.5 5.5 5.6 5.6 8.0 8.7 8.6 8.1 8.1 8.1 27.7 27.7 75.1 76.8 5.2 5.3 5.3 5.3 5.5 5.6 5.6 8.5 8.0 8.1 8.1 8.1 27.7 27.7 75.1 76.8 5.2 5.3 5.3 5.3 5.3 5.5 5.6 8.5 8.0 8.1 8.1 8.1 27.7 27.7 27.7 75.1 76.8 5.2 5.3 5.3 5.3 5.3 5.5 5.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	17-Aug-15	Sunny	Moderate	14:05		Surface	1.0		27.7		8.1		25.4		81.5		5.6			7.8			8.2	
Bottom 5.1 26.7 26.8 8.1 8.1 27.7 27.7 75.1 76.8 5.2 5.3 5.3 5.5 5.6 8.5 8.6 8.7 8.6 8.5 8.6 8.1 8.1 27.7 27.7 75.1 76.8 5.2 5.3 5.3 5.3 5.3 5.5 5.6 8.5 8.6 8.5 8.6 8.1 8.1 27.7 27.7 75.1 76.8 5.2 5.5 5.5 5.5 5.5 5.5 5.5 8.6 8.5 8.6 8.1 8.1 24.6 24.5 81.0 81.0 28.8 28.6 8.1 8.1 24.6 24.5 81.0 81.0 81.0 24.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5					6.1	Middle	3.1		27.0		8.1		26.4		76.9		5.3	5.5		6.1	6.5		8.1	8.3
19-Aug-15 Sunny Moderate 14:45						Bottom	5.1	26.7	26.8	8.1	8.1	27.7	27.7	75.1	76.8	5.2	5.3	5.3	5.5	5.6		8.7	8.6	
7.3 Middle 3.7 27.2 26.9 8.1 8.1 24.6 81.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	19-Aug-15	Sunny	Moderate	14:45		Surface	1.0	28.8	28.6	8.1	8.1	24.5	24.5	87.7	84.4	5.9	5.7		5.5	5.5		4.2	4.3	
Sunny Moderate 16:12 Sunny Moderate 16:12 Surface 1.0 28.0 28.0 8.1 8.1 8.1 29.3 29.6 76.9 77.3 77.1 5.3 5.3 5.3 5.3 5.5 5.5 4.4 5.5 5.5 5.6 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8 3.3 3.0 5.9 5.8					73	-												5.6	5.5		5.6			30
Sunny Moderate 16:12 Sunny Moderate 16:12 Surface 1.0 28.0 28.0 8.2 8.2 28.0 28.0 8.2 8.2 28.0 28.0 84.2 84.7 5.6 5.7 5.5 5.5 11.5 12.0 3.9 3.1 3.7 3.7 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.8 3.8 3.7 3.8 3.8 3.7 3.8 3.8 3.7 3.8 3.					7.3													5.0			3.0			3.5
6.2 Middle 3.1 27.0 27.1 8.1 8.1 29.8 29.4 79.1 79.7 5.3 5.3 5.5 12.4 12.0 12.8 3.9 3.7 3.7 3.8 3.7 3.8 3.7 3.8 3.7 3.9 74.9 74.5 5.1 5.0 5.0 14.1 14.4 3.9 3.9 4.3	21-Aug-15	Suppy	Moderato	16:12				27.2		8.1		29.3		77.3		5.3		5.3	5.6			2.7		
6.2 Mildle 3.1 27.3 27.1 8.1 8.1 29.1 29.4 80.3 79.7 5.4 5.3 11.7 12.0 12.8 3.7 3.8 3.7 80.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	21-Aug-15	Suring	wouldtate	10.12		Surface	1.0	28.0	28.0	8.2	8.2	28.0	28.0	84.2	84.7	5.6	5.7	5.5	12.4	12.0		2.9	3.1	
					6.2	Middle	3.1	27.3	27.1	8.1	8.1	29.1	29.4	80.3	79.7	5.4	5.3		11.7	12.0	12.8	3.7	3.8	3.7
						Bottom	5.2	26.0 26.5	26.2	8.1 8.1	8.1	33.7 32.8	33.2	74.9 74.1	74.5	5.1 5.0	5.0	5.0	14.1 14.7	14.4		3.9 4.7	4.3	1

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	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*
24-Aug-15	Sunny	Moderate	08:20		Surface 1.	28.2 28.1	28.1	8.4 8.4	8.4	27.4 27.7	27.6	118.6 116.5	117.6	7.9 7.8	7.9	6.9	6.5 6.8	6.7		3.7 4.2	4.0	
				6.4	Middle 3.	2 26.9 27.3	27.1	8.3 8.3	8.3	30.7 29.7	30.2	90.7 82.1	86.4	6.1 5.5	5.8	0.9	6.6 6.6	6.6	6.6	3.8 3.3	3.6	3.9
					Bottom 5.	4 25.4 25.5	25.5	8.2 8.2	8.2	33.7 33.7	33.7	78.5 75.6	77.1	5.3 5.1	5.2	5.2	6.6 6.5	6.6		3.2 4.7	4.0	
26-Aug-15	Sunny	Moderate	10:16		Surface 1.	27.8 27.1	27.5	8.3 8.3	8.3	30.1 31.2	30.7	89.3 86.8	88.1	5.9 5.8	5.9	5.7	7.7 7.7	7.7		6.1 6.5	6.3	
				6.2	Middle 3.	1 25.4 26.4	25.9	8.2 8.2	8.2	34.3 32.5	33.4	80.7 77.9	79.3	5.4 5.3	5.4	0.7	7.6 7.6	7.6	7.7	7.0 7.0	7.0	6.8
					Bottom 5.	2 25.2 25.1	25.2	8.2 8.2	8.2	34.9 35.1	35.0	75.0 75.7	75.4	5.1 5.1	5.1	5.1	7.6 7.7	7.7		6.9 7.2	7.1	
28-Aug-15	Rainy	Moderate	11:49		Surface 1.	27.4 27.3	27.4	8.2 8.2	8.2	30.7 30.8	30.8	97.8 93.3	95.6	6.6 6.3	6.4	6.4	6.4 6.4	6.4		5.0 4.6	4.8	
				6.8	Middle 3.	4 26.1 25.9	26.0	8.2 8.2	8.2	32.4 32.9	32.6	94.1 93.1	93.6	6.3 6.3	6.3	0.4	6.4 6.7	6.6	6.6	5.3 5.7	5.5	5.3
					Bottom 5.	8 26.1 26.4	26.2	8.3 8.3	8.3	33.8 33.6	33.7	88.5 85.8	87.2	6.0 5.8	5.9	5.9	6.7 6.8	6.8		5.4 5.9	5.7	
31-Aug-15	Cloudy	Moderate	13:09		Surface 1.	0 27.4 27.5	27.4	8.1 8.1	8.1	30.5 30.3	30.4	83.7 85.7	84.7	5.7 5.8	5.7	5.8	7.0 7.0	7.0		9.0 8.6	8.8	
				6.4	Middle 3.	2 27.1 27.0	27.0	8.1 8.1	8.1	31.0 31.2	31.1	89.0 82.8	85.9	6.0 5.6	5.8	5.0	7.0 7.1	7.1	7.1	9.3 9.7	9.5	9.3
					Bottom 5.	4 27.1 27.0	27.1	8.1 8.1	8.1	31.0 31.4	31.2	85.1 85.1	85.1	5.8 5.8	5.8	5.8	7.3 7.1	7.2		9.4 9.9	9.7	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	T	urbidity(NT	U)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	08:36		Surface	1.0	27.8 27.9	27.8	8.0 8.0	8.0	21.7 21.5	21.6	82.6 83.9	83.3	5.8 5.9	5.8		8.5 8.4	8.5		3.3 4.4	3.9	
				6.2	Middle	3.1	27.7 27.5	27.6	7.9	8.0	22.0 22.2	22.1	82.4	81.5	5.8 5.7	5.7	5.8	8.5 8.7	8.6	8.6	4.5	3.9	4.0
					Bottom	5.2	27.4	27.5	8.0 8.0	7.9	24.9	24.5	80.6 81.4	82.2	5.7	5.7	5.7	8.5	8.7		3.3 4.0	4.1	
5-Aug-15	Sunny	Moderate	10:03				27.6 28.8		7.9 8.0		24.1		83.0 78.9		5.8 5.4			8.8 6.4			4.2 2.8		<u> </u>
3-Aug-13	Suring	ivioderate	10.03		Surface	1.0	28.7	28.8	8.0	8.0	21.1	21.0	74.6	76.8	5.1	5.3	5.4	6.7	6.6		3.8	3.3	
				6.7	Middle	3.4	27.4 27.2	27.3	8.0 8.0	8.0	23.5 25.5	24.5	77.1 82.4	79.8	5.4 5.6	5.5		8.7 8.8	8.8	8.0	2.8 3.5	3.2	3.8
					Bottom	5.7	27.2 27.0	27.1	8.0 8.0	8.0	26.4 27.1	26.8	71.6 74.3	73.0	4.9 5.1	5.0	5.0	8.4 9.0	8.7		4.8 5.0	4.9	
7-Aug-15	Sunny	Moderate	12:46		Surface	1.0	28.4 27.4	27.9	7.9 7.8	7.8	22.6 22.8	22.7	90.1 85.6	87.9	6.1 5.9	6.0		3.9 3.6	3.8		4.7 4.6	4.7	
				6.4	Middle	3.2	27.9 27.7	27.8	7.8 7.8	7.8	24.5 25.1	24.8	89.3 84.4	86.9	6.0 5.8	5.9	6.0	3.9 4.3	4.1	4.2	5.5 5.2	5.4	5.3
					Bottom	5.4	28.7	28.3	7.9	7.8	25.9	26.2	74.7	78.5	5.0	5.3	5.3	4.5	4.6		6.2	5.8	. '
10-Aug-15	Cloudy	Moderate	16:54				28.0 29.0		7.8 8.6		26.4 19.5		82.2 132.5		5.6 9.2			4.7 9.5			5.4 2.3		
10 / lag 10	Cicacy	modorato	10.01		Surface	1.0	29.1 28.8	29.1	8.6 8.4	8.6	19.7	19.6	134.3 106.2	133.4	9.3 7.1	9.2	8.2	9.1	9.3		2.6	2.5	 -
				6.2	Middle	3.1	28.7	28.8	8.4	8.4	21.9	21.4	105.9	106.1	7.3	7.2		9.5	9.6	9.5	4.6	4.1	3.5
					Bottom	5.2	27.6 27.3	27.5	8.3 8.2	8.2	29.5 29.9	29.7	100.0 98.0	99.0	6.9 6.6	6.7	6.7	9.6 9.5	9.6		4.6 3.4	4.0	
12-Aug-15	Sunny	Moderate	18:04		Surface	1.0	29.4 29.6	29.5	8.3 8.4	8.3	24.2 24.2	24.2	123.2 123.6	123.4	8.5 8.5	8.5	8.1	7.9 7.8	7.9		3.5 2.0	2.8	
				6.1	Middle	3.1	28.6 28.6	28.6	8.2 8.3	8.2	25.4 25.5	25.5	109.6 107.8	108.7	7.6 7.5	7.6	8.1	10.6 11.0	10.8	10.5	4.1 4.0	4.1	3.3
					Bottom	5.1	27.2 27.8	27.5	8.0 8.1	8.0	30.4 29.7	30.0	101.6 112.5	107.1	7.0 7.7	7.4	7.4	12.5 13.3	12.9		2.6	3.0	,
14-Aug-15	Cloudy	Moderate	06:04		Surface	1.0	27.5	27.5	8.3	8.3	24.5	25.3	85.2	84.8	5.9	5.8		6.5	6.6		3.7	3.6	
							27.4 27.0		8.3 8.2		26.0 27.3		84.3 83.8		5.8 5.7		5.8	6.6 7.8			3.4		
				6.3	Middle	3.2	27.1 27.0	27.1	8.2 8.2	8.2	27.7	27.5	84.2 82.4	84.0	5.7 5.6	5.7		7.5 7.5	7.7	7.2	3.8	3.8	3.8
					Bottom	5.3	27.2	27.1	8.2	8.2	28.0	28.5	83.1	82.8	5.7	5.6	5.6	7.2	7.4		4.3	4.0	
17-Aug-15	Sunny	Moderate	07:43		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	23.7 23.7	23.7	89.4 88.2	88.8	6.2 6.1	6.1	6.0	4.6 4.7	4.7		5.5 4.5	5.0	ļ
				6.4	Middle	3.2	27.3 27.2	27.3	8.1 8.1	8.1	25.0 25.0	25.0	85.6 85.6	85.6	5.9 5.9	5.9	6.0	6.3 6.1	6.2	6.1	6.4 5.4	5.9	5.5
					Bottom	5.4	27.2 27.0	27.1	8.0 8.1	8.1	26.1 26.3	26.2	86.8 86.6	86.7	6.0	6.0	6.0	7.2 7.7	7.5		5.7 5.3	5.5	
19-Aug-15	Sunny	Moderate	08:57		Surface	1.0	28.3	28.4	8.1	8.1	23.3	23.4	86.9	87.3	5.9	5.9		3.8	3.8		3.0	2.6	
				6.5	Middle	3.3	28.5 27.6	27.7	8.1 8.0	8.0	23.6 24.7	24.8	87.7 80.8	82.5	6.0 5.5	5.7	5.8	3.7 4.0	4.0	4.0	2.1	2.3	2.4
				0.5			27.8 28.3		8.0 8.1		24.8 25.9		84.2 83.0		5.8 5.7			4.0 4.2		4.0	2.0		2.4
21-Aug-15	Sunny	Moderate	10:35		Bottom	5.5	27.5 28.3	27.9	8.0	8.0	26.4 24.6	26.2	76.7 79.0	79.9	5.3 5.4	5.5	5.5	4.0 7.3	4.1		2.5	2.3	<u> </u>
21-Aug-15	Suring	Woderate	10.33		Surface	1.0	28.2	28.2	8.1	8.1	24.9	24.7	82.2	80.6	5.6	5.5	5.3	7.1	7.2		5.9	6.3	
				6.1	Middle	3.1	27.1 27.0	27.0	8.1 8.1	8.1	27.7 28.4	28.1	73.4 75.6	74.5	5.0 5.1	5.1		7.8 7.0	7.4	7.9	6.0 5.5	5.8	5.7
					Bottom	5.1	26.9 26.9	26.9	8.1 8.1	8.1	29.0 28.9	29.0	75.9 81.8	78.9	5.2 5.6	5.4	5.4	8.8 9.5	9.2		4.9 4.9	4.9]
							20.0		0.1		20.0		01.0		5.0			J.U		1	7.0	1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ture (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	15:03		Surface	1.0	28.1 29.1	28.6	8.4 8.5	8.5	28.2 26.4	27.3	120.5 124.3	122.4	8.1 8.2	8.1	7.4	5.9 5.7	5.8		4.8 4.0	4.4	
				6.4	Middle	3.2	26.2 25.9	26.0	8.3 8.2	8.2	31.4 32.2	31.8	101.2 94.7	98.0	6.9 6.4	6.6	7.4	6.8 6.6	6.7	6.4	5.2 5.5	5.4	5.3
					Bottom	5.4	25.9 25.7	25.8	8.3 8.3	8.3	32.4 32.7	32.6	86.8 83.6	85.2	5.9 5.7	5.8	5.8	6.8 6.8	6.8		5.8 6.5	6.2	
26-Aug-15	Sunny	Moderate	17:07		Surface	1.0	27.4 27.4	27.4	8.3 8.3	8.3	30.7 30.6	30.7	95.2 93.1	94.2	6.4 6.2	6.3	6.0	5.6 5.3	5.5		4.9 4.9	4.9	
				6.1	Middle	3.1	27.2 26.3	26.7	8.3 8.2	8.2	30.9 31.6	31.3	83.3 88.0	85.7	5.6 5.9	5.7	0.0	5.7 5.7	5.7	5.7	3.9 4.1	4.0	4.7
					Bottom	5.1	26.3 25.8	26.0	8.1 8.2	8.2	33.3 34.0	33.6	79.8 83.1	81.5	5.4 5.6	5.5	5.5	5.8 5.7	5.8		4.1 6.0	5.1	
28-Aug-15	Sunny	Moderate	17:57		Surface	1.0	27.5 27.5	27.5	8.3 8.3	8.3	29.7 29.7	29.7	97.6 100.4	99.0	6.6 6.8	6.7	6.5	7.6 7.3	7.5		6.8 6.5	6.7	
				6.1	Middle	3.1	27.4 27.3	27.4	8.3 8.3	8.3	30.0 30.0	30.0	95.3 91.2	93.3	6.4 6.1	6.3	0.5	7.6 7.7	7.7	7.6	6.3 6.8	6.6	6.7
					Bottom	5.1	27.3 27.5	27.4	8.3 8.3	8.3	30.1 29.9	30.0	82.5 93.3	87.9	5.6 6.3	5.9	5.9	7.8 7.6	7.7		6.1 7.4	6.8	
31-Aug-15	Cloudy	Moderate	07:14		Surface	1.0	27.0 27.0	27.0	8.1 8.1	8.1	29.7 29.7	29.7	83.3 90.0	86.7	5.7 6.1	5.9	5.8	9.4 9.6	9.5		10.8 10.5	10.7	
				7.1	Middle	3.6	26.9 26.9	26.9	8.1 8.1	8.1	29.9 29.8	29.9	84.1 82.5	83.3	5.7 5.6	5.7	5.0	9.6 9.8	9.7	9.7	10.3 10.8	10.6	10.7
					Bottom	6.1	27.0 26.9	26.9	8.1 8.1	8.1	29.9 30.2	30.1	81.9 83.4	82.7	5.6 5.7	5.6	5.6	9.8 9.7	9.8		10.1 11.4	10.8	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ŗ	Н	Salinit	ty (ppt)	DO Satu	ıration (%)	Dissolv	red Oxygen	(mg/L)	Ti	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*
3-Aug-15	Sunny	Moderate	13:46		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	26.0 26.1	26.0	82.5 82.3	82.4	5.7 5.7	5.7		21.5 21.6	21.6		19.5 18.4	19.0	
				8.3	Middle	4.2	27.7	27.7	8.0	8.0	26.2	26.2	82.1	82.2	5.6	5.7	5.7	21.4	21.4	21.4	17.8	17.6	19.1
					Bottom	7.3	27.7 27.8	27.8	8.0	8.0	26.2 26.1	26.1	82.3 82.5	82.6	5.7 5.7	5.7	5.7	21.3 21.5	21.3		17.4 20.6	20.6	1
F A 45	C	Madazata	45.00		20110111	7.0	27.7 28.6		8.0 8.0	0.0	26.2 23.5		82.6 79.0	02.0	5.7	0		21.1 6.6		<u> </u>	20.6 10.0	20.0	
5-Aug-15	Sunny	Moderate	15:06		Surface	1.0	28.6	28.6	8.0	8.0	23.4	23.5	79.1	79.1	5.4 5.4	5.4	5.4	6.3	6.5		10.3	10.2]
				8.9	Middle	4.5	28.5 28.5	28.5	8.0 8.0	8.0	23.7 23.5	23.6	78.1 78.4	78.3	5.3 5.4	5.3		6.6 6.9	6.8	6.7	9.1 7.9	8.5	9.7
					Bottom	7.9	28.5 28.5	28.5	8.0 8.1	8.1	23.7 23.5	23.6	78.6 79.4	79.0	5.4 5.4	5.4	5.4	6.5 7.0	6.8		9.5 11.4	10.5	
7-Aug-15	Sunny	Moderate	17:33		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	25.1 24.9	25.0	106.4 105.6	106.0	7.1 7.0	7.0		4.9 5.0	5.0		5.5 5.4	5.5	
				8.1	Middle	4.1	27.9 27.9	27.9	7.9	7.9	27.5	27.5	103.2	103.9	6.9	6.9	7.0	5.3	5.3	5.3	6.3	6.0	6.1
					Bottom	7.1	28.5	28.4	7.9 8.0	8.0	27.4 29.1	29.1	104.5 99.0	97.0	6.9 6.6	6.5	6.5	5.2 5.7	5.7		5.6 6.7	6.8	
10-Aug-15	Cloudy	Moderate	11:17				28.2		8.0 8.4		29.2 22.4		94.9 104.9		6.4 7.1			5.6 5.2			6.9 5.0		
10 / (0)	Oloudy	Woderate	11.17		Surface	1.0	28.9 27.1	29.0	8.4 8.2	8.4	22.3	22.3	104.5 78.1	104.7	7.1 5.3	7.1	6.2	5.4	5.3		4.5 4.6	4.8	'
				8.1	Middle	4.1	27.7	27.4	8.2	8.2	28.5	29.3	77.1	77.6	5.2	5.2		5.5	5.5	5.5	4.6	4.6	4.6
					Bottom	7.1	26.3 26.3	26.3	8.2 8.1	8.2	32.6 32.6	32.6	73.4 73.8	73.6	4.9 5.0	5.0	5.0	5.5 5.6	5.6		4.6 4.4	4.5	
12-Aug-15	Sunny	Moderate	12:59		Surface	1.0	28.7 28.8	28.7	8.3 8.3	8.3	24.1 24.0	24.1	107.3 104.3	105.8	7.4 7.2	7.3	7.4	9.2 9.0	9.1		4.4 4.5	4.5	
				8.4	Middle	4.2	26.3 26.3	26.3	8.1 8.1	8.1	31.1 30.9	31.0	101.6 96.5	99.1	7.0 6.7	6.9	7.1	10.7 10.1	10.4	9.7	5.2 4.5	4.9	4.6
					Bottom	7.4	26.4 26.3	26.4	8.1 8.1	8.1	30.9 31.2	31.1	102.2 103.9	103.1	7.1 7.2	7.1	7.1	9.4 9.7	9.6		4.6 4.0	4.3	
14-Aug-15	Cloudy	Moderate	11:51		Surface	1.0	27.9	27.9	8.3	8.3	25.5	25.6	87.7	87.6	6.0	6.0		14.0	14.3		10.6	10.4	
							27.9 27.9		8.3 8.3		25.6 25.7		87.5 87.2		6.0 5.9		6.0	14.6 14.4			10.1 10.6		· '
				8.6	Middle	4.3	27.9 27.9	27.9	8.3 8.3	8.3	25.7 25.8	25.7	86.9 87.8	87.1	5.9 6.0	5.9		14.4 14.5	14.4	14.4	10.3	10.5	10.7
					Bottom	7.6	27.9	27.9	8.2	8.3	25.9	25.8	86.8	87.3	5.9	5.9	5.9	14.2	14.4		11.5	11.1	
17-Aug-15	Sunny	Moderate	13:16		Surface	1.0	27.8 27.8	27.8	8.1 8.1	8.1	24.6 24.4	24.5	84.9 85.8	85.4	5.8 5.9	5.8	5.8	11.0 9.8	10.4		12.6 12.1	12.4	
				8.5	Middle	4.3	27.8 27.8	27.8	8.1 8.1	8.1	24.7 24.9	24.8	85.0 84.8	84.9	5.8 5.8	5.8	5.8	10.8 11.7	11.3	10.6	12.5 11.9	12.2	11.8
					Bottom	7.5	27.8 27.8	27.8	8.1 8.1	8.1	24.7 24.7	24.7	85.6 85.6	85.6	5.9 5.9	5.9	5.9	10.5	10.1		10.9	10.9	
19-Aug-15	Sunny	Moderate	14:00		Surface	1.0	29.0	29.0	8.1	8.1	24.4	24.4	90.3	89.9	6.1	6.1		5.6	5.6		5.3	5.6	
				9.1	Middle	4.6	29.0 28.9	28.9	8.1 8.1	8.1	24.3 24.6	24.6	89.4 88.3	88.0	6.0	6.0	6.1	5.5 5.7	5.7	5.7	5.9 6.1	5.6	5.7
				3.1			28.8		8.1 8.1		24.5 24.9		87.6 88.3		5.9 6.0			5.6 6.0		5.1	5.1 5.6		3.1
21 Aug 15	Sunny	Moderate	15:22	<u> </u>	Bottom	8.1	28.5 29.0	28.6	8.1 8.2	8.1	24.8 26.5	24.9	85.9 88.0	87.1	5.8 5.9	5.9	5.9	5.8 7.9	5.9		5.9	5.8	<u> </u>
21-Aug-15	Suriny	iviouerate	15:22		Surface	1.0	28.8	28.9	8.2	8.2	26.7	26.6	83.3	85.7	5.5	5.7	5.6	8.3	8.1		4.4 4.8	4.6	
				8.7	Middle	4.4	28.1 28.0	28.1	8.1 8.1	8.1	28.5 27.5	28.0	79.1 80.9	80.0	5.3 5.4	5.4		9.2 9.7	9.5	8.9	5.4 5.0	5.2	5.1
					Bottom	7.7	28.4 28.4	28.4	8.2 8.1	8.2	28.5 28.9	28.7	86.9 85.6	86.3	5.8 5.7	5.7	5.7	9.5 8.9	9.2		5.3 5.5	5.4	1
							20.7		0.1	1	20.0		00.0		5.1			0.0			0.0		

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Temp	erature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	09:07		Surface 1	.0 28.5 28.2	28.3	8.4 8.3	8.3	27.9 28.6	28.3	102.4 100.2	101.3	6.8 6.7	6.7	6.2	3.9 3.9	3.9		3.9 3.0	3.5	
				8.2	Middle 4	.1 24.9 25.0	24.9	8.1 8.1	8.1	35.2 35.0	35.1	80.4 79.5	80.0	5.6 5.6	5.6	0.2	3.9 3.9	3.9	3.9	5.6 4.7	5.2	4.8
					Bottom 7	24.8 24.9	24.8	8.2 8.2	8.2	35.4 35.4	35.4	76.8 77.4	77.1	5.2 5.3	5.2	5.2	3.9 3.9	3.9		5.4 5.8	5.6	
26-Aug-15	Sunny	Moderate	11:04		Surface 1	.0 27.5 27.4	27.5	8.3 8.3	8.3	29.9 30.1	30.0	85.8 85.3	85.6	5.7 5.7	5.7	5.5	7.7 7.7	7.7		4.2 4.7	4.5	
				8.4	Middle 4	.2 25.4 25.4	25.4	8.2 8.2	8.2	34.5 34.4	34.4	79.5 79.2	79.4	5.4 5.3	5.3	3.3	7.6 7.7	7.7	7.7	4.4 3.3	3.9	5.0
					Bottom 7	25.2 25.1	25.2	8.2 8.2	8.2	34.8 35.0	34.9	76.3 75.1	75.7	5.2 5.0	5.1	5.1	7.9 7.7	7.8		6.5 6.7	6.6	
28-Aug-15	Rainy	Moderate	12:33		Surface 1	.0 27.3 27.2	27.3	8.2 8.2	8.2	30.1 30.3	30.2	93.9 92.2	93.1	6.3 6.2	6.3	6.3	8.5 8.3	8.4		9.1 11.7	10.4	
				9.5	Middle 4	.8 27.2 27.2	27.2	8.2 8.2	8.2	30.4 30.4	30.4	90.9 93.7	92.3	6.1 6.3	6.2	0.5	8.5 8.5	8.5	8.5	13.5 12.9	13.2	12.6
					Bottom 8	27.2 27.2	27.2	8.2 8.3	8.3	30.4 30.5	30.4	90.8 91.2	91.0	6.1 6.1	6.1	6.1	8.8 8.6	8.7		14.8 13.3	14.1	
31-Aug-15	Cloudy	Moderate	12:22		Surface 1	.0 27.0 27.0	27.0	8.1 8.1	8.1	31.3 31.3	31.3	80.8 81.2	81.0	5.5 5.5	5.5	5.5	16.0 16.0	16.0		14.1 15.7	14.9	
				9.1	Middle 4	.6 26.9 26.9	26.9	8.1 8.1	8.1	31.3 31.4	31.3	81.2 80.7	81.0	5.5 5.5	5.5	5.5	16.0 16.3	16.2	16.2	17.5 16.9	17.2	16.7
					Bottom 8	26.9 26.9	26.9	8.1 8.1	8.1	31.3 31.3	31.3	81.0 80.6	80.8	5.5 5.5	5.5	5.5	16.2 16.3	16.3		18.8 17.3	18.1	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	T	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*
3-Aug-15	Sunny	Moderate	09:23		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	23.3 23.3	23.3	76.5 76.8	76.7	5.3 5.3	5.3		9.9 10.3	10.1		8.5 9.0	8.8	
				8.5	Middle	4.3	27.7 27.8	27.8	8.0	8.0	23.8 23.4	23.6	76.2	76.1	5.2 5.2	5.2	5.3	10.3	10.3	10.2	9.2	8.5	8.7
					Bottom	7.5	27.8	27.7	8.0 8.0	8.0	24.1	24.2	75.9 75.2	75.0	5.2	5.2	5.2	10.4	10.3		7.8 9.3	8.9	
F Aug 15	Sunny	Moderate	11:07				27.7 28.7		8.0 8.1		24.2		74.7 79.2		5.2 5.4			10.2 6.5			8.5 5.7		<u> </u>
5-Aug-15	Suring	Woderate	11.07		Surface	1.0	28.7	28.7	8.1	8.1	22.8	22.8	79.7	79.5	5.4	5.4	5.3	6.2	6.4		5.5	5.6	
				8.7	Middle	4.4	28.1 28.3	28.2	8.0 8.0	8.0	24.0 23.6	23.8	74.2 77.8	76.0	5.1 5.3	5.2		7.2 6.7	7.0	6.8	6.4 7.2	6.8	6.0
					Bottom	7.7	28.5 27.9	28.2	8.0 8.0	8.0	23.3 24.6	24.0	79.9 76.2	78.1	5.5 5.2	5.3	5.3	6.7 7.0	6.9		5.4 5.8	5.6	
7-Aug-15	Sunny	Moderate	13:30		Surface	1.0	29.1 28.6	28.9	7.9 7.9	7.9	23.5 23.8	23.7	86.7 89.5	88.1	5.8 6.0	5.9		6.4 6.3	6.4		5.1 3.6	4.4	
				8.2	Middle	4.1	27.0	27.1	7.8	7.8	27.7	26.9	79.7	80.6	5.5	5.5	5.7	6.6	6.6	6.6	3.6	4.2	5.1
					Bottom	7.2	27.3 27.2	27.2	7.8 7.9	7.9	26.1 29.2	29.1	81.5 72.7	72.2	5.5 4.9	4.9	4.9	6.5 6.8	6.9		4.8 6.3	6.6	•
10.1	<u> </u>		40.00		DOMOIII	1.2	27.3	21.2	7.8	7.5	28.9	23.1	71.7	12.2	4.9	4.5	4.5	6.9	0.9		6.8	0.0	<u> </u>
10-Aug-15	Cloudy	Moderate	16:06		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	25.4 25.2	25.3	122.3 117.9	120.1	8.2 7.8	8.0	7.2	5.2 5.2	5.2		4.3 4.9	4.6	
				8.5	Middle	4.3	28.6 28.7	28.6	8.3 8.3	8.3	28.8 27.9	28.4	93.8 95.2	94.5	6.2 6.3	6.3	7.2	5.4 5.1	5.3	5.2	4.7 5.0	4.9	4.7
					Bottom	7.5	27.1 27.3	27.2	8.2 8.3	8.3	32.6 32.2	32.4	79.3 83.0	81.2	5.2 5.5	5.4	5.4	5.2 5.2	5.2		4.7 4.7	4.7	
12-Aug-15	Sunny	Moderate	17:14		Surface	1.0	30.9	30.9	8.3	8.3	23.9	24.0	105.6	106.0	7.3	7.3		6.9	7.1		4.1	3.9	
				8.0	Middle	4.0	30.8 28.2	28.1	8.3 8.2	8.2	24.1 28.7	28.8	106.3 96.4	96.4	7.3 6.6	6.6	7.0	7.3	7.4	7.5	3.7 4.5	4.7	4.4
					Bottom	7.0	28.0 27.7	27.7	8.2 8.2	8.2	28.8 30.1	29.8	96.3 97.6	96.0	6.6	6.6	6.6	7.8 8.0	7.9		4.9	4.6	
					Bottom	7.0	27.8	21.1	8.1	8.2	29.5	29.8	94.3	96.0	6.5	0.0	0.0	7.7	7.9		4.4	4.6	
14-Aug-15	Cloudy	Moderate	06:48		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	25.7 25.8	25.8	88.3 88.6	88.5	6.0 6.0	6.0	5.9	10.6 10.4	10.5		6.4 6.1	6.3	ļ
				8.6	Middle	4.3	27.8 27.9	27.9	8.2 8.3	8.3	26.5 26.4	26.5	81.9 88.3	85.1	5.5 6.0	5.8	5.9	10.5 10.4	10.5	10.5	6.8 6.4	6.6	6.5
					Bottom	7.6	27.7 27.9	27.8	8.2 8.3	8.3	27.0 26.9	27.0	82.1 85.6	83.9	5.6 5.8	5.7	5.7	10.2	10.4		6.8	6.6	
17-Aug-15	Sunny	Moderate	08:35		Confees	4.0	27.5	07.5	8.3	0.4	25.2	25.2	90.7	00.7	6.2	0.0		6.6	6.7	<u> </u>	6.8	6.0	
	,				Surface	1.0	27.5 27.4	27.5	8.1 8.1	8.1	25.3 25.6	25.2	88.6 92.3	89.7	6.1	6.2	6.2	6.8 7.6	6.7		6.9 9.1	6.9	.
				8.8	Middle	4.4	27.4	27.4	8.1	8.1	25.7	25.6	88.3	90.3	6.1	6.2		7.4	7.5	7.1	7.9	8.5	8.1
					Bottom	7.8	27.4 27.4	27.4	8.1 8.1	8.1	25.6 25.7	25.7	89.9 96.2	93.1	6.2 6.6	6.4	6.4	7.2 6.7	7.0		8.8 8.8	8.8	
19-Aug-15	Sunny	Moderate	09:41		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	24.3 24.4	24.4	93.7 92.3	93.0	6.4 6.3	6.3		6.1 6.2	6.2		6.5 7.0	6.8	
				9.1	Middle	4.6	28.5 28.1	28.3	8.1 8.1	8.1	24.9 25.1	25.0	92.1 87.9	90.0	6.2 6.0	6.1	6.2	6.2	6.3	6.4	6.7 6.5	6.6	6.9
					Bottom	8.1	28.6	28.3	8.1	8.1	25.0	25.6	88.8	86.6	6.0	5.9	5.9	6.6	6.6		7.2	7.2	1 '
21-Aug-15	Sunny	Moderate	11:25		Surface	1.0	27.9 29.1	29.2	8.1 8.1	8.1	26.2 24.3	24.2	84.3 85.6	84.2	5.8 5.7	5.7		6.5 6.8	7.2		7.2 2.8	2.7	
				0.7			29.2 27.5		8.1 8.1		24.1 27.3		82.8 83.2		5.6 5.6		5.6	7.5 10.2			2.5 3.6		
				8.7	Middle	4.4	27.5 27.2	27.5	8.1 8.1	8.1	27.3	27.3	80.8 73.3	82.0	5.4 5.0	5.5		10.7	10.5	9.5	3.5	3.6	3.2
					Bottom	7.7	27.2 27.2	27.2	8.1 8.1	8.1	28.7	28.7	73.3 77.4	75.4	5.0 5.3	5.1	5.1	11.1	10.9		3.5 2.9	3.2	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:11		Surface 1.0	29.1 28.4	28.8	8.5 8.4	8.5	27.5 28.6	28.0	126.9 122.9	124.9	8.4 8.2	8.3	6.9	4.5 4.4	4.5		2.9 4.1	3.5	
				8.6	Middle 4.3	26.1 26.0	26.0	8.2 8.2	8.2	32.0 31.8	31.9	80.2 79.2	79.7	5.6 5.4	5.5	0.9	4.5 4.4	4.5	4.5	3.9 3.6	3.8	3.7
					Bottom 7.6	25.1 25.1	25.1	8.2 8.2	8.2	33.9 34.3	34.1	76.4 77.7	77.1	5.2 5.3	5.2	5.2	4.5 4.4	4.5		3.2 4.2	3.7	
26-Aug-15	Sunny	Moderate	16:21		Surface 1.0	27.0 27.4	27.2	8.2 8.3	8.2	31.0 29.8	30.4	87.3 87.7	87.5	5.9 5.9	5.9	5.6	20.1 20.3	20.2		11.0 11.6	11.3	
				8.7	Middle 4.4	26.1 26.0	26.0	8.1 8.1	8.1	32.8 33.0	32.9	80.3 79.9	80.1	5.4 5.3	5.3	0.0	20.1 20.3	20.2	20.2	13.7 14.5	14.1	15.7
					Bottom 7.3	7 26.0 25.6	25.8	8.1 8.1	8.1	33.3 33.7	33.5	75.3 76.3	75.8	5.0 5.1	5.1	5.1	20.3 20.2	20.3		21.2 22.2	21.7	
28-Aug-15	Sunny	Moderate	17:11		Surface 1.0	27.7 27.9	27.8	8.3 8.3	8.3	30.7 30.4	30.6	93.6 93.6	93.6	6.2 6.3	6.3	6.2	8.2 8.2	8.2		9.1 10.0	9.6	
				9.3	Middle 4.3	7 27.4 27.2	27.3	8.3 8.3	8.3	31.2 31.1	31.1	91.4 92.7	92.1	6.1 6.2	6.1	0.2	8.3 8.2	8.3	8.3	11.0 10.4	10.7	10.8
					Bottom 8.3	27.6 27.3	27.5	8.3 8.3	8.3	30.9 30.9	30.9	90.6 88.8	89.7	6.1 6.0	6.0	6.0	8.6 8.3	8.5		12.3 11.6	12.0	
31-Aug-15	Cloudy	Moderate	07:57		Surface 1.0	27.2 27.2	27.2	8.1 8.1	8.1	30.2 30.2	30.2	80.7 82.1	81.4	5.5 5.6	5.5	5.5	9.2 9.0	9.1		14.1 14.0	14.1	
				9.1	Middle 4.6	27.1 27.2	27.2	8.1 8.1	8.1	30.2 30.2	30.2	80.4 81.5	81.0	5.5 5.5	5.5	5.5	9.2 9.0	9.1	9.2	15.0 14.4	14.7	14.9
					Bottom 8.	27.1 27.1	27.1	8.1 8.1	8.1	30.2 30.2	30.2	81.2 80.4	80.8	5.5 5.5	5.5	5.5	9.3 9.3	9.3		16.3 15.6	16.0	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	T	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*
3-Aug-15	Sunny	Moderate	14:10		Surface	1.0	28.7 28.4	28.6	8.0 8.0	8.0	23.7 24.0	23.9	77.7 75.2	76.5	5.3 5.1	5.2		9.8 9.5	9.7		2.8 2.6	2.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	9.8	-	-	2.8
					Bottom	2.2	28.4	28.2	8.0	8.0	25.2 25.5	25.3	76.1 74.8	75.5	5.2 5.1	5.1	5.1	9.6 9.9	9.8		2.1	2.8	
5-Aug-15	Sunny	Moderate	15:23				28.7		8.1		23.1		79.3		5.4			3.4			6.0		
0 7 kg 10	ou,	Moderate	10.20		Surface	1.0	28.8	28.7	8.1	8.1	22.7	22.9	79.3	79.3	5.4	5.4	5.4	3.4	3.4		5.5	5.8	
				3.3	Middle	-	28.7	-	8.1	-	23.5	-	79.3	-	5.4	-		3.4	-	3.5	4.9	-	5.5
					Bottom	2.3	28.7	28.7	8.1	8.1	23.5	23.5	79.3	79.3	5.4	5.4	5.4	3.7	3.6		5.3	5.1	
7-Aug-15	Sunny	Moderate	17:47		Surface	1.0	28.9 28.9	28.9	7.9 7.9	7.9	25.7 25.8	25.7	103.9 101.5	102.7	7.0 6.8	6.9	6.9	6.4 6.3	6.4		6.6 6.7	6.7	
				3.1	Middle	-	-	-		-		-		-	-	-	0.5	-	-	6.6	-	-	6.4
					Bottom	2.1	28.8 28.9	28.9	7.9 7.9	7.9	25.9 25.5	25.7	100.0 102.8	101.4	6.7 6.9	6.8	6.8	6.7 6.8	6.8		6.5 5.7	6.1	
10-Aug-15	Cloudy	Moderate	11:00		Surface	1.0	29.1 29.0	29.1	8.5 8.6	8.6	24.8	24.0	130.5	131.6	8.7 9.0	8.9		3.8	3.8		2.6 2.8	2.7	
				3.1	Middle	-	- 29.0	-	- 8.0	-	23.3	_	132.7	_	- 9.0	-	8.9	3.8	-	3.8	- 2.8	-	3.0
					Bottom	2.1	29.0	29.0	8.5	8.5	26.0	25.8	122.1	129.4	8.1	8.6	8.6	3.8	3.8		3.8	3.2	
12-Aug-15	Sunny	Moderate	12:37				29.1 28.9		8.5 8.3		25.7 23.4		136.7 120.7		9.1 8.3		0.0	3.7 5.9			2.5 4.4		
12112911	Jan.,		12.2		Surface	1.0	29.3	29.1	8.3	8.3	23.1	23.3	121.0	120.9	8.4	8.4	8.4	6.3	6.1		4.8	4.6	
				3.3	Middle	-	-	-	-	-	-	-	-	-	- 70	-		-	-	6.4	-	-	5.2
					Bottom	2.3	27.3 29.0	28.2	8.2 8.3	8.3	27.5 25.3	26.4	114.4 120.3	117.4	7.9 8.3	8.1	8.1	7.0 6.3	6.7		6.2 5.1	5.7	
14-Aug-15	Cloudy	Moderate	12:05		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	24.5 24.4	24.4	102.5 103.7	103.1	7.0 7.1	7.0	7.0	3.6 3.6	3.6		4.5 5.1	4.8	
				3.2	Middle		-	-		-	-	-		-	-	-	7.0	-	-	3.7	-	-	4.6
					Bottom	2.2	28.2 28.1	28.2	8.3 8.3	8.3	24.7 25.0	24.8	102.0 104.0	103.0	6.9 7.1	7.0	7.0	3.6 3.7	3.7		3.8 5.0	4.4	
17-Aug-15	Sunny	Moderate	13:32		Surface	1.0	28.0 28.3	28.2	8.1 8.1	8.1	24.6 24.5	24.6	84.3 85.0	84.7	5.7 5.8	5.8		7.5 7.2	7.4		5.7 5.7	5.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	8.2	-	-	5.5
					Bottom	2.3	27.8	27.9	8.1	8.1	24.8	24.7	86.9	85.4	6.0	5.8	5.8	9.0	8.9		5.1	5.3	
19-Aug-15	Sunny	Moderate	14:15		Surface	1.0	28.0	29.1	8.1 8.2	8.2	24.6 23.0	23.0	83.8 104.3	104.7	5.7 7.1	7.1		8.7 4.9	4.8		5.4 3.8	4.0	
				3.6	Middle	1.0	29.1	23.1	8.2	0.2	23.1	-	105.0	-	7.1 -	7.1	7.1	4.6		4.9	4.1		4.1
				ა.ხ		-	29.1		8.2		23.3		104.2		7.1			- 5.2	-	4.9	3.4	-	4.1
21 Aug 15	Cuppy	Moderate	15:38		Bottom	2.6	29.1 29.4	29.1	8.2	8.2	23.1 26.0	23.2	104.7 89.0	104.5	7.1	7.1	7.1	4.8	5.0		4.8	4.1	
21-Aug-15	Sunny	woderate	15.50		Surface	1.0	29.4	29.4	8.2 8.2	8.2	26.0	26.0	86.1	87.6	5.9 5.7	5.8	5.8	6.9	6.9		2.2	2.1	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.6	-	-	2.5
					Bottom	2.4	29.0 28.9	29.0	8.1 8.1	8.1	27.2 27.3	27.2	84.2 89.8	87.0	5.6 5.9	5.8	5.8	8.2 8.2	8.2		2.9 2.6	2.8	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	08:52		Surface	1.0	28.9 28.7	28.8	8.4 8.3	8.4	27.0 27.1	27.1	113.6 111.9	112.8	7.5 7.4	7.5	7.5	5.1 5.2	5.2		4.0 3.7	3.9	
				3.3	Middle			-		-	-	-		-	-	-	7.5	-	-	5.2	-	-	3.6
					Bottom	2.3	27.2 27.2	27.2	8.3 8.3	8.3	30.0 30.3	30.2	105.6 112.9	109.3	7.1 7.6	7.3	7.3	5.2 5.1	5.2		3.4 3.1	3.3	
26-Aug-15	Sunny	Moderate	10:48		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	30.0 29.9	30.0	98.6 94.2	96.4	6.5 6.2	6.3	6.3	5.6 5.5	5.6		3.2 4.3	3.8	
				3.1	Middle	,	-	-	-	-	-	-	-	-	-		0.3	-	-	5.6	-	-	3.7
					Bottom	2.1	27.6 27.6	27.6	8.3 8.3	8.3	31.3 31.4	31.3	93.6 93.6	93.6	6.2 6.2	6.2	6.2	5.5 5.6	5.6		3.3 3.7	3.5	
28-Aug-15	Rainy	Moderate	12:18		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	31.1 31.1	31.1	78.9 82.8	80.9	5.3 5.4	5.3	5.3	7.2 7.4	7.3		2.0 2.7	2.4	
				3.4	Middle	•		-		-	-	-		-		-	5.5	-	-	7.5	-	-	2.6
					Bottom	2.4	27.6 27.8	27.7	8.2 8.2	8.2	31.3 31.0	31.2	76.8 77.4	77.1	5.1 5.2	5.1	5.1	7.5 7.6	7.6		2.9 2.4	2.7	
31-Aug-15	Cloudy	Moderate	12:40		Surface	1.0	27.5 27.5	27.5	8.1 8.1	8.1	30.6 30.7	30.6	88.2 88.1	88.2	5.9 5.9	5.9	5.9	6.0 5.9	6.0	_	3.9 3.8	3.9	
				3.4	Middle	-		-	1 1	-	-	-	1 1	-	-	-	5.5	-	-	6.0	-	-	5.1
					Bottom	2.4	27.6 27.5	27.6	8.1 8.1	8.1	30.6 30.6	30.6	88.0 88.1	88.1	5.9 5.9	5.9	5.9	6.0 6.0	6.0		5.9 6.4	6.2	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	09:06		Surface	1.0	27.8 27.8	27.8	8.0 8.0	8.0	23.0 22.9	22.9	74.2 77.0	75.6	5.1 5.3	5.2		7.7 7.5	7.6		6.6 6.2	6.4	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	7.6	-	-	6.4
					Bottom	2.2	27.8 27.8	27.8	8.0	8.0	23.0	23.0	73.8 75.2	74.5	5.1 5.2	5.2	5.2	7.5 7.7	7.6		6.3	6.3	1
5-Aug-15	Sunny	Moderate	10:46				28.5		8.0 8.0		22.3		80.4		5.5			5.4			1.6		
3-Aug-13	Guilly	Woderate	10.40		Surface	1.0	28.5	28.5	8.0	8.0	22.2	22.2	82.0	81.2	5.6	5.6	5.6	5.1	5.3		2.1	1.9	
				3.3	Middle	-	28.5	-	8.0	-	22.4	-	80.8	-	5.5	-		5.2	-	5.3	3.2	-	2.3
					Bottom	2.3	28.5	28.5	8.0	8.0	22.3	22.3	83.6	82.2	5.7	5.6	5.6	5.2	5.2		2.2	2.7	<u> </u>
7-Aug-15	Sunny	Moderate	13:15		Surface	1.0	28.9 29.1	29.0	7.9 7.9	7.9	23.8 23.9	23.8	99.5 103.0	101.3	6.7 6.9	6.8	6.8	4.8 4.9	4.9		3.6 3.5	3.6	ļ
				3.4	Middle	-	-	-	-	-	-	-		-		-	0.0	-	-	5.2	-	-	3.8
					Bottom	2.4	29.4 29.4	29.4	7.9 7.9	7.9	24.7 23.6	24.2	97.6 100.3	99.0	6.6 6.8	6.7	6.7	5.4 5.3	5.4		3.6 4.3	4.0	
10-Aug-15	Cloudy	Moderate	16:23		Surface	1.0	29.1 29.1	29.1	8.6 8.6	8.6	23.4 23.6	23.5	148.5 145.7	147.1	10.0 9.7	9.9		5.5 5.5	5.5		7.7 7.2	7.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-	5.5	-	-	7.4
					Bottom	2.3	29.1 29.1	29.1	8.6 8.5	8.6	25.9 26.3	26.1	142.9 143.7	143.3	9.5 9.7	9.6	9.6	5.5 5.4	5.5		6.8	7.2	
12-Aug-15	Sunny	Moderate	17:22		Surface	1.0	29.6	29.6	8.2	8.3	25.5	25.7	123.7	123.3	8.4	8.4		9.2	9.4		8.4	8.7	
				3.1	Middle	_	29.5	-	8.3	_	25.9	_	122.8	_	8.4	-	8.4	9.6	-	9.4	8.9	_	10.4
					Bottom	2.1	29.1	29.3	8.1	8.2	26.6	26.5	122.6	123.2	8.4	8.4	8.4	9.0	9.4		12.2	12.1	
44.4	Ol. I	Madagas	20.00		Dottom		29.5	20.0	8.2	0.2	26.4	20.0	123.7	120.2	8.4	0.1	0	9.8	0		11.9		<u> </u>
14-Aug-15	Cloudy	Moderate	06:32		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	24.5 24.5	24.5	100.9 101.0	101.0	6.9 6.9	6.9	6.9	3.8 3.8	3.8		4.4 4.0	4.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-		-	-	3.8	-	-	4.0
					Bottom	2.2	28.0 28.0	28.0	8.3 8.3	8.3	24.5 24.5	24.5	100.8 101.0	100.9	6.9 6.9	6.9	6.9	3.7 3.7	3.7		3.5 4.0	3.8	
17-Aug-15	Sunny	Moderate	08:18		Surface	1.0	27.5 27.5	27.5	8.1 8.1	8.1	24.8 24.7	24.8	93.6 95.4	94.5	6.4 6.6	6.5	6.5	5.5 5.2	5.4		9.6 8.1	8.9	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	6.0	-	-	8.9
					Bottom	2.2	27.5 27.5	27.5	8.1 8.1	8.1	24.8 24.8	24.8	99.1 94.3	96.7	6.8 6.5	6.7	6.7	6.3 6.6	6.5		9.2 8.4	8.8	
19-Aug-15	Sunny	Moderate	09:26		Surface	1.0	28.9 28.9	28.9	8.1 8.1	8.1	23.8 23.8	23.8	97.9 101.5	99.7	6.6 6.9	6.8		2.7 2.8	2.8		3.0 2.2	2.6	
				3.3	Middle	-	- 28.9	-	- 8.1	-	- 23.8	-	- 101.5	-	-	-	6.8	- 2.8	-	2.9	- 2.2	-	2.7
					Bottom	2.3	28.9	28.9	8.1	8.1	23.8	23.9	97.1	97.6	6.6	6.6	6.6	3.0	3.0		2.9	2.7	
21-Aug-15	Sunny	Moderate	11:10		Surface	1.0	28.9 29.3	29.4	8.1 8.1	8.1	24.0 24.5	24.4	98.0 95.4	95.4	6.7 6.4	6.4		3.0 4.3	4.4		2.5 3.2	2.9	
				3.2	Middle		29.4	25.4	8.1		24.4		95.4	-	6.4	5.7	6.4	4.5		4.7	2.6	2.0	3.0
				3.2		-	29.2	-	- 8.1	-	24.7	-	95.2	05.0	6.4	-	0.4	4.7		4.7	2.8		3.0
					Bottom	2.2	28.8	29.0	8.1	8.1	25.1	24.9	94.8	95.0	6.4	6.4	6.4	5.2	5.0		3.1	3.0	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:28		Surface	1.0	29.9 29.8	29.9	8.5 8.5	8.5	27.4 27.3	27.4	126.4 124.5	125.5	8.4 8.3	8.3	8.3	6.3 6.4	6.4		3.9 4.8	4.4	
				3.2	Middle		-	-	-	-	-	-	-	-	-		0.3	-	-	6.4	-	-	5.0
					Bottom	2.2	28.5 28.2	28.4	8.4 8.6	8.5	28.7 29.2	28.9	122.8 123.1	123.0	8.2 8.2	8.2	8.2	6.2 6.5	6.4		5.5 5.5	5.5	
26-Aug-15	Sunny	Moderate	16:36		Surface	1.0	28.1 27.9	28.0	8.3 8.3	8.3	29.4 29.7	29.6	89.7 90.9	90.3	6.0 6.0	6.0	6.0	6.9 6.7	6.8		4.9 5.8	5.4	
				3.4	Middle	-		-	-	-	-	-	-	-		-	0.0	-	-	6.8	-	-	6.3
					Bottom	2.4	27.9 27.1	27.5	8.3 8.2	8.2	30.7 31.7	31.2	91.8 89.2	90.5	6.1 5.9	6.0	6.0	6.8 6.8	6.8		7.3 7.1	7.2	İ
28-Aug-15	Sunny	Moderate	17:30		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	30.6 30.6	30.6	98.4 96.7	97.6	6.6 6.4	6.5	6.5	9.7 9.9	9.8		0.5 0.5	0.5	I
				3.3	Middle	•		-		-	-	-	-	-	1 1	-	0.5	-	-	9.8	-	-	0.5
					Bottom	2.3	27.8 27.9	27.8	8.3 8.3	8.3	30.7 30.5	30.6	96.6 98.2	97.4	6.4 6.5	6.5	6.5	9.9 9.7	9.8		0.5 0.5	0.5	
31-Aug-15	Cloudy	Moderate	07:40		Surface	1.0	27.1 27.1	27.1	8.1 8.1	8.1	30.3 30.3	30.3	83.9 85.5	84.7	5.7 5.8	5.8	5.8	9.1 9.0	9.1		4.5 4.3	4.4	
				3.4	Middle	-		-	-	-	-	-	-	-	-	-	5.0	-	-	9.1	-	-	4.5
					Bottom	2.4	27.1 27.1	27.1	8.1 8.1	8.1	30.3 30.3	30.3	83.4 84.3	83.9	5.7 5.7	5.7	5.7	9.1 9.1	9.1		4.5 4.5	4.5	

