

**Contract No. HY/2012/08
Tuen Mun - Chek Lap Kok Link -
Northern Connection Sub-sea Tunnel
Section**

***Seventy-seventh Monthly Environmental
Monitoring & Audit (EM&A) Report***

16 April 2020

Environmental Resources Management
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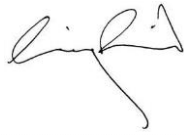
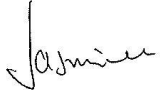



Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

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*Seventy-seventh Monthly Environmental Monitoring & Audit
(EM&A) Report*

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Client: DBJV		Project No: 0212330			
Summary: This document presents the Seventy-seventh Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section.		Date: 16 April 2020			
		Approved by: 			
		<i>Mr Craig Reid Partner</i>			
		Certified by: 			
		<i>Dr Jasmine Ng ET Leader</i>			
	77 th Monthly EM&A Report	VAR	JN	CAR	16/04/20
Revision	Description	By	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		Distribution			
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Ref.: HYDHZMBEEM00_0_7983L.20

16 April 2020

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd.
Supervising Officer Representative's Office
No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. Roger Man

Dear Mr. Man,

**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**

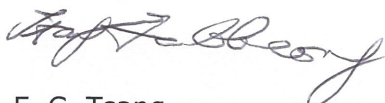
**Contract No. HY/2012/08
TM-CLKL – Northern Connection Sub-sea Tunnel Section
77th Monthly EM&A Report for March 2020 (EP-354/2009/D)**

Reference is made to the Monthly EM&A Report for March 2020 (ET's ref.: "0212330_77th Monthly EM&A_20200416.doc") certified by the ET Leader and provided to us via e-mail on 16 April 2020.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,



F. C. Tsang
Independent Environmental Checker
Tuen Mun – Chek Lap Kok Link

c.c.

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Cheng Pan	(By Fax: 3188 6614)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)
DBJV	Mr. Bryan Lee	(By Fax: 2293 7499)

Internal: DY, YH, ENPO Site

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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed in 2020. The impact monitoring of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

This is the Seventy-seventh Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 March 2020 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the “Contract”) in accordance with the Updated EM&A Manual of the TM-CLK Link Contract. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Road & Drainage works – Portion S-A, S-B & S-C and Northern Landfall;
- Fireboard installation –Tunnel;
- UU installation - Portion S-A, S-B & S-C and Northern Landfall.

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

24-hour TSP Monitoring	10 sessions
1-hour TSP Monitoring	10 sessions
Impact Dolphin Monitoring	2 sessions
Post-Construction Water Quality Monitoring	7 sessions
Joint Environmental Site Inspection	4 sessions

Implementation of Marine Mammal Exclusion Zone

No marine works were undertaken during the reporting period, therefore, daily 250 m marine mammal exclusion zone monitoring was not undertaken during the reporting period.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

One (1) Action Level exceedance of 1-hour TSP Monitoring was recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

Breaches of Action and Limit Levels for Dolphin Monitoring

Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected in relation to the construction activities of this Contract in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Reporting Change

There was no reporting change in the reporting period.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of April 2020 include the following:

Land-based Works

- Road & Drainage works - Portion S-A, S-B & S-C and Northern Landfall;
- Fireboard installation -Tunnel;
- UU installation - Portion S-A, S-B & S-C and Northern Landfall.

Future Key Issue

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of April 2020 are mainly associated with dust, marine ecology and waste management issues.

1.1**BACKGROUND**

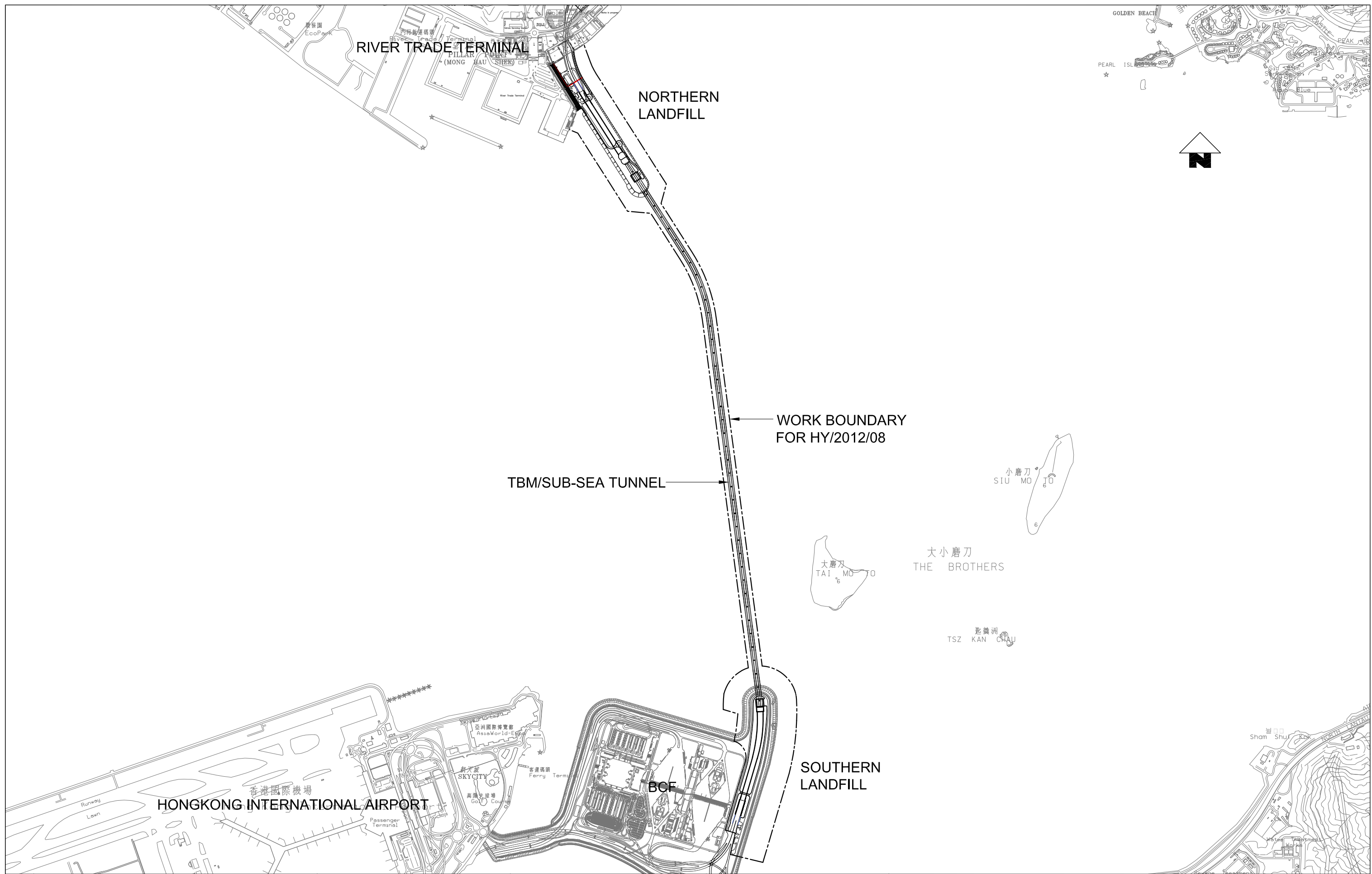
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), EP-354/2009/B, EP-354/2009/C and EP-354/2009/D, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

Layout of the Contract components is presented in *Figure 1.1*.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed in 2020. The impact monitoring phase of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.



Designed By	PKV		
Drawn By	DAI		
Approved By	SPo		
Date	11SEP2013	PKV	
Rev.	Description	Date	Checked
A	FIRST ISSUE	11SEP13	PKV

Main Contractor

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Client

路政署
HIGHWAYS DEPARTMENT

Contractor's Designer

Arup Ove Arup & Partners
Hong Kong Limited

Project

Contract No. HY/2012/08
Tuen Mun - Chek Lap Kok Link -
Northern Connection Sub-Sea Tunnel Section

Drawing Title

Figure 1.1

Drawing no.	TMCLKL8-DBJ-GEN-DWG-00174
Scale	1:25000 @ A3
CADD Ref.	TMCLKL8-DBJ-GEN-DWG-00174-DFT-A
Issue Status	DFT (DRAFT)
Revision	A

1.2 SCOPE OF REPORT

This is the Seventy-seventh Monthly EM&A Report under the *Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section*. This report presents a summary of the environmental monitoring and audit works in March 2020.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Table 1.1 *Contact Information of Key Personnel*

Party	Position	Name	Telephone	Fax
Highways Department	Engr 24/SD	Ken T.M. Cheng	2762 4062	3188 6614
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Roger Man	2293 6388	2293 6300
ENPO / IEC (Ramboll Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Dragages – Bouygues Joint Venture)	Deputy Environmental Manager	Bryan Lee	2293 7323	2293 7499
	24-hour hotline		2293 7330	
ET (ERM-HK)	ET Leader	Jasmine Ng	2271 3311	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of this Contract was commenced on 1 November 2013. The construction programme is shown in *Appendix B*.

As per DBJV's information, details of major construction works carried out in this reporting period are summarized in *Table 1.2*.

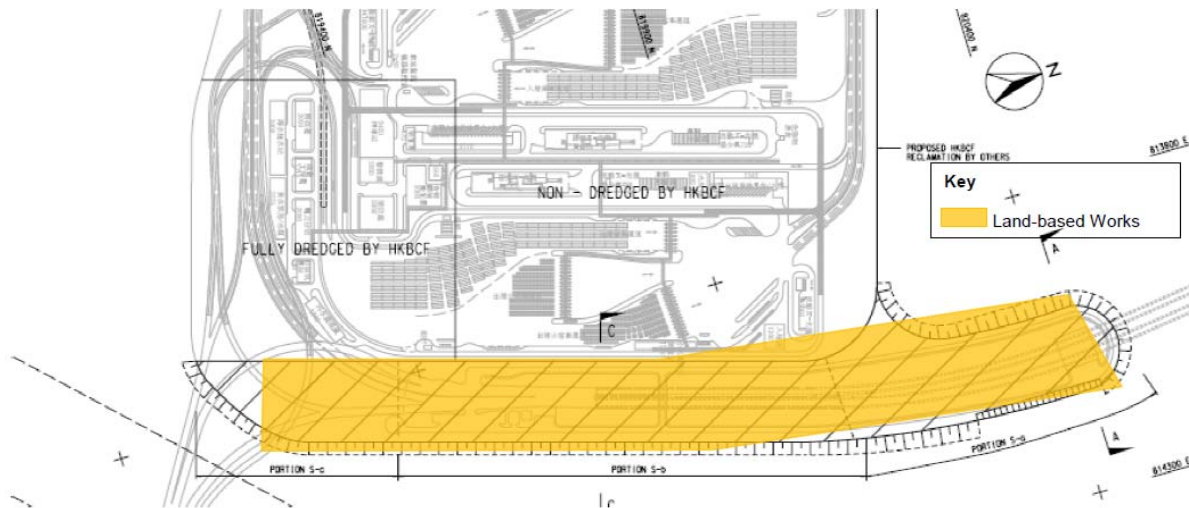
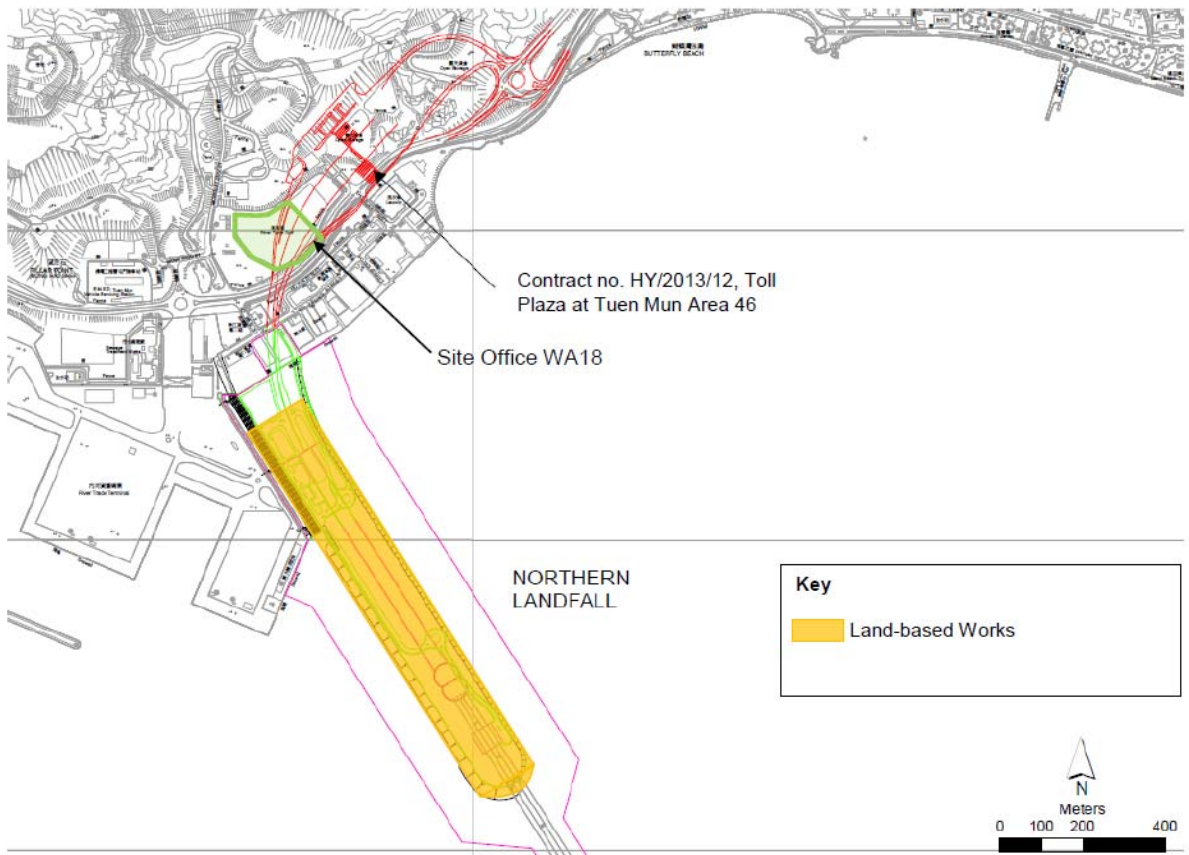
The general layout plan of the site showing the detailed works areas is shown in *Figure 1.2*. The Environmental Sensitive Receivers in the vicinity of the Contract are shown in *Figure 1.3*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

Table 1.2 Summary of Construction Activities Undertaken during the Reporting Period

Construction Activities Undertaken
<i>Land-based Works</i>
<ul style="list-style-type: none"> • Road & Drainage works - Portion S-A, S-B & S-C and Northern Landfall; • Fireboard installation - Tunnel; • UU installation - Portion S-A, S-B & S-C and Northern Landfall.

Figure 1.2 Locations of Construction Activities - March 2020



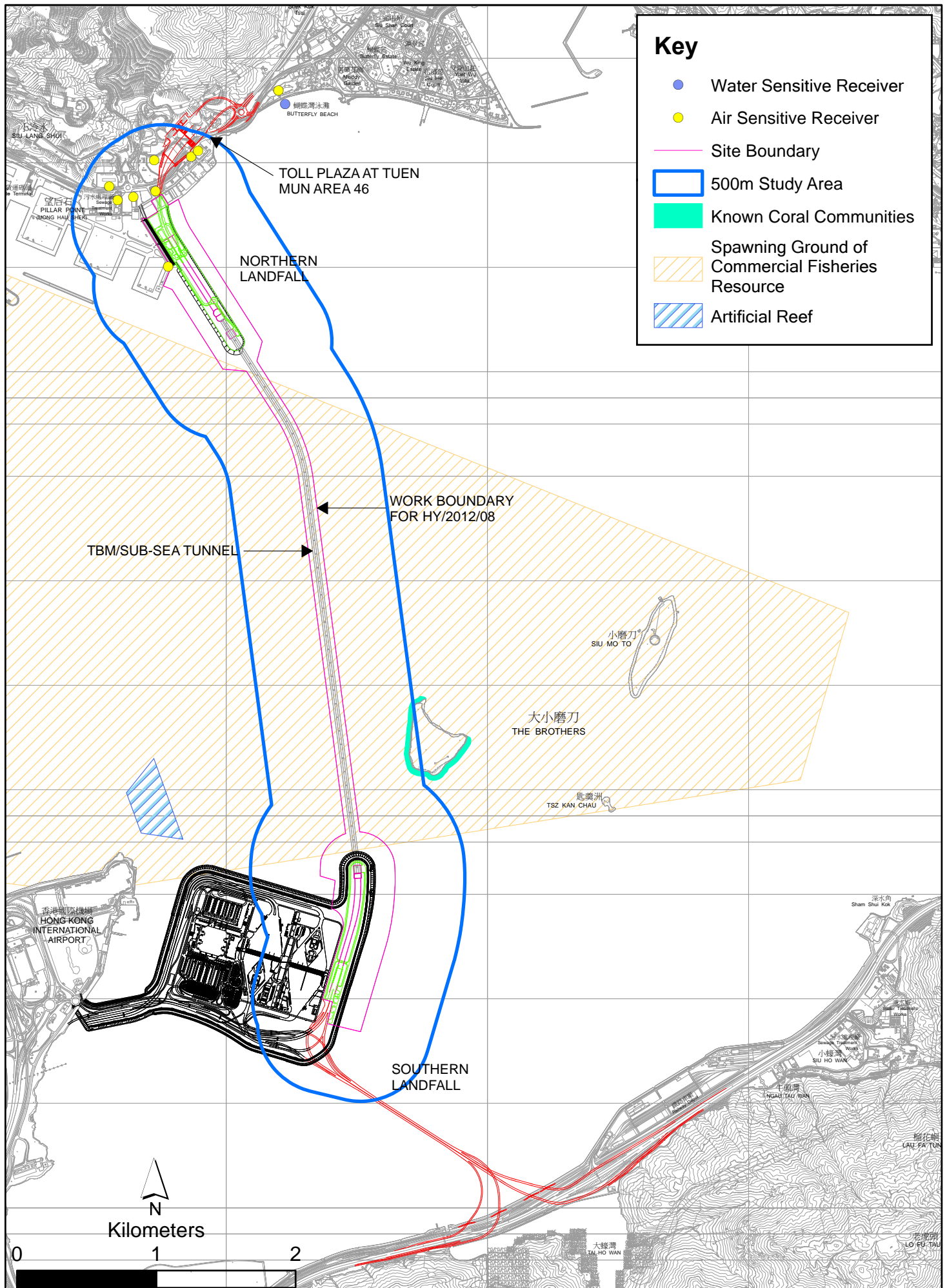


Figure 1.3 Environmental Sensitive Receivers in the vicinity of Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-Sea Tunnel Section