Remarks:

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

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
3-Aug-15	Sunny	Moderate	14:33		Surface	1.0	28.2 28.3	28.3	8.0 8.0	8.0	23.7 23.4	23.6	76.8 76.3	76.6	5.3 5.2	5.2		9.2 9.2	9.2		5.1 3.4	4.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	9.4	-	-	4.6
					Bottom	2.7	27.8 28.1	28.0	8.0	8.0	26.0 25.8	25.9	75.9 77.0	76.5	5.2 5.2	5.2	5.2	9.2 9.7	9.5		5.3 4.3	4.8	
5-Aug-15	Sunny	Moderate	15:55		Surface	1.0	28.7	28.7	8.1	8.1	23.7	23.6	78.4	78.6	5.3	5.3		3.5	3.5		6.4	5.9	
				0.0		1.0	28.7		8.1		23.5		78.7		5.3	5.5	5.3	3.5	3.5	0.0	5.4		0.4
				3.6	Middle	-	28.7	-	8.1	-	23.9	-	78.4	-	5.3	-		3.8	-	3.6	6.3	-	6.4
			10.00		Bottom	2.6	28.7	28.7	8.1	8.1	23.8	23.9	78.5	78.5	5.3	5.3	5.3	3.5	3.7		7.4	6.9	<u> </u>
7-Aug-15	Sunny	Moderate	18:08		Surface	1.0	28.5 29.4	28.9	7.9 8.0	7.9	24.5 23.9	24.2	98.8 99.5	99.2	6.7 6.7	6.7	6.7	7.5 7.5	7.5		5.6 5.9	5.8	
				3.6	Middle	-	-	-		-		-		-		-	-	-	-	7.8	-	-	5.4
					Bottom	2.6	29.5 28.9	29.2	8.0 7.9	8.0	25.6 25.7	25.6	96.9 95.8	96.4	6.5 6.5	6.5	6.5	8.0 7.9	8.0		5.1 4.9	5.0	
10-Aug-15	Cloudy	Moderate	10:36		Surface	1.0	28.8 28.9	28.8	8.5 8.5	8.5	23.9 23.8	23.8	131.3 135.8	133.6	8.8 9.2	9.0		16.5 16.3	16.4		5.3 5.3	5.3	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	16.4	-	-	6.8
					Bottom	3.0	28.7 28.7	28.7	8.5 8.5	8.5	25.5 25.7	25.6	132.5 127.1	129.8	8.9 8.6	8.7	8.7	16.4 16.2	16.3		8.5 8.1	8.3	
12-Aug-15	Sunny	Moderate	12:08		Surface	1.0	29.6	29.7	8.2	8.2	22.6	22.5	114.6	115.8	8.0	8.0		5.8	5.9		4.0	4.9	
				3.5	Middle	_	29.7	_	8.2	_	22.5	_	116.9	_	8.1	_	8.0	6.0	_	6.1	5.8	_	4.7
				0.0	Bottom	2.5	28.3	28.0	8.2	8.2	26.5	27.0	125.0	120.6	8.6	8.3	8.3	6.3	6.3	0	4.8	4.5	""
14-Aug-15	Cloudy	Moderate	12:29				27.6 28.1		8.2 8.3		27.6 25.2		116.2 91.3		8.0 6.2		0.5	6.3 6.5			4.1 6.2		
	5.5.5.5				Surface	1.0	28.1	28.1	8.3	8.3	25.2	25.2	91.2	91.3	6.2	6.2	6.2	6.5	6.5		6.3	6.3	
				4.1	Middle	-	-	-	-	-	-	-	92.3	-	- 6.0	-		-	-	6.6	6.7	-	6.4
					Bottom	3.1	28.1 28.1	28.1	8.3 8.3	8.3	26.1 26.3	26.2	92.6	92.5	6.2 6.3	6.2	6.2	6.6 6.5	6.6		6.1	6.4	
17-Aug-15	Sunny	Moderate	13:58		Surface	1.0	28.4 28.2	28.3	8.1 8.1	8.1	23.8 24.0	23.9	87.3 85.8	86.6	6.0 5.9	5.9	5.9	4.5 4.6	4.6		4.2 3.5	3.9	
				3.6	Middle	-		-		-		-	-	-		-	5.5	-	-	4.7	-	-	4.1
					Bottom	2.6	28.2 27.8	28.0	8.1 8.1	8.1	24.0 24.4	24.2	86.5 84.5	85.5	5.9 5.8	5.9	5.9	4.6 4.7	4.7		4.1 4.5	4.3	
19-Aug-15	Sunny	Moderate	14:37		Surface	1.0	28.9 28.7	28.8	8.1 8.1	8.1	23.3	23.3	91.9 88.7	90.3	6.3 6.1	6.2		6.5 6.5	6.5		4.1	4.0	
				3.4	Middle	-	- 28.7	-	- 8.1	-	- 23.3	-	- 88.7	-	- 6.1	-	6.2	- 6.5	_	6.6	- 3.8	-	4.2
					Bottom	2.4	29.0	28.7	8.1	8.1	24.1	24.3	90.5	89.6	6.1	6.1	6.1	6.5	6.6		5.0	4.4	
21-Aug-15	Sunny	Moderate	16:04		Surface	1.0	28.4 28.7	28.6	8.1 8.2	8.2	24.6 25.8	25.9	88.6 97.4	94.9	6.0	6.3		6.6	5.9		3.7	2.6	
	•					1.0	28.5		8.2		26.0		92.4		6.2	0.3	6.3	5.7		0.1	2.1		
				3.8	Middle	-	- 27.9	-	- 8.1	-	29.3	-	- 87.2	-	- 5.8	-		6.0	-	6.1	3.2	-	2.8
					Bottom	2.8	28.4	28.2	8.2	8.2	29.3	29.0	85.8	86.5	5.8	5.8	5.8	6.5	6.3		2.8	3.0	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	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*
24-Aug-15	Sunny	Moderate	08:29		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	28.1 28.0	28.1	117.9 117.1	117.5	7.9 7.8	7.8	7.8	7.5 7.7	7.6		4.7 4.9	4.8	
				4.0	Middle	-		-		-	-	-	-			-	7.0	-	-	7.6	-	-	5.0
					Bottom	3.0	27.4 26.9	27.1	8.3 8.3	8.3	29.8 30.7	30.3	112.8 115.2	114.0	7.6 7.7	7.7	7.7	7.5 7.7	7.6		5.2 4.9	5.1	
26-Aug-15	Sunny	Moderate	10:25		Surface	1.0	28.6 28.3	28.4	8.4 8.4	8.4	29.1 29.2	29.2	91.9 93.8	92.9	6.1 6.2	6.1	6.1	6.0 5.9	6.0		5.6 4.2	4.9	
				3.8	Middle		-	-	-	-	-	-	-	-	-		0.1	-	-	6.1	-	-	6.3
					Bottom	2.8	27.1 27.3	27.2	8.4 8.4	8.4	32.0 31.8	31.9	91.6 96.9	94.3	6.1 6.4	6.3	6.3	6.1 6.1	6.1		8.0 7.4	7.7	
28-Aug-15	Rainy	Moderate	11:56		Surface	1.0	27.3 27.3	27.3	8.2 8.2	8.2	30.9 30.9	30.9	92.2 99.7	96.0	6.2 6.7	6.4	6.4	9.8 10.0	9.9		2.9 3.5	3.2	
				3.3	Middle	•		-		-	-	-		-		-	0.4	-	-	10.0	-	-	3.4
					Bottom	2.3	27.4 27.4	27.4	8.2 8.3	8.2	30.9 30.8	30.9	93.6 90.4	92.0	6.3 6.1	6.2	6.2	10.1 10.1	10.1		3.5 3.4	3.5	
31-Aug-15	Cloudy	Moderate	13:01		Surface	1.0	27.4 27.4	27.4	8.1 8.1	8.1	30.4 30.3	30.4	86.1 86.3	86.2	5.8 5.8	5.8	5.8	6.4 6.3	6.4		7.2 7.5	7.4	
				3.4	Middle	-	1 1	-	1 1	-	-	-		-		-	5.0	-	-	6.4	-	-	7.5
					Bottom	2.4	27.4 27.5	27.4	8.1 8.1	8.1	30.5 30.3	30.4	86.0 86.3	86.2	5.8 5.8	5.8	5.8	6.4 6.4	6.4		7.5 7.4	7.5	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ļ.	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*
3-Aug-15	Sunny	Moderate	08:44		Surface	1.0	27.8 27.8	27.8	7.9 7.9	7.9	21.8 21.8	21.8	84.6 85.8	85.2	5.9 6.0	6.0	6.0	12.1 12.2	12.2		6.6 6.3	6.5	
				3.9	Middle	-	-	-	-	-	-	-	-	-		-	6.0	-	-	12.3	-	-	6.5
					Bottom	2.9	27.7 27.8	27.7	8.0 7.9	7.9	22.0 22.1	22.0	89.8 85.0	87.4	6.3 6.0	6.1	6.1	12.1 12.5	12.3		6.3 6.5	6.4	
5-Aug-15	Sunny	Moderate	10:15		Surface	1.0	28.3 28.0	28.1	8.0 8.0	8.0	21.5 22.4	22.0	79.5 79.7	79.6	5.5 5.5	5.5		7.9 8.2	8.1		6.0 5.7	5.9	
				3.8	Middle	-		-	-	-	-	-	-	-	-	-	5.5	-	-	8.7	-	-	5.4
					Bottom	2.8	28.0 27.9	27.9	8.0 8.0	8.0	22.9 23.1	23.0	78.5 81.9	80.2	5.4 5.6	5.5	5.5	9.5 8.8	9.2		5.0 4.7	4.9	
7-Aug-15	Sunny	Moderate	12:53		Surface	1.0	28.7	28.7	7.9	7.9	22.9	22.7	93.5	93.0	6.4	6.3		8.1	8.0		5.7	5.8	
				3.6	Middle	-	28.7	-	7.9	-	22.6	-	92.5	-	6.3	-	6.3	7.9	-	8.2	5.9	-	5.9
					Bottom	2.6	28.9	29.0	7.9	7.9	23.5	23.4	93.7	91.9	6.3	6.2	6.2	8.4	8.4		6.7	6.0	
10-Aug-15	Cloudy	Moderate	16:46		Surface	1.0	29.1	28.9	7.9 8.6	8.6	23.4	21.4	90.1 152.7	152.3	10.4	10.4		11.6	11.5		5.2 21.9	22.0	
				4.0	Middle	-	28.9	-	8.6	-	21.4	-	151.9	-	10.4	-	10.4	11.4	-	11.5	22.1	-	23.5
					Bottom	3.0	28.9	29.0	8.5	8.5	24.0	24.1	152.2	150.8	10.3	10.2	10.2	11.6	11.4		25.9	25.0	
12-Aug-15	Sunny	Moderate	17:54		Surface	1.0	29.0	28.9	8.6	8.3	24.3	26.0	149.3 122.6	122.7	8.5	8.5		11.2	19.3		12.5	13.1	
				3.5	Middle	_	29.0	-	8.3	-	25.8	-	122.8	_	8.5 -	-	8.5	19.5	-	19.9	13.6	-	14.8
					Bottom	2.5	28.8	28.6	8.3	8.2	26.4	26.7	122.8	122.6	8.4	8.4	8.4	19.8	20.5		16.4	16.5	'
14-Aug-15	Cloudy	Moderate	06:11				28.5 27.7		8.2 8.3		26.9 25.6		122.3 90.8		8.4 6.2			21.2 8.9			16.6 3.8		
147/dg 10	Cloudy	Woderate	00.11		Surface	1.0	27.7	27.7	8.3	8.3	25.5	25.6	91.3	91.1	6.2	6.2	6.2	8.9	8.9		4.0	3.9	
				3.9	Middle	-	27.7	-	8.3	-	26.0	-	92.7	-	6.3	-		8.8	-	8.9	4.8	-	4.3
					Bottom	2.9	27.7	27.7	8.3	8.3	25.8	25.9	91.2	92.0	6.2	6.3	6.3	8.8	8.8		4.3	4.6	
17-Aug-15	Sunny	Moderate	07:50		Surface	1.0	27.5 27.4	27.5	8.1 8.1	8.1	24.1 24.4	24.2	89.2 90.4	89.8	6.2 6.2	6.2	6.2	9.3 8.9	9.1		7.7 7.7	7.7	ļ
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	9.9	-	-	8.5
					Bottom	2.6	27.5 27.4	27.4	8.0 8.1	8.1	24.4 24.6	24.5	89.6 91.8	90.7	6.2 6.3	6.3	6.3	10.0 11.1	10.6		9.9 8.7	9.3	
19-Aug-15	Sunny	Moderate	09:04		Surface	1.0	28.6 28.4	28.5	8.1 8.1	8.1	22.7 22.9	22.8	99.5 92.2	95.9	6.8 6.3	6.6	6.6	3.9 3.8	3.9		3.3 2.1	2.7	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	4.0	-	-	3.1
					Bottom	2.5	28.4 28.5	28.5	8.1 8.1	8.1	22.9 22.8	22.9	93.0 90.8	91.9	6.4 6.2	6.3	6.3	4.0 4.0	4.0		3.3 3.4	3.4	
21-Aug-15	Sunny	Moderate	10:43		Surface	1.0	28.6 28.5	28.5	8.1 8.1	8.1	23.2 23.0	23.1	90.0 88.6	89.3	6.1 6.1	6.1	6.1	7.7 8.4	8.1		4.4 4.8	4.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	···	-	-	8.6	-	-	4.6
					Bottom	2.7	27.9 28.1	28.0	8.1 8.1	8.1	25.6 25.5	25.6	88.6 87.6	88.1	6.0 5.9	6.0	6.0	9.2 9.0	9.1		4.5 4.7	4.6	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplii	ng	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:52		Surface	1.0	29.1 29.4	29.2	8.6 8.5	8.5	26.1 25.7	25.9	156.6 152.9	154.8	10.4 10.1	10.3	10.3	8.5 8.3	8.4		5.5 5.2	5.4	
				3.9	Middle	-	-	-		-	-	-		-	1 1	-	10.5	-	-	8.5	-	ı	5.6
					Bottom	2.9	29.2 27.4	28.3	8.6 8.3	8.4	27.6 29.4	28.5	151.8 152.1	152.0	10.0 10.0	10.0	10.0	8.4 8.5	8.5		6.2 5.3	5.8	
26-Aug-15	Sunny	Moderate	16:59		Surface	1.0	27.6 27.6	27.6	8.3 8.3	8.3	30.8 30.8	30.8	91.5 89.8	90.7	6.1 6.0	6.0	6.0	11.2 11.5	11.4		14.2 13.3	13.8	
				3.6	Middle	-	-	-		-	-	-		-		-	0.0	-	-	11.4	-	-	13.9
					Bottom	2.6	27.1 26.7	26.9	8.3 8.2	8.2	31.7 32.2	32.0	90.2 86.8	88.5	6.0 5.8	5.9	5.9	11.6 11.2	11.4		14.2 13.8	14.0	
28-Aug-15	Sunny	Moderate	17:50		Surface	1.0	27.4 27.3	27.4	8.3 8.3	8.3	30.2 30.3	30.2	97.0 95.5	96.3	6.5 6.4	6.5	6.5	14.0 13.9	14.0		2.1 2.3	2.2	
				3.6	Middle	-	-	-		-	-	-		-		-	0.5	-	-	14.0	-	i	3.7
					Bottom	2.6	27.3 27.4	27.4	8.3 8.3	8.3	30.4 30.1	30.2	95.5 96.5	96.0	6.4 6.5	6.5	6.5	13.9 14.0	14.0		5.4 4.7	5.1	
31-Aug-15	Cloudy	Moderate	07:20		Surface	1.0	27.0 27.0	27.0	8.1 8.1	8.1	29.5 29.5	29.5	84.6 90.1	87.4	5.8 6.1	6.0	6.0	14.8 15.0	14.9		7.1 7.6	7.4	
				3.3	Middle	-	-	-		-	-	-		-	-	-	0.0	-	-	15.0	-	-	9.2
					Bottom	2.3	27.0 27.0	27.0	8.1 8.1	8.1	29.6 29.5	29.5	85.3 84.0	84.7	5.8 5.7	5.8	5.8	15.0 15.0	15.0		11.4 10.6	11.0	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	Ti	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*
3-Aug-15	Sunny	Moderate	14:47		Surface	1.0	28.1 28.3	28.2	8.0 8.0	8.0	25.2 25.0	25.1	83.3 83.9	83.6	5.7 5.8	5.7		9.2 9.3	9.3		4.5 4.8	4.7	1
				10.5	Middle	5.3	26.0 25.9	26.0	8.0 8.0	8.0	30.5 29.9	30.2	83.7 80.9	82.3	5.7 5.6	5.6	5.7	9.6 9.5	9.6	9.5	5.6 5.5	5.6	5.5
					Bottom	9.5	25.9	26.0	8.0	8.0	33.1	33.0	78.4	78.6	5.4	5.4	5.4	9.8	9.7		6.7	6.3	1
5-Aug-15	Sunny	Moderate	16:16				26.1 28.9		8.0 8.1		33.0 22.9		78.8 80.1		5.4 5.5			9.6 3.6			5.9 6.5		
3-Aug-13	Guilly	Woderate	10.10		Surface	1.0	28.8	28.8	8.1	8.1	23.2	23.0	78.9	79.5	5.4	5.4	5.3	3.6	3.6		5.4	6.0	
				10.5	Middle	5.3	28.6 28.7	28.6	8.1 8.1	8.1	23.9 23.7	23.8	76.7 77.7	77.2	5.2 5.3	5.2		3.9 3.9	3.9	3.8	6.8 6.9	6.9	6.5
					Bottom	9.5	28.5 28.4	28.5	8.0 8.0	8.0	23.9 24.3	24.1	77.4 76.5	77.0	5.3 5.2	5.2	5.2	4.0 3.8	3.9		7.0 6.0	6.5	
7-Aug-15	Sunny	Moderate	18:22		Surface	1.0	28.0 28.2	28.1	7.9 7.9	7.9	25.7 25.4	25.6	90.6 90.1	90.4	6.1 6.1	6.1		3.6 3.7	3.7		3.7 3.9	3.8	1
				10.6	Middle	5.3	26.3	26.4	7.8 7.8	7.8	30.7	29.9	85.3 84.4	84.9	5.7	5.8	6.0	3.8	3.8	3.9	4.8 4.7	4.8	4.6
					Bottom	9.6	26.5 26.4	26.5	7.8	7.9	29.1 32.1	32.0	81.7	80.9	5.8 5.5	5.5	5.5	4.1	4.2		4.7	5.3	
10-Aug-15	Cloudy	Moderate	10:23				26.5 28.8		7.9 8.4		32.0 18.6		80.1 106.2		5.5 7.4			4.2 3.7			5.8 2.6		
10-Aug-13	Cloudy	Woderate	10.23		Surface	1.0	28.7	28.8	8.4	8.4	18.4	18.5	104.0	105.1	7.3	7.3	6.5	3.6	3.7		2.5	2.6	
				9.6	Middle	4.8	27.7 28.1	27.9	8.3 8.3	8.3	26.7 25.8	26.3	83.5 81.9	82.7	5.7 5.6	5.6		3.8	3.8	3.8	2.8 3.0	2.9	2.5
					Bottom	8.6	25.6 25.7	25.6	8.1 8.1	8.1	33.9 33.4	33.7	79.1 76.6	77.9	5.3 5.2	5.3	5.3	3.8 3.8	3.8		2.0 2.0	2.0	<u> </u>
12-Aug-15	Sunny	Moderate	11:46		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	23.1 23.1	23.1	109.5 112.0	110.8	7.7 7.9	7.8		5.1 5.4	5.3		5.0 5.7	5.4	1
				11.3	Middle	5.7	27.0 26.8	26.9	8.3 8.2	8.2	27.5 29.1	28.3	94.9 98.4	96.7	6.6 6.9	6.8	7.3	6.3 6.7	6.5	6.1	5.3 4.6	5.0	5.0
					Bottom	10.3	26.8	26.7	8.2	8.2	29.5	29.2	103.2	101.4	7.2	7.1	7.1	6.1	6.4		4.0	4.5	
14-Aug-15	Cloudy	Moderate	12:42				26.7 27.9		8.2 8.3		28.8 24.7	l	99.6 90.0		6.9			6.6		<u> </u>	5.0 7.2		
117.09 10	Cicacy	moderate			Surface	1.0	27.9 27.6	27.9	8.3	8.3	24.8	24.7	91.2 84.7	90.6	6.2 5.8	6.2	6.0	5.7	5.9		7.3	7.3	
				10.4	Middle	5.2	27.9	27.8	8.3 8.3	8.3	25.2	25.6	85.7	85.2	5.8	5.8		5.9	6.0	5.9	9.1	8.8	8.5
					Bottom	9.4	26.5 26.4	26.5	8.2 8.2	8.2	30.2 30.3	30.2	85.2 84.2	84.7	5.8 5.7	5.8	5.8	5.9 5.8	5.9		9.9 9.0	9.5	<u> </u>
17-Aug-15	Sunny	Moderate	14:11		Surface	1.0	28.0 27.9	27.9	8.1 8.1	8.1	24.7 24.8	24.7	80.6 78.8	79.7	5.5 5.4	5.4		8.0 8.2	8.1		7.4 8.3	7.9	1
				10.7	Middle	5.4	26.8	26.9	8.1	8.1	26.1	26.0	74.8	75.3	5.2	5.2	5.3	9.2	8.9	8.5	9.2	8.7	8.5
					Bottom	9.7	26.9 26.5	26.6	8.1 8.1	8.0	26.0 27.5	27.7	75.7 79.3	78.7	5.2 5.5	5.4	5.4	8.5 8.0	8.4		8.2 8.4	8.9	
19-Aug-15	Sunny	Moderate	14:55				26.6 28.7		8.0 8.1		27.8 22.2		78.1 78.2		5.4 5.4			8.7 6.0			9.3		
	,				Surface	1.0	28.7 26.6	28.7	8.1 8.1	8.1	22.6 27.9	22.4	79.1 73.6	78.7	5.4 5.1	5.4	5.3	5.9 6.0	6.0		2.8 4.0	2.6	
				10.2	Middle	5.1	26.8	26.7	8.1	8.1	27.7	27.8	75.7	74.7	5.2	5.2		6.1	6.1	6.1	3.6	3.8	3.7
					Bottom	9.2	26.0 25.8	25.9	8.1 8.1	8.1	30.8 31.5	31.1	72.5 75.1	73.8	5.0 5.2	5.1	5.1	6.3 6.2	6.3		4.7 4.8	4.8	
21-Aug-15	Sunny	Moderate	16:17		Surface	1.0	28.9 28.8	28.9	8.2 8.2	8.2	23.7 23.9	23.8	89.7 93.3	91.5	6.1 6.2	6.1	5.9	3.6 3.3	3.5		3.5 2.3	2.9	
				10.4	Middle	5.2	26.9 26.7	26.8	8.1 8.1	8.1	30.4 31.7	31.1	85.3 81.6	83.5	5.8 5.5	5.6	5.5	5.0 4.7	4.9	4.2	2.4 2.3	2.4	2.8
					Bottom	9.4	25.9	26.4	8.1	8.1	33.7	33.6	78.5	78.1	5.3	5.3	5.3	4.2	4.3		2.6	3.2	
		<u> </u>		<u> </u>			26.8	l	8.2	<u> </u>	33.4	<u> </u>	77.7	1	5.2	<u> </u>		4.4		l	3./	I .	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ture (°C)	F	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (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*
24-Aug-15	Sunny	Moderate	08:12		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	28.3 28.2	28.2	117.0 114.7	115.9	7.9 7.7	7.8	6.6	2.6 2.7	2.7		6.0 5.0	5.5	
				10.4	Middle	5.2	26.0 26.4	26.2	8.2 8.2	8.2	32.5 31.3	31.9	78.3 80.3	79.3	5.3 5.4	5.4	0.0	3.9 3.8	3.9	3.5	5.5 6.0	5.8	5.8
					Bottom	9.4	24.7 25.1	24.9	8.2 8.2	8.2	35.2 35.1	35.2	76.2 75.0	75.6	5.2 5.1	5.1	5.1	3.8 3.9	3.9		6.5 5.7	6.1	
26-Aug-15	Sunny	Moderate	10:06		Surface	1.0	27.3 27.1	27.2	8.3 8.3	8.3	30.4 30.6	30.5	95.8 91.6	93.7	6.4 6.1	6.3	5.8	4.2 4.1	4.2		5.6 6.3	6.0	
				11.0	Middle	5.5	25.8 25.9	25.8	8.2 8.2	8.2	33.2 33.3	33.3	74.1 78.8	76.5	5.0 5.3	5.2	0.0	6.4 6.3	6.4	5.7	5.6 4.1	4.9	6.1
					Bottom 1	10.0	24.8 24.9	24.9	8.2 8.2	8.2	35.6 35.7	35.6	72.7 74.4	73.6	4.9 5.0	5.0	5.0	6.6 6.4	6.5		7.3 7.2	7.3	
28-Aug-15	Rainy	Moderate	11:43		Surface	1.0	27.1 26.9	27.0	8.2 8.2	8.2	29.8 30.0	29.9	94.1 90.0	92.1	6.4 6.1	6.2	6.0	6.6 6.6	6.6		6.0 6.7	6.4	
				11.0	Middle	5.5	26.3 26.4	26.4	8.2 8.2	8.2	31.6 31.5	31.6	80.3 87.0	83.7	5.5 5.9	5.7	0.0	6.6 6.6	6.6	6.7	5.8 7.5	6.7	6.7
					Bottom 1	10.0	26.0 25.8	25.9	8.3 8.3	8.3	33.4 33.7	33.6	84.1 80.1	82.1	5.7 5.4	5.6	5.6	6.8 6.8	6.8		6.2 7.5	6.9	
31-Aug-15	Cloudy	Moderate	13:15		Surface	1.0	27.2 27.2	27.2	8.1 8.1	8.1	30.7 30.7	30.7	83.5 83.7	83.6	5.7 5.7	5.7	5.7	8.1 8.0	8.1		10.0 10.7	10.4	
				11.1	Middle	5.6	26.6 26.7	26.6	8.1 8.1	8.1	31.4 31.3	31.3	82.8 82.1	82.5	5.6 5.5	5.6	5.7	8.1 8.0	8.1	8.1	10.6 11.5	11.1	10.8
					Bottom 1	10.1	26.2 26.9	26.6	8.1 8.1	8.1	33.0 32.5	32.8	81.4 81.3	81.4	5.5 5.5	5.5	5.5	8.2 8.0	8.1		10.2 11.5	10.9	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	Ti	urbidity(NT	U)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	08:29		Surface	1.0	27.5 27.4	27.5	8.0 8.0	8.0	23.5 23.7	23.6	77.7 76.8	77.3	5.4 5.4	5.4		9.5 9.5	9.5		6.3 7.1	6.7	
				10.0	Middle	5.0	26.9	26.9	8.0	8.0	25.9	25.8	75.8	75.7	5.2	5.2	5.3	9.3	9.4	9.5	6.1	6.2	6.5
					Bottom	9.0	26.8 26.8	26.6	7.9	8.0	25.8 29.1	29.3	75.5 75.6	75.2	5.2 5.2	5.2	5.2	9.5 9.9	9.7		6.2	6.6	1 '
5.045		Madagas	00.50		Bottom	0.0	26.4	20.0	8.0	0.0	29.5	20.0	74.7	70.2	5.2	0.2	0.2	9.4	0		6.6	0.0	
5-Aug-15	Sunny	Moderate	09:56		Surface	1.0	27.9 27.8	27.8	8.0 8.0	8.0	23.5 23.5	23.5	74.9 75.0	75.0	5.2 5.2	5.2	5.2	3.9	4.1		3.4 4.3	3.9	
				11.0	Middle	5.5	27.3 27.2	27.3	8.0 8.0	8.0	25.4 26.0	25.7	78.0 74.9	76.5	5.3 5.1	5.2	0.2	4.6 4.3	4.5	4.5	4.0 4.9	4.5	3.8
					Bottom	10.0	27.0 27.1	27.1	8.0 8.0	8.0	26.5 27.0	26.8	71.9 71.5	71.7	4.9 4.9	4.9	4.9	5.0 4.8	4.9		3.0 3.0	3.0	ļ
7-Aug-15	Sunny	Moderate	12:38		Surface	1.0	28.1	27.8	7.8	7.8	24.5	24.7	77.9	81.2	5.3	5.5		2.6	2.7		6.5	6.4	
				10.7	Middle	5.4	27.4 26.9	27.0	7.8 7.8	7.8	25.0 27.9	27.1	84.5 76.6	75.4	5.7 5.2	5.1	5.3	3.0	3.0	3.0	6.2	6.3	6.2
					Bottom	9.7	27.1 26.9	26.9	7.8 7.8	7.8	26.3 29.1	28.8	74.2 74.8	72.6	5.1 5.1	5.0	5.0	2.9 3.2	3.3		5.9 6.0	5.8	•
40 40 45	Ola di .	Madazata	47.04		Bollom	5.1	26.9	20.9	7.8	7.0	28.4	20.0	70.4	72.0	4.8	3.0	3.0	3.4	3.3		5.6	5.0	
10-Aug-15	Cloudy	Moderate	17:01		Surface	1.0	28.8 28.8	28.8	8.5 8.5	8.5	21.4 21.9	21.7	119.1 120.6	119.9	8.2 8.3	8.2	7.1	4.9 4.7	4.8		3.8 4.0	3.9	
				10.3	Middle	5.2	28.0 27.9	28.0	8.3 8.3	8.3	26.7 26.4	26.6	87.1 88.3	87.7	5.9 6.0	5.9		6.2 6.5	6.4	5.9	3.3 5.1	4.2	5.0
					Bottom	9.3	26.4 26.3	26.3	8.2 8.2	8.2	31.9 31.9	31.9	85.6 86.6	86.1	5.8 5.9	5.8	5.8	6.5 6.5	6.5		6.9 6.6	6.8	
12-Aug-15	Sunny	Moderate	18:14		Surface	1.0	29.6 28.1	28.9	8.2 8.2	8.2	24.1 28.6	26.3	118.2 115.0	116.6	8.2 8.0	8.1		7.7 7.2	7.5		4.2 5.1	4.7	
				10.8	Middle	5.4	27.3 27.3	27.3	8.0 8.0	8.0	28.4 28.4	28.4	101.5 97.7	99.6	7.1 6.8	6.9	7.5	8.8 8.3	8.6	9.0	4.1 3.5	3.8	4.4
					Bottom	9.8	27.1	27.3	8.0	8.0	28.2	29.0	102.2	101.2	7.1	7.0	7.0	10.6	10.9		5.0	4.8	. '
14-Aug-15	Cloudy	Moderate	05:57				27.4 27.4		8.0		29.8 25.8		100.1 84.3		7.0 5.8			11.2 4.6			4.6 3.4		
14-Aug-13	Cloudy	Woderate	03.37		Surface	1.0	27.2	27.3	8.3	8.3	25.9	25.8	82.8	83.6	5.7	5.7	5.6	4.5	4.6		3.1	3.3	
				10.0	Middle	5.0	26.4 26.3	26.3	8.2 8.2	8.2	29.0 29.1	29.0	78.2 79.4	78.8	5.3 5.4	5.4		4.8 5.0	4.9	4.8	3.7 3.0	3.4	3.3
					Bottom	9.0	25.9 25.8	25.8	8.2 8.2	8.2	31.8 31.9	31.8	78.0 77.8	77.9	5.3 5.3	5.3	5.3	4.9 4.8	4.9		3.6 2.9	3.3	
17-Aug-15	Sunny	Moderate	07:36		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	24.0 24.0	24.0	87.5 90.4	89.0	6.0 6.2	6.1		4.0 4.2	4.1		6.3 6.0	6.2	
				11.0	Middle	5.5	26.9	26.9	8.1	8.1	26.8	26.8	86.0	84.4	5.9	5.8	6.0	4.6	4.6	4.5	7.2	7.2	7.1
					Bottom	10.0	26.9 26.9	26.9	8.1 8.1	8.1	26.7 26.9	26.9	82.7 83.3	86.6	5.7 5.7	5.9	5.9	4.6 4.7	4.7		7.1	7.9	
19-Aug-15	Sunny	Moderate	08:49		Surface	1.0	26.9 28.5	28.4	8.1 8.1	8.1	26.9 22.8	23.2	89.8 88.6	87.1	6.2 6.1	6.0		4.6 3.4	3.4		7.9 4.0	3.5	
							28.2 26.9		8.1 8.1		23.7 27.8		85.5 79.7		5.9 5.5		5.7	3.3 3.6			3.0		
				10.9	Middle	5.5	27.0	27.0	8.1 8.0	8.1	27.6 30.0	27.7	77.1 75.0	78.4	5.3 5.2	5.4		3.5	3.6	3.6	2.7	2.9	3.1
					Bottom	9.9	26.3	26.3	8.1	8.1	30.0	30.0	78.9	77.0	5.4	5.3	5.3	3.6	3.7		3.0	3.0	
21-Aug-15	Sunny	Moderate	10:28		Surface	1.0	27.7 27.4	27.5	8.1 8.1	8.1	26.0 26.6	26.3	82.4 81.1	81.8	5.6 5.5	5.6	5.5	2.5 2.7	2.6		2.4 2.5	2.5]
				10.4	Middle	5.2	26.8 26.9	26.9	8.1 8.1	8.1	27.9 27.7	27.8	79.2 76.2	77.7	5.4 5.2	5.3	0.0	2.5 2.3	2.4	2.5	3.6 2.7	3.2	2.8
					Bottom	9.4	26.7 26.7	26.7	8.1 8.1	8.1	28.9 29.1	29.0	76.8 81.7	79.3	5.2 5.6	5.4	5.4	2.5	2.6		3.0	2.7]
<u> </u>		l		1	1 1		20.7	l	0.1		29.1		01./		0.0	1		2.1	l	<u> </u>	2.4	<u> </u>	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling) Tei	perature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m) Val	ie Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
24-Aug-15	Sunny	Moderate	15:09		Surface 1	1.0 28 28		8.5 8.5	8.5	27.9 27.7	27.8	131.6 135.9	133.8	8.8 9.0	8.9	7.6	5.8 5.8	5.8		5.1 4.9	5.0	
				10.5	Middle 5	5.3 26	26.1	8.3 8.3	8.3	32.1 32.4	32.3	90.9 89.9	90.4	6.2 6.1	6.2	7.0	5.6 5.8	5.7	5.8	5.9 5.1	5.5	5.5
					Bottom 9	9.5 24 25	25.0	8.2 8.3	8.3	34.7 34.1	34.4	85.4 78.4	81.9	5.8 5.3	5.5	5.5	5.8 5.8	5.8		6.0 6.1	6.1	
26-Aug-15	Sunny	Moderate	17:13		Surface 1	1.0 27 27		8.3 8.3	8.3	30.9 30.5	30.7	88.1 92.7	90.4	5.9 6.2	6.0	5.8	10.7 10.4	10.6		13.1 13.8	13.5	
				10.9	Middle 5	5.5 25 25		8.2 8.1	8.1	33.4 33.6	33.5	80.9 80.5	80.7	5.5 5.4	5.5	0.0	10.2 10.3	10.3	10.4	13.7 15.7	14.7	15.3
					Bottom 9	9.9 25 25	25.4	8.2 8.0	8.1	34.6 34.5	34.6	79.6 79.8	79.7	5.4 5.4	5.4	5.4	10.3 10.2	10.3		17.8 17.6	17.7	
28-Aug-15	Sunny	Moderate	18:03		Surface 1	1.0 27	2/4	8.2 8.2	8.2	29.4 29.5	29.5	93.8 90.1	92.0	6.3 6.1	6.2	6.2	9.1 9.0	9.1		2.3 2.4	2.4	
				11.4	Middle 5	5.7 26 26	2h h	8.2 8.2	8.2	31.0 31.3	31.1	88.6 91.2	89.9	6.0 6.2	6.1	0.2	9.1 9.1	9.1	9.2	2.6 3.6	3.1	2.6
					Bottom 1	0.4 26 26		8.3 8.3	8.3	31.7 31.6	31.7	85.3 82.5	83.9	5.8 5.6	5.7	5.7	9.3 9.4	9.4		2.1 2.7	2.4	
31-Aug-15	Cloudy	Moderate	07:06		Surface 1	1.0 26 26		8.1 8.1	8.1	30.2 30.1	30.2	90.8 84.2	87.5	6.2 5.7	6.0	5.9	4.9 5.0	5.0		5.3 5.4	5.4	
				11.1	Middle 5	5.6 26 26	5 20.6	8.1 8.1	8.1	30.4 30.7	30.6	87.8 83.3	85.6	6.0 5.7	5.8	5.9	5.0 5.2	5.1	5.1	5.4 4.9	5.2	5.5
					Bottom 1	0.1 26 26	26.4	8.1 8.1	8.1	32.1 32.0	32.0	85.3 81.7	83.5	5.8 5.6	5.7	5.7	5.2 5.2	5.2		5.1 6.7	5.9	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(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*
3-Aug-15	Sunny	Moderate	13:36		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.8	Middle	0.9	27.8 27.8	27.8	8.0 8.1	8.1	25.5 25.3	25.4	84.9 87.2	86.1	5.9 6.0	5.9	5.9	22.3 22.2	22.3	22.3	21.8 21.1	21.5	21.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	İ
5-Aug-15	Sunny	Moderate	14:53		Surface	-		-	-	-	-	-		-	-	-		-	-		-	-	
				1.8	Middle	0.9	28.6 28.6	28.6	8.1 8.1	8.1	22.4 22.6	22.5	85.9 84.5	85.2	5.9 5.8	5.8	5.8	6.9 7.2	7.1	7.1	10.6 9.0	9.8	9.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
7-Aug-15	Sunny	Moderate	17:29		Surface	-		-	-	-	-	-		-	-	-		-	-		-	-	
				1.4	Middle	0.7	29.8 29.8	29.8	7.8 7.9	7.9	21.4 21.6	21.5	107.3 104.5	105.9	7.2 6.9	7.1	7.1	8.3 8.4	8.4	8.4	4.7 4.9	4.8	4.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
10-Aug-15	Cloudy	Moderate	11:25		Surface	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-		-	-	
				1.4	Middle	0.7	28.9 29.0	29.0	8.4 8.4	8.4	22.1 21.8	22.0	114.0 117.3	115.7	7.8 8.0	7.9	7.9	4.2 4.1	4.2	4.2	5.4 4.4	4.9	4.9
					Bottom	-	1 1	-	-	-	1 1	-		-	-	-	-	-	-		-	-	
12-Aug-15	Sunny	Moderate	13:11		Surface	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-		-	-	
				1.6	Middle	0.8	29.4 29.3	29.4	8.3 8.3	8.3	23.5 23.6	23.5	112.0 112.4	112.2	7.8 7.8	7.8	7.0	4.7 4.6	4.7	4.7	5.2 6.9	6.1	6.1
					Bottom	-		-		-	1 1	-		-		-	-	-	-		-	-	
14-Aug-15	Cloudy	Moderate	11:40		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				1.4	Middle	0.7	27.9 27.9	27.9	8.3 8.3	8.3	25.4 25.4	25.4	92.6 94.8	93.7	6.3 6.5	6.4	0.4	10.6 10.5	10.6	10.6	5.6 6.0	5.8	5.8
					Bottom	-		-		-	1 1	-	1 1	-	-	-	-	-	-		-	-	
17-Aug-15	Sunny	Moderate	13:03		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.6	Middle	0.8	28.0 27.9	27.9	8.3 8.2	8.2	23.3 23.5	23.4	99.0 95.5	97.3	6.8 6.6	6.7	0.7	8.5 9.3	8.9	8.9	13.2 13.6	13.4	13.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
19-Aug-15	Sunny	Moderate	13:52		Surface	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-		-	-	
				1.4	Middle	0.7	29.1 29.2	29.2	8.2 8.2	8.2	23.2 23.1	23.1	95.5 96.3	95.9	6.5 6.5	6.5	0.0	5.5 5.3	5.4	5.4	4.9 6.0	5.5	5.5
					Bottom	-		-	-	-		-		-	-	-	-	-	-]		-	-	
21-Aug-15	Sunny	Moderate	15:09		Surface	-		-	-	-	-	-		-	-	-	6.5	-	-		-	-	
				1.4	Middle	0.7	29.1 29.3	29.2	8.2 8.2	8.2	25.0 24.4	24.7	97.2 98.0	97.6	6.5 6.6	6.5	0.0	7.0 6.7	6.9	6.9	4.3 5.4	4.9	4.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	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*
24-Aug-15	Sunny	Moderate	09:15		Surface	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-		-	-	
				1.4	Middle	0.7	28.6 28.6	28.6	8.4 8.4	8.4	27.8 27.8	27.8	115.9 117.3	116.6	7.7 7.8	7.7	1.1	3.6 3.5	3.6	3.6	6.0 6.4	6.2	6.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
26-Aug-15	Sunny	Moderate	11:16		Surface	-	1 1	-	-	-	-	-	1 1	-	1 1	-	6.7	-	-		-	-	
				1.4	Middle	0.7	27.9 27.9	27.9	8.3 8.3	8.3	29.4 29.4	29.4	101.1 99.5	100.3	6.7 6.6	6.7	0.7	3.6 3.5	3.6	3.6	9.4 8.9	9.2	9.2
					Bottom	-		-		-	-	-	1 1	-	1	-	-	-	-		-	-	
28-Aug-15	Rainy	Moderate	12:41		Surface	,	1 1	-		-	-	-	1 1	-		-	6.3	-	-		-	-	
				1.8	Middle	0.9	27.3 27.3	27.3	8.3 8.3	8.3	30.1 30.2	30.2	92.9 92.9	92.9	6.3 6.3	6.3	0.5	8.6 8.5	8.6	8.6	7.8 8.4	8.1	8.1
					Bottom	-		-	-	-	-	-		-		-	-	-	-		-	-	
31-Aug-15	Cloudy	Moderate	12:15		Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-		-	-	
				1.6	Middle	0.8	27.0 27.0	27.0	8.2 8.2	8.2	31.0 30.9	30.9	84.2 87.5	85.9	5.7 5.9	5.8	5.0	16.7 16.4	16.6	16.6	11.8 12.4	12.1	12.1
					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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Temper	ature (°C)	ř.	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed 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*
3-Aug-15	Sunny	Moderate	09:35		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.6	Middle	0.8	27.9 27.9	27.9	8.0 8.0	8.0	23.2 23.2	23.2	76.4 76.5	76.5	5.3 5.3	5.3	5.3	10.5 10.3	10.4	10.4	7.6 8.1	7.9	7.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
5-Aug-15	Sunny	Moderate	11:17		Surface	-		-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.8	Middle	0.9	28.7 28.7	28.7	8.1 8.1	8.1	22.8 22.9	22.8	82.9 82.5	82.7	5.7 5.6	5.6	5.6	5.9 5.6	5.8	5.8	6.0 6.7	6.4	6.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1
7-Aug-15	Sunny	Moderate	13:35		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.4	Middle	0.7	29.6 29.5	29.5	8.0 8.0	8.0	23.9 23.9	23.9	107.9 102.1	105.0	7.2 6.8	7.0	7.0	9.9 9.8	9.9	9.9	10.7 12.0	11.4	11.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1
10-Aug-15	Cloudy	Moderate	15:55		Surface	-	-	-	-	-	-	-	-	-	-	-	10.1	-	-		-	-	
				1.2	Middle	0.6	29.2 29.3	29.2	8.6 8.6	8.6	25.9 25.6	25.8	150.3 152.9	151.6	10.0 10.2	10.1	10.1	3.6 3.6	3.6	3.6	8.7 8.0	8.4	8.4
					Bottom	-		-	-	-		-		-	-	-	-	-	-		-	-	
12-Aug-15	Sunny	Moderate	17:00		Surface	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-		-	-	
				1.6	Middle	0.8	31.0 31.0	31.0	8.2 8.2	8.2	22.0 22.3	22.2	122.2 119.9	121.1	8.4 8.2	8.3	0.5	3.8 4.0	3.9	3.9	6.2 5.8	6.0	6.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
14-Aug-15	Cloudy	Moderate	06:56		Surface	-		-	-	-		-		-	-	-	6.3	-	-		-	-	
				1.4	Middle	0.7	28.1 28.1	28.1	8.3 8.3	8.3	25.7 25.7	25.7	93.3 93.2	93.3	6.3 6.3	6.3	0.0	6.5 6.6	6.6	6.6	6.3 5.6	6.0	6.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Aug-15	Sunny	Moderate	08:45		Surface	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-		-	-	
				1.6	Middle	8.0	27.6 27.6	27.6	8.1 8.1	8.1	25.1 25.0	25.1	90.0 91.0	90.5	6.2 6.2	6.2		6.3 6.2	6.3	6.3	6.5 6.5	6.5	6.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	<u> </u>
19-Aug-15	Sunny	Moderate	09:51		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				1.8	Middle	0.9	28.9 28.9	28.9	8.1 8.1	8.1	24.3 24.3	24.3	94.7 94.7	94.7	6.4 6.4	6.4		6.4 6.5	6.5	6.5	6.3 5.9	6.1	6.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	<u> </u>
21-Aug-15	Sunny	Moderate	11:36		Surface	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-		-	-	ļ
				1.6	Middle	8.0	29.4 29.5	29.4	8.1 8.1	8.1	24.1 24.0	24.0	90.9 92.2	91.6	6.1 6.2	6.1		5.6 5.2	5.4	5.4	2.7 2.8	2.8	2.8
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:00		Surface	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-		-	-	
				1.6	Middle	0.8	28.5 28.8	28.7	8.5 8.5	8.5	27.3 27.2	27.2	134.9 135.6	135.3	9.0 9.0	9.0	9.0	3.9 3.8	3.9	3.9	6.2 4.3	5.3	5.3
					Bottom	-		-		-	-	-	1 1	-		-	-	-	-		-	-	
26-Aug-15	Sunny	Moderate	16:11		Surface	-	1 1	-	-	-	-	-	1 1	-		-	6.3	-	-		-	-	
				1.4	Middle	0.7	27.6 27.6	27.6	8.1 8.0	8.1	29.9 29.7	29.8	93.1 96.1	94.6	6.2 6.4	6.3	0.5	18.7 18.2	18.5	18.5	11.6 10.2	10.9	10.9
					Bottom	-		-		-	-	-	1 1	-		-	-	-	-		-	-	
28-Aug-15	Sunny	Moderate	17:06		Surface	,	1 1	-		-	-	-	1 1	-		-	7.0	-	-		-	-	
				1.6	Middle	0.8	28.1 28.1	28.1	8.4 8.4	8.4	28.4 28.4	28.4	104.3 104.2	104.3	7.0 7.0	7.0	7.0	8.7 8.0	8.4	8.4	9.4 11.1	10.3	10.3
					Bottom	-		-	-	-	-	-		-	-	-	-	-	-		-	-	
31-Aug-15	Cloudy	Moderate	08:06		Surface	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-		-	-	
				1.6	Middle	0.8	27.2 27.2	27.2	8.1 8.1	8.1	30.1 30.1	30.1	80.8 80.7	80.8	5.5 5.5	5.5	5.5	9.1 9.0	9.1	9.1	13.4 15.1	14.3	14.3
					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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	T	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*
3-Aug-15	Sunny	Moderate	14:25		Surface	1.0	28.2 28.1	28.1	8.0 8.0	8.0	23.7 24.1	23.9	78.5 76.8	77.7	5.3 5.2	5.3		10.3 10.4	10.4		2.6 2.9	2.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	10.4	-	-	3.4
					Bottom	2.7	28.0	27.9	8.0	8.0	26.0 26.1	26.0	75.5 76.9	76.2	5.2 5.3	5.2	5.2	10.5 10.2	10.4		3.6	4.0	l
5-Aug-15	Sunny	Moderate	15:44				28.7		8.1		23.7		78.2		5.3			3.7			8.0		
0 / lag 10	Cumy	modorato			Surface	1.0	28.7	28.7	8.1	8.1	23.6	23.6	78.8	78.5	5.3	5.3	5.3	3.6	3.7		7.2	7.6	1
				3.5	Middle	-	28.7	-	- 8.1	-	23.9	-	78.3	-	5.3	-		3.6	-	3.6	5.6	-	6.8
					Bottom	2.5	28.6	28.6	8.1	8.1	24.2	24.0	78.1	78.2	5.3	5.3	5.3	3.3	3.5		6.4	6.0	<u> </u>
7-Aug-15	Sunny	Moderate	18:03		Surface	1.0	29.4 29.6	29.5	8.0 8.0	8.0	24.3 24.1	24.2	105.4 106.9	106.2	7.1 7.2	7.1	7.1	8.6 8.5	8.6		6.0 5.5	5.8	
				3.7	Middle	-	-	-	-	-	-	-		-		-		-	-	8.8	-	-	6.0
					Bottom	2.7	29.6 29.6	29.6	7.9 7.9	7.9	24.1 24.1	24.1	101.5 104.9	103.2	6.8 7.1	7.0	7.0	8.8 8.9	8.9		6.4 5.8	6.1	
10-Aug-15	Cloudy	Moderate	10:42		Surface	1.0	28.9 28.7	28.8	8.5 8.5	8.5	23.9 24.4	24.1	131.7 133.9	132.8	8.9 9.0	9.0		17.8 17.8	17.8		6.3 6.5	6.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	17.8	-	-	7.1
					Bottom	2.7	28.7	28.7	8.5	8.5	25.4	25.3	134.5	128.5	9.0	8.6	8.6	17.6	17.7		7.8	7.7	l
12-Aug-15	Sunny	Moderate	12:18		Surface	1.0	28.6 29.6	29.5	8.4 8.2	8.1	25.1 22.6	22.7	122.4 102.6	102.7	8.2 7.1	7.1		17.7 6.6	6.7		7.5 3.8	4.5	
				3.6	Middle		29.3		8.1	-	22.9		102.7	-	7.1	***	7.1	6.8	-	7.4	5.1	-	5.3
				3.0		-	27.7		- 8.1		27.9		102.2		- 7.1	7.4	7.1	8.0		7.4	5.6		5.5
					Bottom	2.6	27.8	27.8	8.1	8.1	27.9	27.9	101.1	101.7	7.0	7.1	7.1	8.2	8.1		6.4	6.0	<u> </u>
14-Aug-15	Cloudy	Moderate	12:21		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	25.4 25.6	25.5	91.4 92.9	92.2	6.2 6.3	6.2	6.2	7.8 7.5	7.7		5.4 6.2	5.8	
				3.7	Middle	-	-	-		-	-	-		-		-		-	-	7.8	-	-	5.8
					Bottom	2.7	28.2 28.1	28.1	8.3 8.3	8.3	25.9 26.1	26.0	93.4 92.4	92.9	6.3 6.2	6.3	6.3	7.8 7.8	7.8		5.9 5.6	5.8	
17-Aug-15	Sunny	Moderate	13:47		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.1 24.1	24.1	86.1 87.9	87.0	5.9 6.0	6.0		5.4 5.6	5.5		4.4 4.6	4.5	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	5.7	-	-	5.0
					Bottom	2.6	27.7 28.0	27.9	8.1 8.1	8.1	24.6 24.3	24.4	89.1	88.0	6.1 5.9	6.0	6.0	5.9 5.6	5.8		5.5 5.4	5.5	1
19-Aug-15	Sunny	Moderate	14:30		Surface	1.0	28.7	28.8	8.1	8.1	23.0	22.9	97.1	96.5	6.6	6.5		6.9	7.0		4.5	4.4	
				3.4	Middle	_	28.9	_	8.1	_	22.9	_	95.9	_	6.5	_	6.5	7.0	_	7.1	4.2	-	4.5
				0	Bottom	2.4	28.6	28.9	8.1	8.1	24.3	24.2	94.9	95.0	6.5	6.5	6.5	7.0	7.1	'''	4.0	4.5	
21-Aug-15	Sunny	Moderate	15:54	<u> </u>		1.0	29.1 29.6		8.1 8.2		24.1 24.9		95.1 94.9		6.5 6.3		0.0	7.1 4.7			5.0 2.3		
	,				Surface	1.0	29.6	29.6	8.2	8.2	24.9	24.9	96.4	95.7	6.4	6.4	6.4	5.0	4.9		3.2	2.8	
				3.6	Middle	-	27.7	-	8.2	-	- 27.9	-	95.0	-	6.4	-		- 5.7	-	5.2	3.0	-	3.0
					Bottom	2.6	28.0	27.9	8.2 8.2	8.2	27.9 28.7	28.3	95.0 95.3	95.2	6.4	6.4	6.4	5.7	5.5		3.0	3.1	<u>i </u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	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*
24-Aug-15	Sunny	Moderate	08:34		Surface	1.0	28.5 28.8	28.7	8.4 8.4	8.4	27.7 27.5	27.6	115.8 115.5	115.7	7.8 7.7	7.7	7.7	4.4 4.3	4.4		4.5 4.1	4.3	
				3.6	Middle	-		-		-	-	-	-			-	7.7	-	-	4.4	-	-	4.5
					Bottom	2.6	27.1 28.4	27.7	8.2 8.4	8.3	29.8 28.9	29.3	115.1 115.0	115.1	7.6 7.7	7.7	7.7	4.5 4.3	4.4		5.3 3.8	4.6	
26-Aug-15	Sunny	Moderate	10:32		Surface	1.0	28.7 28.8	28.8	8.4 8.4	8.4	29.0 28.8	28.9	95.4 88.2	91.8	6.3 5.8	6.0	6.0	3.7 3.8	3.8		6.3 6.4	6.4	
				3.6	Middle	-		-		-	-	-	-			-	0.0	-	-	3.8	-	-	5.7
					Bottom	2.6	26.7 26.9	26.8	8.2 8.3	8.3	32.1 32.0	32.1	87.6 94.4	91.0	5.8 6.3	6.0	6.0	3.8 3.8	3.8		4.2 5.8	5.0	
28-Aug-15	Rainy	Moderate	12:02		Surface	1.0	27.4 27.3	27.3	8.2 8.2	8.2	30.7 30.9	30.8	84.5 83.9	84.2	5.7 5.6	5.6	5.6	10.0 9.9	10.0		2.1 2.2	2.2	
				3.5	Middle			-		-	-	-		-		-	5.0	-	-	10.1	-	-	2.4
					Bottom	2.5	27.3 27.2	27.3	8.2 8.2	8.2	30.8 31.0	30.9	83.8 83.4	83.6	5.6 5.6	5.6	5.6	10.2 10.0	10.1		2.1 2.9	2.5	
31-Aug-15	Cloudy	Moderate	12:54		Surface	1.0	27.5 27.4	27.5	8.1 8.1	8.1	30.2 30.3	30.3	90.4 89.1	89.8	6.1 6.0	6.1	6.1	6.3 6.3	6.3		5.9 6.2	6.1	
				3.3	Middle	-	1 1	-	1 1	-	-	-		-		-	0.1	-	-	6.4	-	-	5.8
					Bottom	2.3	27.5 27.3	27.4	8.1 8.1	8.1	30.3 30.5	30.4	88.0 90.0	89.0	5.9 6.1	6.0	6.0	6.4 6.3	6.4		5.0 5.9	5.5	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Aug-15	Sunny	Moderate	08:50		Surface	1.0	27.8 27.8	27.8	7.9 7.9	7.9	21.6 21.6	21.6	83.9 83.9	83.9	5.9 5.9	5.9		11.7 11.2	11.5		7.1 7.2	7.2	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	11.4	-	-	7.6
					Bottom	2.7	27.8	27.7	7.9	7.9	22.0	22.2	83.9	83.4	5.9	5.8	5.8	11.4	11.3		7.3	8.0	1
5-Aug-15	Sunny	Moderate	10:26				27.6 28.2		7.9 8.0		22.3 21.8		82.8 78.7		5.8 5.4			7.0			8.6 6.2		
3-Aug-13	Suring	Woderate	10.20		Surface	1.0	28.2	28.2	8.0	8.0	22.0	21.9	78.2	78.5	5.4	5.4	5.4	7.0	7.0		6.0	6.1]
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.2	-	-	6.2
					Bottom	2.8	28.0 28.1	28.1	8.0 8.0	8.0	22.7 22.9	22.8	78.0 78.3	78.2	5.4 5.4	5.4	5.4	7.3 7.3	7.3		6.5 5.9	6.2	
7-Aug-15	Sunny	Moderate	12:59		Surface	1.0	29.2 28.9	29.1	7.9 7.9	7.9	22.7 22.8	22.8	99.5 95.8	97.7	6.7 6.5	6.6	6.6	10.1 10.2	10.2		5.3 5.4	5.4	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	10.4	-	-	6.3
					Bottom	2.8	29.2 29.2	29.2	7.9 7.9	7.9	23.7 22.6	23.2	99.3 99.6	99.5	6.7 6.7	6.7	6.7	10.5 10.6	10.6		7.0 7.4	7.2	
10-Aug-15	Cloudy	Moderate	16:39		Surface	1.0	28.8	28.9	8.5	8.5	22.6	22.5	138.8	138.0	9.3	9.3		10.6	10.7		14.0	14.8	\vdash
				4.0	Middle	_	28.9	_	8.5 -	_	22.4	_	137.2	_	9.2	_	9.3	10.7	_	10.7	15.5	_	17.3
					Bottom	3.0	29.0	29.0	8.5	8.5	25.6	25.0	130.5	138.3	8.9	9.4	9.4	10.4	10.6	10.1	19.7	19.8	
12-Aug-15	Sunny	Moderate	17:44				29.0 29.1		8.5 8.3		24.3 25.7		146.1 121.0		9.9 8.4		3.4	10.8 18.8			19.8 13.6		
127149 10	Cumy	modorato			Surface	1.0	29.6	29.3	8.2	8.3	25.3	25.5	120.9	121.0	8.4	8.4	8.4	17.5	18.2		13.3	13.5	<u> </u>
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	19.8	-	-	14.4
					Bottom	2.3	29.1 28.7	28.9	8.2 8.2	8.2	26.3 26.8	26.6	120.7 120.8	120.8	8.3 8.3	8.3	8.3	21.7 21.0	21.4		15.4 15.1	15.3	
14-Aug-15	Cloudy	Moderate	06:17		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	24.2 24.2	24.2	90.0 91.8	90.9	6.2 6.3	6.2	6.2	6.5 6.2	6.4		3.9 3.2	3.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	6.5	-	-	4.2
					Bottom	2.7	27.6 27.8	27.7	8.2 8.3	8.3	26.3 25.8	26.1	88.5 91.2	89.9	6.0 6.2	6.1	6.1	6.4 6.5	6.5		4.9 4.6	4.8	
17-Aug-15	Sunny	Moderate	08:04		Surface	1.0	27.5 27.6	27.5	8.0 8.0	8.0	24.0 23.9	23.9	88.3 88.3	88.3	6.1 6.1	6.1		7.7 7.5	7.6		9.5 9.6	9.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	7.9	-	-	10.3
					Bottom	2.7	27.4	27.5	8.0	8.0	24.7	24.5	87.0	87.8	6.0	6.1	6.1	8.1	8.1		11.0	11.0	
19-Aug-15	Sunny	Moderate	09:11		Surface	1.0	27.5 28.4	28.4	8.0 8.1	8.1	24.3 22.9	22.9	88.6 88.9	88.8	6.1 6.1	6.1		8.0 3.6	3.6		10.9 5.1	4.1	
				2.4		1.0	28.4	20.4	8.1	-	22.9	-	88.6	-	6.1	0.1	6.1	3.5	0.0	2.7	3.1		2.6
				3.4	Middle	-	28.5		- 8.1		22.9		88.9		6.1	-		3.8	-	3.7	3.3	-	3.6
21-Aug-15	Cuppy	Moderate	10:53		Bottom	2.4	28.4 28.8	28.4	8.1 8.1	8.1	23.1	23.0	88.5 90.8	88.7	6.1	6.1	6.1	3.7 5.4	3.8		2.9 5.5	3.1	
21-Aug-15	Sunny	iviouerate	10:53		Surface	1.0	28.7	28.7	8.1	8.1	22.9	22.9	90.8	90.8	6.2	6.2	6.2	5.6	5.5		5.5	5.5]
				3.8	Middle	-	-	-	-	-	-	-	-	-		-		-	-	7.2	-	-	5.4
					Bottom	2.8	28.3 27.9	28.1	8.1 8.1	8.1	24.8 24.8	24.8	89.9 85.5	87.7	6.1 5.8	6.0	6.0	8.9 8.8	8.9		5.3 5.3	5.3	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	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*
24-Aug-15	Sunny	Moderate	14:45		Surface	1.0	28.6 29.2	28.9	8.5 8.5	8.5	26.4 26.1	26.2	143.3 137.1	140.2	9.6 9.1	9.4	9.4	12.8 12.2	12.5		7.1 6.5	6.8	
				3.7	Middle			-		-	-	-		-	1 1	-	3.4	-	-	12.5	-	-	6.9
					Bottom	2.7	28.6 28.2	28.4	8.5 8.4	8.5	27.7 28.3	28.0	137.8 136.7	137.3	9.2 9.1	9.1	9.1	12.5 12.2	12.4		7.0 7.0	7.0	
26-Aug-15	Sunny	Moderate	16:53		Surface	1.0	27.6 27.6	27.6	8.1 8.2	8.2	30.8 30.8	30.8	90.3 89.8	90.1	6.0 6.0	6.0	6.0	9.7 9.8	9.8		11.2 11.3	11.3	
				3.8	Middle			-		-	-	-		-	1 1	-	0.0	-	-	9.8	-	-	12.6
					Bottom	2.8	27.0 27.2	27.1	8.1 8.2	8.1	31.9 31.7	31.8	91.0 90.8	90.9	6.1 6.0	6.1	6.1	9.8 9.6	9.7		13.2 14.6	13.9	
28-Aug-15	Sunny	Moderate	17:44		Surface	1.0	27.4 27.5	27.4	8.3 8.3	8.3	30.1 30.0	30.0	101.0 103.7	102.4	6.8 7.0	6.9	6.9	14.0 14.0	14.0		6.1 6.4	6.3	
				3.5	Middle	-		-		-	-	-		-	1 1	-	0.9	-	-	14.1	-	-	7.0
					Bottom	2.5	27.5 27.5	27.5	8.3 8.3	8.3	30.0 29.9	30.0	99.9 100.5	100.2	6.7 6.8	6.7	6.7	14.1 14.0	14.1		7.8 7.4	7.6	
31-Aug-15	Cloudy	Moderate	07:26		Surface	1.0	27.0 27.0	27.0	8.1 8.1	8.1	29.6 29.6	29.6	81.6 81.7	81.7	5.6 5.6	5.6	5.6	14.6 14.6	14.6	_	10.1 10.4	10.3	
				3.3	Middle	-		-		-	-	-	1 1	-	-	-	5.0	-	-	14.7	-	-	11.0
					Bottom	2.3	27.0 27.0	27.0	8.1 8.1	8.1	29.6 29.6	29.6	81.6 81.7	81.7	5.6 5.6	5.6	5.6	14.8 14.7	14.8		11.8 11.4	11.6	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
3-Aug-15	Sunny	Moderate	14:31		Surface	1.0	26.7 26.7	26.7	7.8 7.8	7.8	19.0 19.0	19.0	79.8 83.8	81.8	5.8 6.0	5.9		8.6 8.5	8.6		3.3 4.0	3.7	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	9.2	-	-	4.0
					Bottom	3.6	25.1 25.1	25.1	7.8	7.8	23.7	23.7	79.1 81.2	80.2	5.7 5.9	5.8	5.8	10.3 9.3	9.8		4.1 4.5	4.3	
5-Aug-15	Sunny	Moderate	15:56		Curtons	4.0	26.5	26.5	7.0	7.9	21.5	04.0	80.3	00.5	5.7	<i>-</i> 7		1.9	1.0		5.3		
Ü	,				Surface	1.0	26.5		7.9		21.6	21.6	80.7	80.5	5.8	5.7	5.7	1.8	1.9		5.7	5.5	ł
				4.8	Middle	-	26.3	-	7.9	-	22.3	-	- 79.6	-	5.7	-		1.9	-	1.9	6.2	-	6.2
					Bottom	3.8	26.5	26.4	7.9	7.9	21.8	22.0	80.6	80.1	5.7	5.7	5.7	1.9	1.9		7.3	6.8	
7-Aug-15	Sunny	Moderate	18:02		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	14.1 14.0	14.0	92.4 88.0	90.2	6.7 6.3	6.5	6.5	2.2 2.1	2.2		3.3 3.4	3.4	
				5.2	Middle	ı		-		-		-		-		-		-	-	2.2	-	-	4.2
					Bottom	4.2	26.2 26.5	26.3	8.0 7.9	8.0	21.6 21.5	21.5	87.4 91.1	89.3	6.3 6.5	6.4	6.4	2.1 2.2	2.2		4.0 5.8	4.9	
10-Aug-15	Cloudy	Moderate	09:37		Surface	1.0	26.6 26.6	26.6	7.9 7.9	7.9	14.8 15.2	15.0	121.8 118.1	120.0	8.8 8.5	8.6		2.2 2.1	2.2		5.3 5.8	5.6	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	2.3	-	-	5.7
					Bottom	3.7	26.7	26.6	7.9	7.9	19.4	19.3	115.6	113.4	8.6	8.3	8.3	2.4	2.4		5.2	5.8	
12-Aug-15	Sunny	Moderate	11:16		Surface	1.0	26.6 26.0	26.2	7.9 7.8	7.8	19.3 20.8	20.8	111.1 126.9	126.1	8.0 9.0	9.0		1.3	1.3		6.3 4.7	4.8	
				4.3	Middle		26.3		7.9		20.7	_	125.2	_	9.0		9.0	1.2	<u> </u>	1.4	4.9		5.6
				4.0		3.3	24.6	25.4	7.7	7.8	26.3	25.2	- 113.6	115.8	8.3	0.4	8.4	1.5	4.5	1	6.4	6.3	0.0
14-Aug-15	Cloudy	Moderate	12:34		Bottom		26.2 25.8		7.9 8.1		24.0 20.4		117.9 94.3		8.5 6.8	8.4	8.4	1.4 1.5	1.5		6.1 6.0		
	oloddy	moderate	12.01		Surface	1.0	25.8	25.8	8.1	8.1	20.6	20.5	93.4	93.9	6.8	6.8	6.8	1.6	1.6		5.5	5.8	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.2	-	-	6.3
					Bottom	4.4	25.7 25.5	25.6	8.1 8.1	8.1	22.6 23.0	22.8	95.1 94.5	94.8	6.8 6.8	6.8	6.8	2.5 2.8	2.7		6.1 7.2	6.7	
17-Aug-15	Sunny	Moderate	14:16		Surface	1.0	24.9 25.1	25.0	7.9 7.9	7.9	23.2 22.9	23.0	76.5 76.7	76.6	5.6 5.6	5.6	5.6	7.7 7.5	7.6		3.9 4.5	4.2	
				4.9	Middle	-	-	-		-		-	-	-		-	5.0	-	-	7.6	-	-	4.8
					Bottom	3.9	24.8 25.0	24.9	7.9 7.9	7.9	23.6 23.3	23.5	77.4 75.7	76.6	5.6 5.5	5.6	5.6	7.5 7.4	7.5		5.5 5.3	5.4	
19-Aug-15	Sunny	Moderate	15:13		Surface	1.0	27.4 27.4	27.4	7.9 7.9	7.9	16.6 16.4	16.5	80.8 82.1	81.5	5.8 5.9	5.9		2.5 2.4	2.5		2.1 2.3	2.2	
				4.6	Middle	-	- 27.4	_	-	-	16.4	_	- 82.1	_	-	-	5.9	- 2.4	_	2.7	- 2.3	-	2.7
					Bottom	3.6	25.3	25.3	7.8	7.8	22.9	22.8	76.3	77.5	5.5	5.6	5.6	2.7	2.8		2.6	3.1	
21-Aug-15	Sunny	Moderate	16:23			1.0	25.4 27.0	26.9	7.8 8.0	8.0	22.6 18.5	18.7	78.6 90.3	89.7	5.7 6.5		0.0	2.8	2.5		3.5 2.2	2.4	
					Surface	1.0	26.8		8.0		18.9		89.1		6.4	6.4	6.4	2.4			2.6		
				5.2	Middle	-	- 25.2	-	- 7.9	-	23.6	-	83.5	-	- 6.1	-		2.4	-	2.5	3.2	-	2.8
					Bottom	4.2	25.2 25.4	25.3	7.9 7.9	7.9	23.4	23.5	85.1	84.3	6.1	6.1	6.1	2.4	2.4		3.2	3.2	<u> </u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplii	ng	Tempera	ature (°C)	F	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*
24-Aug-15	Sunny	Moderate	08:09		Surface	1.0	26.0 26.2	26.1	8.1 8.1	8.1	21.9 21.5	21.7	94.6 97.5	96.1	6.8 7.0	6.9	6.9	1.6 1.6	1.6		3.1 4.3	3.7	
				4.8	Middle	-	-	-		-	-	-		-		-	0.9	-	-	1.7	-	-	3.3
					Bottom	3.8	23.7 23.5	23.6	8.0 8.0	8.0	30.1 30.5	30.3	94.7 87.9	91.3	6.7 6.3	6.5	6.5	1.7 1.7	1.7		2.8 3.0	2.9	
26-Aug-15	Sunny	Moderate	10:07		Surface	1.0	24.6 24.8	24.7	8.1 8.1	8.1	26.8 27.1	27.0	98.0 100.2	99.1	7.0 7.1	7.1	7.1	1.6 1.7	1.7		3.7 4.7	4.2	
				4.9	Middle	-	-	-		-	-	-		-		-	7.1	-	-	1.7	-	-	5.3
					Bottom	3.9	24.2 24.3	24.3	8.1 8.1	8.1	28.7 28.4	28.6	97.5 98.3	97.9	6.9 7.0	7.0	7.0	1.6 1.7	1.7		6.6 6.2	6.4	
28-Aug-15	Rainy	Moderate	11:59		Surface	1.0	25.4 25.3	25.4	8.0 8.0	8.0	26.4 26.3	26.4	100.2 98.6	99.4	7.1 7.0	7.0	7.0	2.6 2.5	2.6		3.2 3.6	3.4	
				5.4	Middle	-	-	-		-	-	-		-		-	7.0	-	-	2.6	-	-	3.2
					Bottom	4.4	25.2 24.7	25.0	8.0 8.0	8.0	27.3 27.8	27.6	99.9 97.9	98.9	7.1 6.9	7.0	7.0	2.5 2.5	2.5		2.8 2.9	2.9	
31-Aug-15	Cloudy	Moderate	13:29		Surface	1.0	24.8 24.5	24.7	7.9 7.9	7.9	27.7 28.2	28.0	78.5 79.5	79.0	5.6 5.6	5.6	5.6	10.0 10.1	10.1		7.6 7.0	7.3	
				4.8	Middle	-	-	-		-	-	-		-		-	5.0	-	-	10.3	-	-	8.2
					Bottom	3.8	24.7 24.4	24.6	7.9 7.9	7.9	28.6 29.3	29.0	76.7 75.0	75.9	5.4 5.3	5.4	5.4	10.4 10.3	10.4		9.2 8.8	9.0	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	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*
3-Aug-15	Sunny	Moderate	08:38		Surface	1.0	25.2 25.2	25.2	7.8 7.8	7.8	21.9 21.9	21.9	74.8 74.8	74.8	5.4 5.4	5.4		11.1 11.0	11.1		19.5 19.6	19.6	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	11.6	-	-	19.4
					Bottom	3.8	25.1 25.1	25.1	7.8 7.8	7.8	23.2	23.2	74.6 74.9	74.8	5.4 5.4	5.4	5.4	11.9 12.3	12.1		19.3 18.8	19.1	
5-Aug-15	Sunny	Moderate	10:51		Surface	1.0	26.3	26.1	7.8	7.8	19.3	19.5	79.2	76.4	5.7	5.5		6.0	6.1		3.6	3.7	-
						1.0	25.9		7.8		19.6		73.5		5.2	5.5	5.5	6.1	0.1	0.0	3.8	3.1	
				5.5	Middle		25.2	-	7.8	-	24.6	-	- 75.4	-	- 5.5	-		6.3	-	6.3	3.4	-	3.9
7 100 45	Comment	Madagata	42.00		Bottom	4.5	25.7	25.5	7.8	7.8	24.3	24.4	71.5	73.5	5.2	5.3	5.3	6.4	6.4		4.6	4.0	
7-Aug-15	Sunny	Moderate	13:02		Surface	1.0	27.0 27.0	27.0	8.0	8.0	18.4 18.3	18.3	78.8 77.5	78.2	5.7 5.6	5.6	5.6	2.7	2.8		2.2 2.1	2.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.8	-	-	2.4
					Bottom	4.2	24.6 24.5	24.6	7.9 7.9	7.9	27.3 27.6	27.4	78.9 76.6	77.8	5.6 5.5	5.6	5.6	2.8 2.8	2.8		2.3 2.9	2.6	
10-Aug-15	Cloudy	Moderate	17:42		Surface	1.0	26.6 26.1	26.3	8.0 7.9	7.9	14.7 16.4	15.6	134.1 129.9	132.0	9.6 9.6	9.6		2.6 2.8	2.7		4.3 3.6	4.0	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	3.0	-	-	4.3
					Bottom	3.9	26.4 26.7	26.6	8.0 7.9	8.0	21.9 23.6	22.7	120.5 124.1	122.3	8.9 8.7	8.8	8.8	3.3	3.3		4.7 4.5	4.6	1
12-Aug-15	Sunny	Moderate	19:00		Surface	1.0	27.7	27.6	8.0	7.9	19.1	19.2	120.3	122.3	8.7	8.8		2.4	2.4		6.0	6.1	
				4.6	Middle	_	27.6	-	7.9	-	19.2	-	124.2	-	9.0	_	8.8	2.3	_	2.6	6.2	-	6.0
					Bottom	3.6	27.7	27.0	8.0	7.9	19.2	20.4	117.7	115.4	8.5	8.3	8.3	2.6	2.7		5.2	5.9	1
14-Aug-15	Cloudy	Moderate	06:00		Surface	1.0	26.3 25.3	25.3	7.8 8.1	8.1	21.6 23.5	23.4	113.0 87.2	88.4	8.2 6.3	6.4		3.3	3.3		6.5 5.0	4.7	
				4.9	Middle	1.0	25.4	20.0	8.1	0.1	23.4	20.4	89.6	00.4	6.4	0.4	6.4	3.2	-	4.0	4.4		4.9
				4.9		-	24.8	-	- 8.1		25.8	-	86.0		6.2	-	0.0	4.8		4.0	5.4		4.9
17-Aug-15	Sunny	Moderate	08:07		Bottom	3.9	24.9	24.8	8.1 7.9	8.1	25.3 22.2	25.6	86.8 77.3	86.4	6.2 5.6	6.2	6.2	4.3 7.5	4.6		4.6	5.0	
17-Aug-13	Sullily	Wioderate	08.07		Surface	1.0	24.7	24.8	7.9	7.9	22.7	22.4	75.7	76.5	5.5	5.6	5.6	7.4	7.5		5.2	4.7]
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.5	-	-	5.0
					Bottom	4.2	24.7 24.3	24.5	7.9 7.9	7.9	24.6 25.2	24.9	76.7 75.8	76.3	5.5 5.5	5.5	5.5	7.3 7.5	7.4		5.4 5.2	5.3	
19-Aug-15	Sunny	Moderate	09:34		Surface	1.0	25.6 25.8	25.7	7.9 7.9	7.9	23.1 22.6	22.8	80.9 80.3	80.6	5.8 5.9	5.8	5.8	3.5 3.4	3.5		3.1 3.3	3.2	
				4.8	Middle	-	-	-		-	-	-	-	-	-	-	ა.გ	-	-	3.7	-	-	3.1
					Bottom	3.8	24.2 23.7	23.9	7.8 7.8	7.8	28.1 29.1	28.6	75.8 73.2	74.5	5.4 5.2	5.3	5.3	3.7 3.8	3.8		3.3 2.6	3.0	
21-Aug-15	Sunny	Moderate	11:04		Surface	1.0	26.1 26.1	26.1	8.0 7.9	8.0	20.2	20.2	79.2 78.6	78.9	5.7 5.7	5.7		2.2 2.2	2.2		1.3 1.4	1.4	
				5.0	Middle	_		-	- 7.9	-	- 20.2	-	- 78.6	-	-	-	5.7	- 2.2	-	2.2	-	-	1.9
					Bottom	4.0	24.8	24.9	7.9	7.9	24.2	24.1	78.9	78.5	5.7	5.7	5.7	2.1	2.1		2.2	2.3	1
					Dottoill	4.0	24.9	24.0	7.9	7.0	24.0	23.1	78.0	7 0.0	5.6	0.7	0.1	2.1	2.1		2.3	2.0	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	nded Solids	(mg/L) د
	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*
24-Aug-15	Sunny	Moderate	15:15		Surface	1.0	27.1 27.1	27.1	8.3 8.3	8.3	21.9 21.9	21.9	137.3 133.6	135.5	9.7 9.5	9.6	9.6	2.1 2.1	2.1		4.1 3.8	4.0	
				5.0	Middle			-		-	-	-	-	-		-	3.0	-	-	2.5	-	-	3.9
					Bottom	4.0	24.7 24.7	24.7	8.1 8.1	8.1	27.2 26.5	26.8	112.9 118.5	115.7	8.0 8.5	8.3	8.3	2.9 2.6	2.8		2.8 4.5	3.7	
26-Aug-15	Sunny	Moderate	17:16		Surface	1.0	25.1 25.1	25.1	8.1 8.1	8.1	26.5 26.4	26.5	103.6 104.4	104.0	7.4 7.4	7.4	7.4	1.8 2.0	1.9		4.3 5.0	4.7	
				4.8	Middle	-		-		-	-	-	-	-		-	7	-	-	2.1	-	-	4.8
					Bottom	3.8	24.3 24.4	24.4	7.9 8.0	8.0	28.7 28.7	28.7	95.3 98.1	96.7	6.8 7.0	6.9	6.9	2.3 2.1	2.2		5.1 4.5	4.8	
28-Aug-15	Sunny	Moderate	18:20		Surface	1.0	25.5 25.5	25.5	8.0 8.1	8.1	27.2 27.2	27.2	101.1 100.4	100.8	7.1 7.1	7.1	7.1	3.3 3.5	3.4		10.6 9.6	10.1	
				5.1	Middle	-		-	1 1	-	-	-	-	-	1 1	-	7.1	-	-	3.5	-	-	11.5
					Bottom	4.1	25.4 25.3	25.4	8.1 8.1	8.1	27.5 27.6	27.6	100.7 99.9	100.3	7.1 7.0	7.0	7.0	3.6 3.5	3.6		12.0 13.6	12.8	
31-Aug-15	Cloudy	Moderate	07:51		Surface	1.0	24.6 24.6	24.6	7.9 7.9	7.9	28.2 28.2	28.2	78.5 77.0	77.8	5.6 5.5	5.5	5.5	11.5 11.6	11.6		14.6 13.6	14.1	
				4.9	Middle	-	1 1	-		-	-	-	-	-	-	-	5.5	-	-	11.7	-	-	15.5
					Bottom	3.9	24.6 24.5	24.6	7.9 7.9	7.9	28.2 28.4	28.3	74.2 74.7	74.5	5.3 5.3	5.3	5.3	11.7 11.8	11.8		16.0 17.6	16.8	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTI	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*
3-Aug-15	Sunny	Moderate	13:38		Surface	1.0	26.1 26.6	26.4	7.9 7.8	7.9	20.2 19.8	20.0	82.2 86.3	84.3	5.9 6.2	6.1	6.1	2.9 3.2	3.1		3.6 2.9	3.3	
				4.2	Middle	-		-	-	-	-	-	-	-	-	-	6.1	-	-	3.4	-	-	3.3
					Bottom	3.2	25.4 25.7	25.5	7.8 7.8	7.8	22.6 22.4	22.5	78.5 80.9	79.7	5.7 5.8	5.8	5.8	3.5 3.8	3.7		3.4 2.9	3.2	
5-Aug-15	Sunny	Moderate	15:10		Surface	1.0	26.6 26.6	26.6	7.9 7.9	7.9	21.2	21.1	81.1 80.5	80.8	5.8 5.7	5.8		2.4 2.4	2.4		8.0 8.9	8.5	
				4.0	Middle	-	-	-	-	-	-	-	-	-		-	5.8	-	-	2.4	-	-	7.1
					Bottom	3.0	26.4 26.6	26.5	7.9 7.9	7.9	22.2 22.1	22.2	79.8 80.6	80.2	5.7 5.7	5.7	5.7	2.4 2.4	2.4		5.9 5.5	5.7	
7-Aug-15	Sunny	Moderate	17:11		Surface	1.0	27.2 27.0	27.1	8.0 8.0	8.0	16.4 16.7	16.5	89.2 85.2	87.2	6.5 6.2	6.3		2.5 2.5	2.5		2.8 2.8	2.8	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	2.5	-	-	2.7
					Bottom	3.4	26.3 26.9	26.6	7.9 7.9	7.9	19.5 19.5	19.5	80.4 87.1	83.8	5.8 6.2	6.0	6.0	2.3 2.5	2.4		3.1 2.1	2.6	
10-Aug-15	Cloudy	Moderate	10:32		Surface	1.0	25.9 24.3	25.1	7.8 7.7	7.7	20.5 20.5	20.5	93.9 92.5	93.2	6.9 6.6	6.8		2.7 2.8	2.8		6.4 6.1	6.3	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	3.1	-	-	6.1
					Bottom	2.8	24.7 26.5	25.6	7.7 7.9	7.8	27.1 26.0	26.5	85.1 85.3	85.2	6.2 6.1	6.1	6.1	3.2 3.3	3.3		5.3 6.4	5.9	
12-Aug-15	Sunny	Moderate	12:09		Surface	1.0	25.5 26.5	26.0	7.8 8.0	7.9	22.1 19.6	20.9	117.5 115.6	116.6	8.5 8.3	8.4		1.3 1.4	1.4		6.3 6.1	6.2	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	1.5	-	-	6.4
					Bottom	2.7	24.9 25.1	25.0	7.9 8.0	8.0	26.2 24.3	25.3	110.5 110.1	110.3	8.0 7.9	8.0	8.0	1.6 1.5	1.6		7.1 6.0	6.6	
14-Aug-15	Cloudy	Moderate	11:41		Surface	1.0	25.7 25.7	25.7	8.1 8.1	8.1	20.6	20.6	93.1 90.5	91.8	6.8 6.6	6.7		1.6 1.8	1.7		4.2 4.9	4.6	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	2.6	-	-	5.7
					Bottom	3.4	25.4 25.2	25.3	8.1 8.1	8.1	23.7 24.0	23.8	91.5 88.8	90.2	6.6 6.4	6.5	6.5	3.4 3.3	3.4		6.3 7.3	6.8	
17-Aug-15	Sunny	Moderate	13:21		Surface	1.0	26.1 26.4	26.2	7.9 8.0	8.0	19.6 19.4	19.5	86.1 84.3	85.2	6.2 6.1	6.2	6.2	4.5 4.5	4.5		3.8 3.7	3.8	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	4.5	-	-	3.7
					Bottom	3.1	26.0 24.9	25.5	7.9 7.9	7.9	21.0 22.2	21.6	85.5 80.8	83.2	6.2 5.9	6.0	6.0	4.4 4.4	4.4		3.0 4.0	3.5	
19-Aug-15	Sunny	Moderate	14:21		Surface	1.0	25.8 26.3	26.1	7.9 7.9	7.9	17.7 17.1	17.4	83.6 83.7	83.7	6.0 6.0	6.0	6.0	1.8 1.7	1.8		2.5 2.9	2.7	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.0	-	-	2.9
					Bottom	2.5	26.1 25.6	25.9	7.9 7.9	7.9	21.0 22.0	21.5	75.8 75.1	75.5	5.6 5.4	5.5	5.5	2.0 2.1	2.1		2.6 3.4	3.0	
21-Aug-15	Sunny	Moderate	15:31		Surface	1.0	26.8 26.4	26.6	8.0 8.0	8.0	18.0 18.3	18.1	89.6 90.1	89.9	6.5 6.6	6.5	6.5	2.4 2.6	2.5		2.5 2.1	2.3	
				4.4	Middle	-	1 1	-		-	-	-	-	-	-	-	0.5	-	-	2.5	-	-	2.4
					Bottom	3.4	25.5 25.7	25.6	7.9 7.9	7.9	21.5 21.2	21.3	88.9 90.3	89.6	6.5 6.5	6.5	6.5	2.4 2.5	2.5		2.6 2.2	2.4	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Temper	ature (°C)	ŗ	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTI	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*
24-Aug-15	Sunny	Moderate	09:01		Surface	1.0	26.7 26.7	26.7	8.2 8.1	8.1	17.9 18.0	18.0	118.6 116.1	117.4	8.6 8.3	8.4	8.4	1.0 1.1	1.1		3.6 4.1	3.9	
				4.1	Middle	-		-		-	1 1	ı	1 1	-		-	0.4	-	-	1.2	-	-	4.1
					Bottom	3.1	23.9 26.6	25.3	8.0 8.1	8.1	22.6 21.4	22.0	106.8 107.6	107.2	7.6 7.8	7.7	7.7	1.1 1.2	1.2		4.8 3.7	4.3	
26-Aug-15	Sunny	Moderate	10:59		Surface	1.0	25.0 25.1	25.0	8.1 8.2	8.2	25.9 25.9	25.9	104.6 112.4	108.5	7.5 8.0	7.7	7.7	1.6 1.6	1.6		4.0 4.1	4.1	
				4.2	Middle	-		-	1 1	-	1 1	-		-		-		-	-	1.8	-	-	4.3
					Bottom	3.2	24.5 24.5	24.5	8.1 8.1	8.1	28.2 28.4	28.3	102.7 103.3	103.0	7.3 7.3	7.3	7.3	1.9 1.8	1.9		4.3 4.4	4.4	
28-Aug-15	Rainy	Moderate	13:00		Surface	1.0	25.4 25.5	25.5	8.0 8.1	8.0	25.9 26.0	26.0	100.9 98.0	99.5	7.1 6.9	7.0	7.0	2.5 2.6	2.6		3.0 2.9	3.0	
				4.2	Middle	-		-		-	1 1	-		-		-	7.0	-	-	2.6	-	-	3.3
					Bottom	3.2	25.2 24.5	24.9	8.1 8.1	8.1	27.1 27.8	27.5	100.4 97.2	98.8	7.1 6.9	7.0	7.0	2.5 2.6	2.6		2.9 4.0	3.5	
31-Aug-15	Cloudy	Moderate	12:35		Surface	1.0	24.5 24.6	24.5	8.0 7.9	8.0	28.7 28.5	28.6	75.7 76.1	75.9	5.4 5.4	5.4	5.4	9.1 9.2	9.2		5.1 5.8	5.5	
				3.8	Middle	-		-		-	1 1	-		-	-	-	5.4	-	-	9.4	-	-	6.2
					Bottom	2.8	24.4 24.6	24.5	8.0 7.9	8.0	28.9 28.6	28.8	74.4 74.0	74.2	5.3 5.2	5.3	5.3	9.5 9.4	9.5		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.