The EM&A programme required environmental monitoring for air quality, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24-hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft commenced on 24 October 2014.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 3, 6, 9, 12, 15, 18, 21, 24, 27 and 30 March 2020 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1; Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.1 *Locations of Impact Air Quality Monitoring Stations and Monitoring Dates in this Reporting Period*

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	3, 6, 9, 12, 15, 18, 21, 24, 27 and 30 March 2020	Tuen Mun	Office	TSP monitoring
		Fireboat Station		
ASR5		Pillar Point Fire Station	Office	<ul style="list-style-type: none"> 1-hour Total Suspended Particulates (1-hour TSP, $\mu\text{g}/\text{m}^3$), 3 times in every 6 days 24-hour Total Suspended Particulates (24-hour TSP, $\mu\text{g}/\text{m}^3$), daily for 24-hour in every 6 days
AQMS1		Previous River Trade Golf	Bare ground	Enhanced TSP monitoring (commenced on 24 October 2014)
ASR6		Butterfly Beach Laundry	Office	<ul style="list-style-type: none"> 1-hour Total Suspended Particulates (1-hour TSP, $\mu\text{g}/\text{m}^3$), 3 times in every 3 days
ASR10		Butterfly Beach Park	Recreational uses	<ul style="list-style-type: none"> 24-hour Total Suspended Particulates (24-hour TSP, $\mu\text{g}/\text{m}^3$), daily for 24-hour in every 3 days

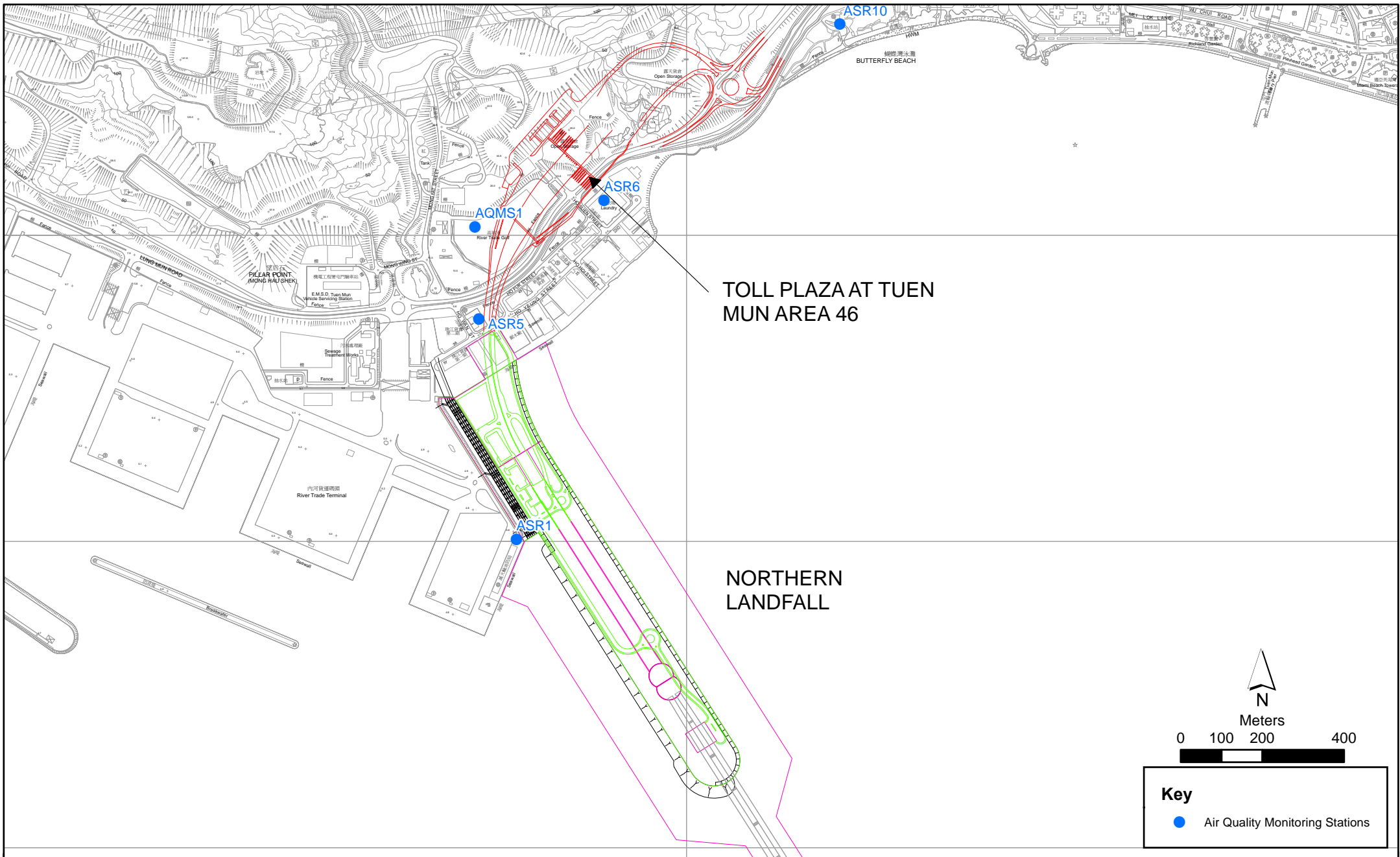


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

Table 2.2 Air Quality Monitoring Equipment

Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Meter	Davis (Model: Vantage Pro 2 (S/N: AS160104014)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

2.1.2 Action & Limit Levels

The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in March 2020 is provided in *Appendix F*.

2.1.4 Results and Observations

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and *2.4*, respectively. Detailed impact air quality monitoring results and graphical presentations are presented in *Appendix G*.

Table 2.3 Summary of 1-hour TSP Monitoring Results in this Reporting Period

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	143	48 - 280	331	500
ASR5	183	39 - 356	340	500
AQMS1	124	38 - 225	335	500
ASR6	100	47 - 230	338	500
ASR10	79	19 - 142	337	500

Table 2.4 Summary of 24-hour TSP Monitoring Results in this Reporting Period

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	100	40 - 153	213	260
ASR5	99	68 - 118	238	260
AQMS1	62	42 - 78	213	260
ASR6	63	48 - 85	238	260
ASR10	53	34 - 85	214	260

The weather condition during the monitoring period varied from sunny to cloudy. The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

A total of 10 1-hour TSP and 24-hour TSP monitoring were undertaken in this reporting month. One (1) Action Level exceedance of 1-hour TSP Monitoring

was recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

2.2 WATER QUALITY MONITORING

2.2.1 Monitoring Requirements & Equipment

According to the Updated EM&A Manual, a post-construction water quality monitoring shall be carried out upon completion of all marine-based construction activities. Post-construction water quality monitoring was undertaken three days per week for at least 4 weeks in accordance with the Updated EM&A Manual. The proposal for post-construction water quality monitoring was approved by EPD on 5 March 2020. The post construction water quality monitoring commenced on 17 March 2020. Locations of water quality monitoring stations presented in *Figure 2.2* and *Figure 2.3* and in *Table 2.5*.

Table 2.5 *Locations of Post-Construction Water Quality Monitoring Stations and the Corresponding Monitoring Requirements*

Station ID	Type	Coordinates		*Parameters, unit	Depth	Frequency
		Easting	Northing			
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716	<ul style="list-style-type: none"> • Temperature(°C) • pH(pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) 	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.	Impact monitoring: 3 days per week, at mid-flood and mid-ebb tides during the construction period of the Contract.
IS17	Impact Station (Close to HKBCF construction site)	814539	820391	<ul style="list-style-type: none"> • DO (mg/L and % of saturation) • SS (mg/L) 	surface, mid-depth and 1m above sea bed.	
SR7	Sensitive receivers (Tai Mo Do)	814293	821431		If the water depth is less than 3m, mid-depth sampling only. If water depth less than 6m, mid-depth may be omitted.	

Station ID	Type	Coordinates		*Parameters, unit	Depth	Frequency
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850			
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497			
IS8(N)	Impact Station (Close to HKBCF construction site)	814413	818570			
SR4(N2)	Sensitive receiver (Tai Ho Inlet)	814688	817996			
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3(N)	Control Station	808814	822355			
CS(Mf)5	Control Station	817990	821129			
IS12	Impact Station (Close to TMCLKL construction site)	813218	823681			
IS13	Impact Station (Close to TMCLKL construction site)	813667	824325			
IS14	Impact Station (Close to TMCLK construction site)	812592	824172			
IS15	Impact Station (Close to TMCLK construction site)	813356	825008			
SR8	Sensitive receiver (Gazettal beaches in Tuen Mun)	816306	825715			
SR9	Sensitive receiver (Butterfly Beach)	813601	825858			
SR10A(N)	Sensitive receiver (Ma Wan FCZ)	823644	823484			
CS4	Control Station	810025	824004			

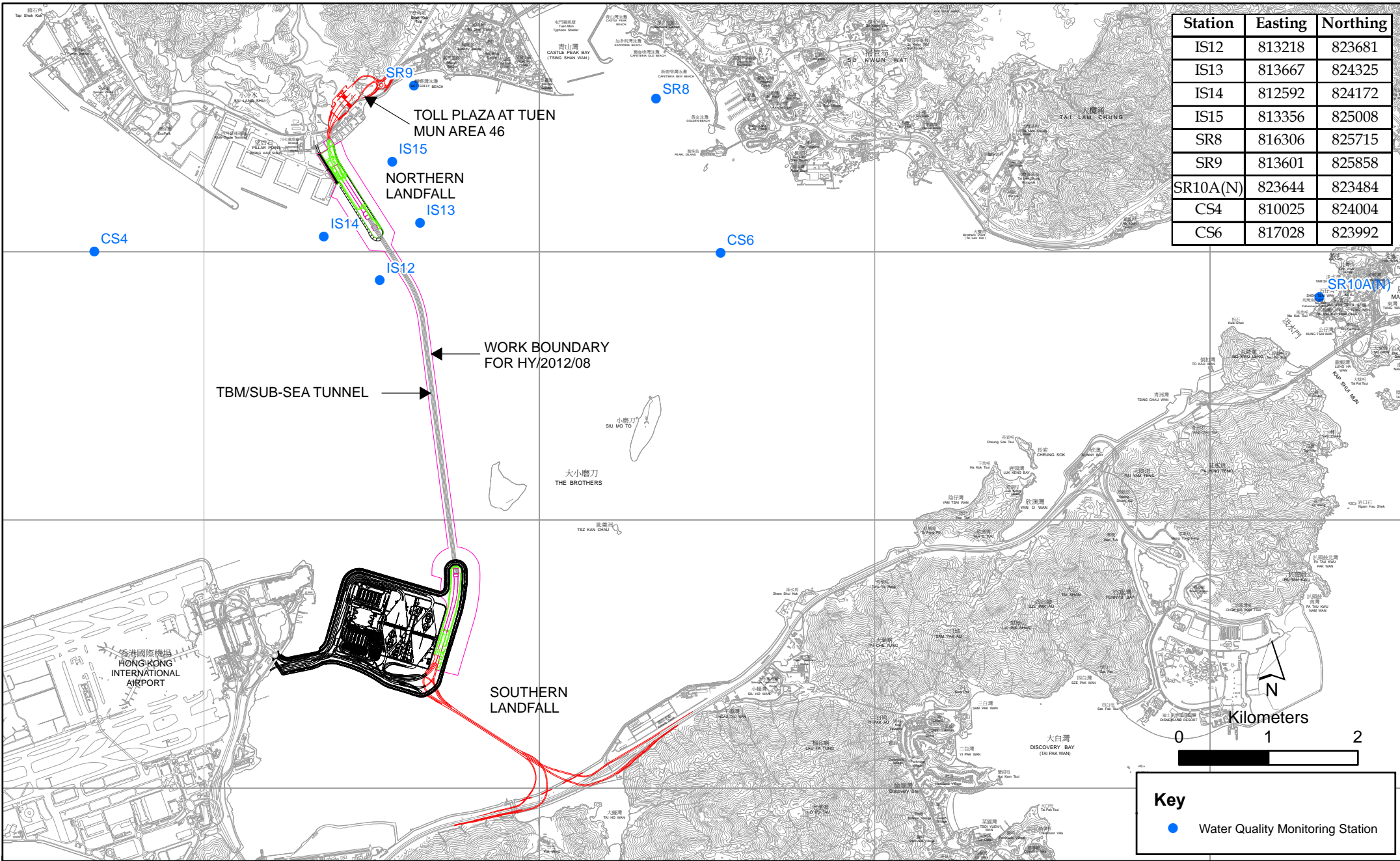


Figure 2.2

Water Quality Monitoring Station

Key

- Water Quality Monitoring Station

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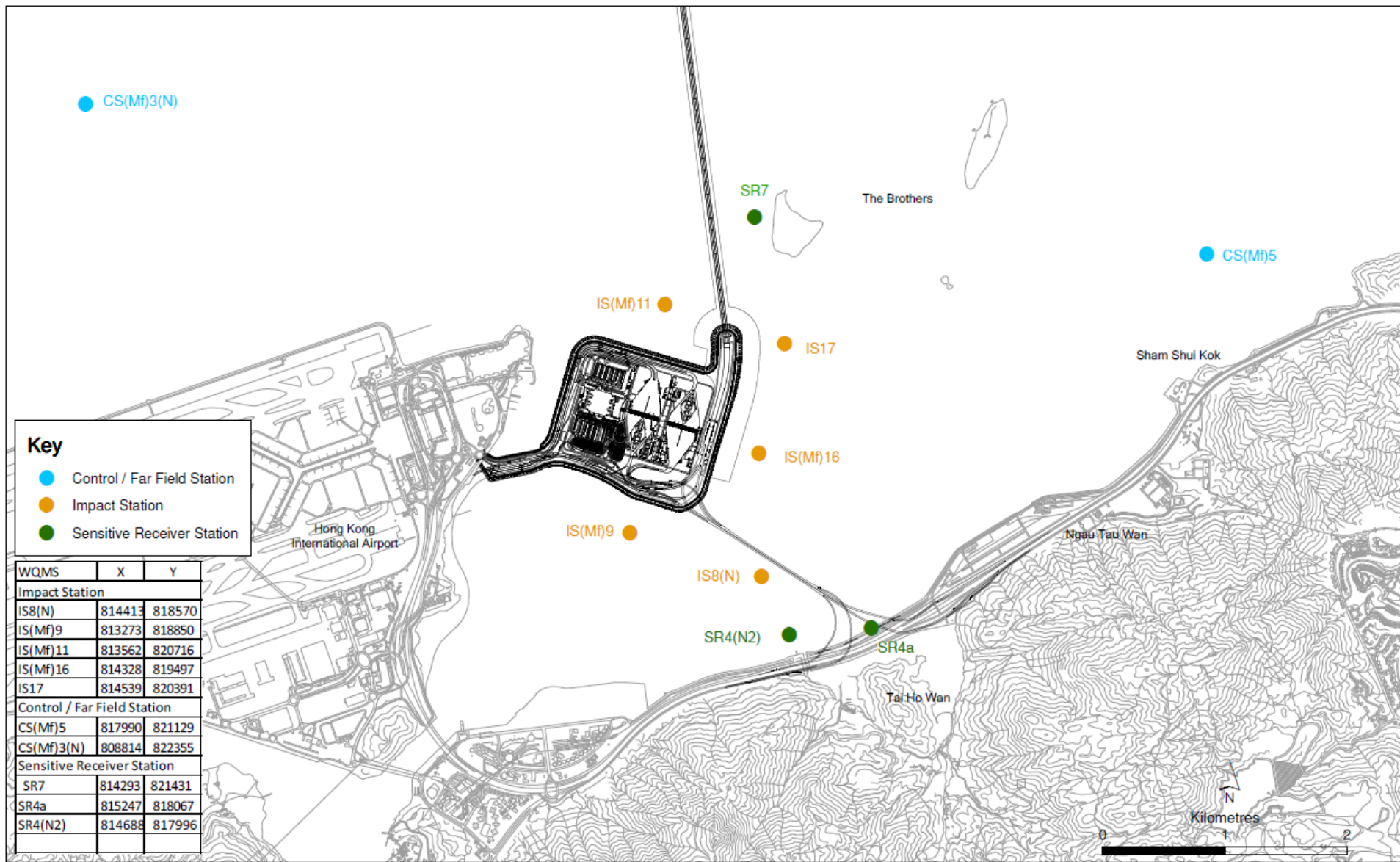


Figure 2.3

Water Quality Monitoring Stations

Station ID	Type	Coordinates		*Parameters, unit	Depth	Frequency
CS6	Control Station	817028	823992			

*Notes:
 In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded. Water Quality Monitoring Station CS(Mf)3 was relocated to CS(Mf)3(N) since 2 May 2017.
 Water Quality Monitoring Station SR4 was relocated to SR4(N) since 2 March 2018.
 Water Quality Monitoring Station SR4(N) was relocated to SR4(N2) since 12 June 2019.
 Water Quality Monitoring Station IS8 was relocated to IS8(N) since 12 June 2019.
 Water Quality Monitoring Station SR10A was relocated to SR10A(N) since 5 March 2020.