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	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*
3-Aug-15	Sunny	Moderate	09:36		Surface	1.0	25.3 25.3	25.3	7.8 7.8	7.8	21.2 21.2	21.2	77.0 76.9	77.0	5.6 5.6	5.6		9.3 10.1	9.7		21.9 22.4	22.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	10.3	-	-	22.3
					Bottom	3.3	25.3	25.3	7.8	7.8	21.2	21.2	76.8	76.8	5.6	5.6	5.6	11.0	10.8		23.0	22.3	
5-Aug-15	Sunny	Moderate	11:31				25.3 26.4		7.8 7.8		21.2 19.8		76.8 75.6		5.6 5.5			10.6 2.5			21.5 4.3		
3-Aug-13	Suring	Woderate	11.51		Surface	1.0	26.3	26.3	7.8	7.8	20.2	20.0	76.2	75.9	5.5	5.5	5.5	2.6	2.6		4.5	4.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.6		-	5.4
					Bottom	3.1	25.8 25.7	25.7	7.8 7.8	7.8	22.4 22.7	22.5	74.8 70.7	72.8	5.4 5.1	5.3	5.3	2.5 2.5	2.5		6.6 6.0	6.3	
7-Aug-15	Sunny	Moderate	13:55		Surface	1.0	26.7 26.6	26.6	8.0 8.0	8.0	20.9 21.1	21.0	82.7 82.8	82.8	5.9 5.9	5.9	5.9	3.5 3.6	3.6		2.7 3.8	3.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.6	-	-	3.2
					Bottom	3.3	25.4 24.9	25.2	8.0 7.9	7.9	24.8 26.1	25.5	78.9 77.8	78.4	5.7 5.6	5.6	5.6	3.4 3.5	3.5		3.0	3.0	ļ
10-Aug-15	Cloudy	Moderate	16:42		Surface	1.0	27.0 27.1	27.0	7.9 7.9	7.9	13.7 13.9	13.8	109.1 100.1	104.6	8.0 7.2	7.6		2.7 2.8	2.8		3.9 3.8	3.9	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	3.0	-	-	3.8
					Bottom	2.9	24.7	25.1	7.8	7.8	26.3	24.4	93.9	95.5	6.8	7.0	7.0	3.0	3.1		3.8	3.6	'
12-Aug-15	Sunny	Moderate	18:07		Surface	1.0	25.5 27.4	27.3	7.8 7.8	7.9	22.5 17.8	17.8	97.0 111.2	112.1	7.2 8.0	8.1		3.1 1.8	1.9		3.4 4.1	4.6	
				0.0		1.0	27.2	27.3	7.9		17.8		112.9		8.2	0.1	8.1	1.9			5.1		
				3.8	Middle	-	24.8	-	7.8	-	20.1	-	109.5	-	7.9	-		2.1	-	2.1	5.6	-	5.0
44.045	Clavelin	Madasata	00.54		Bottom	2.8	26.9	25.8	7.9	7.9	19.5	19.8	108.0	108.8	7.8	7.9	7.9	2.2	2.2		4.9	5.3	
14-Aug-15	Cloudy	Moderate	06:54		Surface	1.0	25.5 25.4	25.4	8.1 8.1	8.1	22.2 22.4	22.3	91.7 89.8	90.8	6.6 6.5	6.6	6.6	1.2 1.3	1.3		5.7 5.2	5.5	<u> </u>
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	1.8	-	-	6.0
					Bottom	3.3	25.3 25.1	25.2	8.1 8.1	8.1	23.8 24.5	24.1	91.3 88.0	89.7	6.6 6.3	6.4	6.4	2.3 2.2	2.3		5.6 7.2	6.4	
17-Aug-15	Sunny	Moderate	09:01		Surface	1.0	24.7 24.7	24.7	7.9 7.9	7.9	23.9 23.8	23.9	76.5 76.4	76.5	5.5 5.5	5.5		6.2 6.1	6.2		11.0 11.4	11.2	
				4.1	Middle		-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.3	-	-	11.1
					Bottom	3.1	24.7 24.7	24.7	7.9 7.9	7.9	24.0 24.1	24.0	76.5 76.1	76.3	5.5 5.5	5.5	5.5	6.3 6.2	6.3		10.9 10.9	10.9	
19-Aug-15	Sunny	Moderate	10:24		Surface	1.0	25.4	25.4	7.9	7.9	22.9	22.9	80.3	80.8	5.9	5.9		1.6	1.6		3.4	2.8	
				3.6	Middle	_	25.3	-	7.9	_	22.9	_	81.3 -	-	5.9 -	_	5.9	1.6	_	1.8	2.2	_	2.5
				0.0	Bottom	2.6	24.2	24.1	7.8	7.8	28.1	27.7	74.5	74.7	5.4	5.4	5.4	1.9	1.9		2.0	2.1	1 2.0
21-Aug-15	Sunny	Moderate	12:01	<u> </u>			24.0 26.3		7.8 8.0		27.3 19.2		74.9 83.0		5.4 6.0		5.7	1.8 2.6		<u> </u>	2.2 1.6		
	,				Surface	1.0	26.4	26.4	7.9	8.0	19.1	19.2	86.0	84.5	6.2	6.1	6.1	2.5	2.6		1.5	1.6	ا '
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.6	-	-	1.9
					Bottom	3.4	26.0 26.1	26.1	7.9 7.9	7.9	20.4 20.2	20.3	79.3 84.9	82.1	5.7 6.1	5.9	5.9	2.5 2.5	2.5		2.0 2.1	2.1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	U)	Susper	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*
24-Aug-15	Sunny	Moderate	14:20		Surface	1.0	26.2 25.2	25.7	8.2 8.1	8.2	22.6 23.1	22.9	118.5 116.9	117.7	8.5 8.4	8.5	8.5	2.8 2.8	2.8		3.1 2.8	3.0	
				4.4	Middle	,	-	-	-	-	-	-	-	-	-		0.5	-	-	3.0	-	-	3.5
					Bottom	3.4	24.9 23.9	24.4	8.1 8.1	8.1	26.1 27.1	26.6	113.0 106.0	109.5	8.1 7.7	7.9	7.9	3.0 3.3	3.2		3.9 4.1	4.0	
26-Aug-15	Sunny	Moderate	16:21		Surface	1.0	24.8 25.0	24.9	8.1 8.1	8.1	27.0 26.8	26.9	101.6 105.8	103.7	7.2 7.5	7.4	7.4	3.9 3.7	3.8		6.9 7.6	7.3	
				4.3	Middle	,	-	-	-	-	-	-	-	-	-		7.4	-	-	3.9	-	-	8.1
					Bottom	3.3	24.7 24.5	24.6	8.1 8.1	8.1	28.3 28.6	28.5	104.4 102.0	103.2	7.4 7.2	7.3	7.3	3.7 4.0	3.9		8.9 8.9	8.9	
28-Aug-15	Sunny	Moderate	17:27		Surface	1.0	25.5 25.9	25.7	8.0 8.1	8.0	26.8 26.1	26.4	96.0 100.2	98.1	6.8 7.0	6.9	6.9	4.6 4.9	4.8		5.4 6.4	5.9	
				4.1	Middle	•		-		-	-	-		-		-	0.5	-	-	4.8	-	-	6.2
					Bottom	3.1	25.6 25.3	25.4	8.1 8.1	8.1	26.8 27.2	27.0	98.2 94.3	96.3	6.9 6.7	6.8	6.8	4.8 4.8	4.8		6.0 6.8	6.4	
31-Aug-15	Cloudy	Moderate	08:48		Surface	1.0	24.1 24.1	24.1	7.9 7.9	7.9	29.7 29.8	29.8	75.6 76.3	76.0	5.4 5.4	5.4	5.4	10.7 10.8	10.8	_	10.7 10.4	10.6	
				3.9	Middle	-	1 1	-	-	-	-	-	-	-	1 1	-	5.4	-	-	11.0	-	-	10.5
					Bottom	2.9	23.8 23.3	23.5	7.9 7.9	7.9	31.9 32.2	32.0	74.0 74.6	74.3	5.2 5.3	5.3	5.3	11.1 11.2	11.2		10.0 10.8	10.4	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salinit	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*
3-Aug-15	Sunny	Moderate	14:55		Surface	1.0	26.4 26.3	26.4	7.8 7.8	7.8	19.8 20.6	20.2	77.6 77.6	77.6	5.6 5.6	5.6		4.3 4.5	4.4		3.9 4.4	4.2	
				3.8	Middle	-	-	-	-	-	-	_	-	-	-	-	5.6	-	-	5.7	-	-	4.4
					Bottom	2.8	25.0	25.0	7.8	7.8	23.7	23.8	72.8	75.0	5.3	5.4	5.4	6.7	6.9		4.5	4.5	
5-Aug-15	Sunny	Moderate	16:25				25.0 26.8		7.8 7.9		23.8		77.2 82.9		5.6 5.9			7.1 2.6			4.4 5.4		
0 7 ldg 10	Cumy	Moderate	10.20		Surface	1.0	26.7	26.8	7.9	7.9	21.0	20.9	82.9	82.9	5.9	5.9	5.9	2.6	2.6		5.6	5.5	_
				4.1	Middle	-	26.7	-	7.9	-	21.2	-	83.2	-	5.9	-		2.7	-	2.7	6.3	-	5.5
					Bottom	3.1	26.7	26.7	7.9	7.9	21.4	21.3	82.9	83.1	5.9	5.9	5.9	2.6	2.7		4.7	5.5	<u> </u>
7-Aug-15	Sunny	Moderate	18:35		Surface	1.0	27.5 27.6	27.5	8.0 8.0	8.0	15.7 15.7	15.7	96.9 95.5	96.2	7.0 6.9	7.0	7.0	2.1 2.2	2.2		4.4 4.7	4.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	2.2	-	-	4.7
					Bottom	3.2	27.2 26.7	26.9	7.9 8.0	8.0	19.6 19.6	19.6	94.7 91.5	93.1	6.7 6.6	6.7	6.7	2.2	2.2		5.3 4.1	4.7	
10-Aug-15	Cloudy	Moderate	09:10		Surface	1.0	26.6 26.5	26.5	7.9 7.9	7.9	16.3 17.2	16.8	111.5 111.6	111.6	8.0 8.2	8.1		0.7 0.8	0.8		3.3 4.1	3.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	1.0	-	-	4.3
					Bottom	2.4	26.3	26.3	7.8	7.8	19.9	20.0	110.5	109.2	8.1	7.9	7.9	1.2	1.2		4.8	4.8	
12-Aug-15	Sunny	Moderate	10:53		Surface	1.0	26.3 25.2	25.4	7.8 7.8	7.9	20.1 22.2	22.1	107.9 106.9	107.9	7.8 7.7	7.8		1.2 1.4	1.4		4.7 5.7	5.5	<u> </u>
				3.5	Middle		25.5	20	7.9 -	-	22.0		108.9	-	7.9	1.0	7.8	1.3		1.6	5.2	-	5.0
				3.3		2.5	25.6	25.4	- 7.9		23.0		105.2		7.6	7.5	7.5	1.6		1.0	3.9		3.0
					Bottom	2.5	25.2	25.4	7.8	7.8	23.8	23.4	102.5	103.9	7.4	7.5	7.5	1.7	1.7		4.8	4.4	
14-Aug-15	Cloudy	Moderate	12:58		Surface	1.0	25.8 25.7	25.8	8.1 8.1	8.1	21.1 21.4	21.3	92.9 93.3	93.1	6.7 6.7	6.7	6.7	0.9 0.9	0.9		3.3 3.9	3.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-		-	0	-	-	1.4	-	-	4.2
					Bottom	2.8	25.5 25.6	25.6	8.0 8.1	8.1	23.1 23.1	23.1	90.9 94.1	92.5	6.5 6.8	6.6	6.6	1.8 2.0	1.9		4.7 4.7	4.7	
17-Aug-15	Sunny	Moderate	14:46		Surface	1.0	25.2 25.3	25.3	7.9 7.9	7.9	22.2 22.3	22.2	72.6 74.6	73.6	5.3 5.4	5.3		4.0 3.8	3.9		5.2 5.3	5.3	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	3.9	-	-	5.7
					Bottom	3.0	25.2 24.7	25.0	7.9 7.9	7.9	22.7 23.8	23.3	74.0 71.9	73.0	5.4 5.2	5.3	5.3	3.9 3.8	3.9		5.5 6.4	6.0	1
19-Aug-15	Sunny	Moderate	15:37		Surface	1.0	26.1	26.2	7.9	7.9	18.6	19.2	86.7	86.0	6.3	6.2		2.5	2.5		2.5	2.7	
				4.0	Middle	-	26.2	-	7.9	-	19.8	_	85.2	_	6.2	_	6.2	2.4	_	2.6	2.8	-	2.4
					Bottom	3.0	25.8	25.8	7.8	7.9	21.3	21.2	84.4	84.6	6.1	6.1	6.1	2.6	2.7		2.0	2.1	
21-Aug-15	Sunny	Moderate	16:51			1.0	25.8 26.8	26.8	7.9 8.0	8.0	21.2 19.5	19.5	84.7 91.6	93.7	6.1 6.6		0.1	2.7			2.1		<u> </u>
	·				Surface	1.0	26.9	∠0.8	8.0	8.0	19.5	19.5	95.8	93.7	6.9	6.7	6.7	2.4	2.5		2.3	2.4	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.5	-	-	2.7
					Bottom	3.2	26.8 26.3	26.6	8.0 8.0	8.0	19.7 20.2	20.0	93.6 87.0	90.3	6.7 6.3	6.5	6.5	2.4 2.5	2.5		2.7 3.0	2.9	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	07:49		Surface	1.0	26.6 26.4	26.5	8.0 8.1	8.1	19.8 21.4	20.6	113.1 118.1	115.6	8.0 8.4	8.2	8.2	2.2 2.0	2.1		3.5 2.9	3.2	
				4.3	Middle	-		-		-	-	-		-	1 1	-	0.2	-	-	3.2	-	-	3.0
					Bottom	3.3	23.5 25.0	24.3	7.7 8.0	7.9	29.9 27.8	28.8	104.5 102.2	103.4	7.5 7.5	7.5	7.5	4.3 4.0	4.2		2.7 2.6	2.7	
26-Aug-15	Sunny	Moderate	09:37		Surface	1.0	24.8 24.7	24.7	8.2 8.2	8.2	26.1 27.0	26.5	104.6 105.5	105.1	7.5 7.5	7.5	7.5	1.9 1.8	1.9		3.9 5.0	4.5	
				4.4	Middle	-		-		-	-	-		-		-	7.0	-	-	2.0	-	-	5.2
					Bottom	3.4	24.5 24.5	24.5	8.1 8.1	8.1	28.8 28.9	28.9	103.6 105.4	104.5	7.3 7.5	7.4	7.4	2.0 1.9	2.0		5.4 6.4	5.9	
28-Aug-15	Rainy	Moderate	11:31		Surface	1.0	24.7 24.7	24.7	7.8 7.9	7.8	27.5 27.3	27.4	89.0 92.5	90.8	6.3 6.6	6.4	6.4	2.8 3.0	2.9		2.0 2.0	2.0	
				4.2	Middle	•		-		-	-	-		-	1 1	-	0.4	-	-	3.1	-	-	2.2
					Bottom	3.2	24.5 24.6	24.5	7.9 7.9	7.9	28.3 28.5	28.4	90.9 88.6	89.8	6.5 6.3	6.4	6.4	3.2 3.1	3.2		2.3 2.2	2.3	
31-Aug-15	Cloudy	Moderate	14:09		Surface	1.0	24.7 24.6	24.6	7.9 7.9	7.9	27.0 27.3	27.2	77.8 77.4	77.6	5.5 5.5	5.5	5.5	8.1 8.3	8.2		5.0 6.0	5.5	
				3.8	Middle	-		-		-	-	-		-	1 1	-	5.5	-	-	8.4	-	-	5.7
					Bottom	2.8	24.3 24.7	24.5	7.9 7.9	7.9	27.7 27.1	27.4	74.3 74.9	74.6	5.3 5.3	5.3	5.3	8.5 8.4	8.5		6.3 5.2	5.8	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	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*
3-Aug-15	Sunny	Moderate	08:12		Surface	1.0	25.5 25.5	25.5	7.8 7.8	7.8	20.8 20.6	20.7	88.2 91.4	89.8	6.4 6.7	6.5		2.9 2.8	2.9		3.6 4.0	3.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	3.0	-	-	4.8
					Bottom	2.9	25.5 25.4	25.5	7.8 7.8	7.8	20.8	20.8	86.9 85.3	86.1	6.3 6.2	6.3	6.3	2.9	3.0		6.0	5.7	
5-Aug-15	Sunny	Moderate	10:15		Surface	1.0	25.6	25.7	7.8	7.8	21.4	21.3	71.1	73.3	5.2	5.3		5.7	5.7		5.3 7.4	7.1	
				4.1	Middle	-	25.7	-	7.8	-	21.2	-	75.4 -	-	5.4 -	-	5.3	5.6	-	5.8	6.8	-	7.7
					Bottom	3.1	25.5	25.5	7.8	7.8	22.6	22.5	73.0	72.3	5.3	5.2	5.2	5.8	5.8	0.0	7.9	8.2	'''
7-Aug-15	Sunny	Moderate	12:33		Surface	1.0	25.6 26.5	26.6	7.8 8.0	8.0	22.4 20.6	20.8	71.5 92.6	93.4	5.2 6.6	6.7	0.2	5.8 2.1	2.1		8.5 4.6	5.3	
				4.2	Middle	1.0	26.6	20.0	8.0	-	20.9	20.0	94.2	33.4	6.7	0.7	6.7	2.1	2.1	2.2	5.9	-	6.6
				4.2	Bottom	3.2	26.0	26.3	8.0	8.0	22.9	22.8	91.1	92.3	6.5	6.6	6.6	2.1	2.2	2.2	8.2	7.8	0.0
10-Aug-15	Cloudy	Moderate	18:08		Surface	1.0	26.6 26.1	26.1	8.0 7.9	7.9	22.7 18.9	19.2	93.5 124.3	125.0	6.6 8.8	9.0	0.0	1.4	1.5		7.3 7.2	7.5	
				3.5	Middle	-	26.0	20.1	7.9	-	19.5 -	-	125.6	-	9.1	-	9.0	1.5	-	1.7	7.7	-	8.5
				3.3	Bottom	2.5	25.6	25.9	7.9	7.9	- 21.5	22.1	116.8	113.6	8.5	8.2	8.2	1.8	1.9	1.,	9.2	9.4	0.5
12-Aug-15	Sunny	Moderate	19:20		Surface	1.0	26.2 27.2	27.0	7.9 7.9	7.9	22.7 19.6	19.8	110.4 120.7	121.8	8.0 8.7	8.8	0.2	1.9 2.2	2.3		9.6 4.8	4.8	
				3.8		1.0	26.9	27.0	7.9	7.9	20.0	19.0	122.8	121.0	8.9	0.0	8.8	2.3	2.3	2.5	4.8	4.0	5.3
				3.0	Middle	-	26.2	25.9	- 7.9		23.3		- 117.4		8.5	0.5	8.5	2.6		2.5	5.5		5.5
14-Aug-15	Cloudy	Moderate	05:33		Bottom	2.8	25.6 25.2		7.8 8.1	7.8	23.5 23.5	23.4	119.8 90.3	118.6	8.6 6.5	8.5	8.5	2.5 3.6	2.6		5.8 4.0	5.7	
14-Aug-15	Cloudy	Woderate	00.33		Surface	1.0	25.3	25.2	8.1	8.1	22.9	23.2	89.9	90.1	6.5	6.5	6.5	3.3	3.5		3.3	3.7	
				4.1	Middle	-	25.1	-	- 8.1	-	24.3	-	89.7	-	- 6.5	-		4.3	-	4.0	2.9	-	3.3
					Bottom	3.1	25.0	25.1	8.1	8.1	24.3	24.3	90.4	90.1	6.5	6.5	6.5	4.4	4.4		2.9	2.9	
17-Aug-15	Sunny	Moderate	07:38		Surface	1.0	25.0 24.9	25.0	7.9 7.9	7.9	23.1 23.1	23.1	78.3 75.9	77.1	5.7 5.5	5.6	5.6	2.2 2.1	2.2		7.0 7.2	7.1	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.2	-	-	8.7
					Bottom	3.2	24.9 24.9	24.9	7.9 7.9	7.9	23.2 23.2	23.2	76.4 74.9	75.7	5.5 5.4	5.5	5.5	2.2	2.2		9.8 10.6	10.2	
19-Aug-15	Sunny	Moderate	09:02		Surface	1.0	25.0 24.2	24.6	7.8 7.8	7.8	24.6 26.7	25.6	74.5 75.4	75.0	5.4 5.4	5.4	5.4	1.7 1.8	1.8		2.4 3.0	2.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.0	_	-	2.7
					Bottom	3.1	24.7 25.2	24.9	7.8 7.8	7.8	24.9 24.3	24.6	73.7 73.8	73.8	5.3 5.3	5.3	5.3	2.0 2.1	2.1		2.9 2.4	2.7	
21-Aug-15	Sunny	Moderate	10:28		Surface	1.0	26.3 26.2	26.2	8.0 7.9	8.0	19.3 19.2	19.2	85.5 83.8	84.7	6.2 6.1	6.1	6.1	2.6 2.6	2.6		1.3 1.5	1.4]
				4.5	Middle	-	-	-	-	-	-	-	-	-		-		-	-	2.7	-	-	1.9
					Bottom	3.5	25.3 25.6	25.4	7.9 7.9	7.9	23.0 22.1	22.5	81.9 83.2	82.6	5.9 6.0	6.0	6.0	2.6 2.8	2.7		2.2 2.5	2.4	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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*
24-Aug-15	Sunny	Moderate	15:41		Surface	1.0	26.8 26.9	26.8	8.3 8.3	8.3	22.9 22.7	22.8	132.7 133.4	133.1	9.3 9.6	9.5	9.5	2.0 1.8	1.9		3.3 4.0	3.7	
				4.0	Middle		-	-	1 1	-	-	-		-	-	-	9.5	-	-	2.0	-	-	4.2
					Bottom	3.0	24.2 24.9	24.5	8.2 8.2	8.2	29.3 26.3	27.8	135.3 130.3	132.8	9.6 9.3	9.4	9.4	1.9 2.1	2.0		4.0 5.2	4.6	
26-Aug-15	Sunny	Moderate	17:43		Surface	1.0	25.2 25.0	25.1	8.2 8.1	8.2	26.3 26.4	26.4	113.3 110.6	112.0	8.0 7.8	7.9	7.9	1.3 1.2	1.3		3.6 4.4	4.0	
				4.3	Middle	-	-	-	-	-	-	-		-	-	-	7.0	-	-	1.4	-	-	4.7
					Bottom	3.3	24.5 25.0	24.7	8.1 8.1	8.1	27.7 27.5	27.6	99.7 104.9	102.3	7.1 7.5	7.3	7.3	1.4 1.5	1.5		6.2 4.4	5.3	
28-Aug-15	Sunny	Moderate	18:49		Surface	1.0	24.7 24.7	24.7	8.0 8.0	8.0	28.5 28.4	28.4	84.5 84.2	84.4	6.0 6.0	6.0	6.0	3.2 3.3	3.3		4.8 4.9	4.9	
				4.1	Middle	-	-	-		-	-	-		-	-	-	0.0	-	-	3.3	-	-	5.0
					Bottom	3.1	24.5 24.7	24.6	8.0 8.0	8.0	28.8 28.5	28.6	83.9 84.5	84.2	5.9 6.0	6.0	6.0	3.2 3.3	3.3		5.3 4.9	5.1	
31-Aug-15	Cloudy	Moderate	07:16		Surface	1.0	24.2 24.1	24.1	7.9 7.9	7.9	29.0 29.0	29.0	81.2 79.9	80.6	5.8 5.7	5.7	5.7	7.5 7.5	7.5		8.8 8.9	8.9	
				3.8	Middle	-	-	-		-	-	-		-	-	-	5.7	-	-	7.7	-	-	9.0
					Bottom	2.8	24.3 24.0	24.1	7.9 7.9	7.9	29.9 30.3	30.1	78.4 78.0	78.2	5.6 5.5	5.5	5.5	7.8 7.9	7.9		9.3 8.9	9.1	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
3-Aug-15	Sunny	Moderate	15:41		Surface	1.0	28.0 28.1	28.1	8.0 8.0	8.0	25.5 25.4	25.4	89.7 86.1	87.9	6.2 5.9	6.0		5.0 5.0	5.0		3.3 4.1	3.7	-
				6.5	Middle	3.3	27.5 27.5	27.5	8.0 8.0	8.0	26.9 26.9	26.9	86.5 86.4	86.5	5.9 5.9	5.9	6.0	5.1 5.3	5.2	5.1	4.7 5.6	5.2	4.9
					Bottom	5.5	27.8 27.1	27.4	8.0 8.0	8.0	26.9 27.7	27.3	84.3 85.0	84.7	5.8 5.8	5.8	5.8	5.1 5.2	5.2		5.9 5.6	5.8	
5-Aug-15	Sunny	Moderate	17:09		Surface	1.0	29.0	29.0	8.1	8.1	22.3	22.4	82.1	82.0	5.6	5.6		3.5	3.4		4.9	5.2	
				6.5	Middle	3.3	29.0 29.0	29.0	8.1 8.1	8.1	22.6	22.8	81.8 81.3	81.4	5.6 5.5	5.5	5.6	3.3	3.6	3.4	5.4	5.3	5.5
					Bottom	5.5	29.0 29.0	29.0	8.1 8.1	8.1	22.7 22.8	22.8	81.5 81.2	81.5	5.5 5.5	5.5	5.5	3.4	3.3		5.0 6.3	5.9	
7-Aug-15	Sunny	Moderate	19:03		Surface	1.0	29.0 28.1	28.2	7.9	7.9	22.7 25.3	24.9	81.7 108.2	107.1	5.5 7.2	7.2		2.3	2.3		5.4 4.0	4.0	
				6.3	Middle	3.2	28.2 27.6	27.0	7.9 7.9	7.9	24.5 26.9	27.5	105.9 103.6	102.2	7.2 7.0	6.9	7.1	2.3	2.7	2.6	4.0 2.8	3.5	4.0
				0.3		5.3	26.5 26.7	27.4	7.9 7.9	7.9	28.1 32.0	30.6	100.7 97.2	98.1	6.8	6.7	6.7	2.7	2.7	2.0	4.2 3.5	4.5	4.0
10-Aug-15	Cloudy	Moderate	09:26		Bottom		28.1 28.6		7.9 8.4		29.3 20.5		99.0 125.7		6.7 8.6		0.7	2.9	<u> </u> 		5.4 4.2		
	,				Surface	1.0	28.4 28.4	28.5	8.4 8.4	8.4	20.8	20.6	125.8 127.0	125.8	8.6 8.7	8.6	8.7	2.6	2.6		4.0 5.1	4.1	
				6.3	Middle	3.2	28.4	28.4	8.4 8.4	8.4	22.4	22.3	126.5 126.5	126.8	8.7 8.7	8.7		2.6	2.6	2.6	3.6	4.4	4.1
12-Aug-15	Sunny	Moderate	10:42		Bottom	5.3	28.3	28.4	8.4 8.2	8.4	22.7 22.6	22.6	125.3 107.0	125.9	8.7 7.5	8.7	8.7	2.6	2.6		4.5 5.2	3.8	
12-Aug-15	Suriny	Moderate	10.42		Surface	1.0	28.3	28.1	8.2	8.2	22.2	22.4	106.5	106.8	7.5	7.5	7.4	2.5	2.4		5.4	5.3	
				6.7	Middle	3.4	27.3 27.8	27.6	8.2 8.2	8.2	26.2 23.6	24.9	104.8 104.2	104.5	7.4 7.3	7.3		2.7 2.6	2.7	2.6	4.6 4.6	4.6	5.2
					Bottom	5.7	26.8 27.8	27.3	8.1 8.2	8.2	30.3 24.5	27.4	105.1 104.1	104.6	7.3 7.3	7.3	7.3	2.8 2.6	2.7		5.8 5.6	5.7	
14-Aug-15	Cloudy	Moderate	13:30		Surface	1.0	27.9 27.8	27.9	8.3 8.3	8.3	24.1 24.5	24.3	94.8 94.7	94.8	6.5 6.5	6.5	6.4	3.7 3.9	3.8		5.0 6.0	5.5	
				6.5	Middle	3.3	27.6 27.6	27.6	8.3 8.3	8.3	24.7 25.0	24.9	90.9 92.6	91.8	6.2 6.4	6.3	0.4	4.0 4.0	4.0	3.9	5.7 5.8	5.8	5.9
					Bottom	5.5	27.4 27.0	27.2	8.2 8.2	8.2	27.3 27.4	27.4	92.8 89.3	91.1	6.3 6.1	6.2	6.2	4.1 3.9	4.0		6.1 6.4	6.3	
17-Aug-15	Sunny	Moderate	14:52		Surface	1.0	27.4 27.4	27.4	8.1 8.1	8.1	26.1 26.2	26.1	79.6 81.5	80.6	5.5 5.6	5.5	5.5	3.3 3.3	3.3		2.1 2.2	2.2	
				6.7	Middle	3.4	27.2 27.1	27.2	8.1 8.1	8.1	26.6 26.7	26.6	82.1 78.3	80.2	5.6 5.4	5.5	5.5	3.5 3.5	3.5	3.5	3.9 3.1	3.5	3.0
					Bottom	5.7	27.1 27.0	27.0	8.1 8.1	8.1	27.1 27.3	27.2	84.8 79.2	82.0	5.8 5.4	5.6	5.6	3.8	3.7		2.5	3.4	
19-Aug-15	Sunny	Moderate	15:40		Surface	1.0	28.3 28.0	28.2	8.1 8.1	8.1	24.4 24.7	24.6	89.6 86.5	88.1	6.1 5.9	6.0		3.0 3.0	3.0		3.5 3.1	3.3	
				6.2	Middle	3.1	28.0	27.8	8.1	8.1	25.0	25.1	88.0	87.2	6.0	6.0	6.0	3.1	3.1	3.1	3.0	2.9	3.1
					Bottom	5.2	27.5 28.0	27.6	8.1 8.1	8.1	25.2 25.1	25.9	86.3 87.7	86.5	5.9 6.0	5.9	5.9	3.0	3.2		3.2	3.1	
21-Aug-15	Sunny	Moderate	16:58		Surface	1.0	27.1	28.1	8.1 8.2	8.2	26.8 27.1	27.3	85.2 88.6	88.0	5.9 6.0	5.9		1.9	1.9		1.0	1.0	
				6.5	Middle	3.3	28.1 27.8	27.5	8.2 8.2	8.2	27.6 28.1	28.4	87.4 80.5	78.5	5.9 5.4	5.3	5.6	1.8 2.2	2.2	2.0	1.0	1.5	1.7
				0.0	Bottom	5.5	27.3 25.4	25.3	8.2 8.1	8.1	28.7 34.5	34.2	76.5 84.6	83.2	5.2 5.7	5.6	5.6	2.1 1.9	2.0	2.0	1.4 2.8	2.7	····
					DOLLOTTI	ა.უ	25.2	۷۵.۵	8.2	0.1	34.0	J4.Z	81.7	03.2	5.6	5.0	0.0	2.0	2.0		2.5	2.1	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTI	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*
24-Aug-15	Sunny	Moderate	07:11		Surface	1.0	28.3 28.4	28.4	8.5 8.5	8.5	26.2 26.2	26.2	149.8 158.3	154.1	10.1 10.6	10.4	10.2	1.8 1.8	1.8		3.0 4.0	3.5	
				6.7	Middle	3.4	27.8 28.3	28.0	8.5 8.5	8.5	27.4 27.0	27.2	143.3 155.0	149.2	9.7 10.4	10.0	10.2	2.0 1.9	2.0	1.9	4.1 4.0	4.1	3.8
					Bottom	5.7	27.5 28.4	28.0	8.4 8.5	8.5	28.7 27.2	27.9	145.7 154.0	149.9	9.8 10.3	10.0	10.0	2.0 1.9	2.0		3.3 4.2	3.8	
26-Aug-15	Sunny	Moderate	09:02		Surface	1.0	26.1 26.1	26.1	8.3 8.3	8.3	31.1 31.1	31.1	95.9 98.1	97.0	6.5 6.7	6.6	6.6	1.9 1.9	1.9		6.0 5.1	5.6	
				6.7	Middle	3.4	26.0 25.9	26.0	8.3 8.3	8.3	31.3 31.4	31.4	97.0 94.5	95.8	6.6 6.4	6.5	0.0	1.8 1.9	1.9	1.9	5.5 5.4	5.5	5.4
					Bottom	5.7	26.1 25.9	26.0	8.3 8.3	8.3	31.3 31.6	31.4	97.0 94.8	95.9	6.6 6.5	6.5	6.5	1.9 1.9	1.9		5.3 5.1	5.2	
28-Aug-15	Rainy	Moderate	10:29		Surface	1.0	26.4 26.4	26.4	8.2 8.2	8.2	30.8 30.9	30.8	89.1 91.6	90.4	6.1 6.2	6.1	6.1	2.7 3.2	3.0		3.5 2.9	3.2	
				7.0	Middle	3.5	26.1 26.2	26.2	8.2 8.2	8.2	31.3 31.3	31.3	86.2 91.0	88.6	5.9 6.2	6.0	0.1	3.5 3.3	3.4	4.9	2.4 3.2	2.8	3.2
					Bottom	6.0	25.8 26.5	26.2	8.2 8.2	8.2	31.6 31.6	31.6	85.2 90.6	87.9	5.8 6.2	6.0	6.0	8.1 8.2	8.2		3.8 3.1	3.5	
31-Aug-15	Cloudy	Moderate	14:01		Surface	1.0	26.6 27.0	26.8	8.1 8.1	8.1	31.0 30.8	30.9	79.7 80.4	80.1	5.4 5.5	5.4	5.4	9.0 9.0	9.0		9.7 9.8	9.8	
				6.7	Middle	3.4	26.4 26.5	26.5	8.1 8.1	8.1	32.3 32.3	32.3	78.5 79.2	78.9	5.3 5.4	5.4	5.4	9.0 9.0	9.0	9.1	11.0 10.1	10.6	10.7
					Bottom	5.7	26.4 26.6	26.5	8.1 8.1	8.1	32.3 32.2	32.3	78.1 79.2	78.7	5.3 5.4	5.3	5.3	9.0 9.3	9.2		12.1 11.3	11.7	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed 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*
3-Aug-15	Sunny	Moderate	07:45		Surface	1.0	27.1 27.2	27.2	8.0 8.0	8.0	24.9 24.8	24.9	76.7 76.9	76.8	5.4 5.4	5.4		6.1 6.1	6.1		7.6 7.8	7.7	
				6.6	Middle	3.3	26.7 26.7	26.7	8.0 8.0	8.0	28.7 28.1	28.4	76.1 75.3	75.7	5.3 5.2	5.2	5.3	6.3 6.2	6.3	6.2	6.1 7.5	6.8	7.8
					Bottom	5.6	26.4 27.1	26.8	8.0 8.0	8.0	29.3 28.6	29.0	75.9 77.0	76.5	5.2 5.3	5.3	5.3	6.1	6.2		8.9 9.1	9.0	
5-Aug-15	Sunny	Moderate	09:10		Surface	1.0	27.3	27.4	8.0	8.0	24.1	24.1	73.2	73.7	5.1	5.1		3.5	3.6		9.6	9.2	
				6.2	Middle	3.1	27.5 26.7	26.7	8.0 8.0	8.0	24.1 26.1	26.8	74.2 74.9	74.4	5.1 5.1	5.1	5.1	3.6	3.5	3.6	8.8 7.6	7.3	7.8
				6.2			26.6 26.4		8.0 8.0		27.4 28.0		73.8 72.4		5.1 5.0			3.4 3.4		3.0	6.9 7.2		7.0
7-Aug-15	Sunny	Moderate	11:51		Bottom	5.2	26.8	26.6	8.0 7.8	8.0	27.6	27.8	72.7 81.6	72.6	5.0	5.0	5.0	3.7	3.6		6.5	6.9	<u> </u>
7-Aug-15	Sullily	Moderate	11.51		Surface	1.0	28.0	28.0	7.8	7.8	27.4	25.0	80.1	80.9	5.4	5.5	5.6	1.6	1.7		3.5	3.4	
				6.4	Middle	3.2	27.6 28.5	28.1	7.8 7.8	7.8	23.1 26.1	24.6	85.3 81.1	83.2	5.8 5.5	5.6		2.1 2.0	2.1	2.1	2.4 4.8	3.6	3.7
					Bottom	5.4	28.4 27.0	27.7	7.8 7.8	7.8	22.4 27.8	25.1	78.1 79.0	78.6	5.4 5.5	5.4	5.4	2.3 2.4	2.4		4.2 3.9	4.1	
10-Aug-15	Cloudy	Moderate	18:12		Surface	1.0	27.2 27.4	27.3	8.3 8.3	8.3	26.9 26.7	26.8	101.2 102.0	101.6	6.9 7.0	6.9	6.7	3.3 3.2	3.3		4.9 4.4	4.7	
				6.5	Middle	3.3	26.7 26.8	26.8	8.3 8.3	8.3	29.5 29.4	29.5	95.6 95.5	95.6	6.5 6.5	6.5	6.7	3.3 3.2	3.3	3.3	3.7 5.4	4.6	4.6
					Bottom	5.5	26.6 26.7	26.7	8.3 8.3	8.3	30.0 30.0	30.0	94.4 94.6	94.5	6.4 6.4	6.4	6.4	3.3	3.3		4.9 4.1	4.5	
12-Aug-15	Sunny	Moderate	19:19		Surface	1.0	27.6 26.9	27.2	8.1 8.2	8.1	27.7 28.3	28.0	117.2 113.5	115.4	8.1 7.8	8.0		4.8 5.0	4.9		4.9 5.1	5.0	
				6.8	Middle	3.4	26.3	26.5	8.1	8.1	31.6	31.3	119.3	116.5	8.2	8.0	8.0	5.8	5.6	5.6	4.9	5.1	5.7
					Bottom	5.8	26.7 26.2	26.4	8.1 8.1	8.1	30.9	31.9	113.7 115.5	115.4	7.9	7.9	7.9	5.4 6.3	6.3		7.9	7.0	
14-Aug-15	Cloudy	Moderate	05:11		Surface	1.0	26.6 27.2	27.1	8.1 8.3	8.3	31.7 25.7	25.9	115.2 87.5	84.9	7.9 6.0	5.8		6.2 2.8	2.9		6.1 4.3	4.5	
				6.4	Middle	3.2	27.0 26.9	26.6	8.3 8.3	8.2	26.2 26.6	28.1	82.3 83.9	80.0	5.7 5.8	5.5	5.7	2.9 3.1	3.2	3.1	4.6 4.1	4.2	4.6
				0.4	Bottom	5.4	26.2 26.4	26.0	8.2 8.2	8.2	29.7 30.0	30.8	76.1 82.1	77.6	5.2 5.6	5.3	5.3	3.2 3.2	3.3	0.1	4.3 4.5	5.1	1.0
17-Aug-15	Sunny	Moderate	06:51				25.5 26.7		8.2 8.1	_	31.5 25.3		73.1 78.7		5.0 5.5		5.5	3.3 4.7			5.7 6.4		
	,				Surface	1.0	26.7 26.1	26.7	8.1 8.0	8.1	25.2 28.8	25.3	78.6 77.0	78.7	5.5 5.3	5.5	5.4	4.8 5.4	4.8		5.0 4.7	5.7	
				6.3	Middle	3.2	26.1 26.3	26.1	8.0	8.0	28.8	28.8	77.2 78.4	77.1	5.3 5.4	5.3		5.2	5.3	5.1	5.9	5.3	5.5
					Bottom	5.3	26.0	26.2	8.0	8.0	29.0	28.9	78.1	78.3	5.4	5.4	5.4	5.1	5.2		5.6	5.5	
19-Aug-15	Sunny	Moderate	08:03		Surface	1.0	27.8 28.1	28.0	8.1 8.1	8.1	23.1 22.9	23.0	83.6 84.2	83.9	5.7 5.8	5.8	5.7	2.7 2.6	2.7		1.2 1.2	1.2	
				6.4	Middle	3.2	27.5 27.5	27.5	8.0 8.1	8.1	25.7 25.2	25.4	81.8 80.8	81.3	5.7 5.6	5.6	***	2.8 2.6	2.7	2.7	1.1 1.9	1.5	1.5
					Bottom	5.4	27.4 27.8	27.6	8.0 8.0	8.0	25.9 25.7	25.8	79.2 81.5	80.4	5.5 5.6	5.5	5.5	2.8 2.8	2.8		1.9 1.7	1.8	
21-Aug-15	Sunny	Moderate	09:36		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	24.6 24.3	24.5	81.3 81.1	81.2	5.6 5.6	5.6		1.7 1.7	1.7		2.7 2.1	2.4	
				6.4	Middle	3.2	26.9 27.0	27.0	8.1 8.1	8.1	26.7 26.6	26.6	77.6 78.1	77.9	5.3 5.4	5.4	5.5	1.8	1.8	1.7	2.3	2.3	2.3
					Bottom	5.4	26.2	26.3	8.1	8.1	28.9	28.9	76.7	77.2	5.3	5.3	5.3	1.6	1.7		2.2	2.2	
							26.4	l	8.1		28.8		77.6		5.3			1.8			2.2		<u> </u>

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	Ten	perature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Susper	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)) Valu	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
24-Aug-15	Sunny	Moderate	16:12		Surface 1	1.0 27. 27.		8.6 8.5	8.5	29.5 30.0	29.8	138.7 135.8	137.3	9.2 9.0	9.1	7.8	2.4 2.4	2.4		4.1 3.3	3.7	
				6.5	Middle 3	3.3 25. 25.	25.9	8.3 8.3	8.3	32.9 32.9	32.9	96.5 91.9	94.2	6.6 6.2	6.4	7.0	2.5 2.6	2.6	2.5	4.0 3.6	3.8	4.2
					Bottom 5	5.5 25. 25.		8.3 8.3	8.3	34.0 33.8	33.9	85.1 94.0	89.6	5.8 6.3	6.1	6.1	2.5 2.6	2.6		5.0 5.3	5.2	
26-Aug-15	Sunny	Moderate	18:19		Surface 1	1.0 26. 26.		8.2 8.2	8.2	32.5 32.8	32.7	84.6 82.9	83.8	5.7 5.6	5.6	5.6	3.8 3.8	3.8		2.6 4.2	3.4	
				6.6	Middle 3	3.3 25. 25.		8.2 8.1	8.1	34.8 34.8	34.8	84.6 82.7	83.7	5.7 5.6	5.6	0.0	3.6 3.8	3.7	3.7	3.5 5.3	4.4	3.9
					Bottom 5	5.6 25. 25.		8.2 8.0	8.1	34.6 35.0	34.8	80.8 79.7	80.3	5.4 5.4	5.4	5.4	3.6 3.8	3.7		4.0 3.5	3.8	
28-Aug-15	Sunny	Moderate	18:56		Surface 1	1.0 26. 26.	Z0.7	8.2 8.2	8.2	30.5 30.1	30.3	86.6 85.7	86.2	5.8 5.8	5.8	5.7	4.6 4.6	4.6		3.4 2.6	3.0	
				6.7	Middle 3	3.4 26. 26.		8.2 8.2	8.2	31.8 31.8	31.8	81.1 84.2	82.7	5.5 5.7	5.6	5.7	4.6 4.7	4.7	4.7	3.3 2.6	3.0	3.5
					Bottom 5	5.7 26. 26.	26.5	8.2 8.2	8.2	32.2 31.5	31.9	79.5 82.9	81.2	5.4 5.6	5.5	5.5	4.8 4.8	4.8		4.4 4.8	4.6	
31-Aug-15	Cloudy	Moderate	06:20		Surface 1	1.0 26. 26.	26.2	8.1 8.1	8.1	30.2 30.3	30.3	78.7 78.8	78.8	5.4 5.4	5.4	5.4	6.2 6.2	6.2		8.3 8.6	8.5	
				6.3	Middle 3	3.2 25. 25.	25.8	8.1 8.1	8.1	32.6 32.6	32.6	78.0 78.4	78.2	5.3 5.4	5.4	5.4	6.4 6.2	6.3	6.3	8.4 8.4	8.4	8.5
					Bottom 5	5.3 25. 25.	25.8	8.1 8.1	8.1	32.6 32.7	32.6	77.3 78.0	77.7	5.3 5.3	5.3	5.3	6.5 6.4	6.5		8.6 8.3	8.5	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	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*
3-Aug-15	Sunny	Moderate	15:50		Surface	1.0	28.4 28.1	28.2	8.0 8.0	8.0	25.3 25.5	25.4	88.2 84.6	86.4	6.0 5.8	5.9		4.7 4.7	4.7		4.8 3.6	4.2	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	4.7	-	-	4.1
					Bottom	4.0	28.3	27.7	8.0	8.0	26.1	26.8	86.2	84.1	5.9	5.8	5.8	4.6	4.7		4.8	4.0	l
5-Aug-15	Sunny	Moderate	17:26				27.0 29.0		8.0 8.1		27.4 22.4		82.0 82.2		5.7 5.6			4.7 3.3			3.2 5.8		
3-Aug-13	Suring	Woderate	17.20		Surface	1.0	29.0	29.0	8.1	8.1	22.4	22.4	82.0	82.1	5.6	5.6	5.6	3.2	3.3		5.3	5.6	1
				4.9	Middle	-	-	-	-	-	-	-	-	-		-		-	-	3.3	-	-	5.8
					Bottom	3.9	29.0 29.0	29.0	8.1 8.1	8.1	22.4 22.4	22.4	82.1 81.9	82.0	5.6 5.6	5.6	5.6	3.2 3.4	3.3		5.2 6.8	6.0	
7-Aug-15	Sunny	Moderate	19:08		Surface	1.0	28.3 28.1	28.2	8.0 7.9	8.0	25.7 25.7	25.7	108.1 108.8	108.5	7.3 7.3	7.3	7.3	3.2 3.1	3.2		3.8 4.4	4.1	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	3.4	-	-	4.6
					Bottom	3.5	28.4 27.7	28.0	8.0 7.9	7.9	27.2 27.9	27.6	104.9 103.3	104.1	7.1 6.9	7.0	7.0	3.4 3.5	3.5		4.4 5.6	5.0	
10-Aug-15	Cloudy	Moderate	09:16		Surface	1.0	28.4	28.4	8.4	8.4	20.6	20.3	122.9	122.9	8.5	8.5		2.8	2.7		4.7	4.7	
				4.9	Middle	-	28.4	-	8.4	-	20.1	_	122.9	-	8.5	-	8.5	2.6	-	2.8	4.6	-	4.3
					Bottom	3.9	28.4	28.3	8.4	8.4	23.2	23.3	121.8	121.8	8.3	8.3	8.3	2.8	2.8		3.9	3.9	
12-Aug-15	Sunny	Moderate	10:28				28.2 28.4		8.4 8.1		23.4 21.7		121.8 99.1		7.0		0.0	2.8			3.8 2.9		
	,				Surface	1.0	28.3	28.4	8.1	8.1	21.2	21.4	102.0	100.6	7.2	7.1	7.1	2.4	2.5		3.4	3.2	1
				5.1	Middle	-	27.8	-	8.0	-	23.1	-	99.6	-	7.0	-		2.4	-	2.5	5.9	-	4.8
					Bottom	4.1	28.4	28.1	8.1	8.1	23.0	23.1	99.7	99.7	7.0	7.0	7.0	2.4	2.4		6.9	6.4	
14-Aug-15	Cloudy	Moderate	13:40		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	24.5 24.7	24.6	95.4 96.7	96.1	6.5 6.6	6.6	6.6	3.6 3.6	3.6		7.2 6.3	6.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.6	-	-	6.9
					Bottom	4.1	27.8 27.5	27.7	8.3 8.3	8.3	25.4 25.7	25.6	96.0 92.4	94.2	6.6 6.3	6.4	6.4	3.5 3.5	3.5		7.0 6.7	6.9	
17-Aug-15	Sunny	Moderate	15:04		Surface	1.0	27.3 27.5	27.4	8.1 8.1	8.1	26.1 25.9	26.0	79.3 80.3	79.8	5.4 5.5	5.5		3.1 3.0	3.1		3.4 3.9	3.7	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.2	-	-	3.9
					Bottom	4.5	27.3	27.3	8.1	8.1	26.5	26.4	79.8	79.9	5.5	5.5	5.5	3.1	3.3		5.3	4.1	
19-Aug-15	Sunny	Moderate	15:50	<u> </u> 	Surface	1.0	27.3 28.3	28.4	8.1 8.1	8.1	26.2 24.3	24.2	91.8	92.2	5.5 6.3	6.3		3.4	3.1		2.8 3.3	2.7	
				4.7	Middle		28.4	-	8.1	-	24.1	-	92.6	-	6.3	0.0	6.3	3.1	-	3.1	2.1	-	2.7
				4.7			28.4		8.1		24.2		92.1		6.3	-		3.1		٥.١	2.7		2.1
21-Aug-15	Sunny	Moderate	17:12	<u> </u>	Bottom	3.7	28.2	28.3	8.1 8.2	8.1	24.7 27.5	24.5	91.7 97.4	91.9	6.3	6.3	6.3	3.1	3.1		2.5	2.6	<u> </u>
21-Aug-13	Junity	Woderate	17.12		Surface	1.0	28.1	28.1	8.2	8.2	27.7	27.6	96.9	97.2	6.5	6.5	6.5	1.3	1.3		2.5	3.0	1
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	1.4	-	-	2.7
					Bottom	4.3	28.0 28.1	28.0	8.2 8.2	8.2	28.0 27.8	27.9	96.4 96.9	96.7	6.5 6.5	6.5	6.5	1.4 1.3	1.4		2.5 2.0	2.3	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampli	Sampling		ature (°C)	F	Н	Salinity (ppt)		DO Saturation (%)		Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	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*
24-Aug-15	Sunny	Moderate	07:01		Surface	1.0	28.3 28.1	28.2	8.5 8.5	8.5	26.9 26.9	26.9	144.1 144.6	144.4	9.7 9.7	9.7	9.7	2.1 2.0	2.1		4.3 4.5	4.4	
				5.1	Middle	-	-	•		-		-		-		-	5.1	-	-	2.1	-	-	4.8
					Bottom	4.1	27.5 27.7	27.6	8.4 8.4	8.4	28.4 28.5	28.5	143.7 143.3	143.5	9.6 9.6	9.6	9.6	2.1 2.0	2.1		5.5 4.9	5.2	
26-Aug-15	Sunny	Moderate	08:51		Surface	1.0	25.8 25.9	25.8	8.3 8.3	8.3	30.9 30.2	30.6	91.9 92.3	92.1	6.3 6.3	6.3	6.3	2.1 2.1	2.1		4.7 4.8	4.8	
				4.7	Middle	-	-	-		-	-	-	-			-	0.5	-	-	2.1	-	-	5.2
					Bottom	3.7	25.7 25.9	25.8	8.2 8.3	8.2	30.0 30.7	30.3	91.0 92.7	91.9	6.3 6.3	6.3	6.3	2.1 2.1	2.1		5.5 5.4	5.5	
28-Aug-15	Rainy	Moderate	10:22		Surface	1.0	26.4 26.4	26.4	8.1 8.2	8.2	30.6 30.3	30.5	94.6 96.9	95.8	6.5 6.6	6.5	6.5	2.6 2.7	2.7		5.5	3.4	
				5.2	Middle	•	-	-		-		-		-		-	0.5	-	-	2.7	-	-	3.8
					Bottom	4.2	26.2 26.4 26.3	26.3	8.2 8.2	8.2	30.5 30.5	30.5	94.5 94.3	94.4	6.4 6.4	6.4	6.4	2.7 2.7	2.7		4.8 3.3	4.1	
31-Aug-15	Cloudy	Moderate	14:10		Surface	1.0	26.9 26.9	26.9	8.1 8.1	8.1	30.8 31.0	30.9	79.4 80.9	80.2	5.4 5.5	5.4	5.4	8.9 8.7	8.8		9.1 10.6	9.9	
				4.7	Middle	-	-	-	1 1	-		-		-		-	5.4	-	-	8.9	-	-	10.4
					Bottom	3.7	26.9 26.4	26.7	8.1 8.1	8.1	31.9 32.3	32.1	80.2 78.2	79.2	5.4 5.3	5.4	5.4	8.9 9.0	9.0		10.3 11.5	10.9	

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.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling		Temperature (°C)		pН		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Т	urbidity(NT	U)	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*
3-Aug-15	Sunny	Moderate	07:35		Surface	1.0	26.9 27.0	27.0	8.0 8.0	8.0	25.4 26.0	25.7	79.0 78.1	78.6	5.5 5.4	5.5		6.3 6.3	6.3		6.4 6.4	6.4	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.4	-	-	6.4
					Bottom	3.8	26.7 27.0	26.8	8.0	8.0	27.8 27.6	27.7	82.4 78.4	80.4	5.7 5.4	5.6	5.6	6.3	6.4		5.3	6.3	
5-Aug-15	Sunny	Moderate	08:54				27.0		7.9		23.6		78.4		5.4			3.3			6.6		
o Aug 10	Curiny	Woderate	00.04		Surface	1.0	27.3	27.4	7.9	7.9	23.6	23.6	79.9	78.5	5.6	5.4	5.4	3.6	3.5		5.8	6.2	
				5.0	Middle	-	-	-	-	-	27.1	-	76.8	-	-	-		-	-	3.4	6.7	-	6.7
					Bottom	4.0	26.9 27.1	27.0	7.8 7.9	7.9	27.0	27.1	77.5	77.2	5.3 5.3	5.3	5.3	3.2 3.4	3.3		7.4	7.1	
7-Aug-15	Sunny	Moderate	11:46		Surface	1.0	26.7 27.7	27.2	7.8 7.8	7.8	26.4 24.9	25.7	74.8 74.8	74.8	5.1 5.1	5.1	5.1	2.4 2.5	2.5		2.5 4.6	3.6	ļ
				4.6	Middle		-	-	-	-	-	-	-	-	-	-	3.1	-	-	2.7	-	-	3.6
					Bottom	3.6	26.5 25.4	25.9	7.8 7.8	7.8	32.3 33.1	32.7	76.8 75.1	76.0	5.2 5.1	5.1	5.1	2.9 2.8	2.9		3.1 4.0	3.6	
10-Aug-15	Cloudy	Moderate	18:21		Surface	1.0	27.1 27.4	27.2	8.3 8.3	8.3	27.1 26.7	26.9	105.5 104.8	105.2	7.2 7.1	7.2		3.0 3.0	3.0		4.0	5.0	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	3.1	-	-	4.6
					Bottom	3.9	26.7	27.0	8.3	8.3	29.7	29.5	102.5	103.5	7.0	7.0	7.0	3.0	3.1		4.0	4.2	'
12-Aug-15	Sunny	Moderate	19:32		Surface	1.0	27.3 26.7	27.3	8.3 8.2	8.2	29.2 28.2	27.7	104.5 113.9	113.9	7.0 7.9	7.9		3.1 6.6	6.3		4.3 4.4	4.6	
				5.4		1.0	27.8	27.5	8.2	0.2	27.2	-	113.8	-	7.9	7.5	7.9	6.0	-	6.6	4.8		5.6
				5.4	Middle	-	26.4		8.1		31.8		110.9		7.7			6.6		0.0	6.0		5.0
44.4 45	011	Madagata	05.04		Bottom	4.4	26.6	26.5	8.1	8.1	31.4	31.6	113.0	112.0	7.8	7.7	7.7	6.9	6.8		7.0	6.5	
14-Aug-15	Cloudy	Moderate	05:01		Surface	1.0	26.4 26.8	26.6	8.2 8.2	8.2	27.5 27.9	27.7	77.0 81.4	79.2	5.3 5.6	5.4	5.4	3.6 3.6	3.6		5.0 4.8	4.9	<u> </u>
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	3.7	-	-	5.7
					Bottom	4.1	25.8 25.6	25.7	8.2 8.2	8.2	31.2 30.9	31.1	76.1 75.2	75.7	5.2 5.2	5.2	5.2	3.7 3.6	3.7		6.9 5.8	6.4	
17-Aug-15	Sunny	Moderate	06:38		Surface	1.0	26.6 26.6	26.6	8.1 8.1	8.1	26.1 26.3	26.2	82.6 80.5	81.6	5.7 5.6	5.7		4.6 4.8	4.7		5.6 6.2	5.9	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.8	-	-	6.4
					Bottom	4.3	26.3 26.1	26.2	8.0 8.1	8.0	28.2 27.8	28.0	80.8 85.6	83.2	5.6 5.9	5.7	5.7	4.9 4.9	4.9		6.7 7.1	6.9	1
19-Aug-15	Sunny	Moderate	07:58	<u> </u>	Surface	1.0	28.5	28.4	8.1	8.1	21.4	21.5	86.7	86.8	6.0	6.0		2.6	2.6		3.2	3.1	
				5.1	Middle	-	28.4	-	8.1	-	21.5	_	86.9	_	6.0	_	6.0		_	2.7	3.0	_	3.1
					Bottom	4.1	28.2	27.8	8.0	8.1	25.2	25.3	86.8	83.2	5.9	5.7	5.7	2.6	2.7		2.8	3.0	1
21-Aug-15	Sunny	Moderate	09:21		Surface	1.0	27.4 27.5	27.6	8.1 8.1	8.1	25.5 24.9	24.9	79.5 83.2	83.6	5.5 5.7		0.7	2.7 1.9			3.1 2.0		
	·					1.0	27.6		8.1	0.1	25.0	24.9	84.0	03.0	5.8	5.7	5.7	1.8	1.9		2.2	2.1	
				5.3	Middle	-	26.9	-	- 8.0	-	27.0	-	80.4	-	- 5.5	-		2.0	-	2.0	2.8	-	2.3
					Bottom	4.3	27.0	27.0	8.1	8.1	27.5	27.3	82.3	81.4	5.6 5.6	5.6	5.6	2.0	2.0		2.0	2.5	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

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

Date	Weather	Sea	Sampling	Water	Sampling		Temperature (°C)			Н	Salini	ty (ppt)	DO Saturation (%)		Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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*			
24-Aug-15	Sunny	Moderate	16:21		Surface	1.0	26.3 26.6	26.4	8.4 8.4	8.4	31.7 31.3	31.5	119.4 120.0	119.7	8.0 8.1	8.0	8.0	2.6 2.6	2.6		4.8 4.3	4.6				
				5.1	Middle		1 1	-	-	-	-	-		-	1 1	-	8.0	-	-	2.7	-	-	4.8			
					Bottom	4.1	26.6 26.4	26.5	8.4 8.4	8.4	32.9 32.8	32.8	119.4 117.0	118.2	8.0 7.9	7.9	7.9	2.7 2.6	2.7		4.5 5.4	5.0				
26-Aug-15	Sunny	Moderate	18:26		Surface	1.0	26.4 26.1	26.3	8.3 8.3	8.3	32.5 32.8	32.6	89.9 87.3	88.6	6.0 5.9	6.0	6.0	2.4 2.5	2.5		2.7 3.1	2.9				
				5.6	Middle	-		-	-	-	-	-	-	-		-	0.0	- 2.5 2.5	-	-	-	2.5	-	-	3.3	
					Bottom	4.6	26.2 26.3	26.2	8.3 8.3	8.3	33.9 33.0	33.4	87.5 88.9	88.2	5.9 6.0	5.9	5.9		2.5		3.5 3.8	3.7				
28-Aug-15	Sunny	Moderate	19:05		Surface	1.0	26.7 26.4	26.5	8.2 8.2	8.2	30.3 30.7	30.5	82.3 83.0	82.7	5.6 5.6	5.6	5.6	5.0 4.9	5.0		3.8	4.5				
				5.3	Middle			-	-	-	-	-		-	1 1	-	5.0	-	-	5.0	5.0	5.0	5.0	-	-	4.8
					Bottom	4.3	26.6 26.3	26.4	8.2 8.2	8.2	31.6 31.9	31.7	81.7 81.5	81.6	81.6 5.5 5.5 5.0 4.9		5.0		4.6 5.5	5.1						
31-Aug-15	Cloudy	Moderate	06:14		Surface	1.0	26.5 26.7	26.6	8.1 8.0	8.1	29.9 29.9	29.9	80.7 86.3	83.5	5.5 5.9	5.7	5.7	6.0 6.2	6.1		7.3 7.9	7.6				
				4.4	Middle	-	1 1	-	-	-	-	-		-	-	-	5.7	-	-	6.2	-	-	7.6			
					Bottom	3.4	26.0 26.1	26.0	8.1 7.9	8.0	32.3 31.9	32.1	80.6 83.4	82.0	5.5 5.7	5.6	5.6	6.1 6.3	6.2		7.8 7.1	7.5				

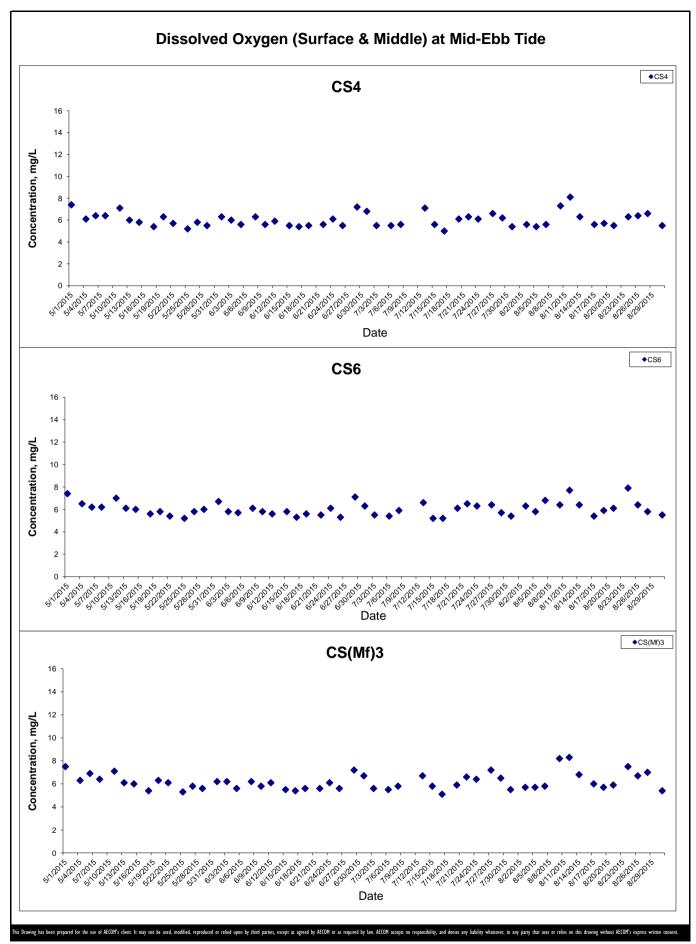
Remarks:

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

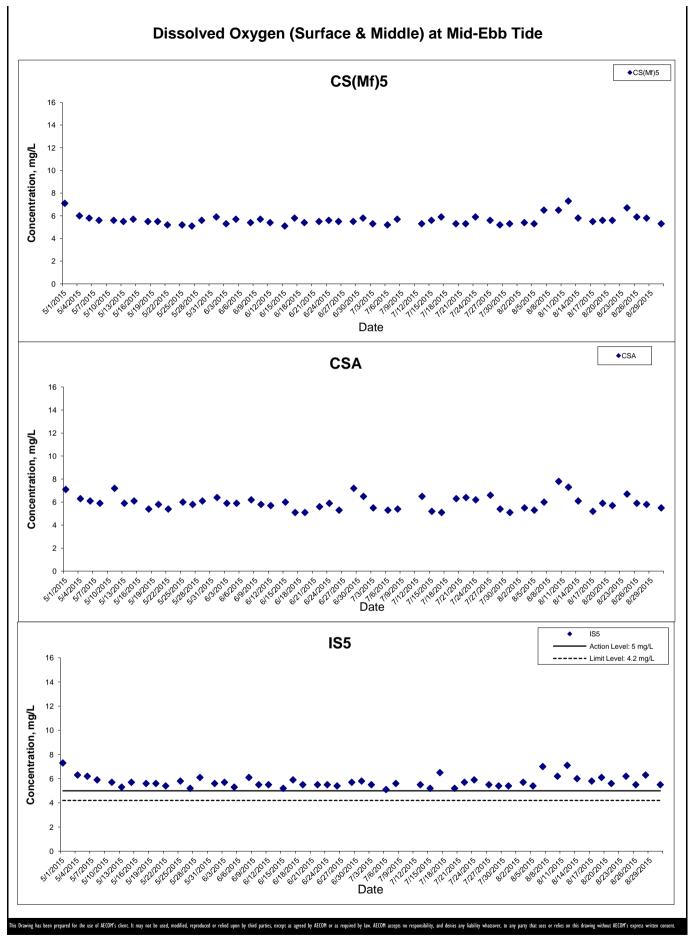
CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^{*} DA: Depth-Averaged

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher



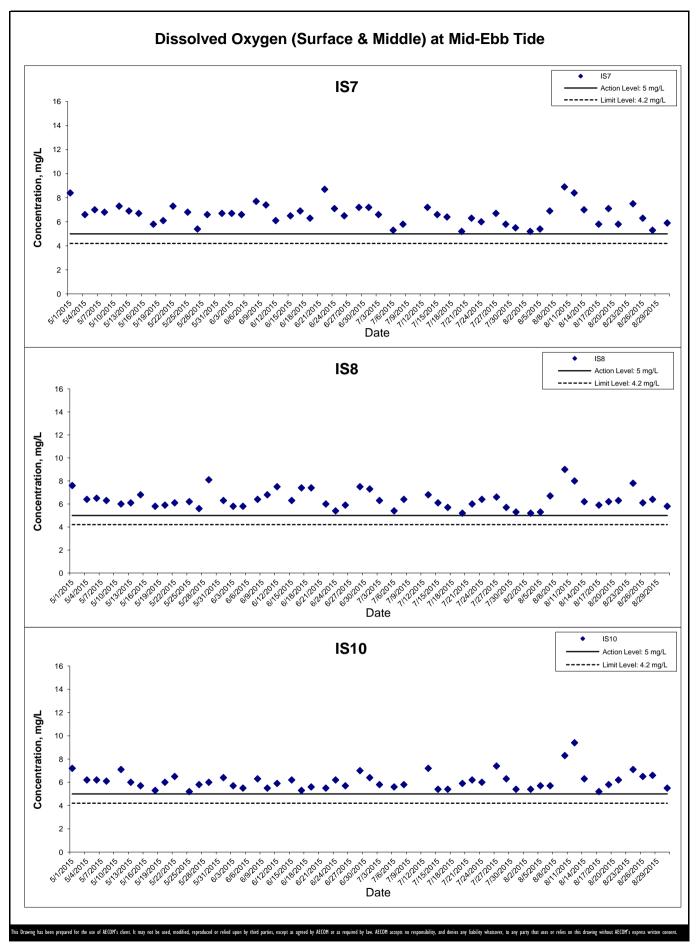
AECOM



AECOM

- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

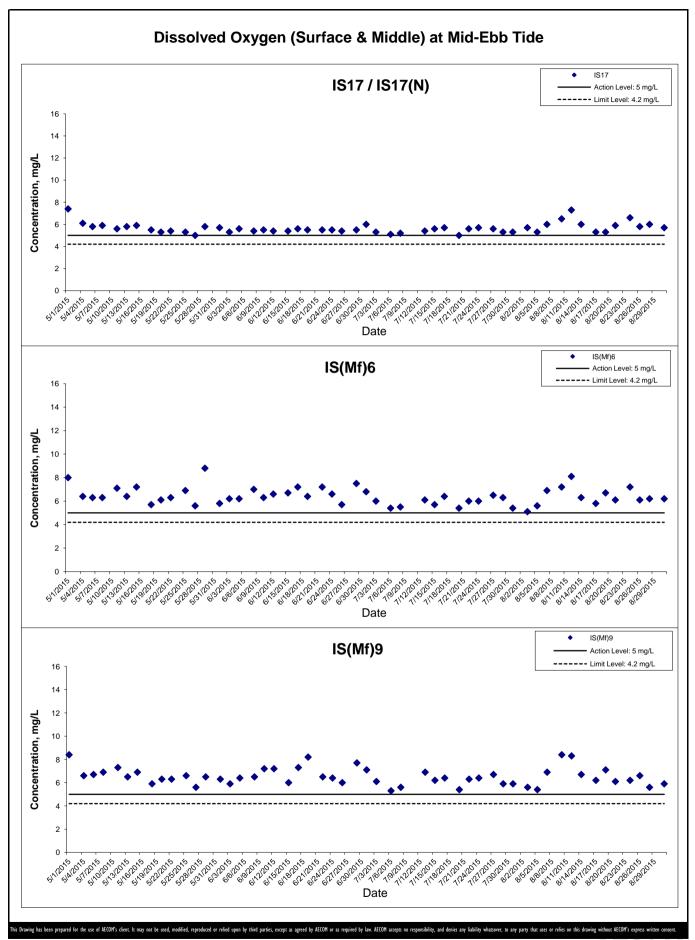
Monitoring Results



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- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