Table 2.6 summarizes the equipment used in the post-construction water quality monitoring programme. Copies of the calibration certificates are attached in Appendix E.

Table 2.6 Water Quality Monitoring Equipment

Equipment	Model
Multi-Parameters	YSI ProDss 00019CB2
Multi-Parameters	YSI ProDss 0001C6A7
Multi-Parameters	YSI ProDss 16H104234
Multi-Parameters	YSI ProDss 17H105557
Multi-Parameters	YSI ProDss 17E100747
Multi-Parameters	YSI ProDss 18A104824
Positioning Equipment	Furuno GP-170
Water Depth Detector	Lowrance Mark 5x / Garmin Striker 4

2.2.2 Monitoring Schedule for the Reporting Month

The schedule for post-construction water quality monitoring in March 2020 is provided in Appendix F.

2.2.3 Results and Observations

In total of 7 monitoring events for post-construction water quality monitoring were conducted at all designated monitoring stations in the reporting month. Post-construction water quality monitoring results and graphical presentations are provided in Appendix J.

2.3 DOLPHIN MONITORING

2.3.1 Monitoring Requirements

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, Contract No. HY/2012/08 has taken over the responsibility for implementation of dolphin monitoring from HZMB HKLR Contract No. HY/2011/03 since October 2019.

2.3.2 Monitoring Equipment

Table 2.7 summarises the equipment used for the impact dolphin monitoring.

Table 2.7 *Dolphin Monitoring Equipment*

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

2.3.3 *Monitoring Parameter, Frequencies & Duration*

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

2.3.4 *Monitoring Location*

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.4*. The co-ordinates of all transect lines are shown in *Table 2.8* below.

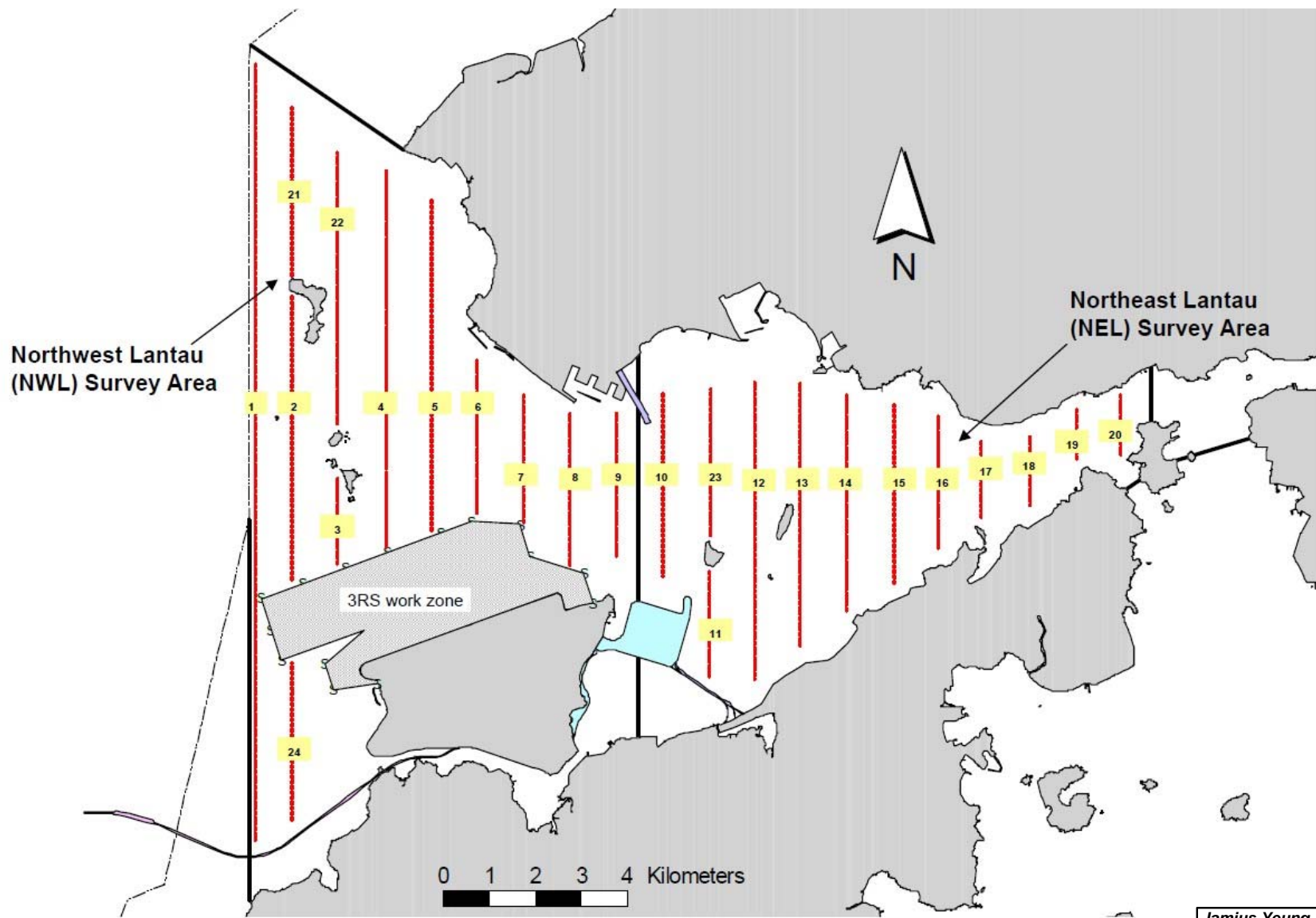


Figure 2.4

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

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Date: 29/11/2013

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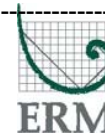


Table 2.8 Impact Dolphin Monitoring Line Transect Co-ordinates

Line No.		Easting	Northing	Line No.		Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800*	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150*	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500*	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850*	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150*	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000*	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	821176	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807	24*	Start Point	805476*	815900*
12	End Point	815542	824882	24*	End Point	805476*	819100*

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

2.3.5 Action & Limit Levels

The Action and Limit levels of impact dolphin monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

2.3.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 3, 9, 18 and 25 March 2020. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 *Results & Observations*

A total of 259.52 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in March 2020. Among the two areas, 98.10 km and 161.42 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 189.64 km and 69.88 km respectively. The survey efforts are summarized in *Appendix I*.

1 Chinese White Dolphin sighting was recorded during the two sets of surveys in March 2020. The dolphin sighting was made in NWL, while none was sighted in NEL. The dolphin sighting was made during on-effort search and was made on primary lines. The dolphin was not associated with any operating fishing vessel.

No dolphin sighting was made in the proximity of the TM-CLKL alignment. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.5*.

The southern end of transect line no. 8 was not travelled on 9 and 25 March 2020 during the dolphin monitoring due to the presence of construction boats along the transect line. Part of the transect line was not travelled due to safety concerns.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in March 2020 with the results present in *Tables 2.9* and *2.10*.

Table 2.9 *Individual Survey Event Encounter Rates*

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: March 3rd / 9th	0.0	0.0
	Set 2: March 18th / 25th	0.0	0.0
NWL	Set 1: March 3rd / 9th	1.7	1.7
	Set 2: March 18th / 25th	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in March 2020 in Northeast (NEL) and Northwest Lantau (NWL)

Table 2.10 *Monthly Average Encounter Rates*

	Encounter rate (STG) (no. of on-effort dolphin)	Encounter rate (ANI) (no. of dolphins from all on-
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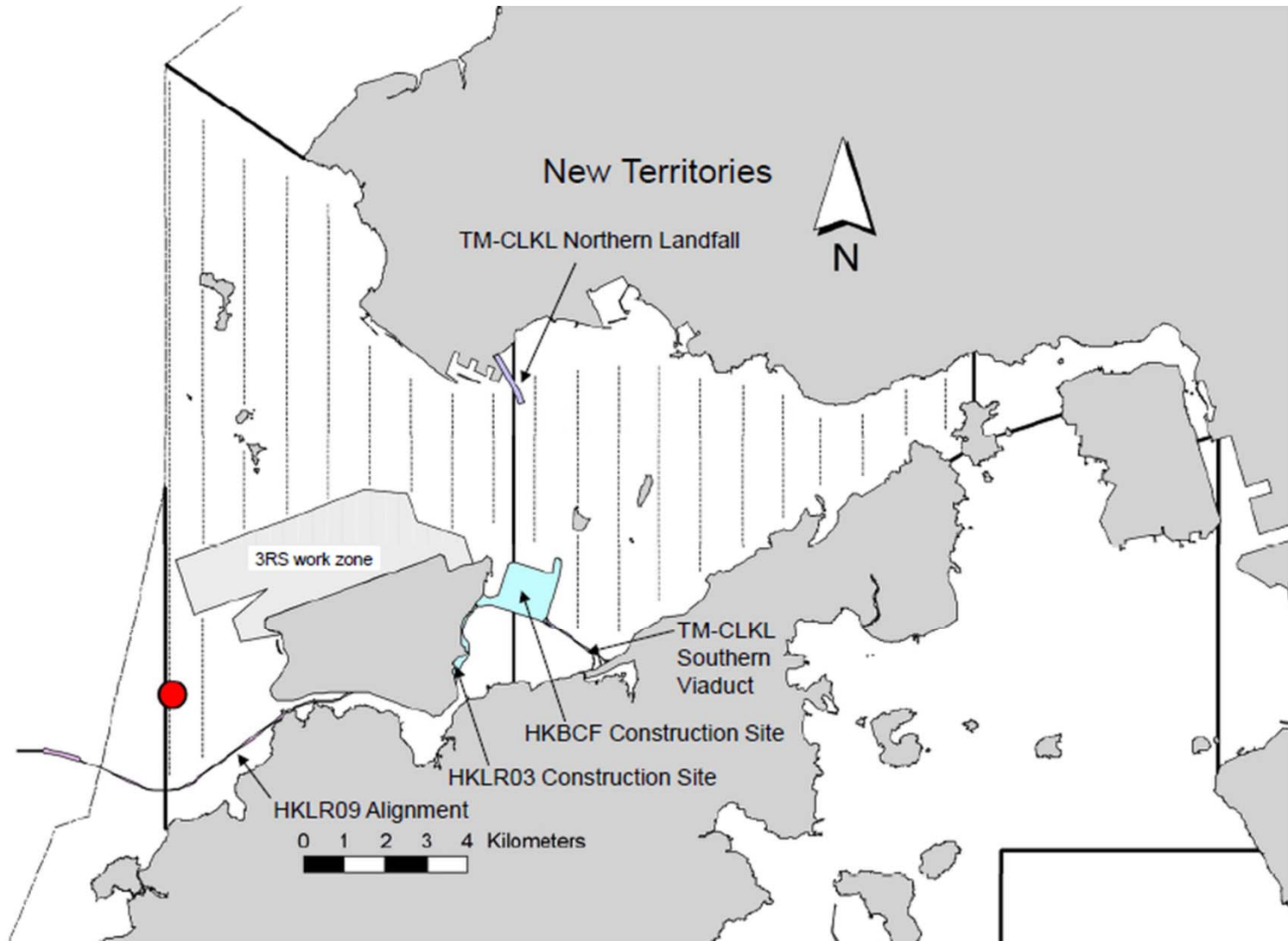


Figure 2.5

HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section
 The distribution of dolphin sightings during the reporting period

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	sightings per 100 km of survey effort)		effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	0.8	0.6	0.8	0.6

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in March 2020 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected in relation to the construction activities of this Contract in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

2.3.8 *Implementation of Marine Mammal Exclusion Zone*

No marine works were undertaken during the reporting period, therefore, daily 250 m marine mammal exclusion zone monitoring was not undertaken during the reporting period.

2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 4, 11, 18 and 25 March 2020.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.11*.

Table 2.11 *Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month*

Inspection Date	Observations	Recommendations/ Remarks
4 March 2020	Works Area - ML02 <ul style="list-style-type: none"> Chemical container was not placed in drip tray. Cementitious grout bags should be covered with tarpaulin sheet. 	Works Area - ML02 <ul style="list-style-type: none"> The Contractor was reminded to place chemical container in drip tray. The Contractor was reminded to cover the cementitious grout bags with tarpaulin sheet.
11 March 2020	Site office WA18 near Canteen <ul style="list-style-type: none"> The caps of some water-filled barriers were missing and the barriers were not sealed. Cell 8 <ul style="list-style-type: none"> A container was not covered with tarpaulin sheet and was filled with water. 	Site office WA18 near Canteen <ul style="list-style-type: none"> The Contractor was reminded to seal the water-filled barriers with cap or with other materials if the cap was missing. Cell 8 <ul style="list-style-type: none"> The Contractor was reminded to cover the container with tarpaulin sheet to avoid accumulation of retained water.
18 March 2020	Northern Landfall <ul style="list-style-type: none"> General refuse should be cleared. Chemical waste labels should be clearly displayed. 	Northern Landfall <ul style="list-style-type: none"> The Contractor was reminded to clear refuse regularly. The Contractor was reminded to display a clear chemical waste label on the waste containers.
25 March 2020	Southern Landfall near South Ventilation Building <ul style="list-style-type: none"> Chemical containers were not placed in drip tray. 	Southern Landfall near South Ventilation Building <ul style="list-style-type: none"> The Contractor was reminded to place chemical containers in drip tray.

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

2.5 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow

table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in *Table 2.12*.

Table 2.12 Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert Construction Waste ^(a) (tonnes)	Inert Construction Waste Re-used (tonnes)	Non-inert Construction Waste ^(b) (tonnes)	Recyclable Materials ^(c) (kg)	Chemical Wastes (kg)	Marine Sediment (m ³)		
						Category L	Category M (M _p & M _f)	Mixed (L+M)
March 2020	3,252	0	1,226	0	0	0	0	0

Notes:

- (a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste 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 was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

2.6 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.13* below.

Table 2.13 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C
Construction Dust Notification	435068	27 June 2018	Throughout the Contract	DBJV	Northern Landfall
Construction Dust Notification	435505	12 July 2018	Throughout the Contract	DBJV	Southern Landfall
Chemical Waste Registration	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Chemical Waste Registration	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Construction Waste Disposal Account	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Waste Water Discharge License	WT00031435-2018	2 August 2018	31 August 2023	DBJV	Southern Landfall
Waste Water Discharge License	WT00034060-2019	25 July 2019	30 June 2024	DBJV	Northern Landfall (4 Discharge Point)
Construction Noise Permit	GW-RW0406-18	17 October 2019	15 April 2020	DBJV	Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RS1137-19	26 December 2019	5 June 2020	DBJV	Southern Landfall

Notes:

HyD = Highways Department

DBJV = Dragages – Bouygues Joint Venture

VEP = Variation of Environmental Permit

2.7 **IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES**

In response to the site audit findings, the Contractors carried out all corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

2.8 **SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT**

One (1) Action Level exceedance of 1-hour TSP Monitoring was recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

Cumulative statistics are provided in *Appendix L*.

2.9 **SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS**

The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix L*.

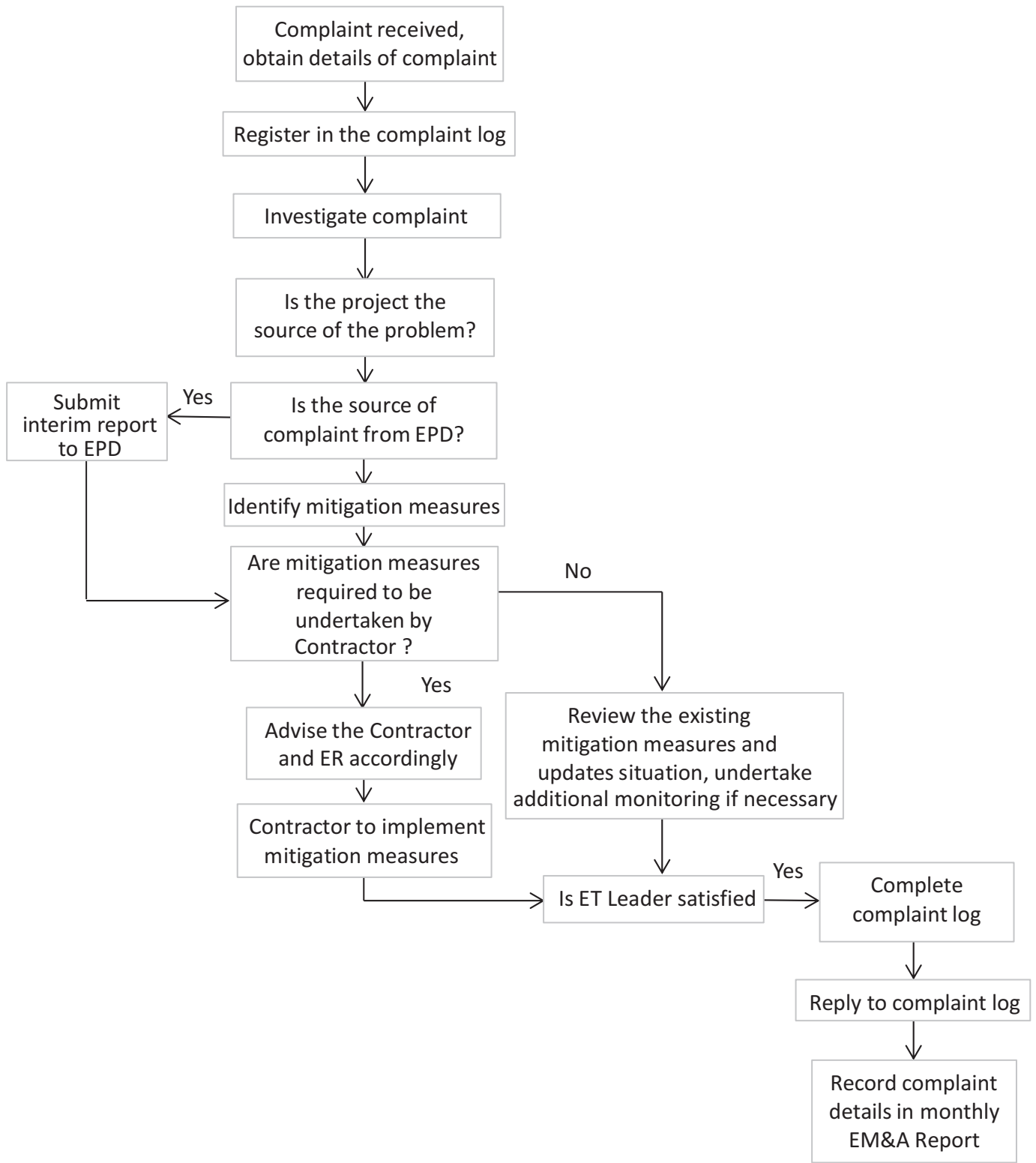


Figure 2.6

Environmental Complaint Handling Procedure

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3 **FUTURE KEY ISSUES**

3.1 **CONSTRUCTION ACTIVITIES FOR THE COMING MONTH**

As informed by the Contractor, the major works for the Contract in April 2020 are summarized in *Table 3.1*.

Table 3.1 *Construction Works to Be Undertaken in the Coming Month*

Works to be undertaken

Land-based Works

- Road & Drainage works – Portion S-A, S-B & S-C and Northern Landfall;
 - Fireboard installation –Tunnel;
 - UU installation - Portion S-A, S-B & S-C and Northern Landfall.
-

3.2 **KEY ISSUES FOR THE COMING MONTH**

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of April 2020 are mainly associated with dust, marine ecology and waste management issues.

3.3 **MONITORING SCHEDULE FOR THE COMING MONTH**

The tentative schedule for environmental monitoring in April 2020 is provided in *Appendix F*.

4.1**CONCLUSIONS**

This Seventy-seventh Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 March 2020, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP), post-construction water quality monitoring (DO, turbidity and SS) and dolphin monitoring were carried out in this reporting month.

One (1) Action Level exceedance of 1-hour TSP Monitoring was recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

1 Chinese White Dolphin sighting was recorded during the two sets of surveys in March 2020. The dolphin sighting was made in NWL, while none was sighted in NEL. The dolphin sighting was made during on-effort search and was made on primary lines. The dolphin was not associated with any operating fishing vessel..

Environmental site inspection was carried out four (4) times in March 2020. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

No non-compliance event was recorded during the reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

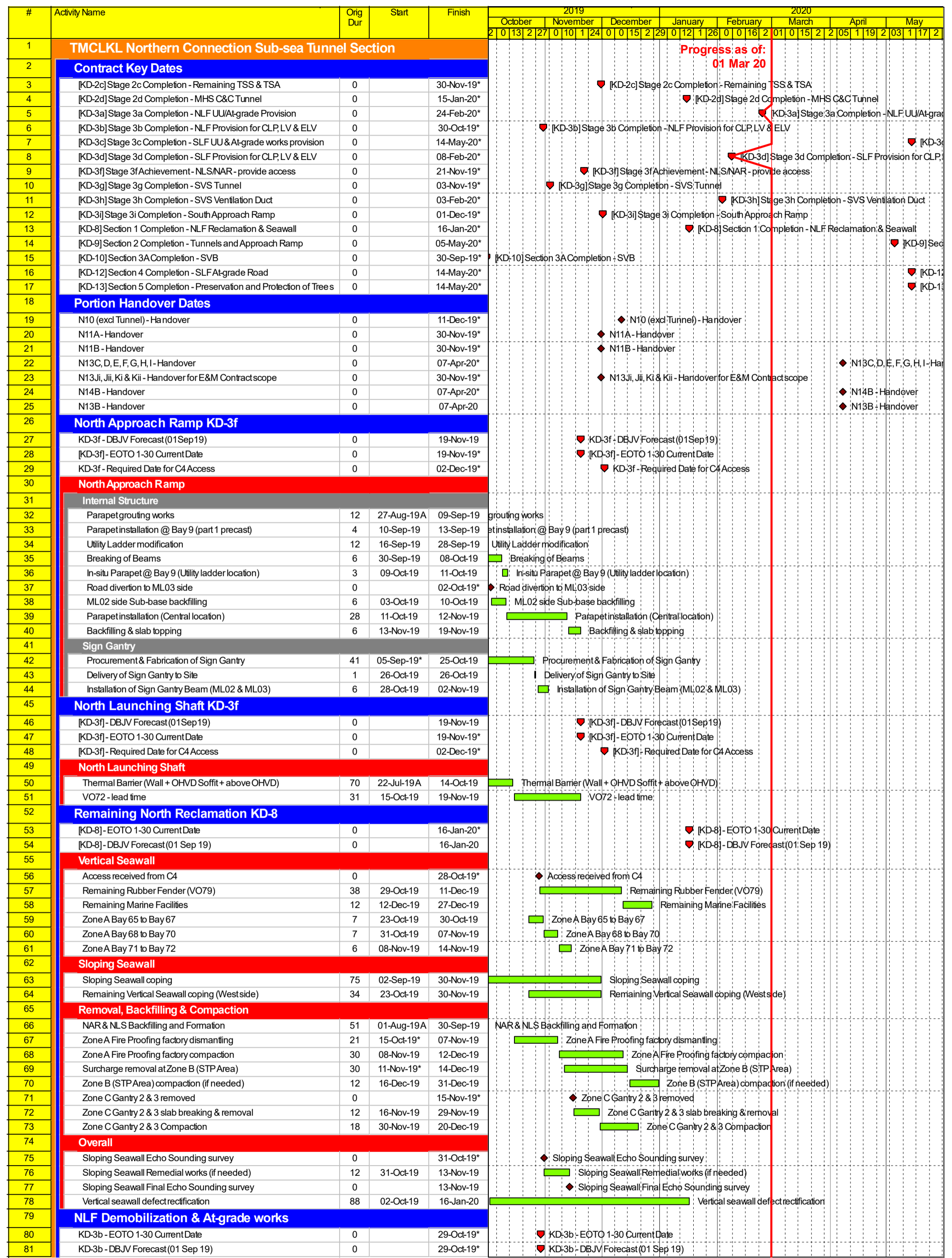
Project Organization for Environmental Works



↔ Line of Communication

Appendix B

Construction Programme

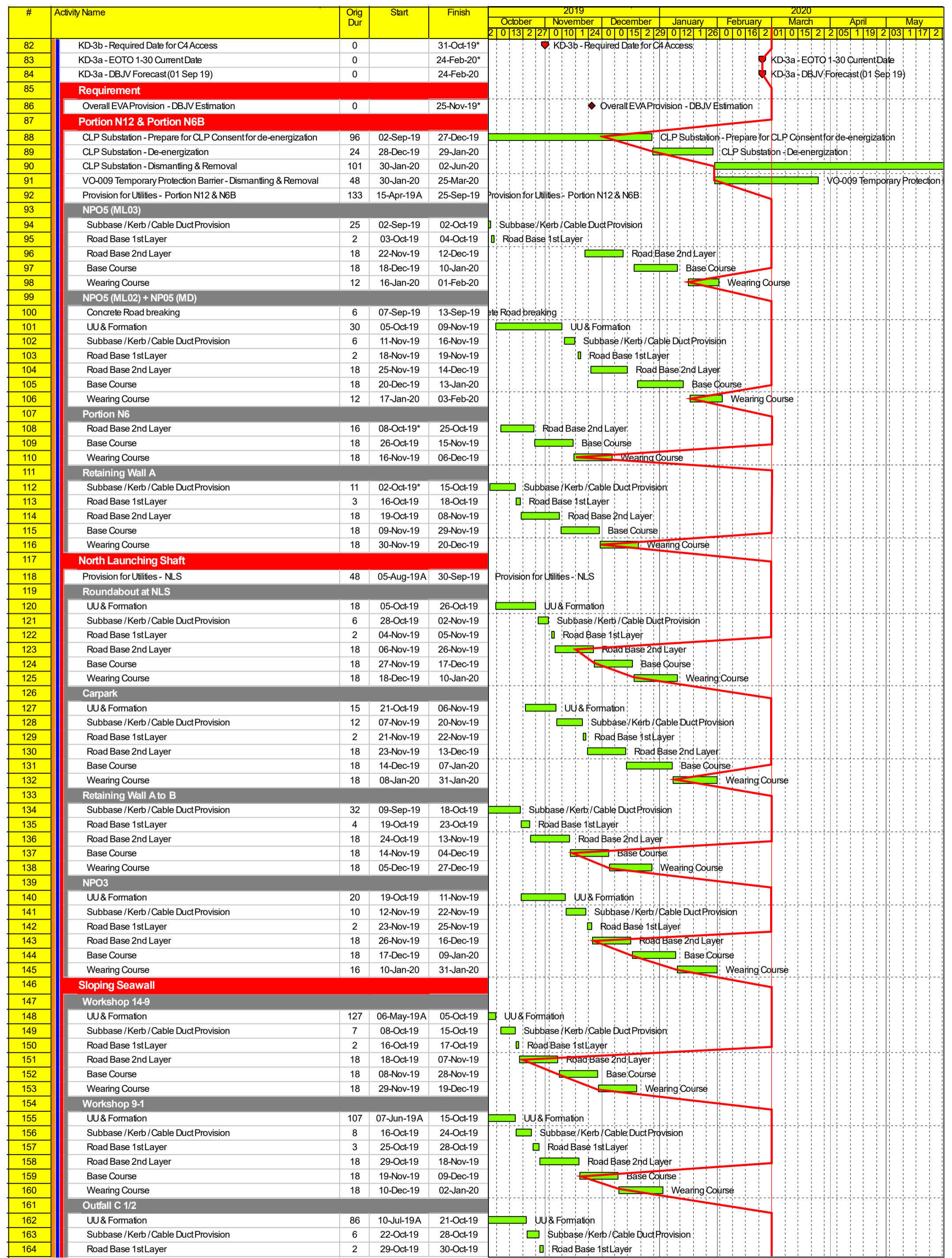


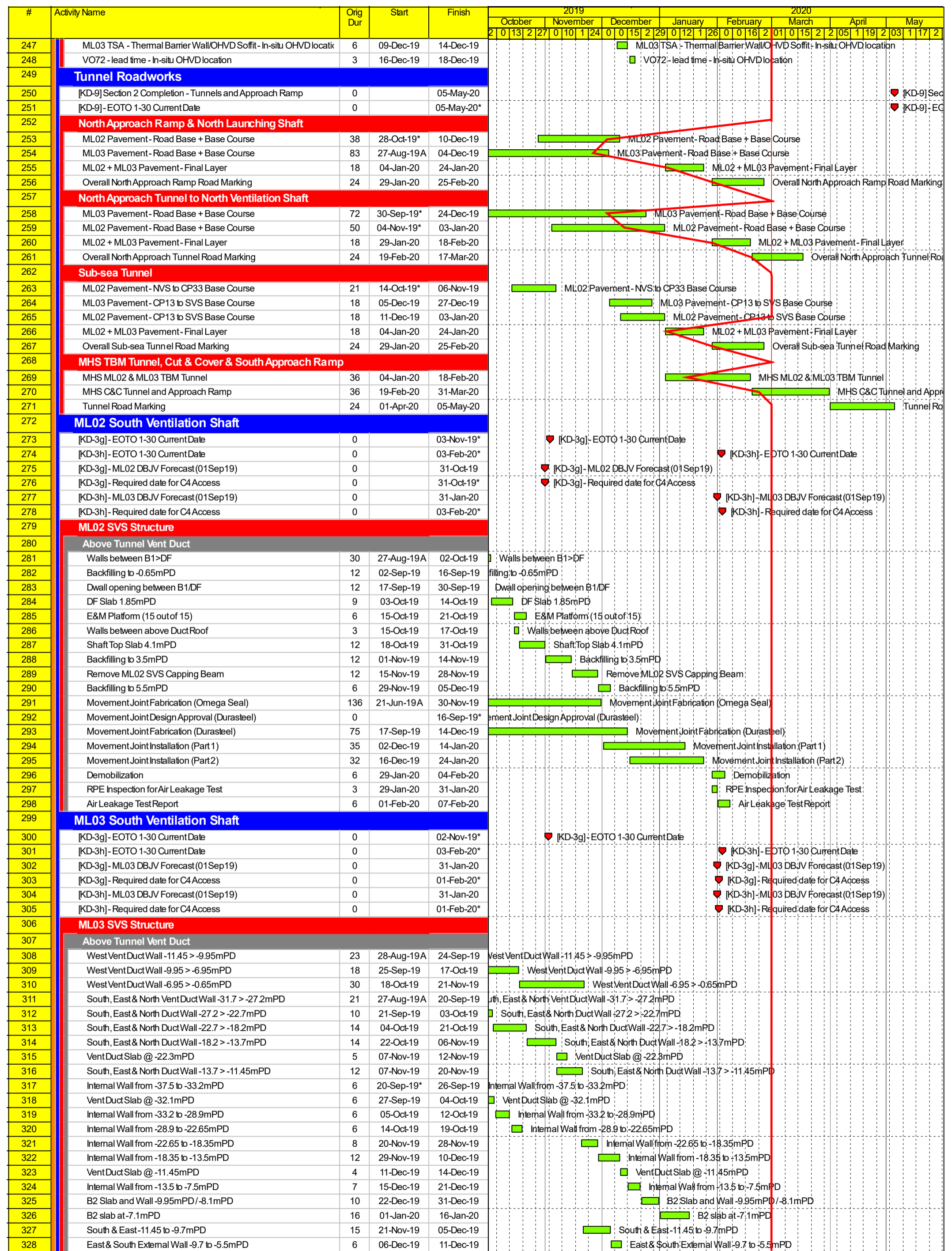
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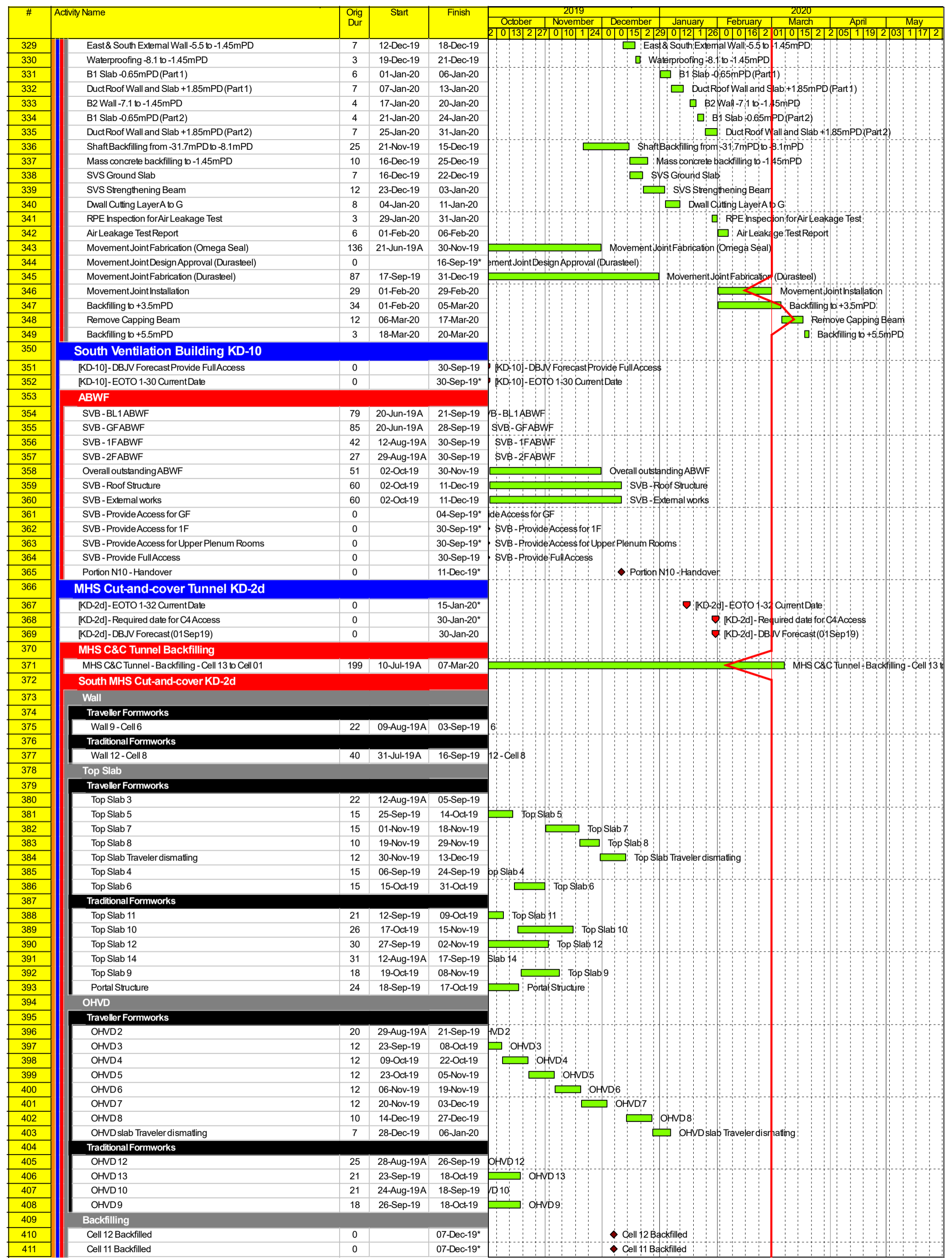
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- ◆ Planned Milestone
- ♥ Key Date
- ◆ Progress Milestone
- Progress Bar