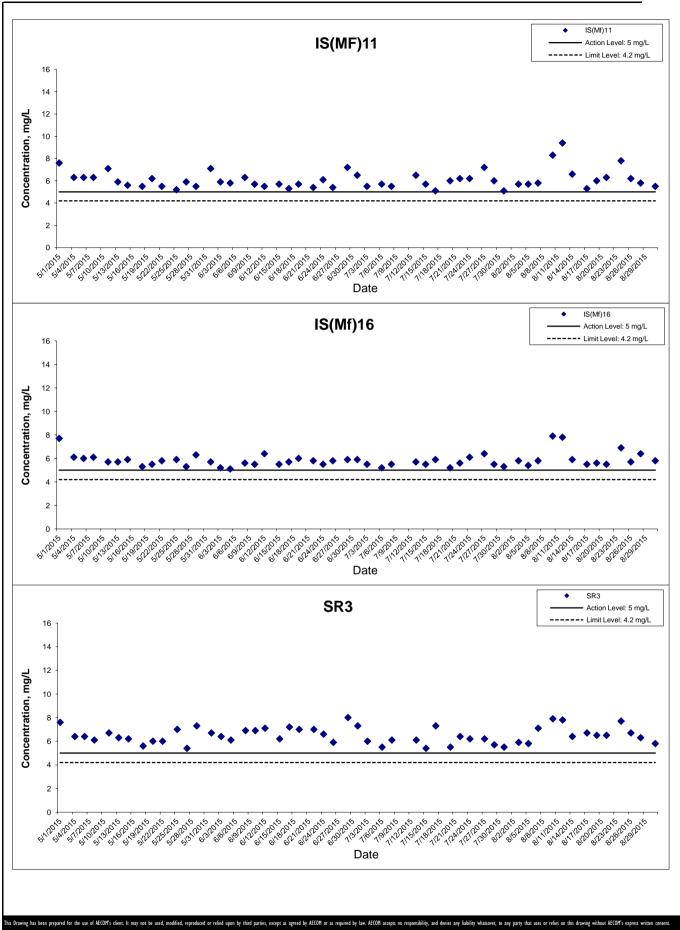
Monitoring Results



- RECLAMATION WORKS

ES
Graphical Presentation of Impact Water Quality

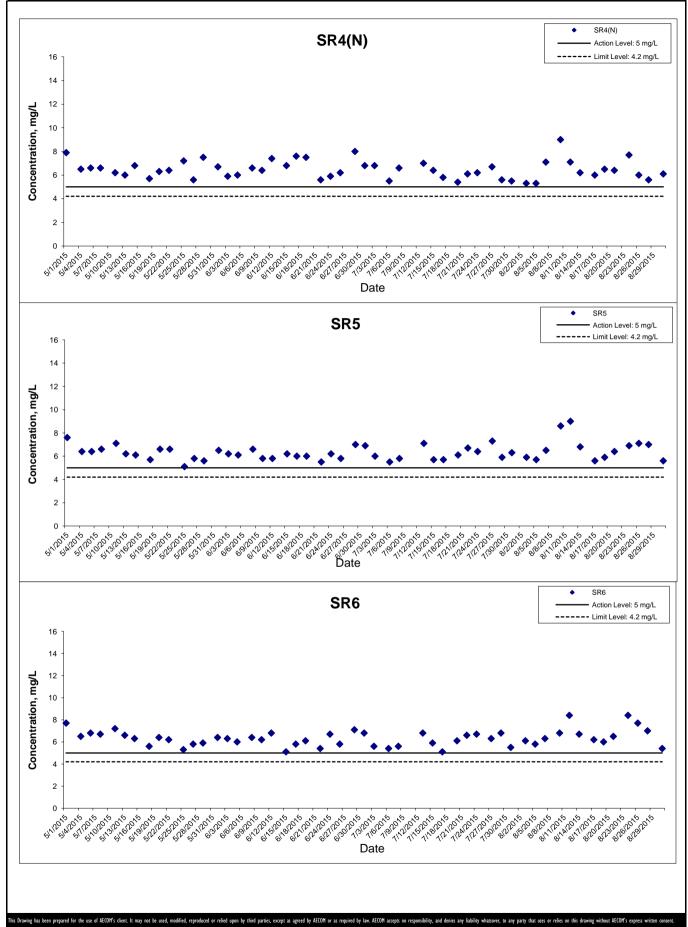
Monitoring Results
Project No.: 60249820 Date: September 2015



AECOM

- RECLAMATION WORKS Graphical Presentation of Impact Water Quality

Monitoring Results



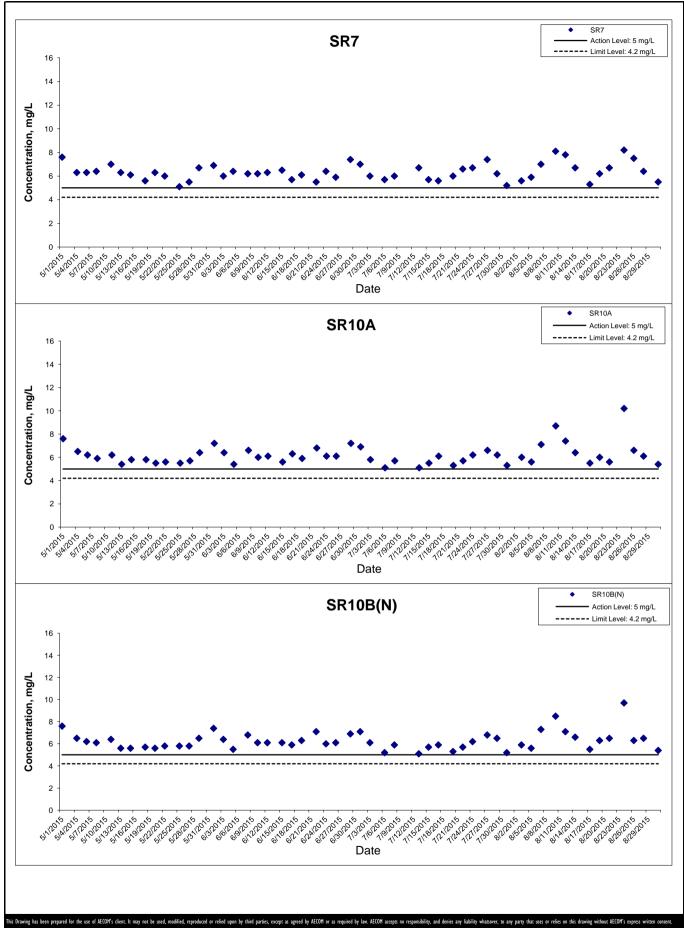
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality

Monitoring Results

Project No.: 60249820 Date: September 2015 Appendix J

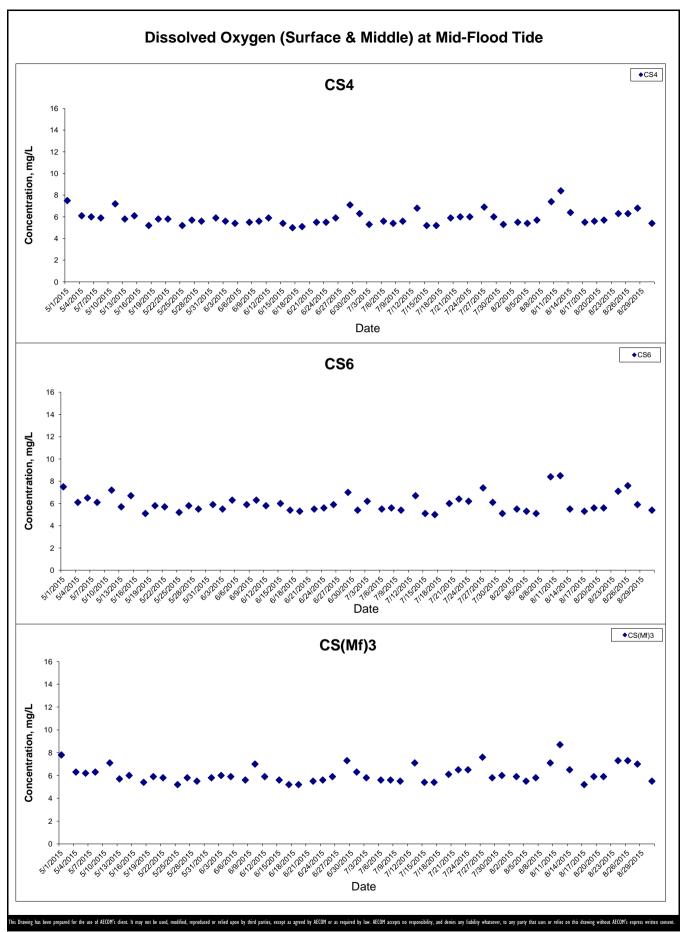
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- RECLAMATION WORKS

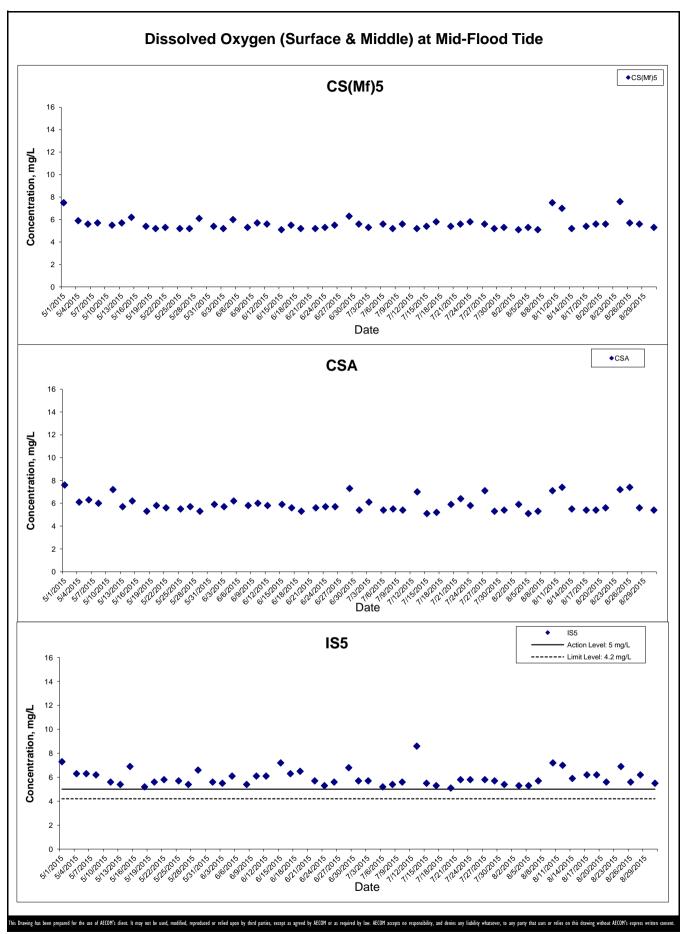
Graphical Presentation of Impact Water Quality

Monitoring Results



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

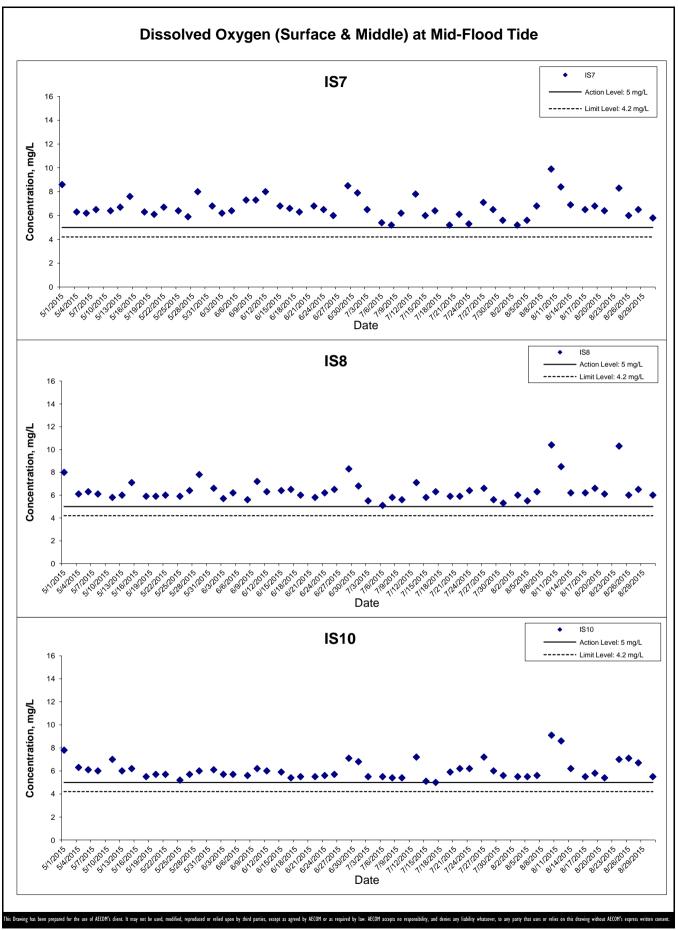
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HONG KONG - ZHUHAI - MACAO BRIDGE
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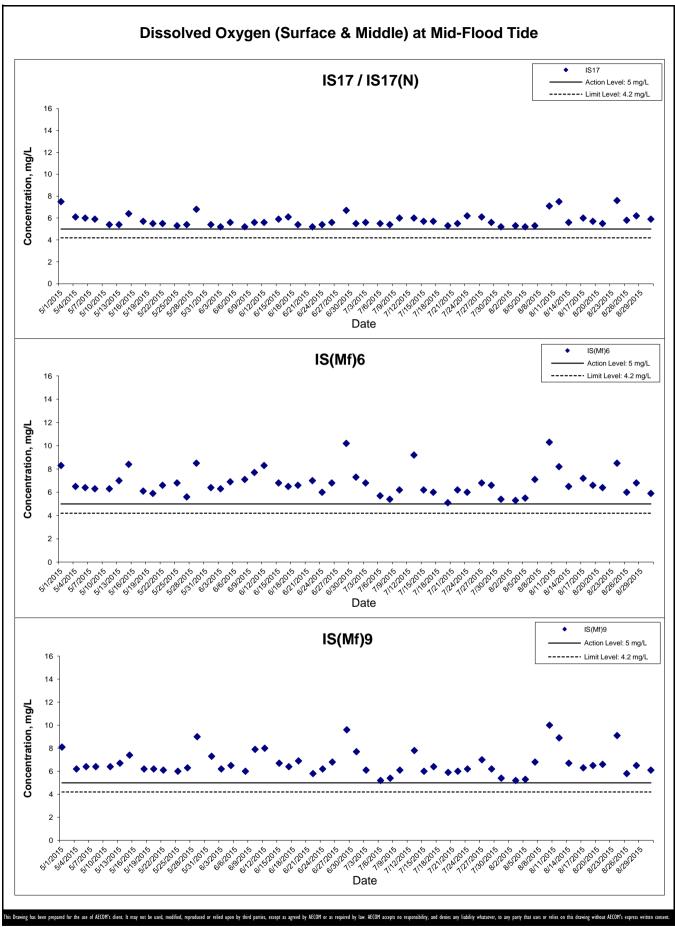
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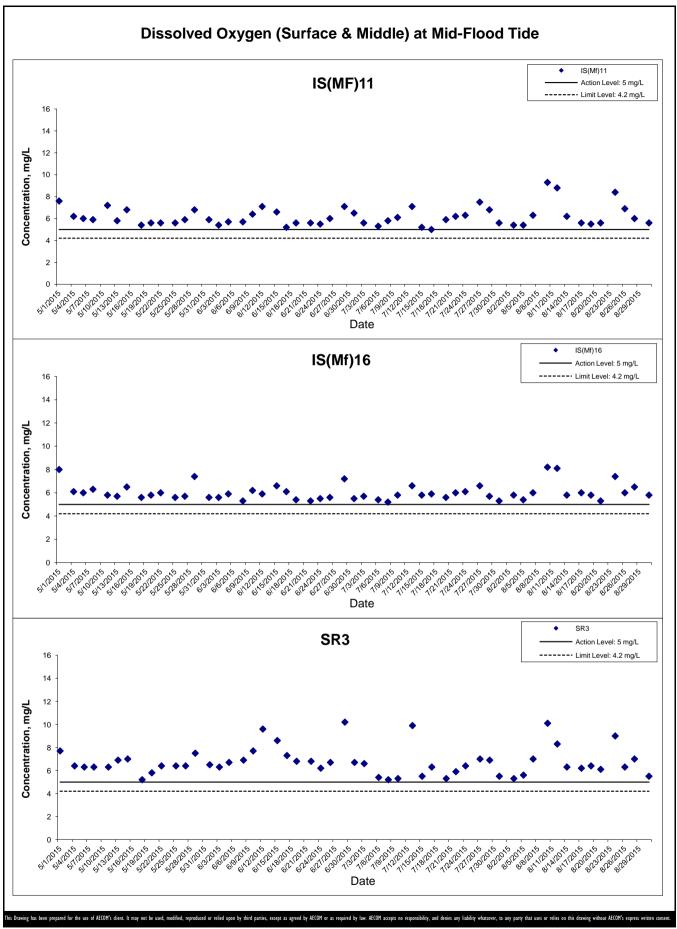
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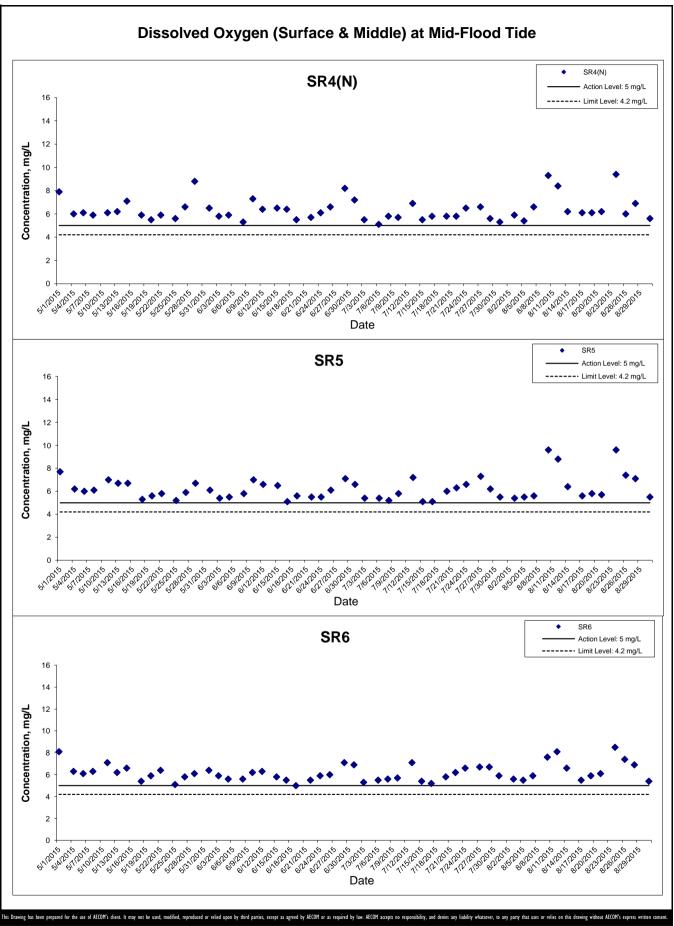
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Monitoring Results

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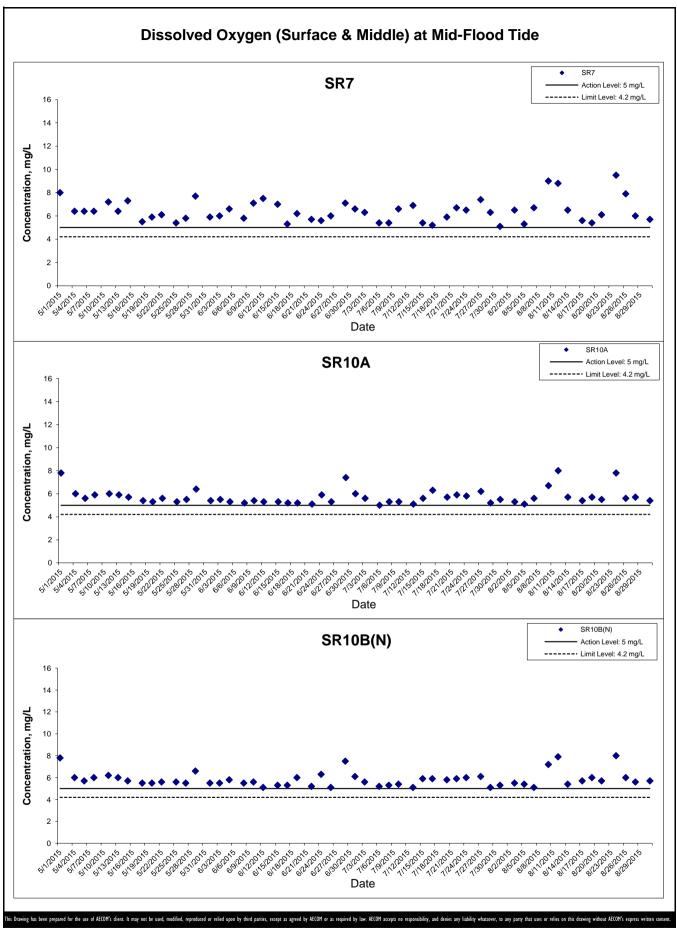


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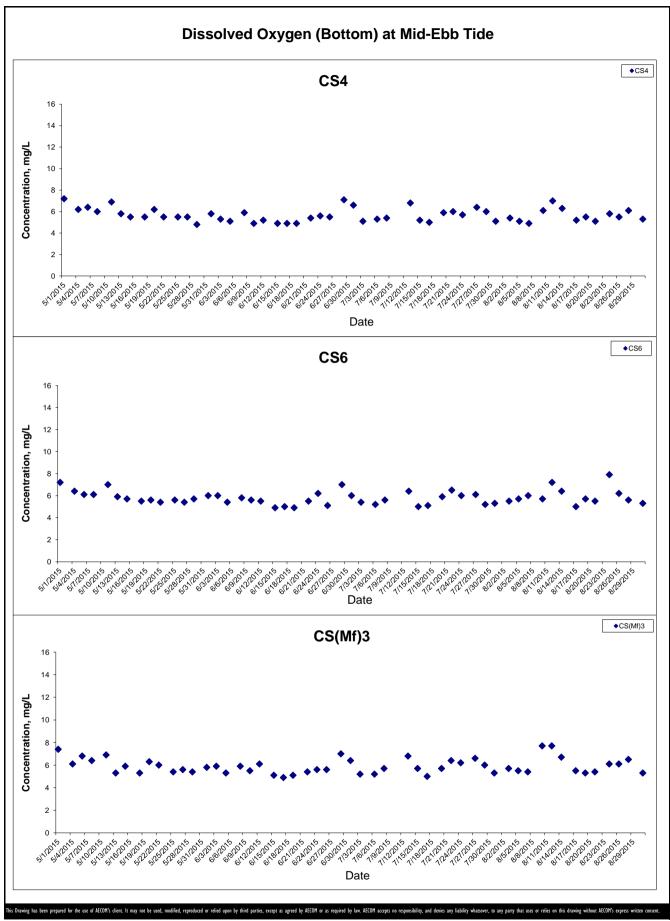
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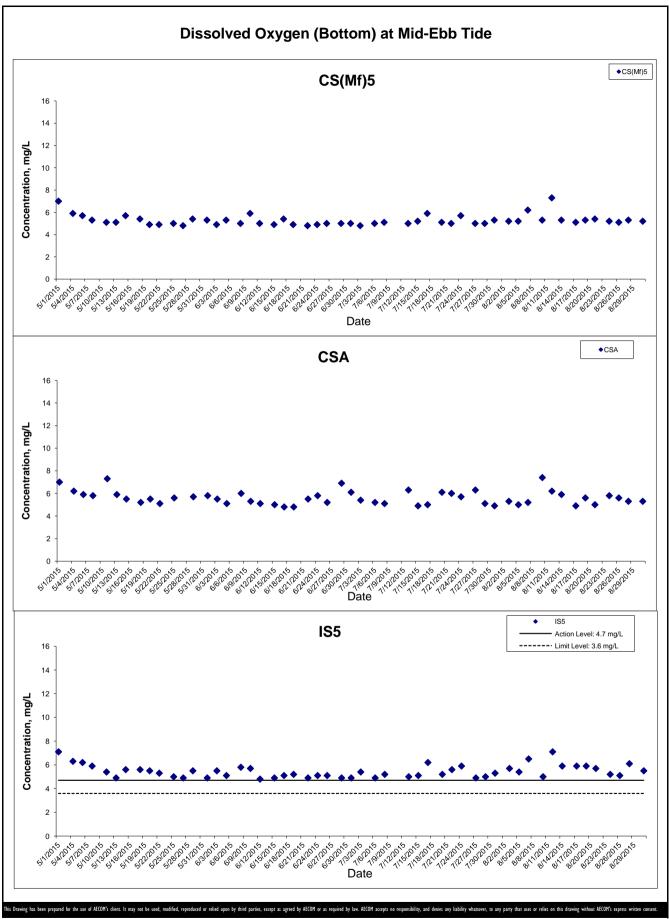
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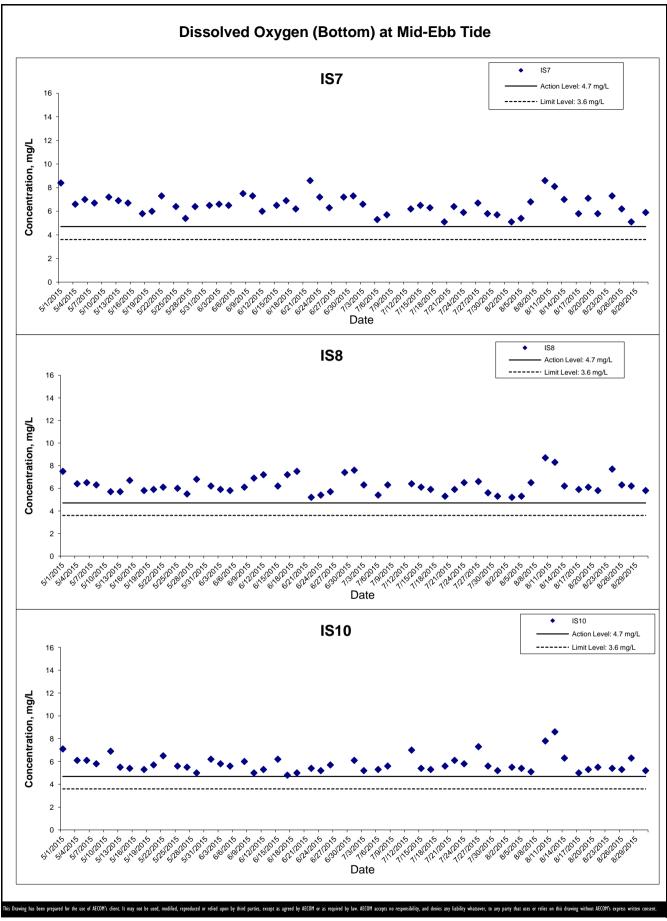


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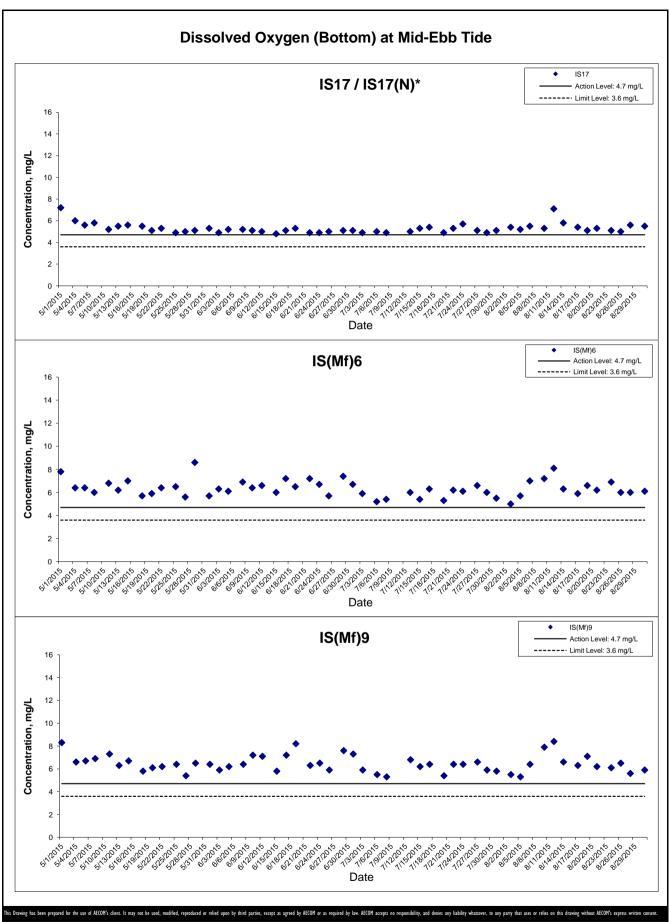
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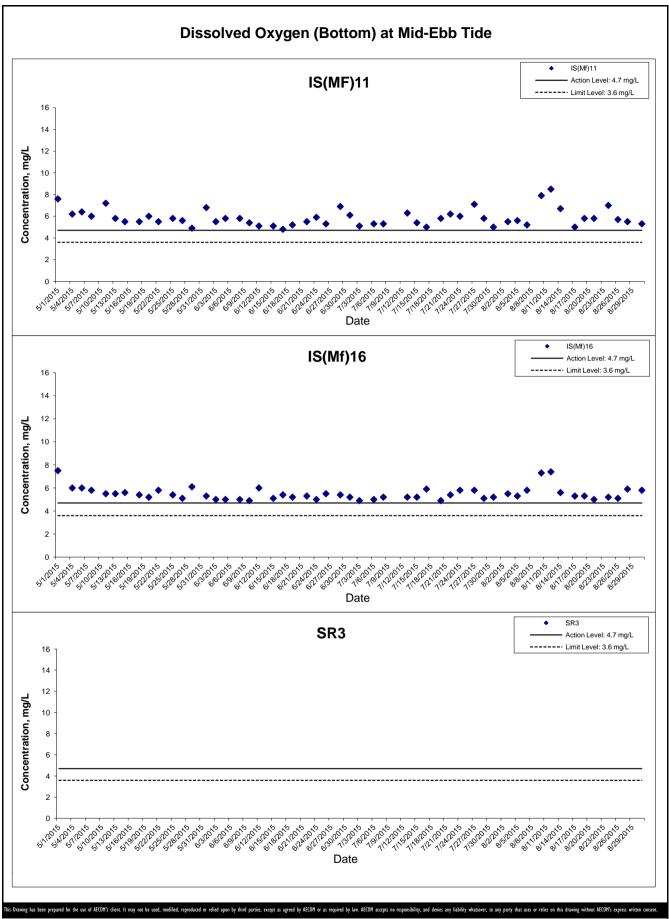
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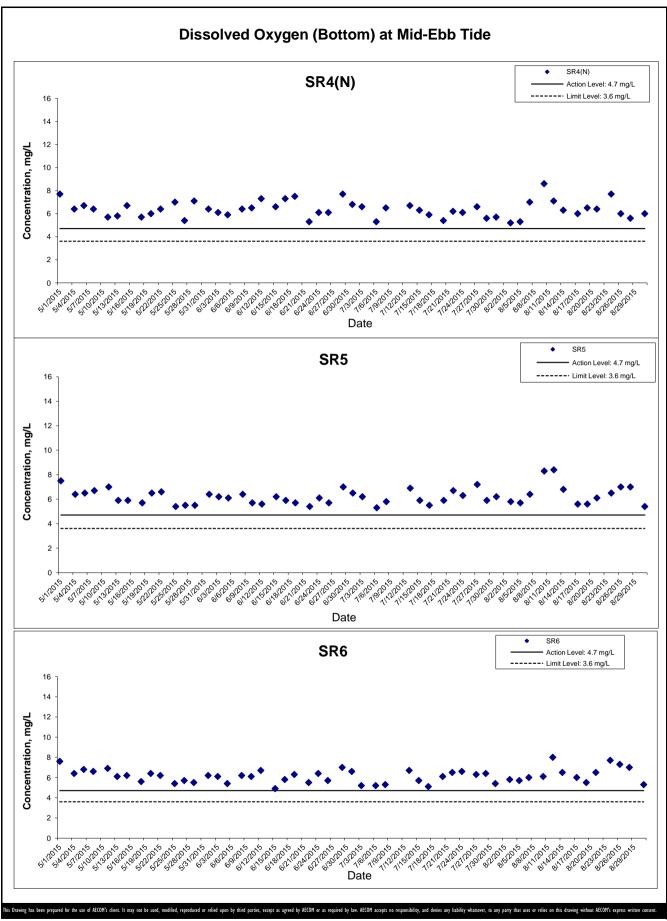
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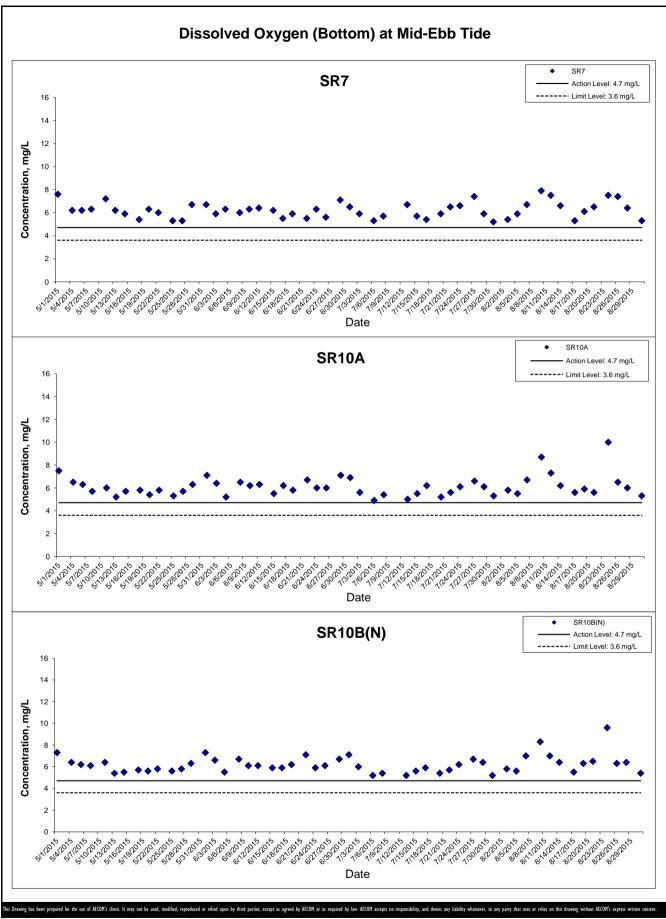
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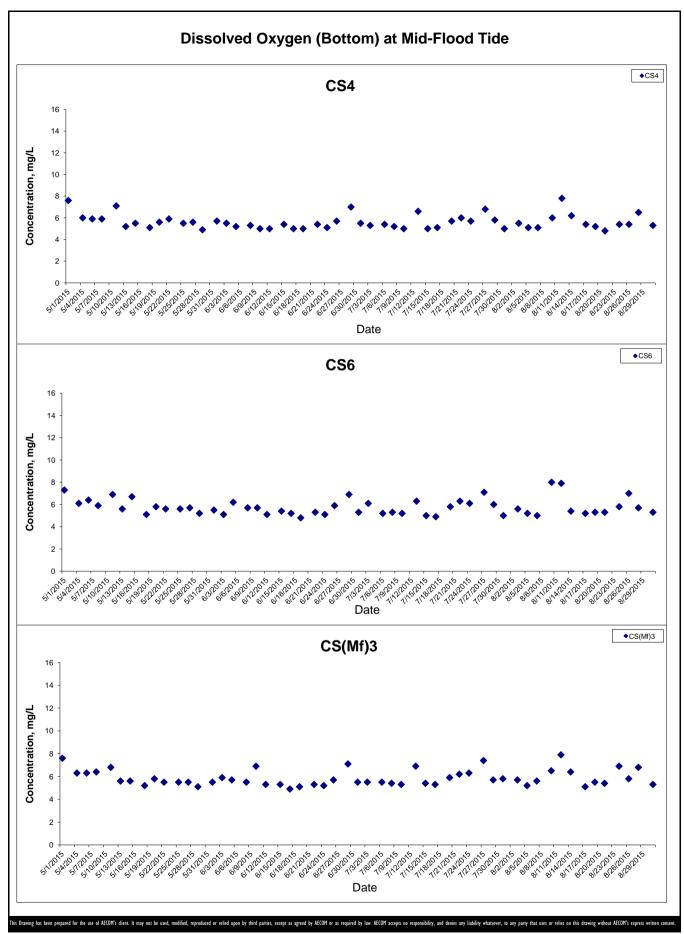


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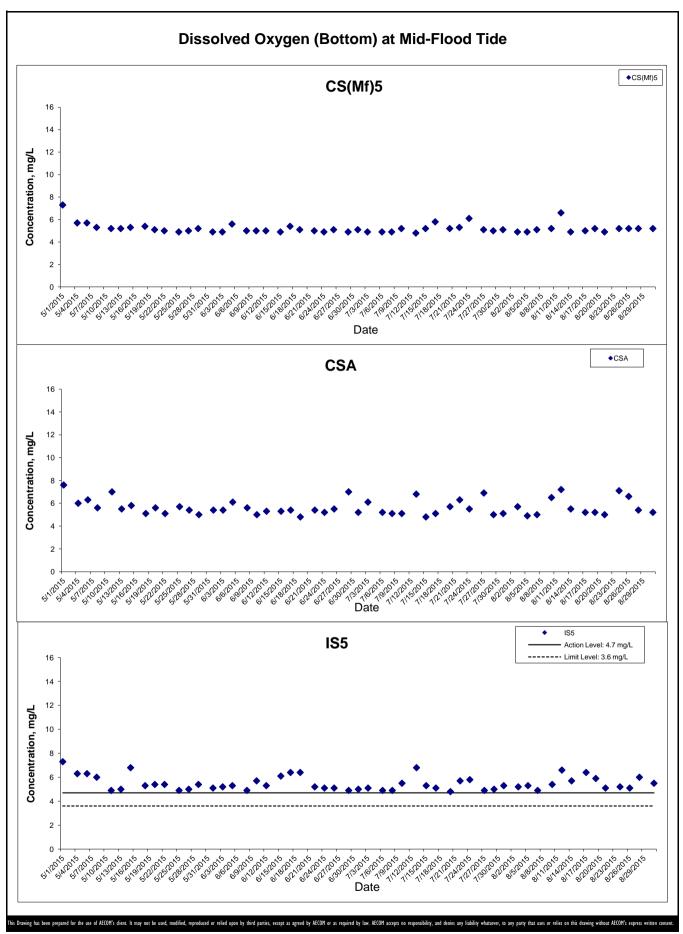