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
22-Dec-17	Rev.H	WYu	
05-Feb-18	Rev.IAC	WYu	
07-Mar-18	Rev.I	WYu	
04-Jun-18	Rev.J	WYu	
11-Nov-19	Rev.K	SPa	WYu
22-Jan-20	Rev.K1	SPa	WYu



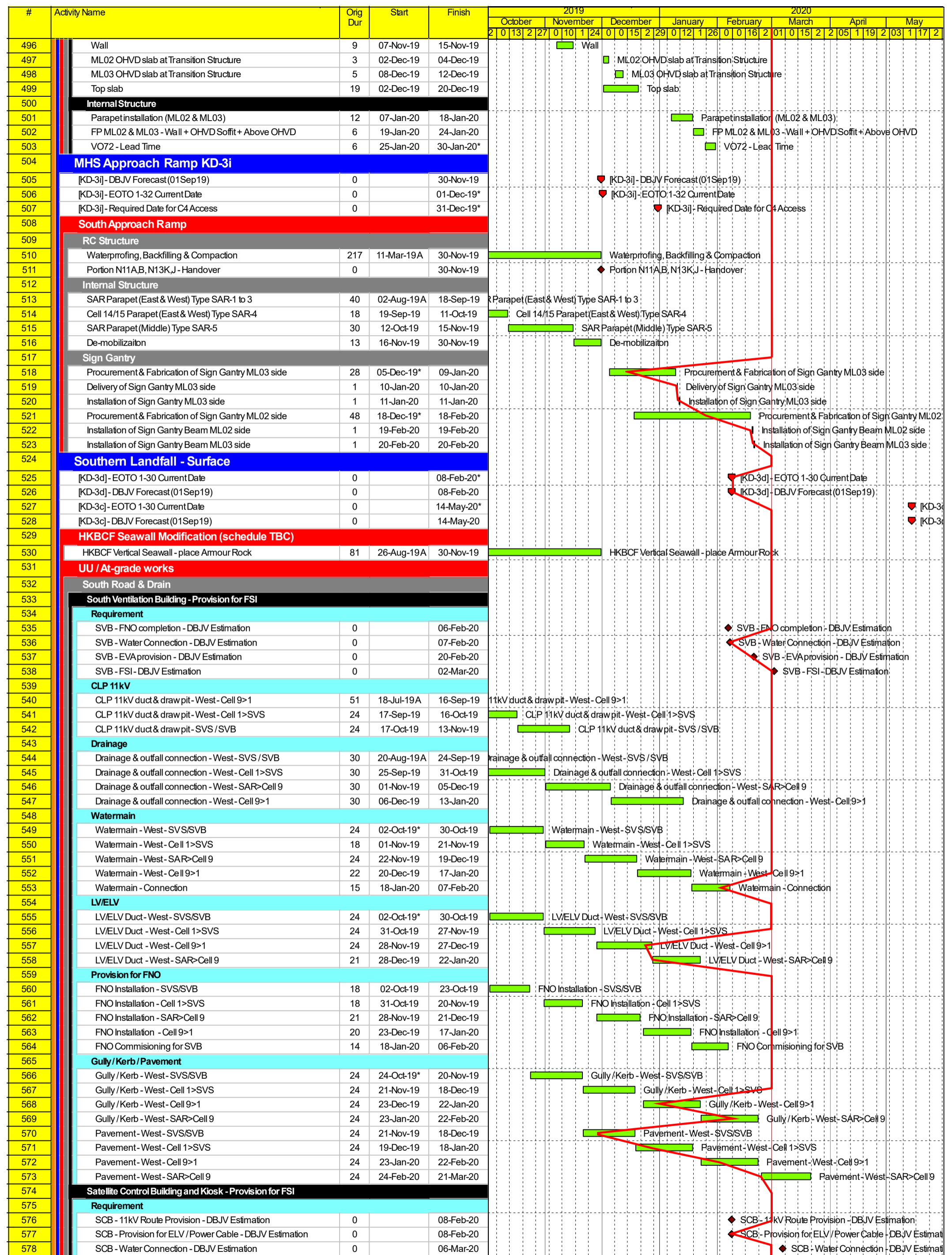




- Planned Bar
- ◆ Planned Milestone
- ♥ Key Date
- ◆ Progress Milestone
- Progress Bar

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
22-Dec-17	Rev.H	WYu	
05-Feb-18	Rev.IAC	WYu	
07-Mar-18	Rev.I	WYu	
04-Jun-18	Rev.J	WYu	
11-Nov-19	Rev.K	SPa	WYu
22-Jan-20	Rev.K1	SPa	WYu



Appendix C

Environmental Mitigation
and Enhancement Measure
Implementation Schedules

*Contract No. HY/2012/08
Tuen Mun – Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
Air Quality									
4.8.1	3.8	An effective watering programme of twice daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	All areas / throughout construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. 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.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	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.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	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.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works	All exposed surfaces /	Contractor	TMEIA Avoid dust		Y		✓

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

Contract No. HY/2012/08
Tuen Mun – Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
		have been completed shall be restored as soon as is practicable.	throughout construction period		generation				
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		✓
WATER QUALITY									
<i>Marine Works (Sequence A)</i>									
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TM-CLKL northern reclamation;	All areas/ prior to dredging and backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	Use of cage type silt curtains round all grab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		N/A
	Figure 1.1 of Annex C	A layer of floating type silt curtain will be applied when dredging and reclamation works are being undertaken at Portion N-a as shown in Figure 1.1 of Annex C of the EM&A Manual.	All areas/ through out marine works	Contractor	TM-EIAO		Y		N/A
6.1	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	The use of Lean Material Overboard (LMOB) systems shall be prohibited.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

Contract No. HY/2012/08
Tuen Mun – Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.1 Figure 6.2b Appendix D6b	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TM-CLKL northern reclamation; - Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and - Reclamation dredging and filling for Portion 1 of HKLR;	TM-CLKL northern landfall, Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		N/A
6.1	-	The filling material for the other parts of the works are the same as Sequence A;	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	5.7	Cage type silt curtain (with steel enclosure) shall be used for grab dredgers working in the site of HKBCF and TM- CLKL southern reclamation. Cage type silt curtains will be applied round all grab dredgers at other works area.	HKBCF, HKLR and TM-CLKL grab dredging	Contractor	TM-EIAO		Y		N/A
6.1	Annex A	A layer of floating type silt curtain will be applied around all works as defined in Appendix D6b.	All areas/ through out marine works	Contractor	TM-EIAO		Y		N/A
6.1	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;	All areas/ through out marine works	Contractor	TM-EIAO		Y		N/A
<i>General Marine Works</i>									
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		N/A
6.1	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee		Y		N/A

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
					Guidelines. DASO permit conditions.				
6.1	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A

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						D	C	O	
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
<i>Land Works</i>									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	5.8	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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						D	C	O	
6.1	-	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓
6.1	-	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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/ design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	✓
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
<i>Water Quality Monitoring</i>									
6.1	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations.	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	Post-construction water quality monitoring was undertaken in the reporting period.
ECOLOGY									
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	✓
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All dredging and reclamation areas/Detailed Design/during all reclamation and dredging works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m ² in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/TM-CLKL/ HKBCF Contractor	TMEIA	Y		Y	N/A. To be implemented by AFCD.
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		✓
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		N/A
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		✓

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						D	C	O	
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE AND VISUAL									
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
					Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.				
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The surplus surcharge should be transferred to a fill bank	Reclamation areas / after surcharge works	Contractor	TMEIA		Y		N/A
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance.	Reclamation areas / throughout dredging works	Contractor	TMEIA		Y		✓

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						D	C	O	
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: <i>f</i> suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and <i>w</i> Chinese according to the instructions prescribed in Schedule 2 of the Regulations. <i>f</i> Clearly labelled and used solely for the storage of chemical wastes; <i>f</i> Enclosed with at least 3 sides; <i>f</i> Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; <i>f</i> Adequate ventilation; <i>f</i> Sufficiently covered to prevent rainfall	All areas / throughout construction period	Contractor	TMEIA		Y		<>

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						D	C	O	
		entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and f Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical 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. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓
CULTURAL HERITAGE									
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		N/A

*** Remarks:**

- ✓ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures

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						D	C	O	

- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable in Reporting Period

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Appendix D

Summary of Action and Limit Levels

Table D1 *Action and Limit Levels for 1-hour and 24-hour TSP*

Parameters	Action	Limit
24 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337	500

Table D2 *Action and Limit Levels for Impact Dolphin Monitoring*

	North Lantau Social Cluster	
	NEL	NWL
Action Level	STG < 70% of baseline & ANI < 70% of baseline	STG < 70% of baseline & ANI < 70% of baseline
Limit Level	[STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline	

Notes:

1. STG means quarterly encounter rate of number of dolphin sightings, which is **6.00 in NEL** and **9.85 in NWL** during the baseline monitoring period
2. ANI means quarterly encounter rate of total number of dolphins, which is **22.19 in NEL** and **44.66 in NWL** during the baseline monitoring period
3. For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table D3 *Derived Value of Action Level (AL) and Limit Level (LL)*

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

Appendix E

Copies of
Calibration
Certificates for Air
Quality
Monitoring

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 5
 Calibrated by : P.F.Yeung
 Date : 08/02/2020

Sampler

Model : TE-5170
 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 25 February 2019
 Slope (m) : 2.07076
 Intercept (b) : -0.02917
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1020
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12.2	3.541	1.724	56	56.77
2 13 holes	9.6	3.141	1.531	51	51.70
3 10 holes	7.2	2.720	1.328	45	45.62
4 7 holes	4.7	2.198	1.075	38	38.52
5 5 holes	2.5	1.603	0.788	30	30.41

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 28.320 Intercept(b): 8.093 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 12/02/2020

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR10A
 Calibrated by : P.F.Yeung
 Date : 08/02/2020

Sampler

Model : TE-5170
 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 25 February 2019
 Slope (m) : 2.07076
 Intercept (b) : -0.02917
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1020
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.0	3.362	1.638	52	52.71
2 13 holes	9.0	3.041	1.483	48	48.66
3 10 holes	6.2	2.524	1.233	44	44.60
4 7 holes	4.2	2.077	1.017	37	37.51
5 5 holes	2.2	1.504	0.740	28	28.38

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 26.601 Intercept(b): 9.862 Correlation Coefficient(r): 0.9913

Checked by: Magnum Fan

Date: 12/02/2020

High-Volume TSP Sampler
5-Point Calibration Record

Location : AQM1
 Calibrated by : P.F.Yeung
 Date : 08/02/2020

Sampler

Model : TE-5170
 Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 25 February 2019
 Slope (m) : 2.07076
 Intercept (b) : -0.02917
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1020
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12.0	3.512	1.710	55	55.75
2 13 holes	9.4	3.108	1.515	50	50.69
3 10 holes	6.6	2.604	1.272	45	45.62
4 7 holes	4.5	2.150	1.053	38	38.52
5 5 holes	2.4	1.570	0.772	29	29.40

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 27.851

Intercept(b): 8.782

Correlation Coefficient(r): 0.9959

Checked by: Magnum Fan

Date: 12/02/2020

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 1
 Calibrated by : P.F.Yeung
 Date : 08/02/2019

Sampler

Model : TE-5170
 Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 25 February 2019
 Slope (m) : 2.07076
 Intercept (b) : -0.02917
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1020
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.2	3.393	1.652	54	54.74
2 13 holes	9.0	3.041	1.483	50	50.69
3 10 holes	6.5	2.584	1.262	44	44.60
4 7 holes	4.2	2.077	1.017	36	36.49
5 5 holes	2.2	1.504	0.740	25	25.34

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 32.148 Intercept(b): 2.801 Correlation Coefficient(r): 0.9950

Checked by: Magnum Fan

Date: 12/02/2020

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 6A
 Calibrated by : P.F.Yeung
 Date : 08/02/2020

Sampler

Model : TE-5170
 Serial Number : S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 25 February 2019
 Slope (m) : 2.07076
 Intercept (b) : -0.02917
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1020
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12.0	3.512	1.710	54	54.74
2 13 holes	9.2	3.075	1.499	50	50.69
3 10 holes	6.6	2.604	1.272	45	45.62
4 7 holes	4.4	2.126	1.041	37	37.51
5 5 holes	2.3	1.537	0.757	27	27.37

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 28.922 Intercept(b): 6.870 Correlation Coefficient(r): 0.9908

Checked by: Magnum Fan

Date: 12/02/2020



RECALIBRATION

DUE DATE:

February 25, 2020

Certificate of Calibration

Calibration Certification Information

Cal. Date: February 25, 2019 Rootsmeter S/N: 438320 Ta: 294 °K
 Operator: Jim Tisch Pa: 762.0 mm Hg
 Calibration Model #: TE-5025A Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569
QSTD	m= 2.07076		QA	m= 1.29667	
	b= -0.02917			b= -0.01797	
	r= 1.00000			r= 1.00000	

Calculations

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

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C193443

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC19-1283)

Date of Receipt / 收件日期 : 21 June 2019

Description / 儀器名稱 : Anemometer

Manufacturer / 製造商 : Lutron

Model No. / 型號 : AM-4201

Serial No. / 編號 : AF.27513

Supplied By / 委託者 : Envirotech Services Co.

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

TEST CONDITIONS / 測試條件

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

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

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 2 July 2019

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results are detailed in the subsequent page(s).

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

- Testo Industrial Services GmbH, Germany

Tested By

測試

T F Lee

Assistant Engineer

Certified By

核證

H C Chan

Engineer

Date of Issue

簽發日期

5 July 2019

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

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

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

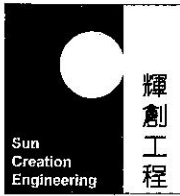
c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606

Fax/傳真: (852) 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Certificate of Calibration

校正證書

Certificate No. : C193443
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
2. The results presented are the mean of 10 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL386	Multi-function Measuring Instrument	S16493

4. Test procedure : MA130N.

5. Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.3	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	7.9	+0.2	0.3	2.0
10.1	10.0	+0.1	0.4	2.0

Remarks : - The Measured Corrections are defined as :
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note :

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

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

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

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

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration : 30 December 2019

Brand of Test Meter: Davis

Model: Vantage Pro 2 (s/n: AS160104014)

Location : Roof of Tuen Mun Firestation

Procedures :

- 1. Wind Still Test: The wind speed sensor was hold by hand until it keep still
- 2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
- 3. Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

Davis (m/s)	Anemometer (m/s)
3.1	3.3
2.6	2.8
1.4	1.2

Wind Direction Test

Davis (o)	Marine Compass (o)
271	270
0	0
89	90
179	180

Calibrated by: Ho

Yeung Ping Fai
(Technical Officer)

Checked by : Fat

Ho Kam Fat
(Senior Technical Officer)



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030056
Date of Issue : 12 March 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 18A104824
Date of Received : Mar 11, 2020
Date of Calibration : Mar 11, 2020
Date of Next Calibration^(a) : Jun 10, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.06	0.06	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	10.10	0.09	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature


Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.5	0.5	Satisfactory
26.0	26.1	0.1	Satisfactory
47.0	46.2	-0.8	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030056
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Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.38	0.42	0.04	Satisfactory
4.44	4.51	0.07	Satisfactory
6.78	6.78	0.00	Satisfactory
8.54	8.72	0.18	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	145.8	-0.75	Satisfactory
0.01	1412	1356	-3.97	Satisfactory
0.1	12890	12176	-5.54	Satisfactory
0.5	58670	56438	-3.80	Satisfactory
1.0	111900	110819	-0.97	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.00	0.00	Satisfactory
20	20.54	2.70	Satisfactory
30	30.72	2.40	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.02	--	Satisfactory
10	10.36	3.6	Satisfactory
20	20.82	4.1	Satisfactory
100	106.4	6.4	Satisfactory
800	812.4	1.6	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030055
Date of Issue : 12 March 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 16H104234
Date of Received : Mar 11, 2020
Date of Calibration : Mar 11, 2020
Date of Next Calibration^(a) : Jun 10, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.02	0.02	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.02	0.01	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature


Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.4	0.4	Satisfactory
26.0	26.0	0.0	Satisfactory
47.0	47.4	0.4	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030055
Date of Issue : 12 March 2020
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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.38	0.39	0.01	Satisfactory
4.44	4.53	0.09	Satisfactory
6.78	6.70	-0.08	Satisfactory
8.54	8.74	0.20	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	151.0	2.79	Satisfactory
0.01	1412	1357	-3.90	Satisfactory
0.1	12890	11982	-7.04	Satisfactory
0.5	58670	56432	-3.81	Satisfactory
1.0	111900	110782	-1.00	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.00	0.00	Satisfactory
20	20.36	1.80	Satisfactory
30	30.56	1.87	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00	--	Satisfactory
10	10.24	2.4	Satisfactory
20	21.20	6.0	Satisfactory
100	94.6	-5.4	Satisfactory
800	792.4	-1.0	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030054
Date of Issue : 12 March 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17E100747
Date of Received : Mar 11, 2020
Date of Calibration : Mar 11, 2020
Date of Next Calibration^(a) : Jun 10, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.04	0.03	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

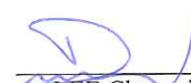
Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.2	0.2	Satisfactory
26.0	26.6	0.6	Satisfactory
47.0	47.4	0.4	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030054
Date of Issue : 12 March 2020
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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.38	0.48	0.10	Satisfactory
4.44	4.50	0.06	Satisfactory
6.78	6.68	-0.10	Satisfactory
8.54	8.62	0.08	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	148.2	0.88	Satisfactory
0.01	1412	1386	-1.84	Satisfactory
0.1	12890	12436	-3.52	Satisfactory
0.5	58670	57314	-2.31	Satisfactory
1.0	111900	111048	-0.76	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.99	-0.10	Satisfactory
20	20.16	0.80	Satisfactory
30	30.28	0.93	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.06	--	Satisfactory
10	10.34	3.4	Satisfactory
20	20.32	1.6	Satisfactory
100	92.4	-7.6	Satisfactory
800	801.6	0.2	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030057
Date of Issue : 12 March 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17H105557
Date of Received : Mar 11, 2020
Date of Calibration : Mar 11, 2020
Date of Next Calibration^(a) : Jun 10, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.00	0.00	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.09	0.08	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature


Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.2	0.2	Satisfactory
26.0	26.6	0.6	Satisfactory
47.0	47.6	0.6	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ030057
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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.38	0.41	0.03	Satisfactory
4.44	4.50	0.06	Satisfactory
6.78	6.75	-0.03	Satisfactory
8.54	8.69	0.15	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	147.7	0.54	Satisfactory
0.01	1412	1467	3.90	Satisfactory
0.1	12890	12767	-0.95	Satisfactory
0.5	58670	59526	1.46	Satisfactory
1.0	111900	110742	-1.03	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.98	-0.20	Satisfactory
20	20.48	2.40	Satisfactory
30	30.84	2.80	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.18	--	Satisfactory
10	10.14	1.4	Satisfactory
20	19.66	-1.7	Satisfactory
100	105.4	5.4	Satisfactory
800	792.6	-0.9	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010131
Date of Issue : 24 January 2019
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI 6920V2 (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 0001C6A7
Date of Received : Jan 20, 2020
Date of Calibration : Jan 20, 2020
Date of Next Calibration^(a) : Apr 20, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.99	-0.01	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.06	0.05	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.04	0.0	Satisfactory
20.0	20.05	0.1	Satisfactory
45.0	44.90	-0.1	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is referenced to YSI product specifications.


LEE Chun-ning, Desmond
Senior Chemist



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010131
Date of Issue : 24 January 2019
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.92	1.31	0.39	Satisfactory
4.68	4.68	0.00	Satisfactory
5.18	5.33	0.15	Satisfactory
8.84	8.98	0.14	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	153.4	4.42	Satisfactory
0.01	1412	1386	-1.84	Satisfactory
0.1	12890	12784	-0.82	Satisfactory
0.5	58670	57934	-1.25	Satisfactory
1.0	111900	110886	-0.91	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.98	-0.20	Satisfactory
20	20.20	1.00	Satisfactory
30	30.42	1.40	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.2	--	Satisfactory
10	10.1	1.0	Satisfactory
20	19.8	-1.0	Satisfactory
100	98.7	-1.3	Satisfactory
800	788.4	-1.5	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010132
Date of Issue : 24 January 2019
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI 6920V2 (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 00019CB2
Date of Received : Jan 20, 2020
Date of Calibration : Jan 20, 2020
Date of Next Calibration^(a) : Apr 20, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.01	0.01	Satisfactory
7.42	7.36	-0.06	Satisfactory
10.01	9.96	-0.05	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature


Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.03	0.0	Satisfactory
20.0	20.06	0.1	Satisfactory
45.0	44.90	-0.1	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010132
Date of Issue : 24 January 2019
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.92	1.22	0.30	Satisfactory
4.68	4.66	-0.02	Satisfactory
5.18	5.34	0.16	Satisfactory
8.84	8.96	0.12	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	152.9	4.08	Satisfactory
0.01	1412	1391	-1.49	Satisfactory
0.1	12890	12796	-0.73	Satisfactory
0.5	58670	57862	-1.38	Satisfactory
1.0	111900	110894	-0.90	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.05	0.50	Satisfactory
20	19.96	-0.20	Satisfactory
30	30.38	1.27	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	--	Satisfactory
10	9.9	-1.0	Satisfactory
20	19.8	-1.0	Satisfactory
100	98.6	-1.4	Satisfactory
800	789.3	-1.3	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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

Appendix F

EM&A Monitoring Schedules

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Air Quality Impact Monitoring Schedule - March 2020**

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Mar	02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar
		1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM	
08-Mar	09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar
	1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM		
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar
1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar
		1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM	
29-Mar	30-Mar	31-Mar				
	1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM					

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Air Quality Impact Monitoring Schedule - April 2020**

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	03-Apr	04-Apr
				1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM		
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
		1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM	
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
	1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM		
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Landfall
Impact Marine Water Quality Monitoring (WQM) Schedule (Post Project Monitoring)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar
8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar
		ebb tide 18:14 - 21:23 flood tide 5:19 - 8:49		ebb tide 9:23 - 12:23 flood tide 13:40 - 17:10		ebb tide 10:25 - 13:55 flood tide 5:10 - 8:20
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar
		ebb tide 11:44 - 15:14 flood tide 5:56 - 9:26		ebb tide 12:34 - 16:04 flood tide 6:28 - 9:58		ebb tide 13:32 - 17:02 flood tide 7:06 - 10:36
29-Mar	30-Mar	31-Mar				
		ebb tide 15:39 - 18:09 flood tide 8:16 - 11:46				

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Landfall
Impact Marine Water Quality Monitoring (WQM) Schedule (Post Project Monitoring)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Apr	2-Apr	3-Apr	4-Apr
				ebb tide 18:04 - 21:05 flood tide 6:09 - 8:53		ebb tide 9:05 - 12:23 flood tide 13:50 - 17:20
5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr
		ebb tide 10:52 - 14:22 flood tide 4:58 - 8:28		ebb tide 12:08 - 15:38 flood tide 5:59 - 9:29		ebb tide 13:35 - 17:05 flood tide 7:02 - 10:32
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - March 2020**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Mar	02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar
		Impact Dolphin Monitoring				
08-Mar	09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar
	Impact Dolphin Monitoring					
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar
			Impact Dolphin Monitoring			
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar
			Impact Dolphin Monitoring			
29-Mar	30-Mar	31-Mar				

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - April 2020**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	03-Apr	04-Apr
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
			Impact Dolphin Monitoring			
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
			Impact Dolphin Monitoring			
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
			Impact Dolphin Monitoring			
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
			Impact Dolphin Monitoring			

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse(safety,weather etc) conditions.

Appendix G

Impact Air Quality Monitoring Results

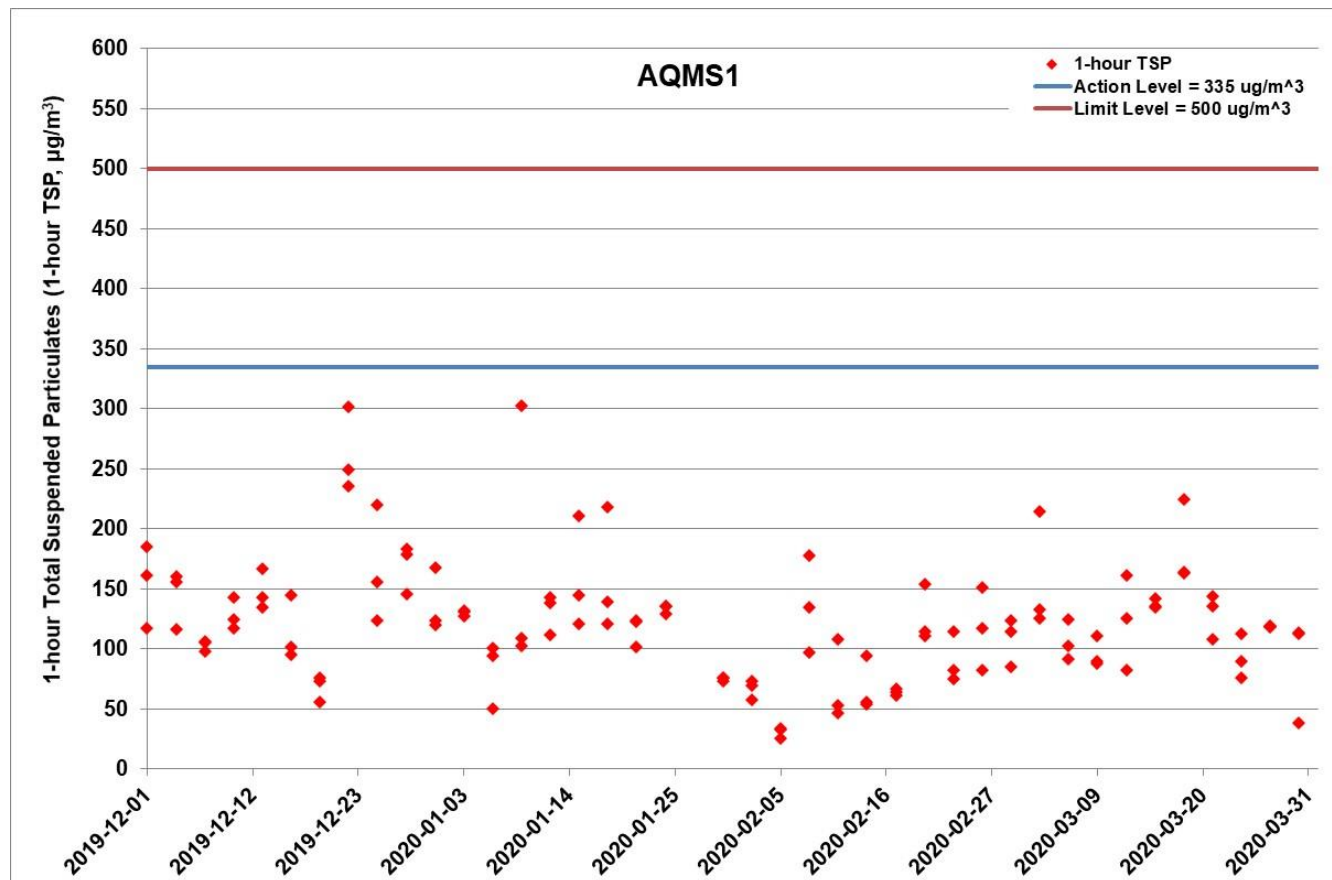


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at AQMS1 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 – 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



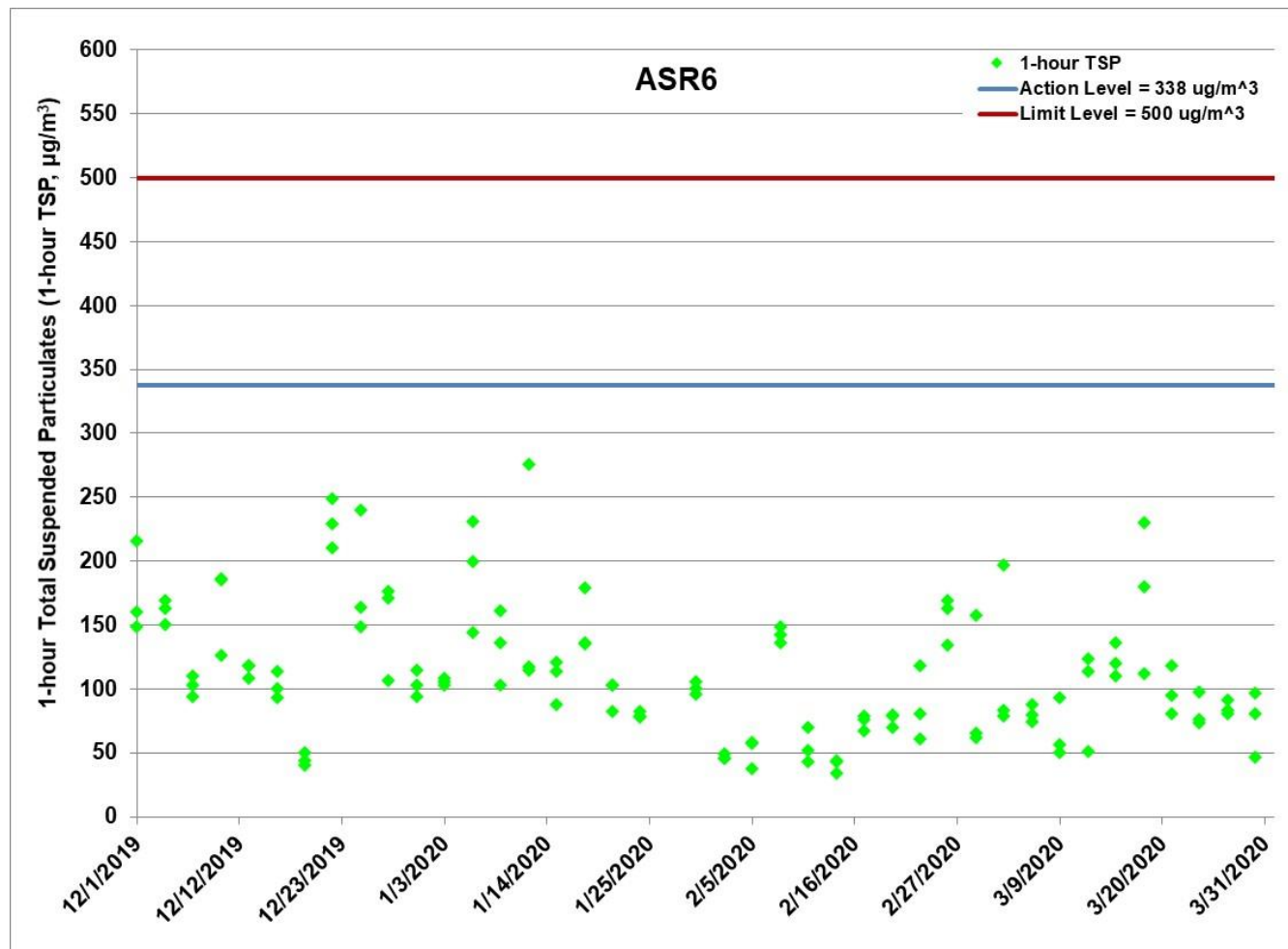


Figure G.2 Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR6 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



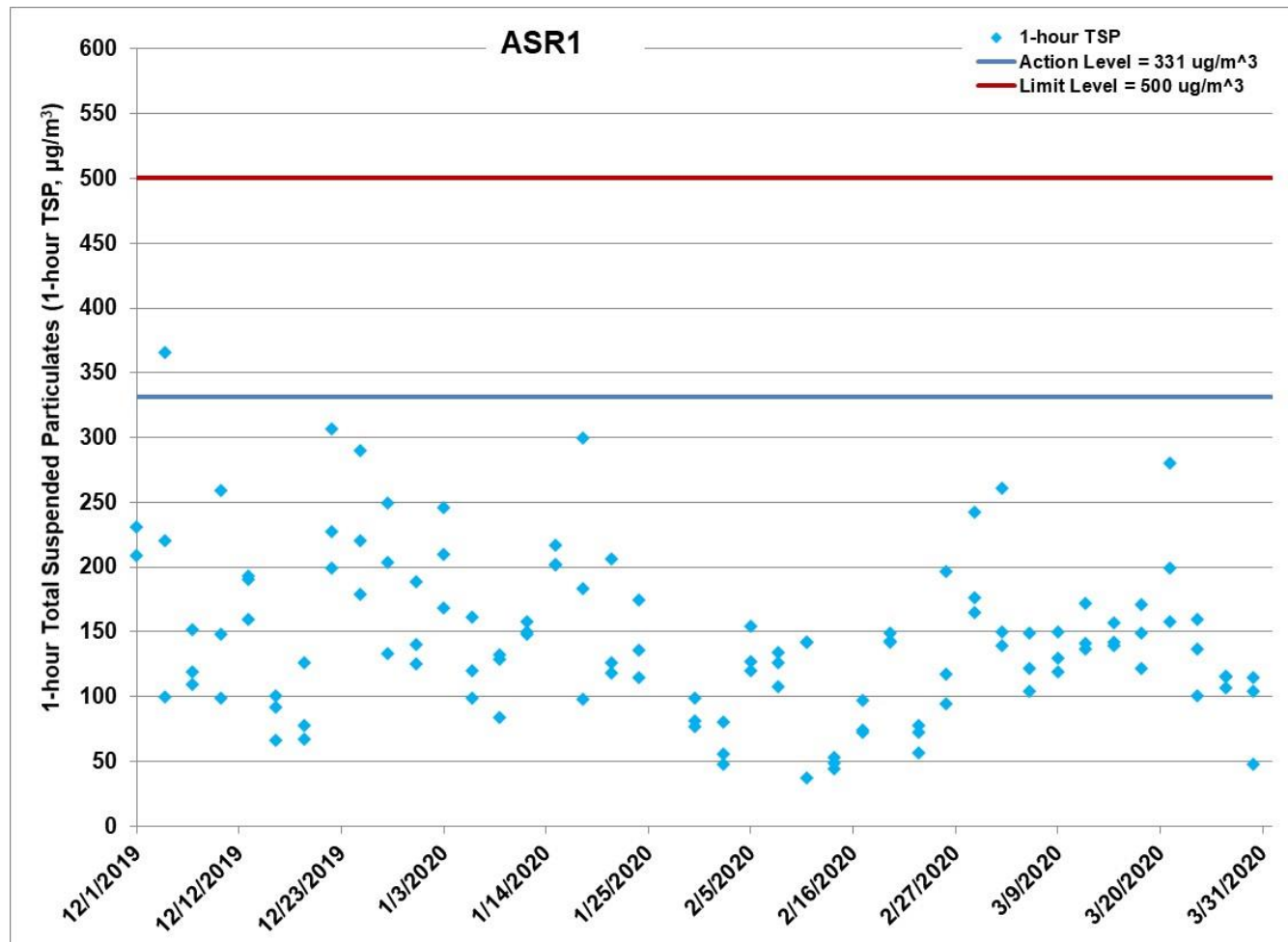


Figure G.3 Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR1 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