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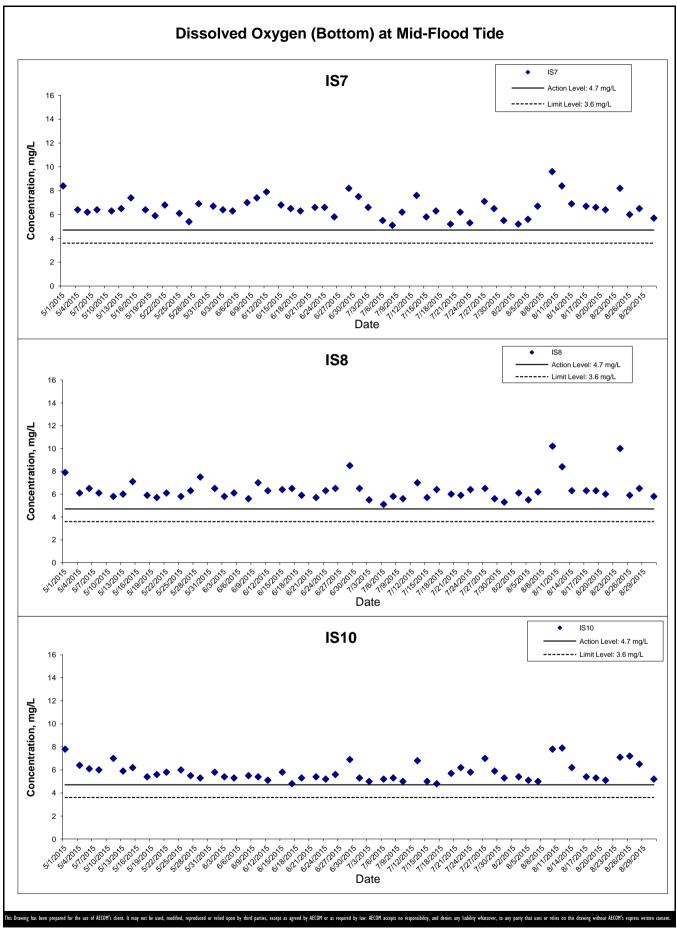
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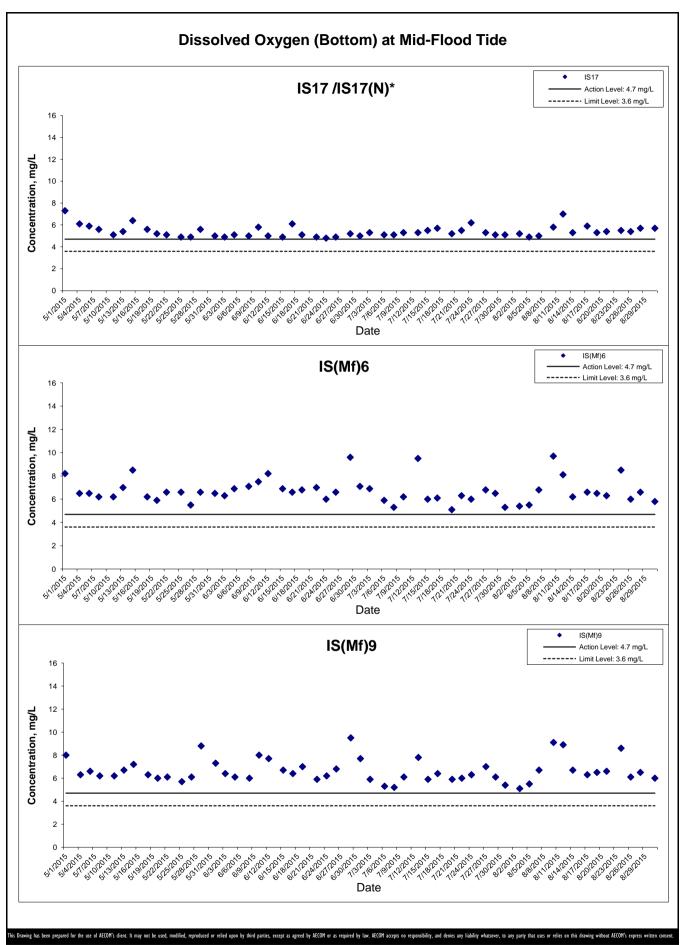
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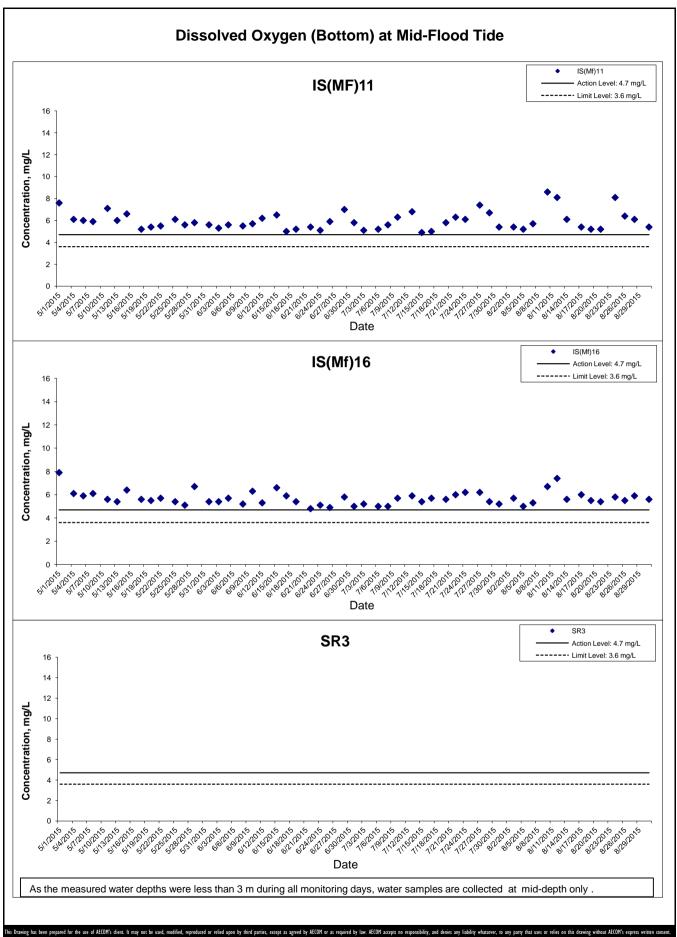


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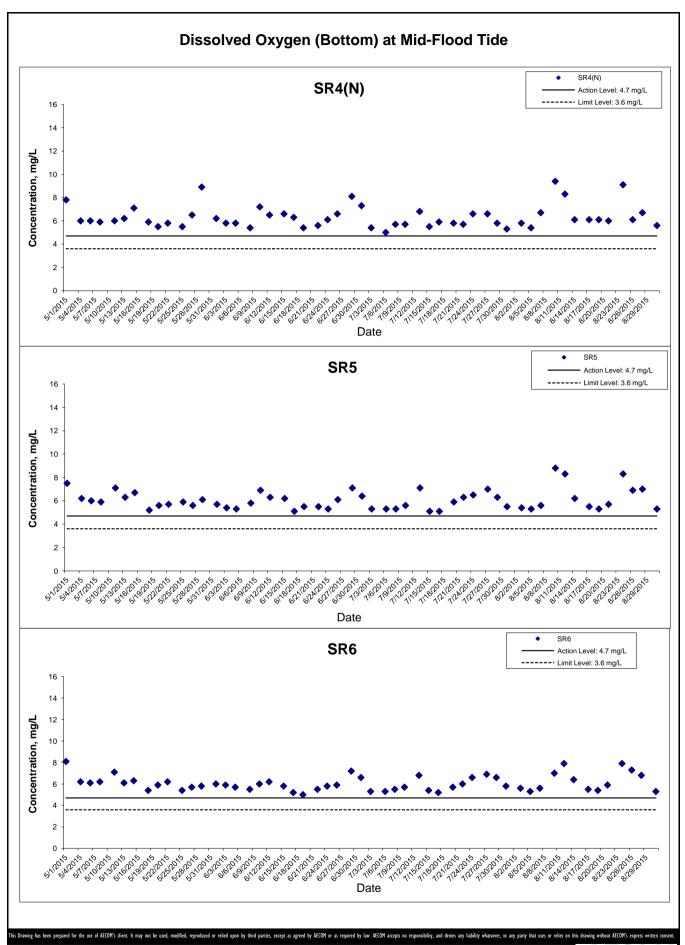
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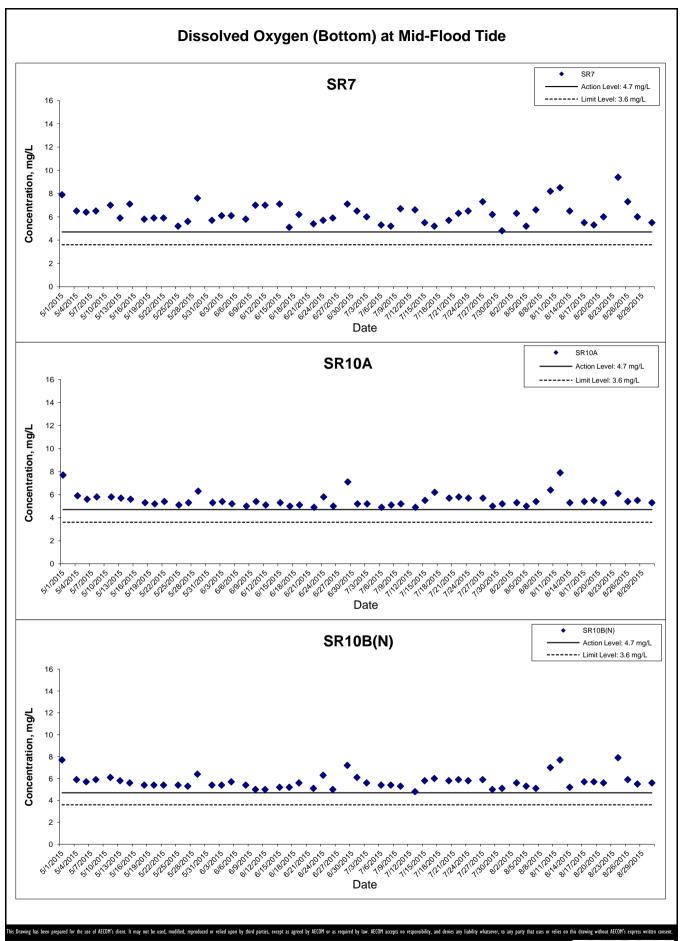


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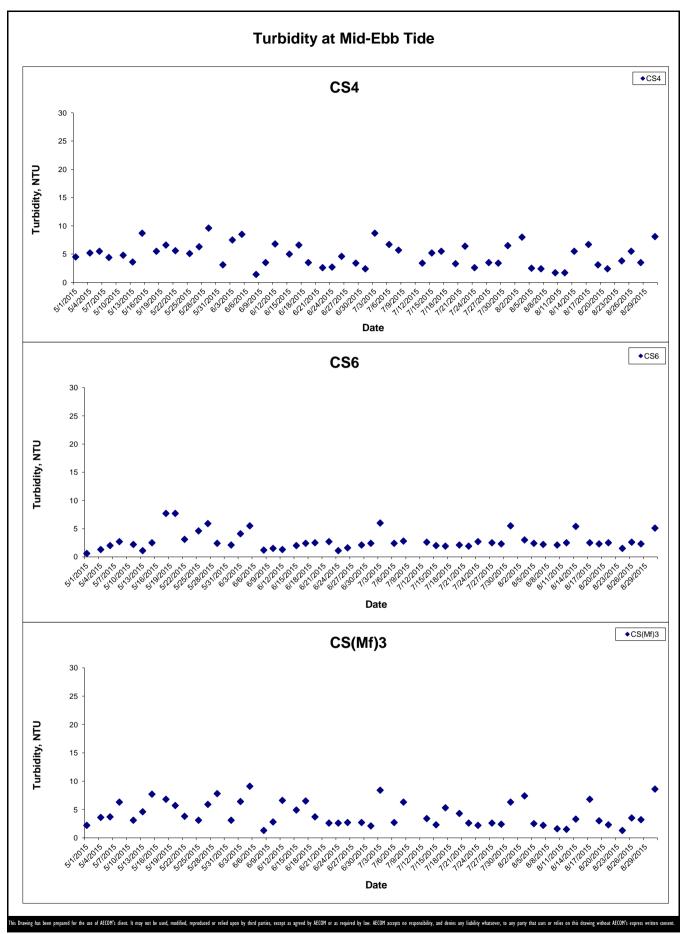


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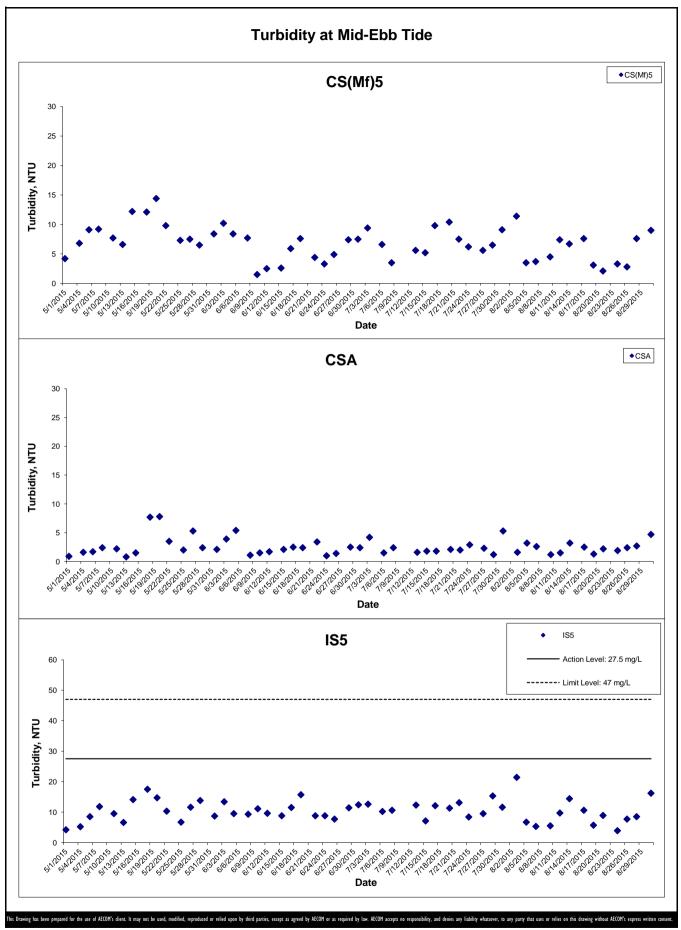
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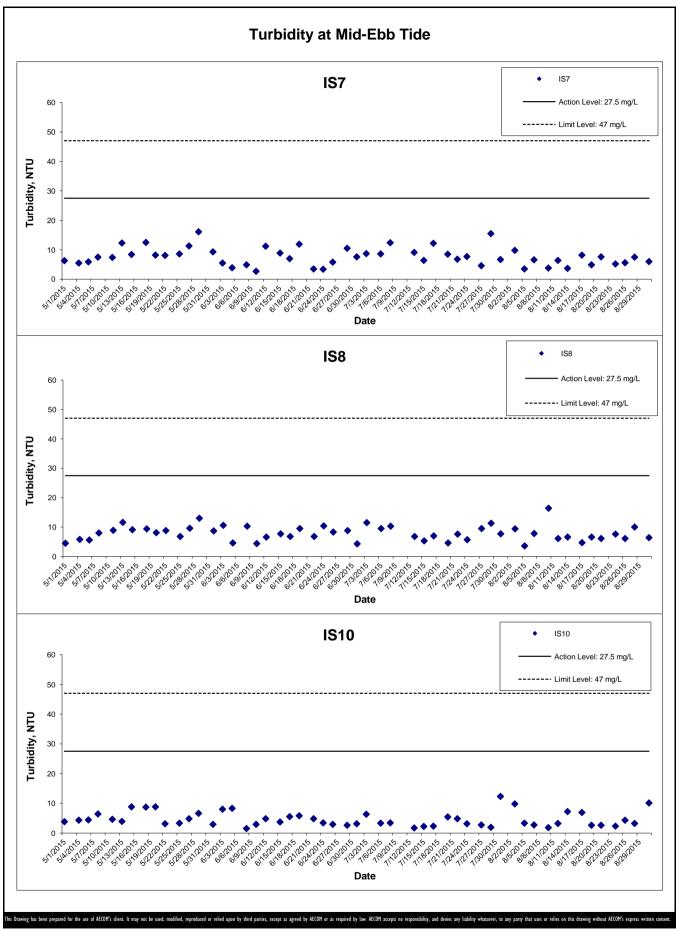


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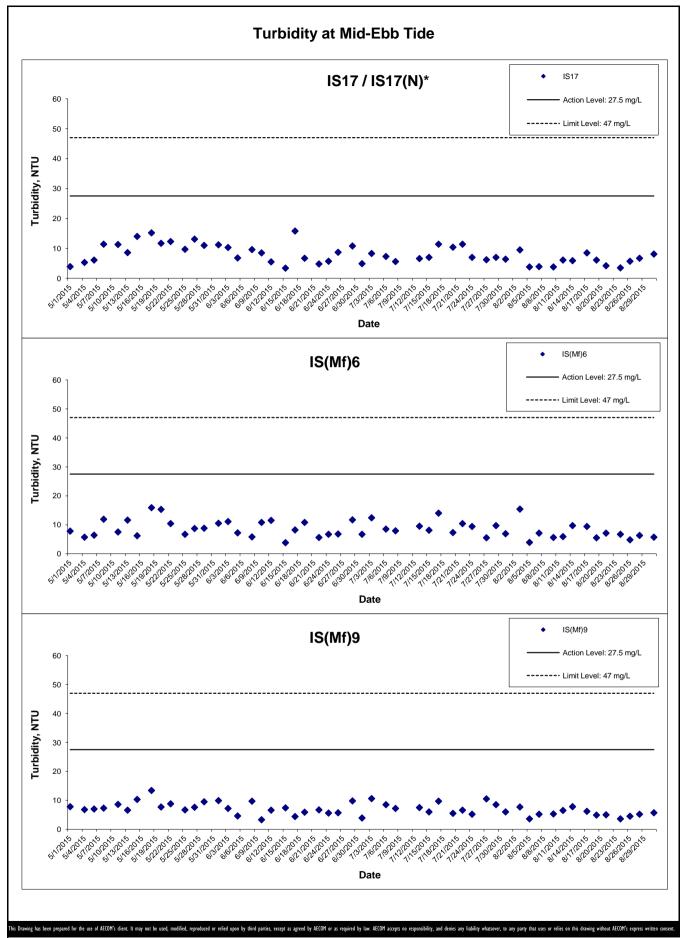
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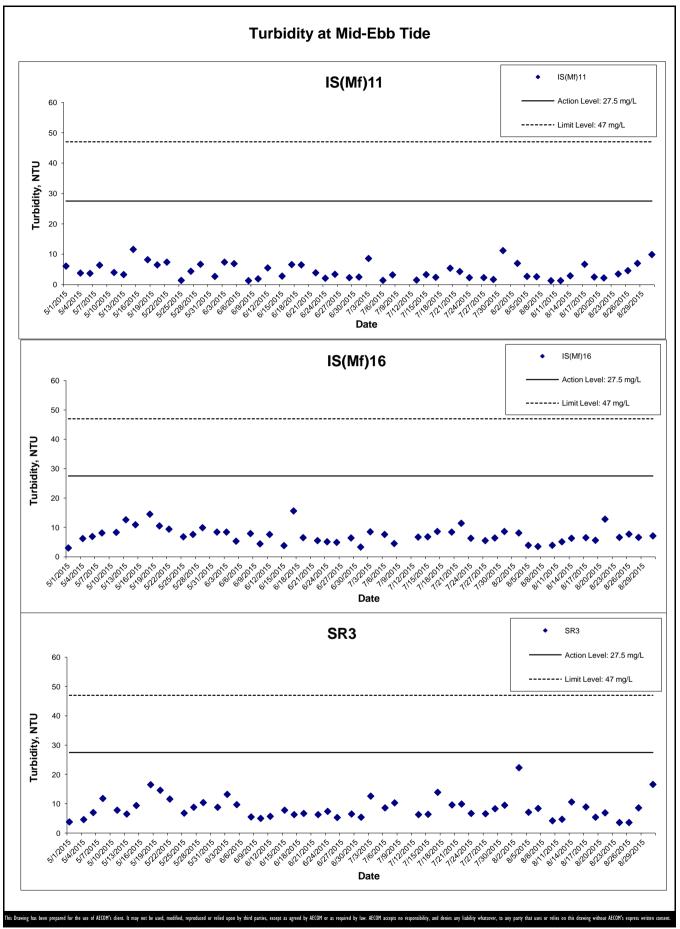


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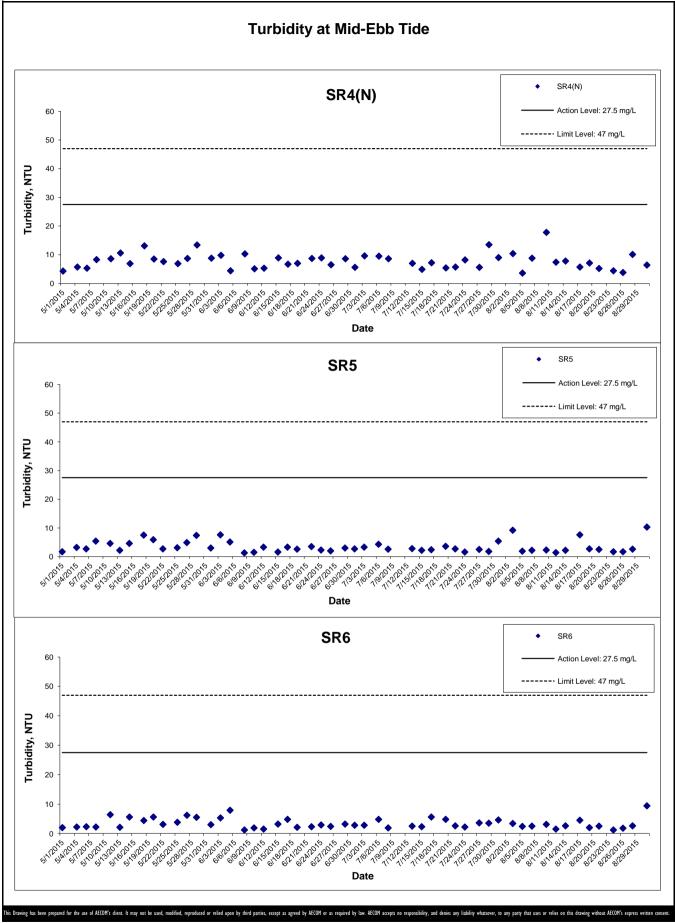
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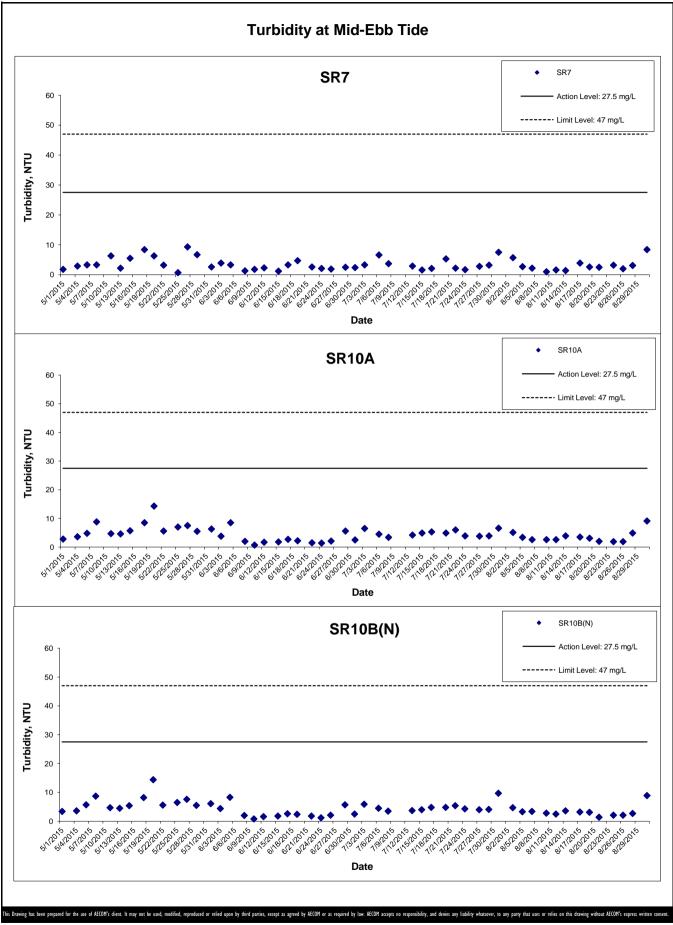


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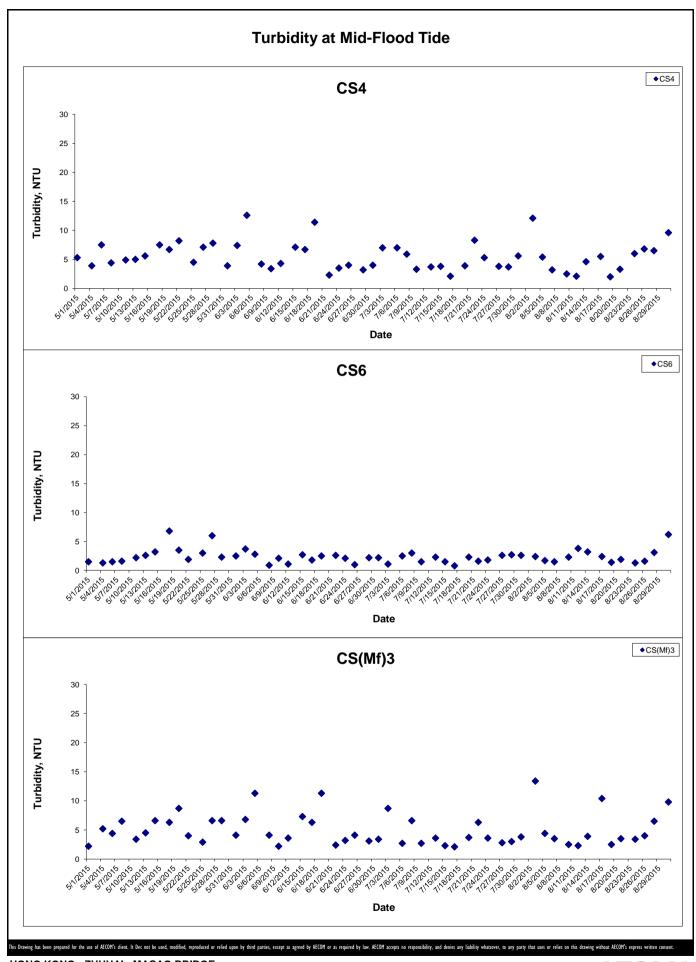


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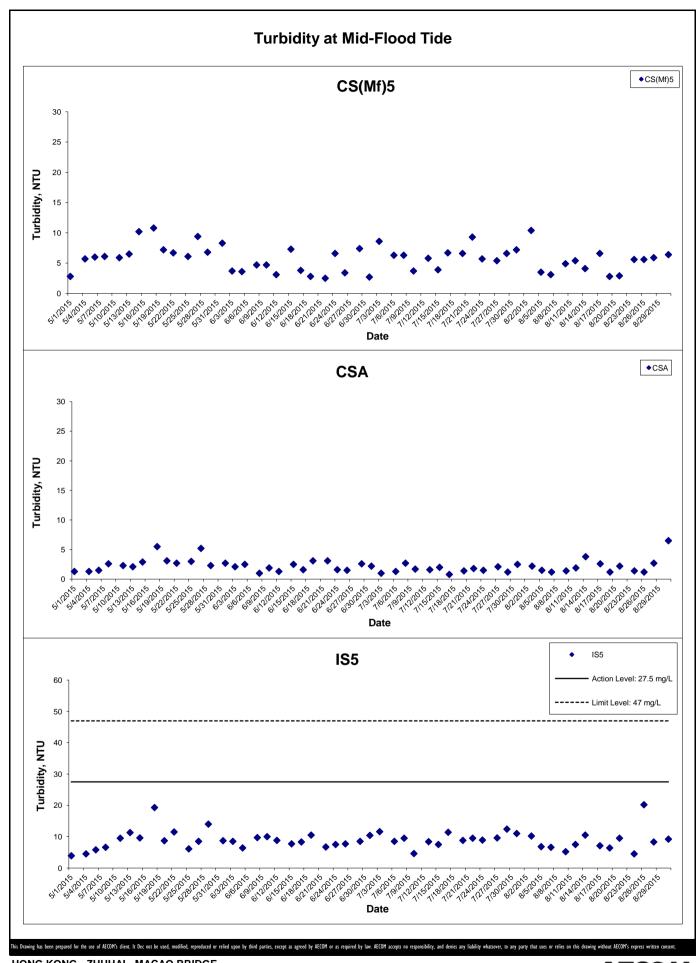
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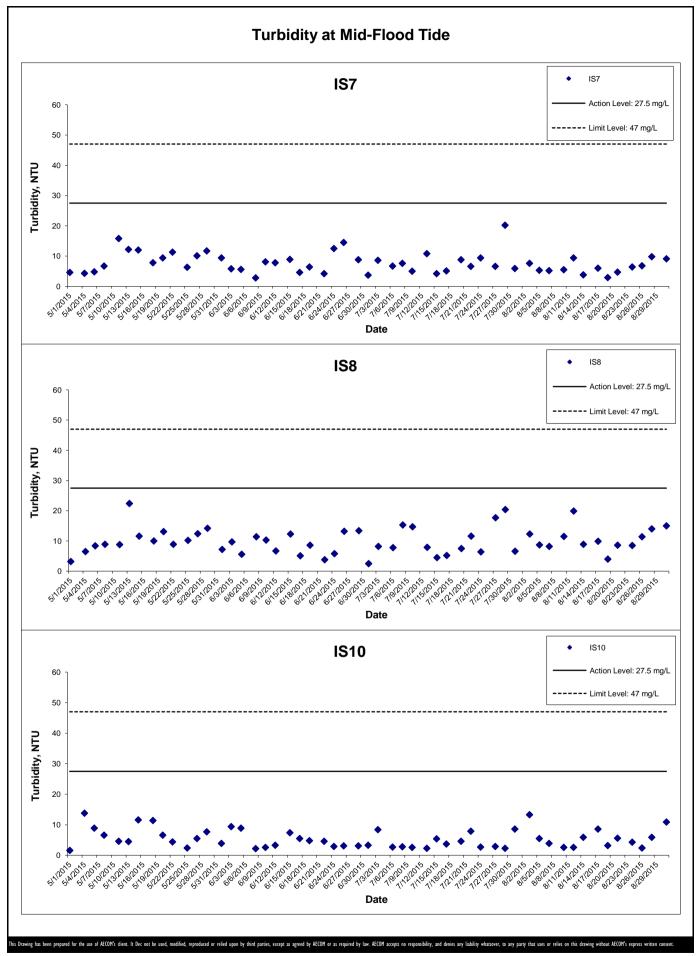
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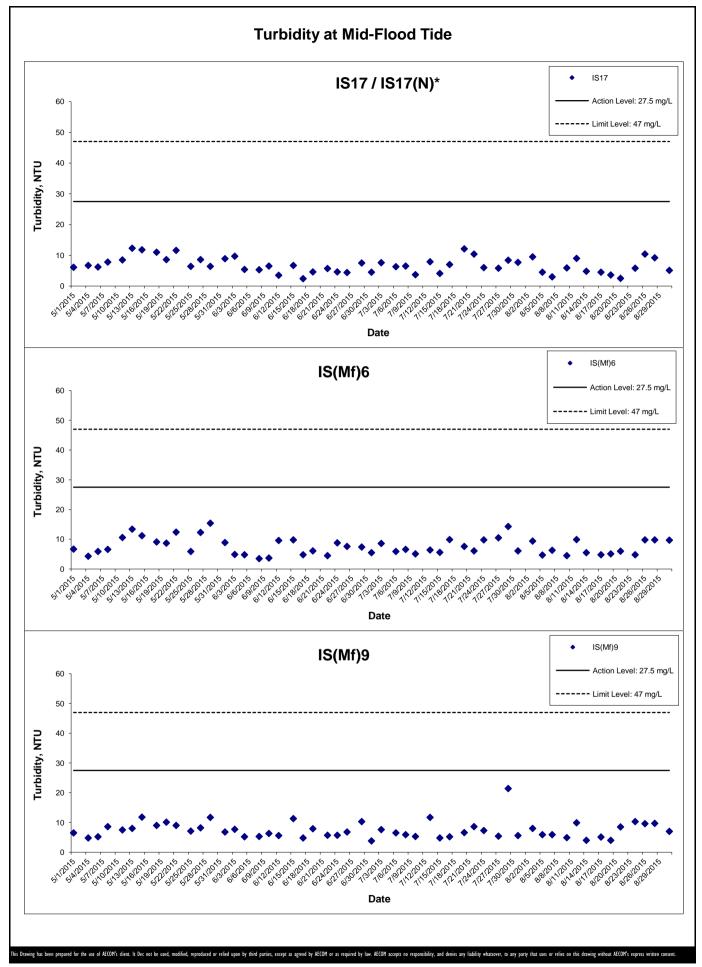
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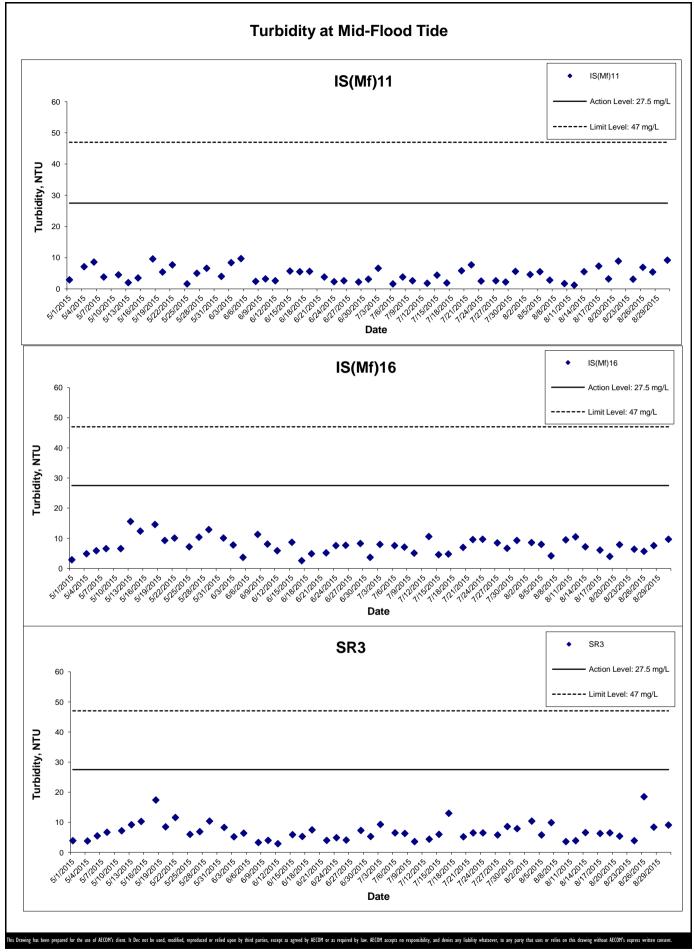
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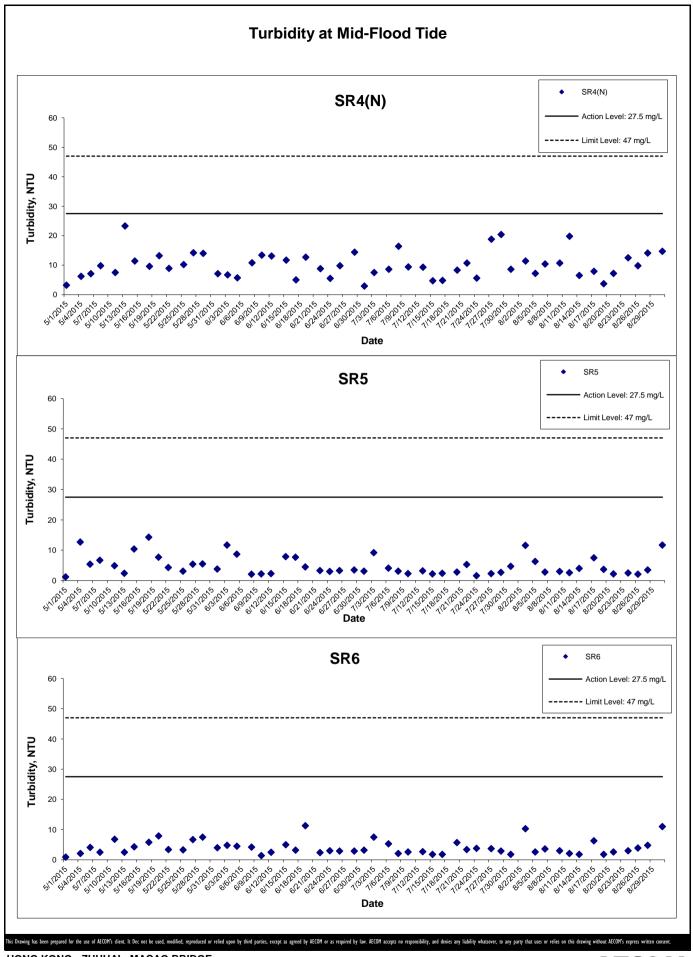