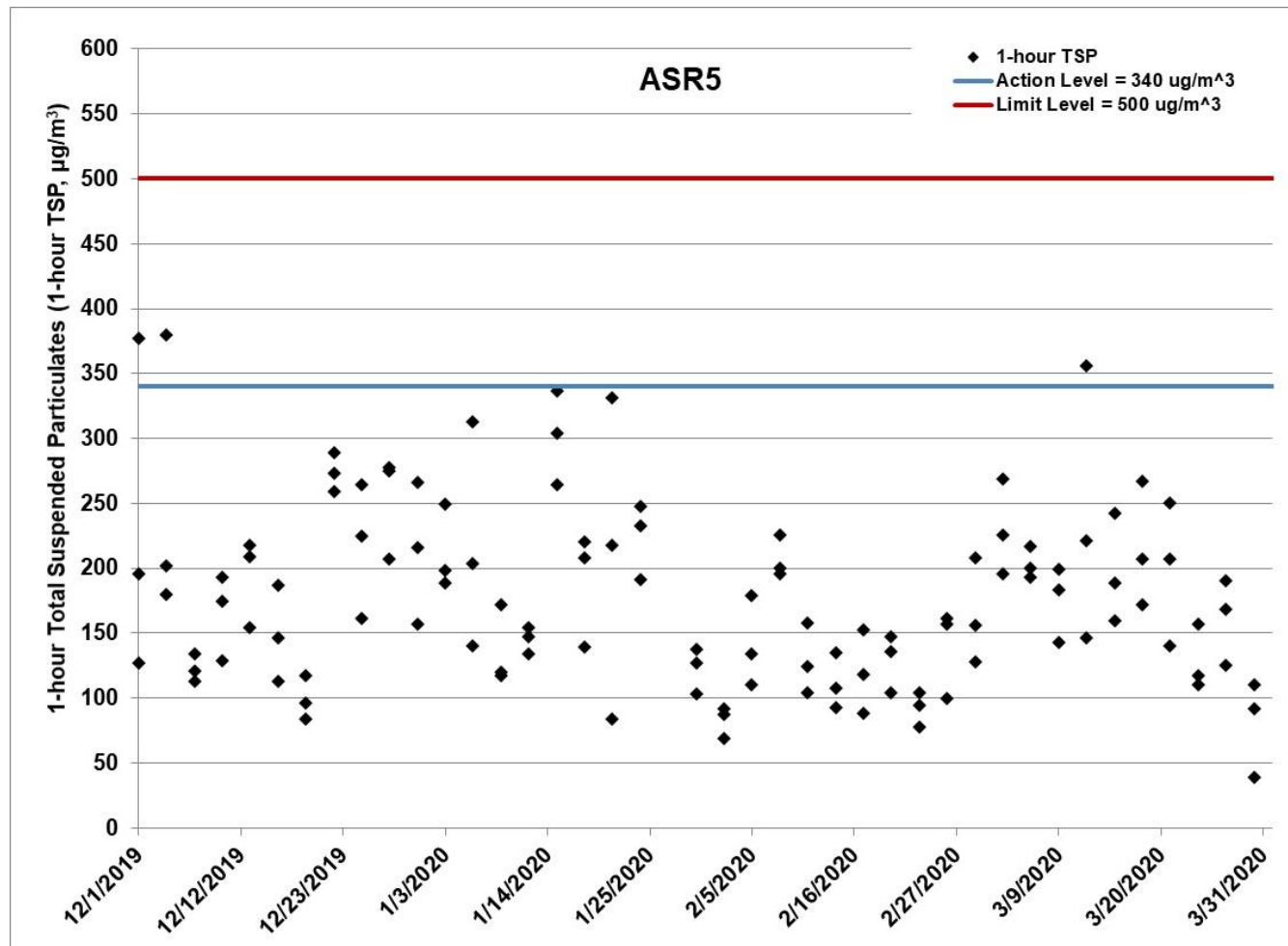


Figure G.4 Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR5 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



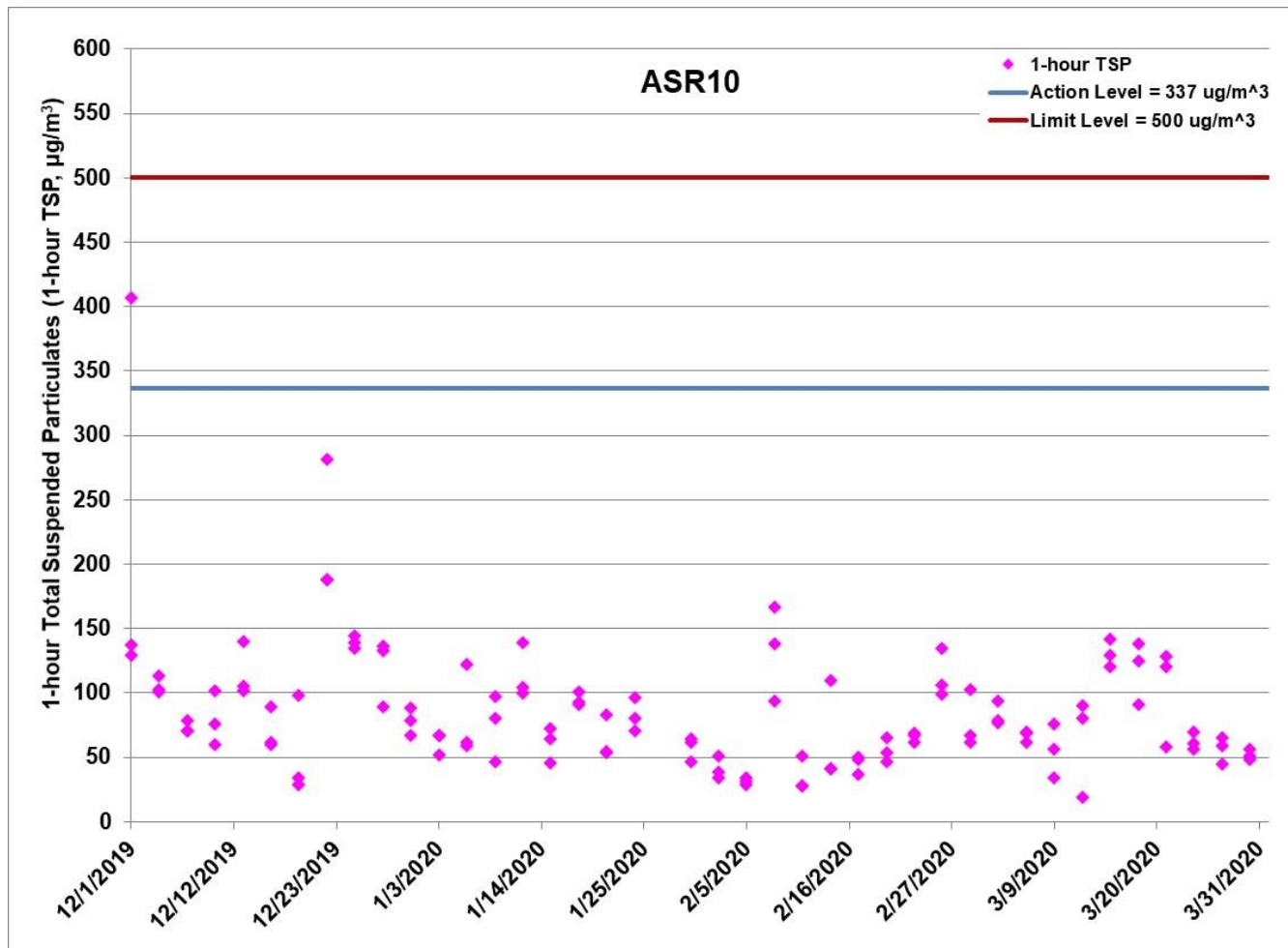


Figure G.5 Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR10 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



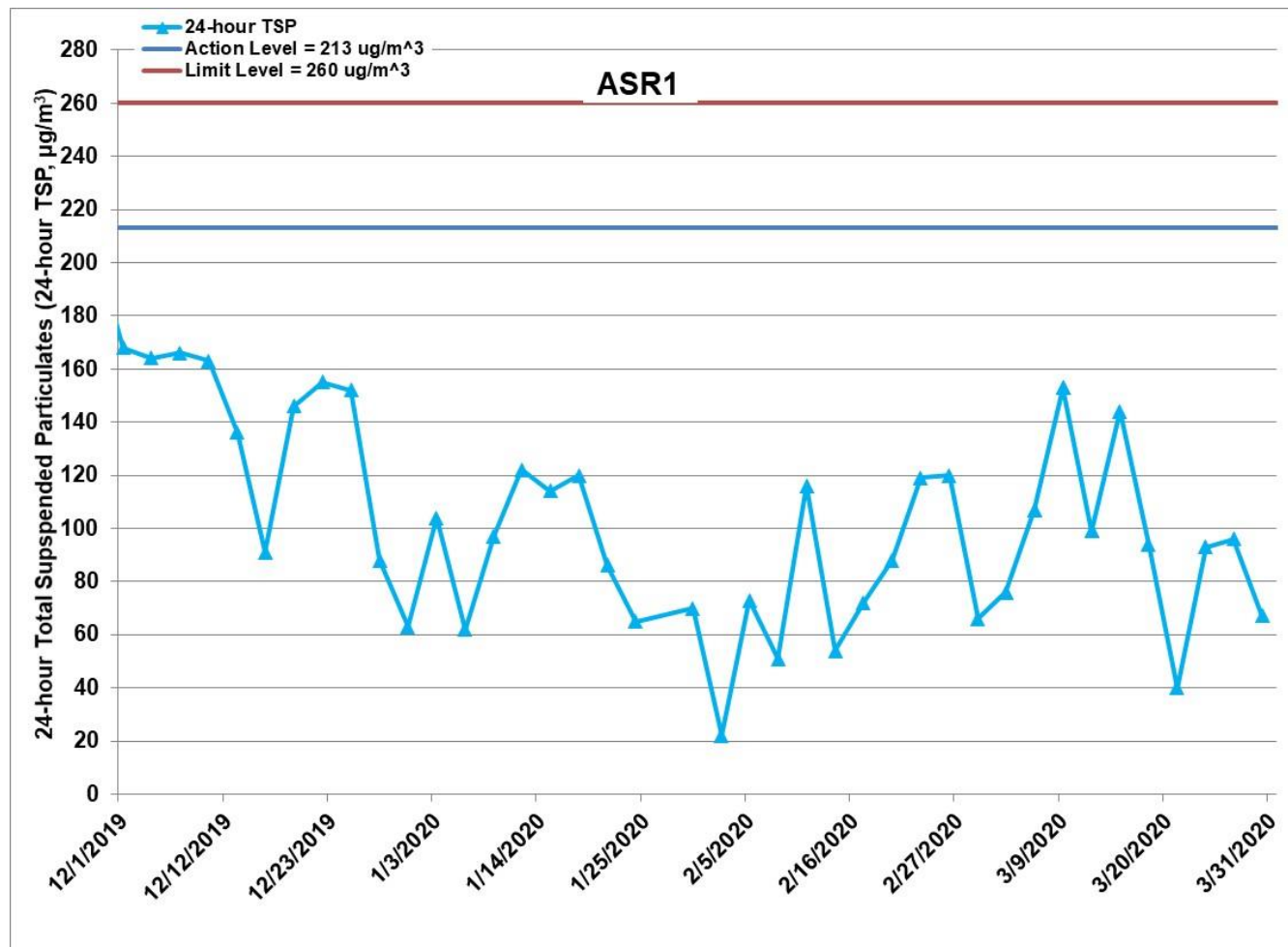


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR1 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 – 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



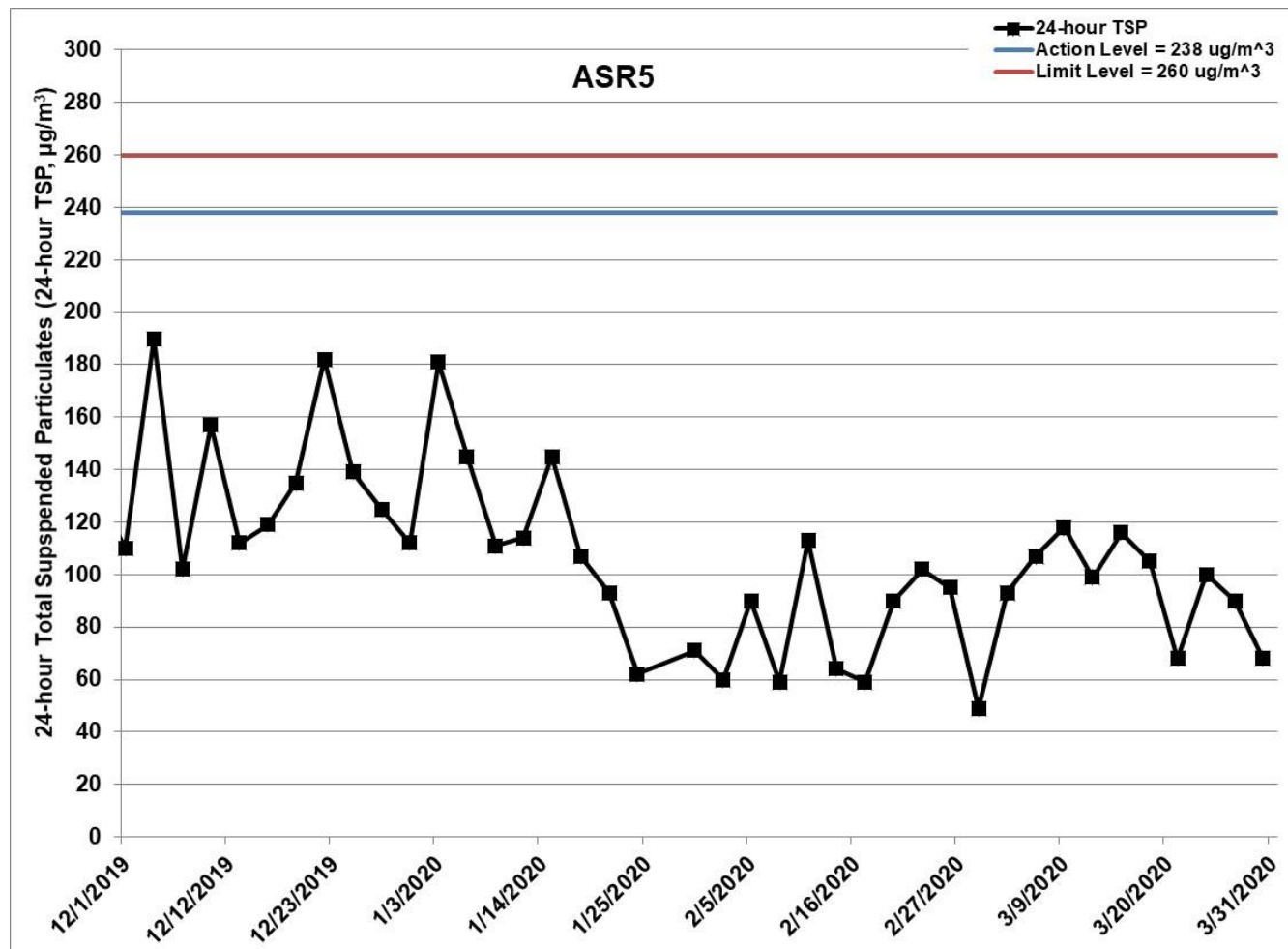


Figure G.7 Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR5 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