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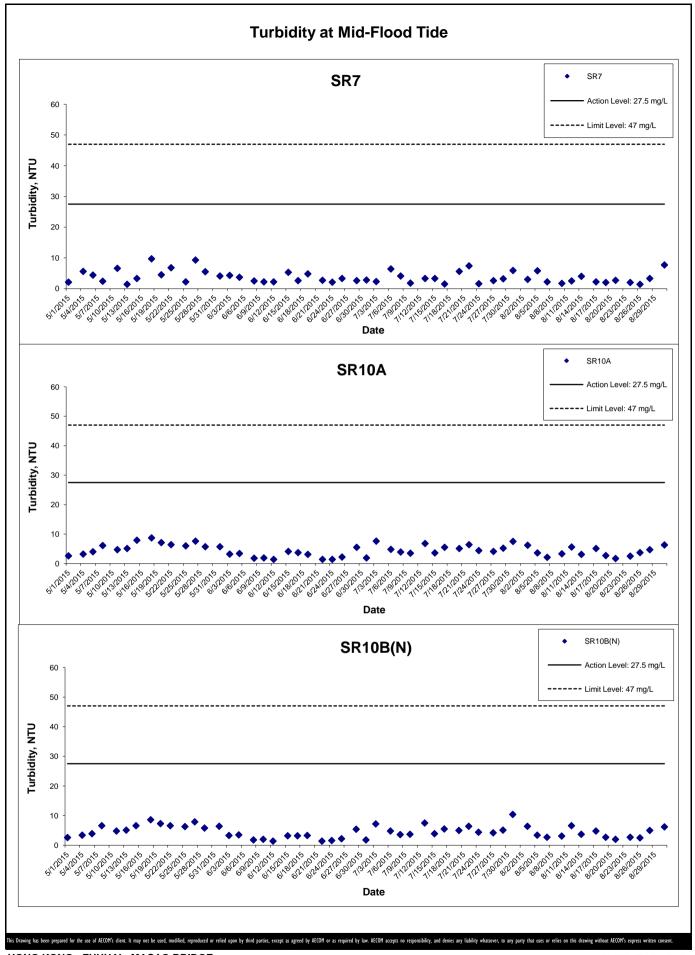
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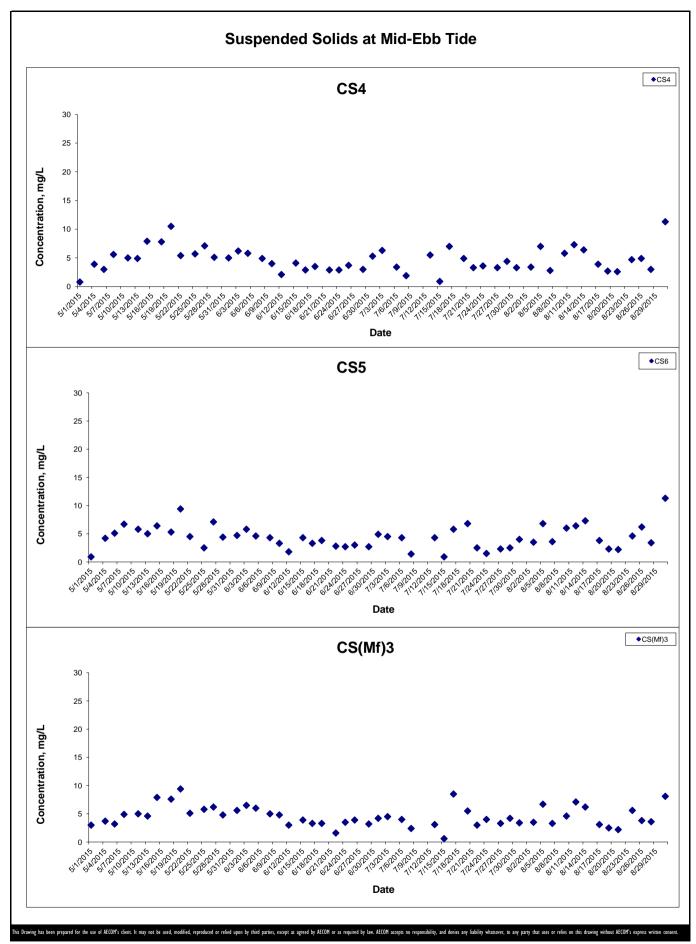
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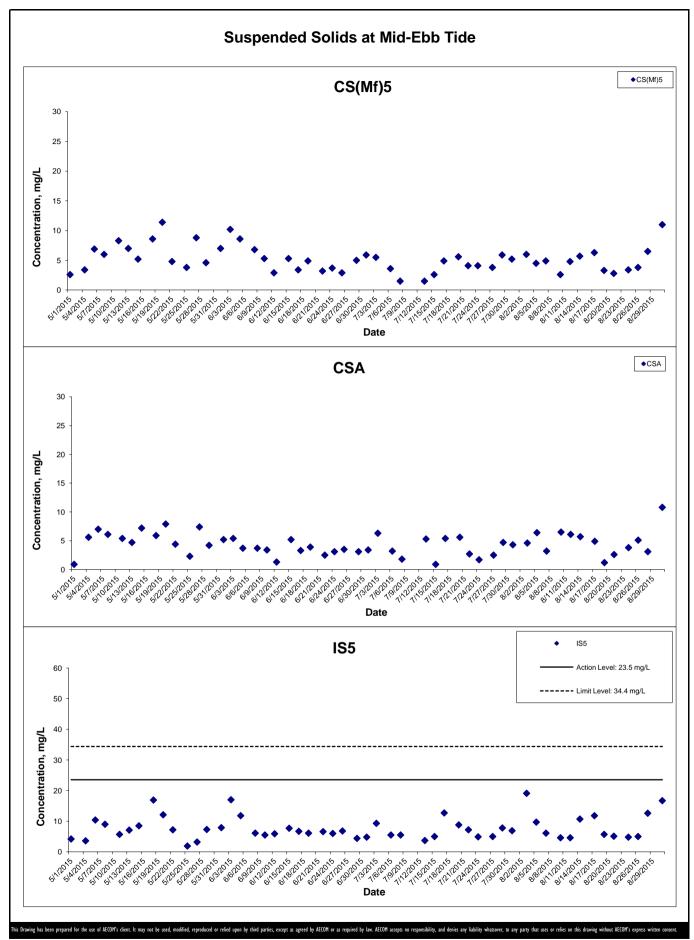
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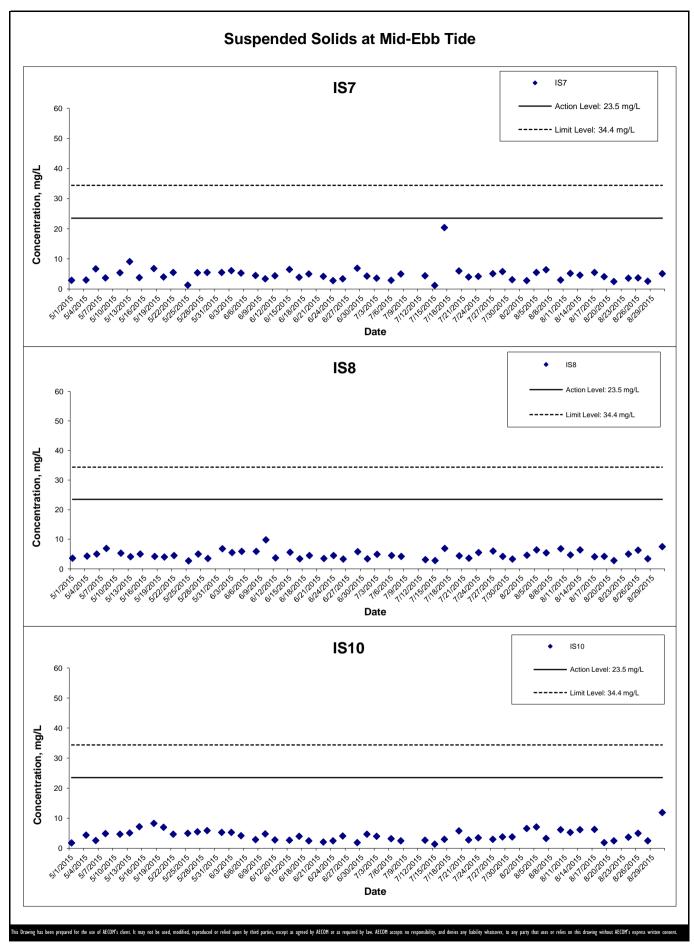
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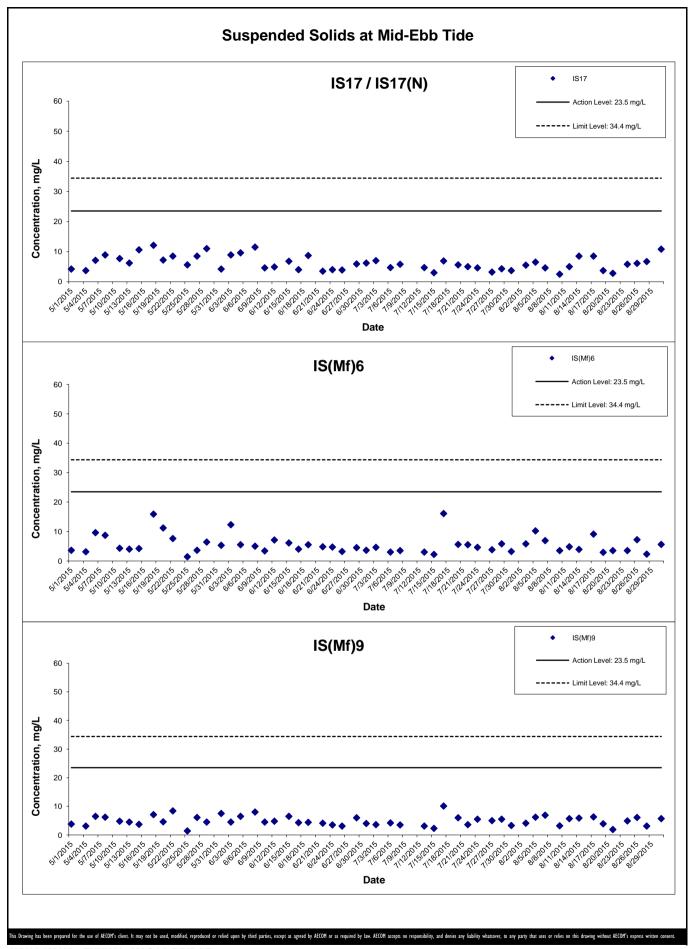
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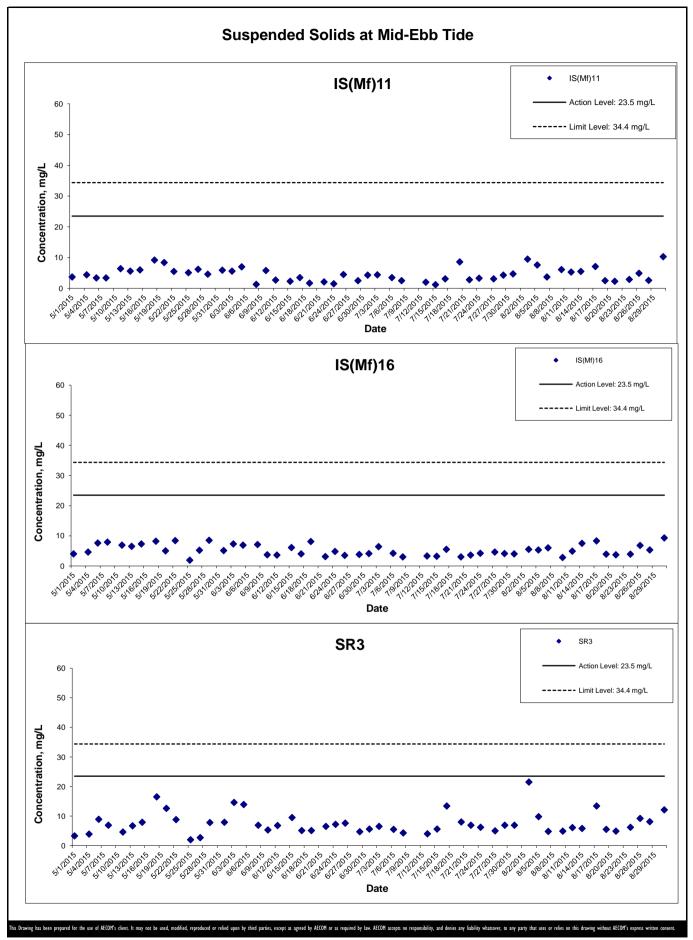
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HONG KONG BOUNDARY CROSSING FACILITIES
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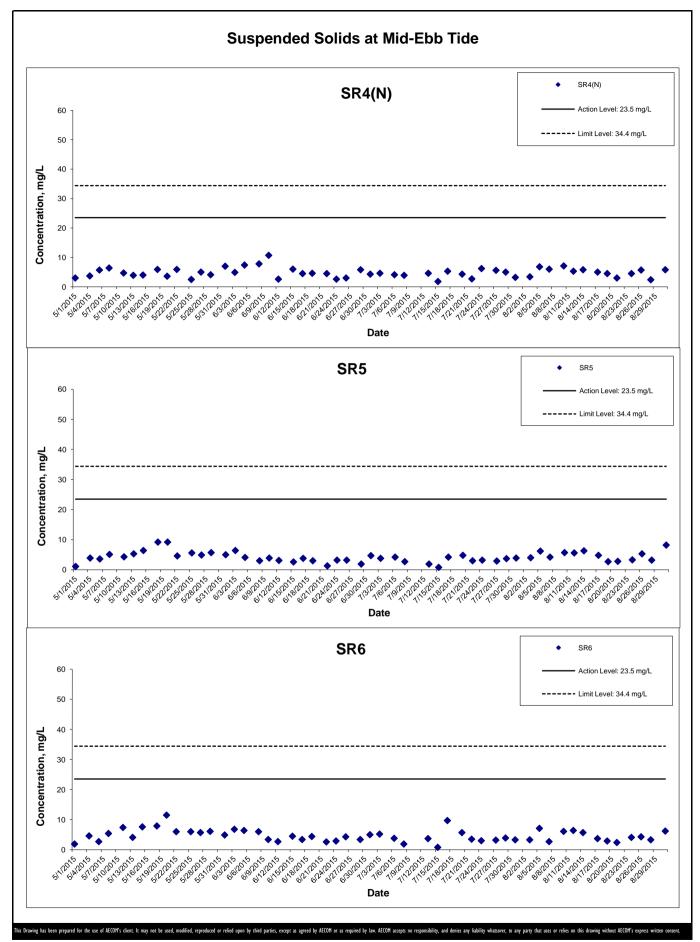
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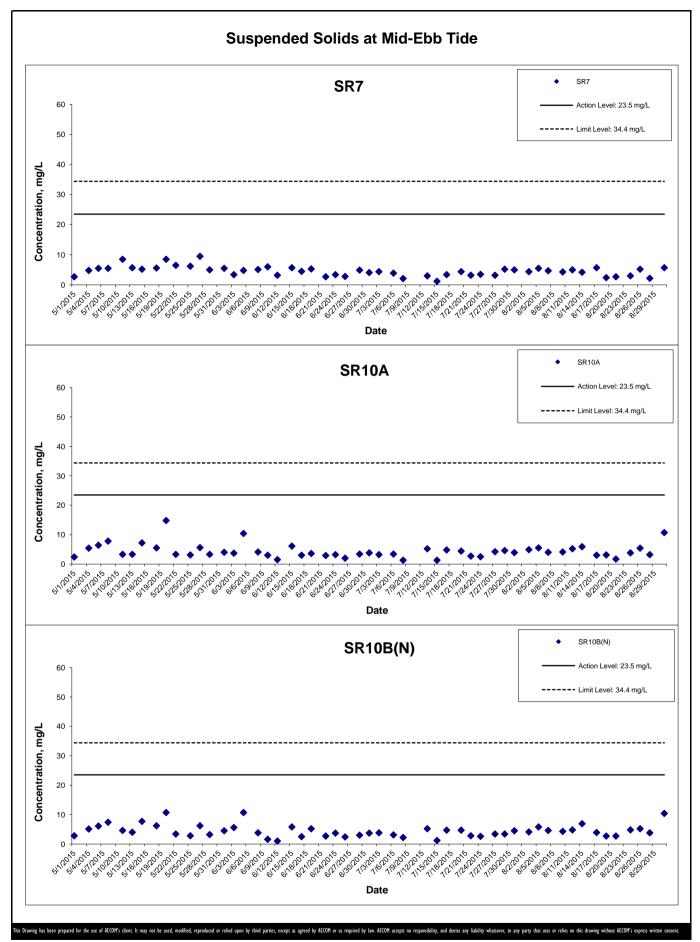
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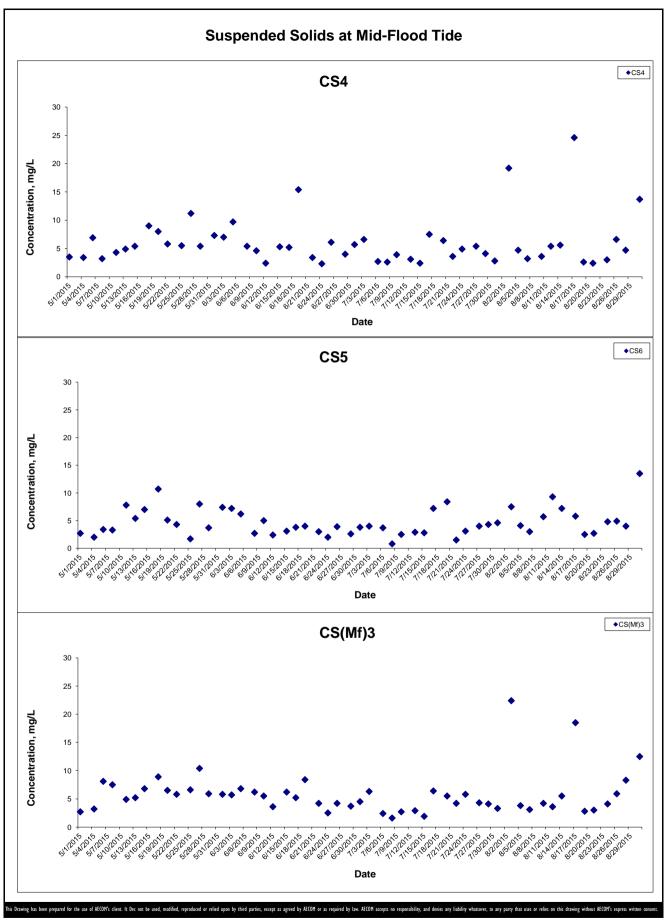
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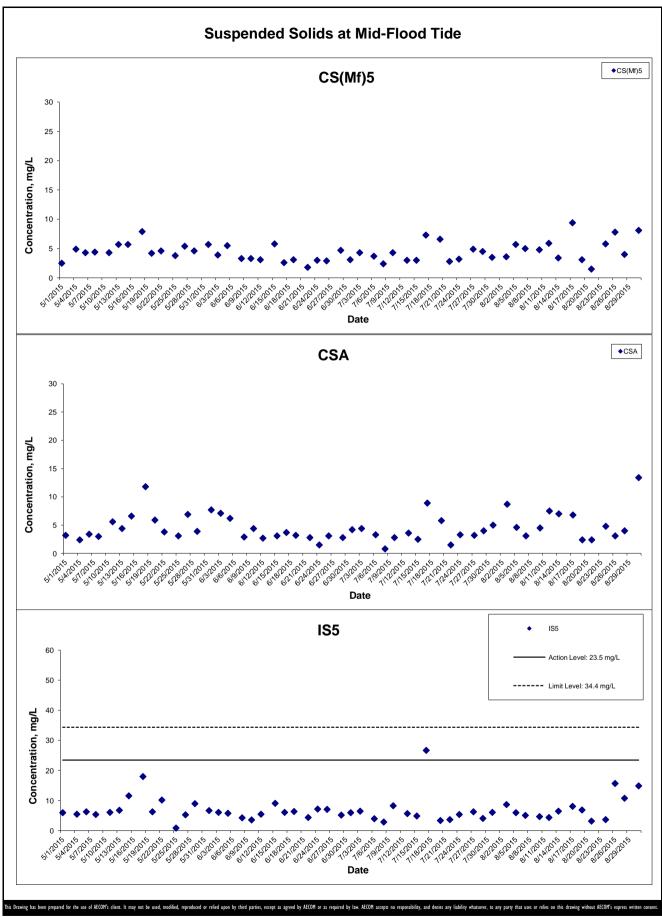
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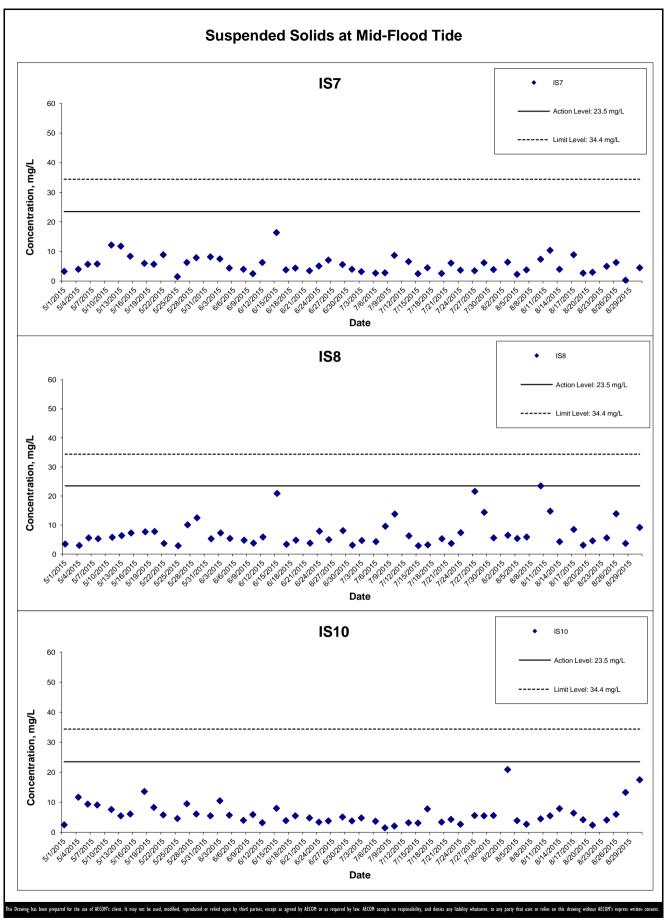
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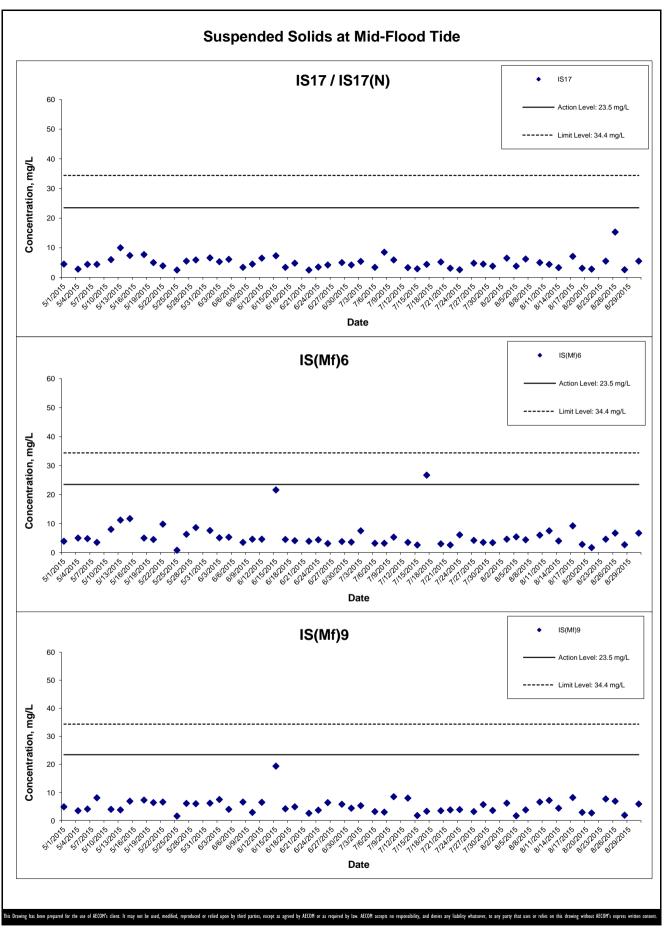
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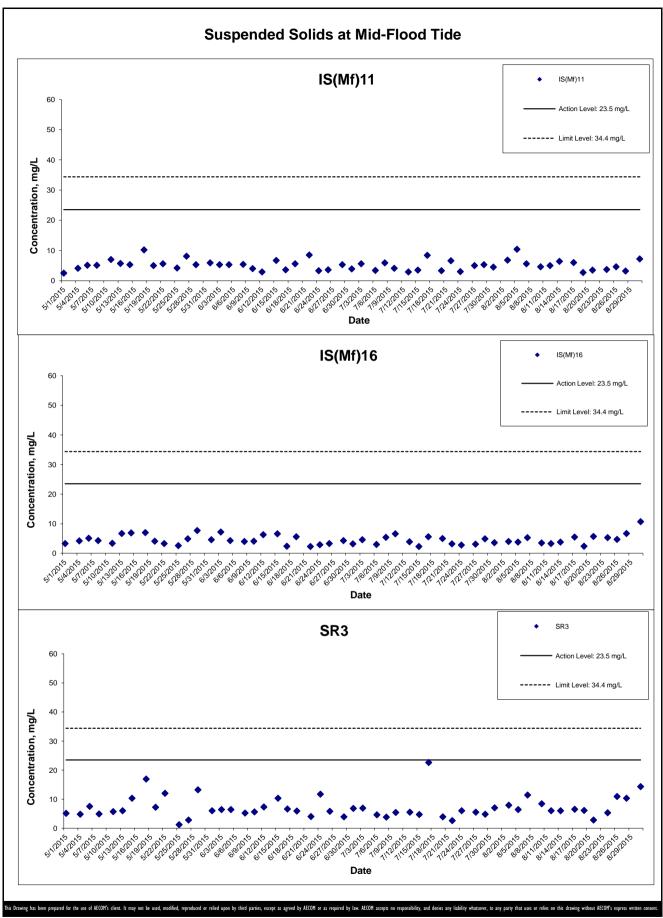
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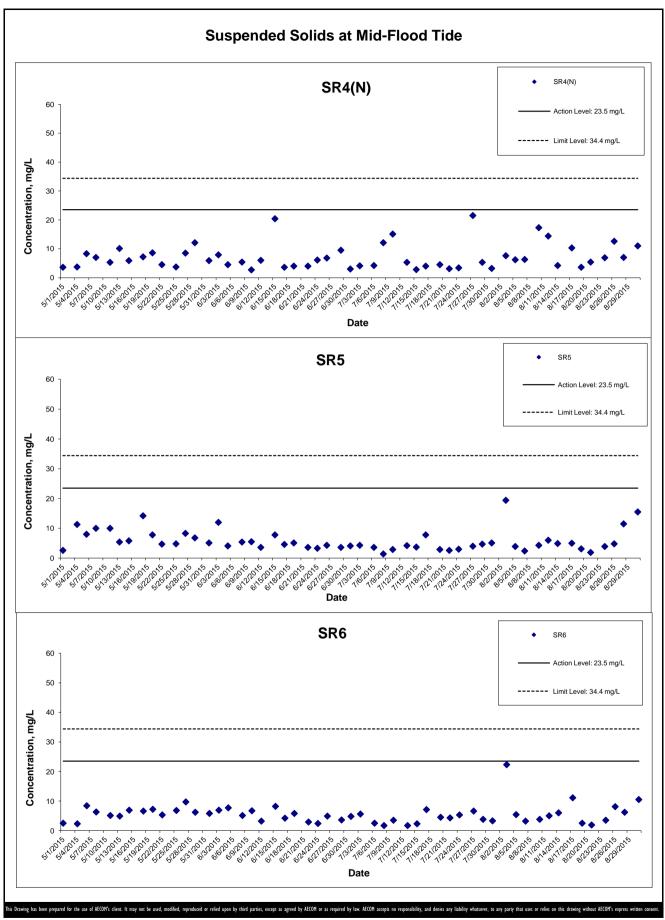
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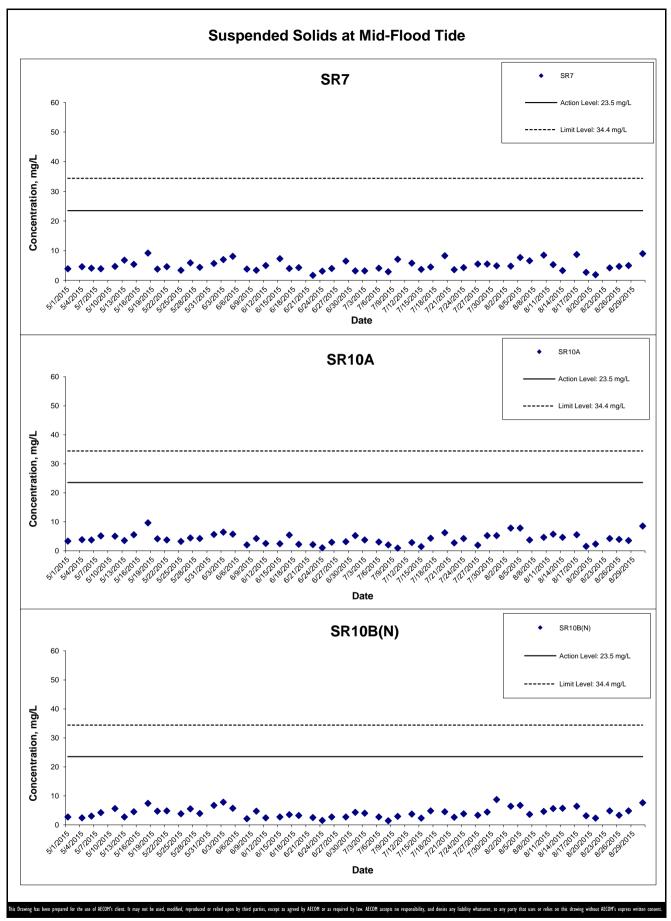
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Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1 Impact Dolphin Monitoring Survey Sighting Table

Project	Contract	Date	Sighting No.	Time	Group Size	Area	Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	10-Aug-15	1130	9:12	1	NWL*	1	N/A	Орр	Impact	813669	803112	Summer	No
HKBCF	HY/2010/02	10-Aug-15	1132	10:13	3	NWL	1	9	On	Impact	822039	804665	Summer	No
HKBCF	HY/2010/02	25-Aug-15	1138	12:43	1	NWL	1	N/A	Орр	Impact	826813	805282	Summer	No
HKBCF	HY/2010/02	25-Aug-15	1139	12:58	3	NWL	1	243	On	Impact	827620	805449	Summer	No
HKBCF	HY/2010/02	25-Aug-15	1140	13:38	3	NWL	1	180	On	Impact	830013	805464	Summer	No

^{*}While surveying NWL sightings were made in adjacent WL and were photographed and recorded

KEY:

Sighting Opp Opportunistic On On effort

PSD Perpendicular Sighting Distance NEL North East Lantau
Group Size Represents best estimate for group encountered NWL North West Lantau

PS = Purse Seine trawler (active)

HT = Hang Trawler (not active but sorting fish and cleaning nets)

Annex I

July 2015 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
HZMB 128		2015/01/03	1056	NWL
HZMB 127		2015/01/03	1056	NWL
HZMB 126		2015/02/23	1068	NWL
FIZIVID 120		2015/01/03	1054	NWL
HZMB 125		2014/10/13	1019	NWL
HZMB 124		2014/09/22	1005	NWL
HZMB 123		2014/08/25	998	NWL
HZMB 122		2014/08/04	989	NWL
HZMB 121		2014/07/14	968	NWL
HZMB 119		2014/04/19	940	NWL
HZMB 118		2014/01/06	890	NWL
117MD 447		2014/06/17	964	NWL
HZMB 117		2014/01/06	888	NWL
HZMB 116		2014/08/25	999	NWL
		2014/07/14	972	NWL
		2014/07/14	971	NWL
HZMB 115		2013/12/26	879	NWL
		2013/12/26	879	NWL
HZMB 114		2013/10/24	827	NWL
HZMB 113		2013/10/24	827	NWL
HZMB 112		2013/10/15	815	NWL
HZMB 111		2013/10/15	815	NWL
HZMB 110		2013/10/15	812	NWL
1171 ID 400		2015/06/11	1118	NWL
HZMB 108		2013/08/30	780	NEL
		2015/07/28	1126	NWL
		2014/10/13	1019	NWL
HZMB 107		2014/05/31	951	NWL
		2013/08/21	770	NWL
HZMB 106		2013/08/21	769	NWL
		2014/05/31	951	NWL
HZMB 105		2013/07/08	711	NWL
HZMB 104		2013/07/08	711	NWL
HZMB 103		2013/07/08	711	NWL
HZMB 102		2013/07/08	706	NWL
HZMB 101		2013/07/08	706	NWL
HZMB 100		2013/07/08	706	NWL
HZMB 099		2013/06/13	681	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2013/06/13	680	NWL
		2015/02/23	1077	NWL
		2014/12/18	1044	NWL
		2014/08/04	992	NWL
		2014/01/06	888	NWL
HZMB 098	NL104	2013/11/02	849	NWL
		2013/11/02	845	NWL
		2013/10/24	831	NWL
		2013/07/08	711	NWL
		2013/05/24	659	NWL
HZMB 097		2013/05/09	647	NWL
HZMB 096		2013/04/01	621	NWL
		2013/08/30	780	NEL
117NAD 005		2013/06/25	697	NWL
HZMB 095		2013/06/13	682	NWL
		2013/04/01	621	NWL
		2014/10/13	1019	NWL
		2014/05/31	954	NWL
117MD 004		2014/02/17	910	NWL
HZMB 094		2013/06/26	703	NWL
		2013/06/25	698	NWL
		2013/03/18	601	NWL
LIZMD 000		2013/05/24	657	NWL
HZMB 093		2013/02/21	587	NWL
		2015/04/20	1097	NWL
HZMB 092		2013/02/21	589	NWL
		2013/02/15	581	NWL
HZMB 091		2013/02/15	579	NWL
		2013/06/25	697	NWL
HZMB 090		2013/06/13	682	NWL
		2013/02/15	579	NWL
HZMB 089		2013/02/15	579	NWL
HZMB 088		2013/02/15	579	NWL
HZMB 087		2013/02/15	579	NWL
		2015/03/19	1086	NWL
HZMB 086	NII 040	2013/05/09	642	NWL
	NL242	2013/02/15	579	NWL
		2011/10/10	Baseline	NWL
LIZMD 005		2014/10/13	1019	NWL
HZMB 085		2014/05/31	954	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2013/06/26	703	NWL
HZMB 084		2013/02/15	579	NWL
		2013/02/14	575	NWL
		2015/05/11	1104	NWL
		2013/12/19	863	NWL
		2013/03/28	607	NWL
HZMB 083	NL136	2013/02/15	579	NWL
		2013/01/28	568	NWL
		2013/01/28	564	NWL
		2012/04/19	267	NWL
		2014/10/20	1024	NWL
117MD 000		2013/02/21	587	NWL
HZMB 082		2013/02/15	579	NWL
		2013/01/28	563	NWL
117MD 004		2013/01/28	559	NWL
HZMB 081		2013/01/28	557	NWL
HZMB 080		2013/01/28	556	NWL
HZMB 079		2013/01/28	556	NWL
		2013/02/15	579	NWL
HZMB 078		2013/01/08	552	NWL
		2013/12/26	878	NWL
HZMB 077		2013/07/08	706	NWL
		2012/12/11	541	NWL
LIZME 070		2013/07/08	706	NWL
HZMB 076		2012/12/11	541	NWL
HZMB 075		2012/12/06	525	NEL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
117MD 074		2013/04/01	621	NWL
HZMB 074		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/12/06	525	NEL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
HZMB 073		2013/04/01	621	NWL
		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/12/06	525	NEL
HZMB 072		2012/10/24	476	NWL
HZMB 071		2012/10/24	475	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2012/10/12	466	NWL
HZMB 070		2012/10/24	476	NWL
		2015/06/04	1116	NWL
LIZMD 060		2013/08/21	774	NWL
HZMB 069		2013/07/08	711	NWL
		2012/10/24	476	NWL
		2014/10/20	1025	NWL
HZMB 068		2013/11/01	839	NWL
		2012/10/24	476	NWL
HZMB 067		2012/10/24	475	NWL
		2013/01/28	559	NWL
LIZMD OCC	NII OO	2012/12/11	537	NWL
HZMB 066	NL93	2012/10/24	475	NWL
		2012/10/12	466	NWL
		2015/03/19	1086	NWL
		2014/06/17	964	NWL
LIZMD OCA		2013/05/09	647	NWL
HZMB 064		2013/01/28	561	NWL
		2012/10/24	475	NWL
		2012/10/12	466	NWL
LIZMD 062		2013/05/09	647	NWL
HZMB 063		2012/10/12	466	NWL
LIZMD 060		2012/12/06	525	NEL
HZMB 062		2012/10/11	457	NWL
HZMB 060		2012/09/18	447	NWL
LIZMD OFO		2013/02/21	591	NWL
HZMB 059		2012/09/18	445	NWL
HZMB 057		2012/09/18	440	NWL
HZMB 056		2012/09/18	442	NWL
FIZIVID 030		2012/09/05	433	NEL
HZMB 055		2012/09/04	425	NWL
		2015/04/20	1097	NWL
		2015/01/15	1062	NWL
		2014/05/31	953	NWL
		2014/01/06	888	NWL
HZMB 054	CH34	2013/11/07	854	NWL
		2013/11/02	845	NWL
		2013/10/24	831	NWL
		2013/08/30	780	NEL
		2013/07/08	711	NWL

Identification Number			Sighting Number	Area Sighted
		2013/09/18	448	NWL
		2012/09/05	432	NEL
		2011/11/07	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL
		2011/11/01	Baseline	NEL
		2011/10/28	Baseline	NWL
		2011/10/06	Baseline	NWL
HZMB 053		2012/09/04	425	NWL
HZMB 052		2012/09/04	423	NWL
		2015/05/11	1104	NWL
		2014/08/04	989	NWL
		2013/05/09	644	NWL
		2013/04/01	622	NWL
HZMB 051	NL213	2013/02/15	582	NWL
		2013/02/15	581	NWL
		2013/01/28	559	NWL
		2013/01/28	556	NWL
		2012/09/04	422	NWL
		2014/07/14	971	NWL
		2014/01/10	900	NWL
HZMB 050		2014/01/06	888	NWL
		2013/02/15	579	NWL
		2012/09/04	421	NWL
1.171.4D 0.40		2014/07/29	982	NWL
HZMB 049		2012/09/03	419	NWL
HZMB 048		2012/09/03	419	NWL
117MD 047		2015/04/28	1100	NWL
HZMB 047		2012/09/03	412	NWL
HZMB 046		2012/09/03	412	NWL
		2014/02/17	910	NWL
		2013/06/13	682	NWL
HZMB 045		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2014/10/13	1019	NWL
		2014/02/17	910	NWL
HZMB 044	NL98	2013/12/19	864	NWL
		2013/11/02	845	NWL
		2013/11/01	842	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2013/10/15	819	NWL
		2013/05/09	648	NWL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
		2013/04/01	621	NWL
		2013/02/15	579	NWL
		2012/11/01	495	NWL
HZMB 043		2012/09/03	407	NWL
		2013/12/19	863	NWL
HZMB 042	NL260	2012/11/01	495	NWL
		2011/11/07	Baseline	NWL
		2014/06/05	960	NEL
		2014/02/17	910	NWL
		2013/11/02	845	NWL
		2013/05/09	648	NWL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
HZMB 041	NL24	2013/04/01	621	NWL
		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2011/11/06	Baseline	NEL
		2011/11/05	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/10/10	Baseline	NWL
		2014/02/17	910	NWL
		2014/01/06	893	NWL
		2013/10/15	821	NWL
HZMB 040		2013/07/08	714	NWL
		2013/07/08	711	NWL
		2013/02/21	589	NWL
		2012/11/01	493	NWL
HZMB 038		2012/11/01	490	NWL
HZMB 037		2012/11/01	490	NWL
LIZMD CCC		2012/09/03	407	NWL
HZMB 036		2012/11/01	490	NWL
LIZMD 005		2013/02/15	579	NWL
HZMB 035		2012/11/01	490	NWL
HZMB 034		2012/11/01	493	NWL
LIZME OOG		2014/11/17	1035	NWL
HZMB 028		2013/04/01	625	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2012/08/06	373	NWL
		2013/12/19	863	NWL
		2013/02/15	579	NWL
HZMB 027		2013/01/28	568	NWL
		2013/01/28	564	NWL
		2012/06/14	299	NWL
		2014/10/13	1018	NWL
		2013/06/25	697	NWL
HZMB 026		2013/05/09	642	NWL
		2013/01/28	561	NWL
		2012/06/13	295	NEL
		2013/02/22	596	NEL
		2013/02/21	591	NWL
HZMB 025		2012/12/06	525	NEL
		2012/10/11	457	NWL
		2012/06/13	295	NEL
117MD 004		2013/03/18	601	NWL
HZMB 024		2012/06/13	295	NEL
		2015/04/20	1097	NWL
		2014/12/18	1044	NWL
		2014/11/17	1035	NWL
		2014/01/06	888	NWL
LITAE 000		2013/07/08	715	NWL
HZMB 023		2013/07/08	711	NWL
		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
		2015/04/20	1097	NWL
		2014/12/18	1044	NWL
		2014/11/17	1035	NWL
		2014/08/04	991	NWL
		2014/01/06	888	NWL
LIZMD 000		2013/10/24	827	NWL
HZMB 022		2013/07/08	715	NWL
		2013/07/08	711	NWL
		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
LIZMD 004	NII 07	2012/07/10	330	NWL
HZMB 021	NL37	2011/09/16	Baseline	NWL
HZMB 020		2012/07/10	330	NWL
HZMB 019		2012/07/10	330	NWL
		2014/02/17	910	NWL
		2013/05/09	647	NWL
HZMB 018		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/07/10	330	NWL
HZMB 017		2012/07/10	330	NWL
		2013/07/08	706	NWL
		2012/12/11	539	NWL
HZMB 016		2012/09/18	446	NWL
		2012/09/04	421	NWL
		2012/07/10	330	NWL
HZMB 015		2012/07/10	330	NEL
		2013/12/26	880	NWL
		2012/08/06	373	NWL
LIZMD 044	NII 470	2012/06/13	295	NEL
HZMB 014	NL176	2011/11/06	Baseline	NEL
		2011/11/01	Baseline	NEL
		2011/11/01	Baseline	NEL
HZMB 013		2012/05/28	281	NWL
HZMB 012		2012/05/28	281	NWL
		2013/02/22	597	NEL
		2013/02/21	592	NEL
		2013/02/14	572	NEL
LIZMD 044	FI 04	2012/11/06	517	NEL
HZMB 011	EL01	2012/09/19	452	NWL
		2012/03/31	261	NEL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL
HZMB 009		2015/03/19	1084	NWL
		2012/05/28	281	NWL
LIZMD 000		2015/07/06	1122	NWL
HZMB 008		2012/05/28	281	NWL
HZMB 007	NL246	2012/12/10	529	NEL
		2013/02/21	594	NEL
HZMB 006		2012/12/11	539	NWL
		2012/11/01	495	NWL

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
		2012/03/29	250	NWL
		2015/02/09	1070	NWL
		2015/02/09	1069	NWL
		2013/11/09	860	NWL
LIZMD OOF		2013/11/07	858	NWL
HZMB 005		2013/10/15	813	NWL
		2012/12/10	532	NWL
		2012/08/06	374	NWL
		2012/05/28	287	NWL
		2015/07/28	1126	NWL
HZMB 004		2012/09/04	421	NWL
		2012/03/31	262	NWL
		2013/10/15	812	NWL
		2013/06/25	697	NWL
1.171.4D 000	NII 470	2012/12/10	529	NEL
HZMB 003	NL179	2012/03/31	261	NWL
		2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL
		2014/05/31	951	NWL
		2013/12/26	878	NWL
		2013/12/19	863	NWL
		2013/11/01	839	NWL
		2013/10/15	819	NWL
		2013/09/24	798	NWL
HZMB 002	WL111	2013/02/14	573	NWL
		2012/12/11	536	NWL
		2012/12/11	535	NWL
		2012/10/12	466	NWL
		2012/10/24	475	NWL
		2012/05/28	281	NWL
		2012/03/29	250	NWL
		2014/08/25	997	NWL
		2013/08/21	771	NWL
HZMD 004	WI 46	2013/06/13	681	NWL
HZMB 001	WL46	2013/04/01	617	NWL
		2013/02/14	573	NWL
		2012/03/29	250	NWL
	CH98	2011/11/02	Baseline	NWL
	NII 44	2011/11/02	Baseline	NWL
	NL11	2011/11/07	Baseline	NWL

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2015

Identification Number	Baseline Identification Number	Date (YYYY-MM-DD)	Sighting Number	Area Sighted
	NL12	2011/11/02	Baseline	NWL
	NL33	2011/09/23	Baseline	NWL
		2011/11/01	Baseline	NEL
		2011/11/05	Baseline	NWL
		2011/11/07	Baseline	NWL
	NL37	2011/09/16	Baseline	NWL
	NL46	2011/10/28	Baseline	NWL



Appendix L – Event Action Plan

Event / Action Plan for Air Quality

Event	Action							
	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.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.				

Event	Action							
	ET 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. 	Contractor on possible	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. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	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 in situ 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 in situ 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			
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	Action					
	ET Leader	IEC	ER	Contractor		
or more consecutive sampling days	 Repeat in-situ 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	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the	 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

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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China Harbour Engineering Company Limited

Monthly Summary Waste Flow Table for <u>August / 2015 (year)</u>

Project: Hong Kong – Zhuhai – Macao Bridge, Hong Kong Boundary Crossing Facilities – Reclamation Works

Contract No.: HY/2010/02

110,000.11	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
		Actual Quantiti	es of there C&D is	Materials Genera	ated Monthly		Actual Qualitities 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	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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan-15	0.0000	0.0000	0.0000	0.0000	0.0000	1774.7845	0.0000	0.4200	4.0000	2.4000	0.0455
Feb-15	0.0000	0.0000	0.0000	0.0000	0.0000	1120.6675	0.0000	0.1400	0.0000	0.0000	0.0390
Mar-15	0.0000	0.0000	0.0000	0.0000	0.0000	390.8735	0.0040	0.3340	0.0020	0.0000	0.0390
Apr-15	0.0000	0.0000	0.0000	0.0000	0.0000	251.3183	0.0000	0.1400	0.0000	0.0000	0.0390
May-15	0.0000	0.0000	0.0000	0.0000	0.0000	778.9842	0.0000	0.1960	0.0000	0.0000	0.0260
Jun-15	0.0000	0.0000	0.0000	0.0000	0.0000	400.6428	0.0000	0.1680	0.0000	0.0000	0.0520
Sub-total	0.0000	0.0000	0.0000	0.0000	0.0000	4717.2709	0.0040	1.3980	4.0020	2.4000	0.2405
Jul-15	0.0000	0.0000	0.0000	0.0000	0.0000	60.7108	0.0150	0.4750	0.0020	0.0000	0.0585
Aug-15	0.0000	0.0000	0.0000	0.0000	0.0000	60.6718	0.0000	0.3360	5.1200	0.0000	0.0585
Sep-15											
Oct-15											
Nov-15											
Dec-15											
Total	0.0000	0.0000	0.0000	0.0000	0.0000	4838.6536	0.0190	2.2090	9.1240	2.4000	0.3575

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
- (3) Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m³ by volume.
- (4) Chemical waste refer to spent "battery" and "oil with water".

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 Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no.	Total no.
				received	received since
				in this	project
				month	commencement
Environmental					
complaints	-	-	-	-	33
Notification of summons	-	-	-	-	2
Successful Prosecutions	-	-	-	-	2