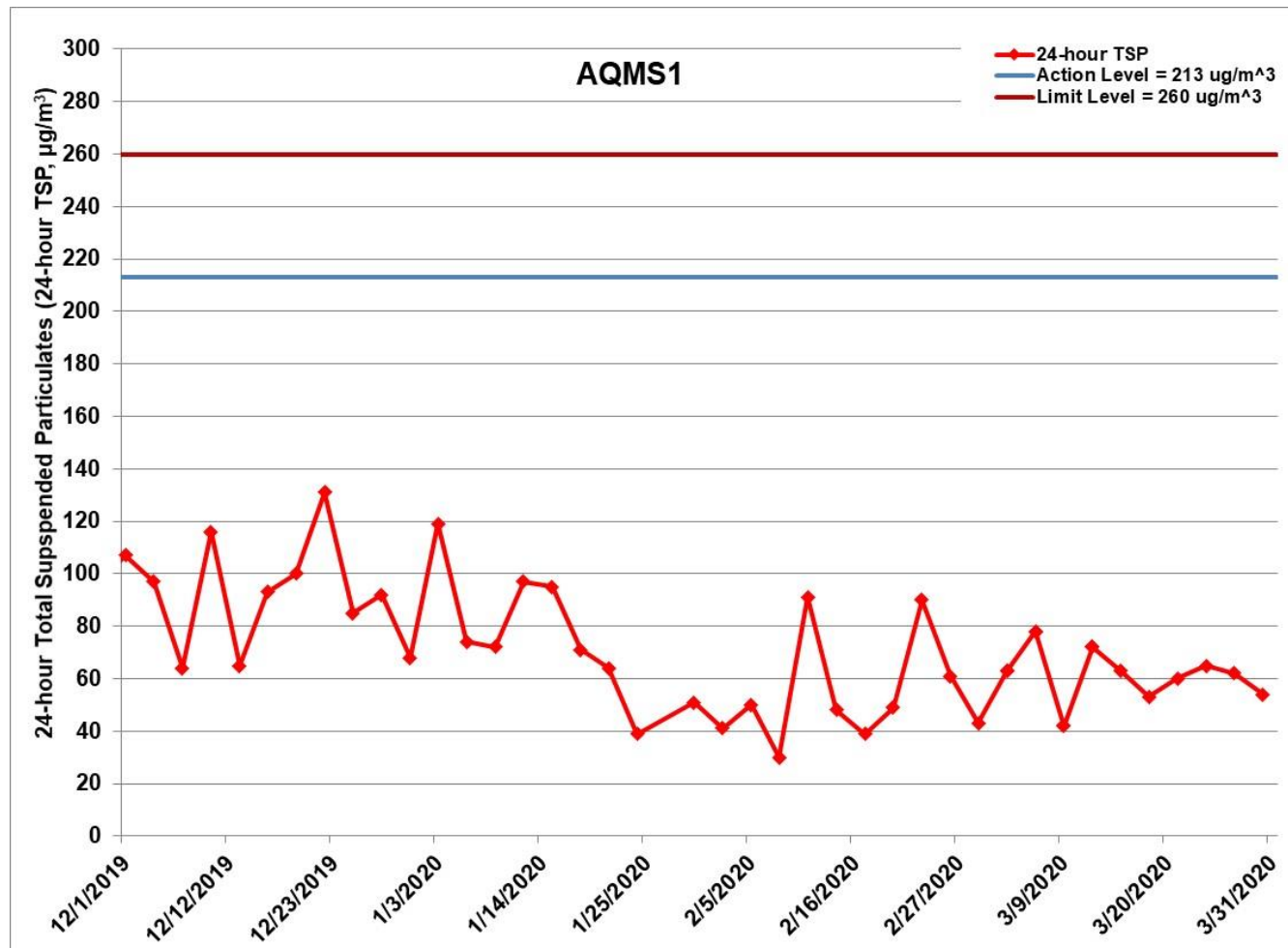


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at AQMS1 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 – 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



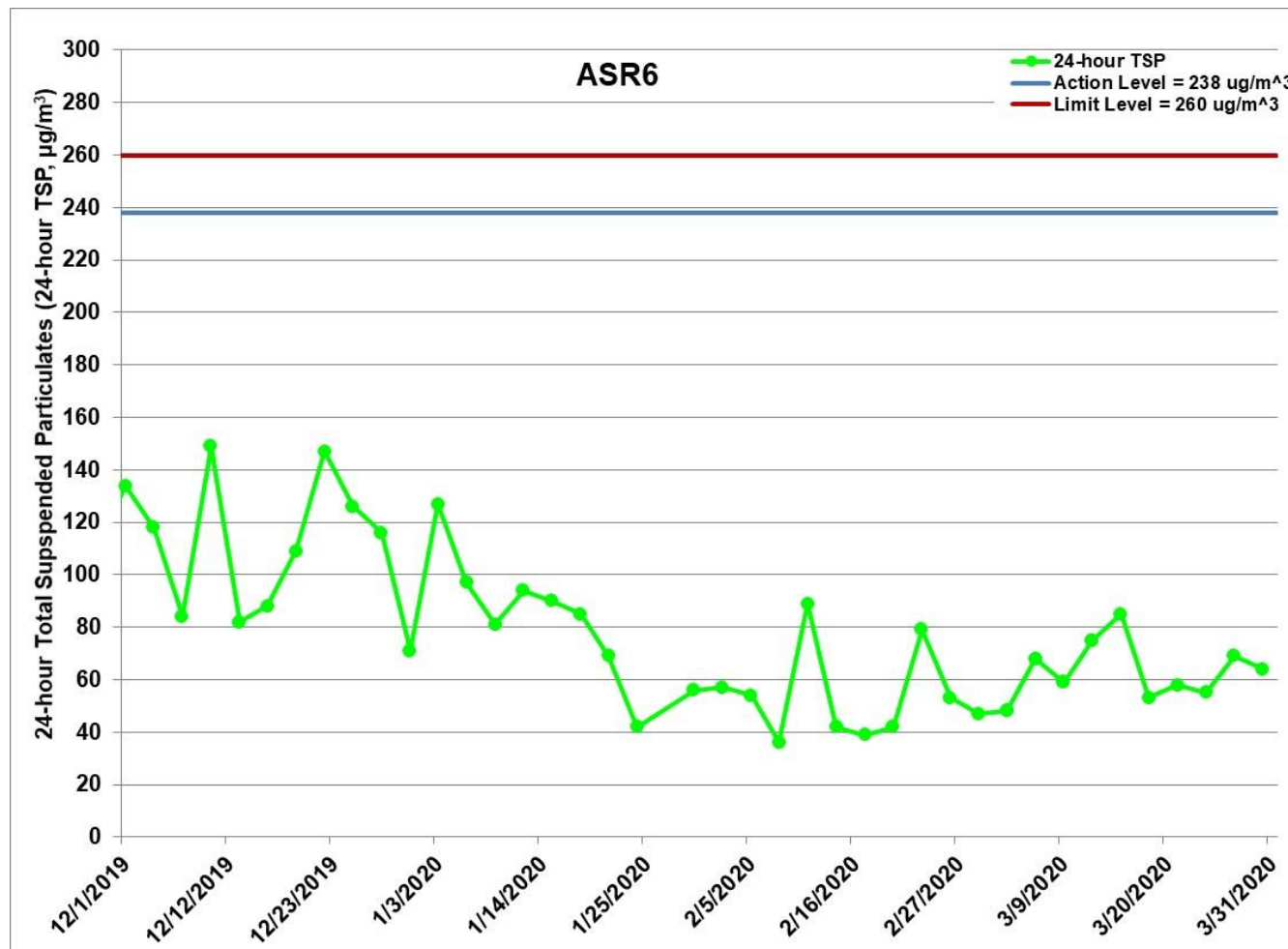


Figure G.9 Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR6 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



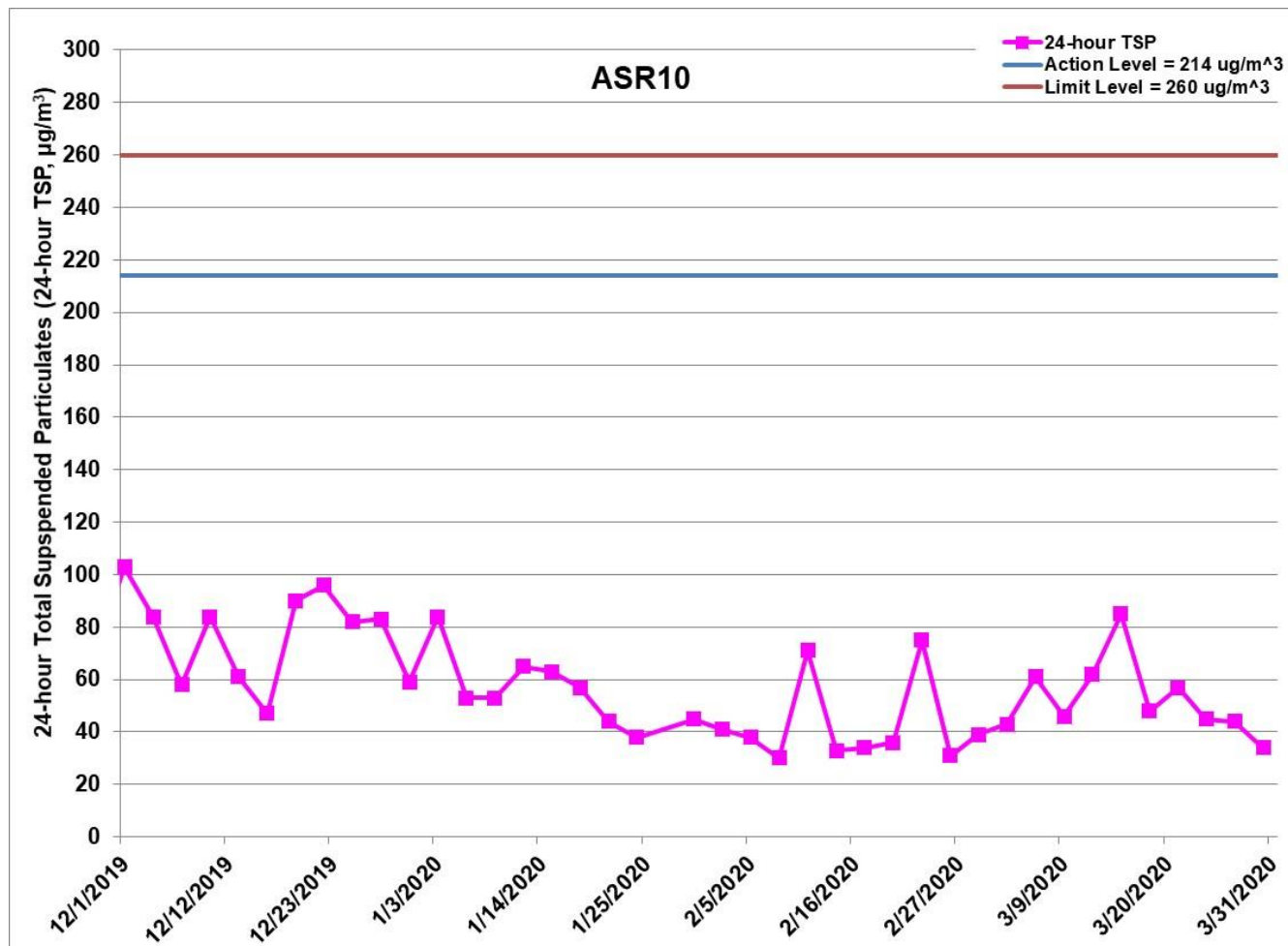


Figure G.10 Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR10 between 1 December 2019 and 30 March 2020 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road and Drainage Works at Northern Landfall and Southern Landfall, UU installation at Northern Landfall and Southern Landfall and Fireboard installation in Tunnel (1/12/2019 - 31/3/2020)

Ref: 0212330_Impact AQM graphs_March 2020.xlsx



Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-03	AQMS1	Sunny	08:49	1-hour TSP	215	ug/m3
TMCLKL	HY/2012/08	2020-03-03	AQMS1	Sunny	09:51	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2020-03-03	AQMS1	Sunny	10:53	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR1	Sunny	08:37	1-hour TSP	261	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR1	Sunny	09:39	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR1	Sunny	10:41	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR10	Sunny	08:03	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR10	Sunny	09:05	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR10	Sunny	10:07	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR5	Sunny	08:25	1-hour TSP	269	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR5	Sunny	09:27	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR5	Sunny	10:29	1-hour TSP	226	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR6	Sunny	08:14	1-hour TSP	197	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR6	Sunny	09:16	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR6	Sunny	10:18	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2020-03-06	AQMS1	Sunny	09:04	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2020-03-06	AQMS1	Sunny	10:06	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2020-03-06	AQMS1	Sunny	11:08	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR1	Sunny	08:53	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR1	Sunny	09:55	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR1	Sunny	10:57	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR10	Sunny	08:18	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR10	Sunny	09:12	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR10	Sunny	10:22	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR5	Sunny	08:42	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR5	Sunny	09:44	1-hour TSP	193	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR5	Sunny	10:46	1-hour TSP	217	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR6	Sunny	08:30	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR6	Sunny	09:32	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR6	Sunny	10:34	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2020-03-09	AQMS1	Sunny	09:01	1-hour TSP	111	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-09	AQMS1	Sunny	10:03	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2020-03-09	AQMS1	Sunny	11:05	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR1	Sunny	08:50	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR1	Sunny	09:52	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR1	Sunny	10:54	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR10	Sunny	08:15	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR10	Sunny	09:17	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR10	Sunny	10:19	1-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR5	Sunny	08:39	1-hour TSP	199	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR5	Sunny	09:41	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR5	Sunny	10:43	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR6	Sunny	08:27	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR6	Sunny	09:29	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR6	Sunny	10:31	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	08:49	1-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	09:51	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	10:53	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	08:37	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	09:39	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	10:41	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	08:03	1-hour TSP	19	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	09:05	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	10:07	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	08:26	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	09:28	1-hour TSP	356	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	10:30	1-hour TSP	221	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR6	Cloudy	08:14	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR6	Cloudy	09:16	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR6	Cloudy	10:18	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-03-15	AQMS1	Sunny	08:56	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2020-03-15	AQMS1	Sunny	09:58	1-hour TSP	136	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-15	AQMS1	Sunny	11:00	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR1	Sunny	08:45	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR1	Sunny	09:47	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR1	Sunny	10:49	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR10	Sunny	08:11	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR10	Sunny	09:13	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR10	Sunny	10:15	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR5	Sunny	08:34	1-hour TSP	242	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR5	Sunny	09:36	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR5	Sunny	10:38	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR6	Sunny	08:22	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR6	Sunny	09:24	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR6	Sunny	10:26	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2020-03-18	AQMS1	Cloudy	08:47	1-hour TSP	225	ug/m3
TMCLKL	HY/2012/08	2020-03-18	AQMS1	Cloudy	09:49	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2020-03-18	AQMS1	Cloudy	10:51	1-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR1	Cloudy	08:36	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR1	Cloudy	09:38	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR1	Cloudy	10:40	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR10	Cloudy	08:00	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR10	Cloudy	09:02	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR10	Cloudy	10:04	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR5	Cloudy	08:24	1-hour TSP	267	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR5	Cloudy	09:26	1-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR5	Cloudy	10:28	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR6	Cloudy	08:12	1-hour TSP	230	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR6	Cloudy	09:14	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR6	Cloudy	10:16	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2020-03-21	AQMS1	Sunny	13:57	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2020-03-21	AQMS1	Sunny	14:59	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2020-03-21	AQMS1	Sunny	16:01	1-hour TSP	136	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-21	ASR1	Sunny	13:46	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR1	Sunny	14:48	1-hour TSP	199	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR1	Sunny	15:50	1-hour TSP	280	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR10	Sunny	13:12	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR10	Sunny	14:14	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR10	Sunny	15:16	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR5	Sunny	13:35	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR5	Sunny	14:37	1-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR5	Sunny	15:39	1-hour TSP	250	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR6	Sunny	13:23	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR6	Sunny	14:25	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR6	Sunny	15:27	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2020-03-24	AQMS1	Sunny	14:04	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2020-03-24	AQMS1	Sunny	15:06	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2020-03-24	AQMS1	Sunny	16:08	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR1	Sunny	13:52	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR1	Sunny	14:54	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR1	Sunny	15:56	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR10	Sunny	13:18	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR10	Sunny	14:20	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR10	Sunny	15:22	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR5	Sunny	13:41	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR5	Sunny	14:43	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR5	Sunny	15:45	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR6	Sunny	13:29	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR6	Sunny	14:31	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR6	Sunny	15:33	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2020-03-27	AQMS1	Sunny	08:59	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2020-03-27	AQMS1	Sunny	10:01	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2020-03-27	AQMS1	Sunny	11:03	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR1	Sunny	08:48	1-hour TSP	116	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-27	ASR1	Sunny	09:50	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR1	Sunny	10:52	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR10	Sunny	08:14	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR10	Sunny	09:16	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR10	Sunny	10:18	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR5	Sunny	08:35	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR5	Sunny	09:37	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR5	Sunny	10:39	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR6	Sunny	08:24	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR6	Sunny	09:26	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR6	Sunny	10:28	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2020-03-30	AQMS1	Cloudy	13:47	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2020-03-30	AQMS1	Cloudy	14:49	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-03-30	AQMS1	Cloudy	15:51	1-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR1	Cloudy	13:25	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR1	Cloudy	14:37	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR1	Cloudy	15:34	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR10	Cloudy	13:00	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR10	Cloudy	14:02	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR10	Cloudy	15:04	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR5	Cloudy	13:23	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR5	Cloudy	14:25	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR5	Cloudy	16:27	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR6	Cloudy	13:12	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR6	Cloudy	14:14	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR6	Cloudy	15:15	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2020-03-03	AQMS1	Sunny	11:55	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR1	Sunny	11:43	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR10	Sunny	11:09	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR5	Sunny	11:31	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2020-03-03	ASR6	Sunny	11:20	24-hour TSP	48	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-06	AQMS1	Sunny	12:10	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR1	Sunny	11:59	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR10	Sunny	11:24	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR5	Sunny	11:48	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2020-03-06	ASR6	Sunny	11:36	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2020-03-09	AQMS1	Sunny	12:07	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR1	Sunny	11:56	24-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR10	Sunny	11:21	24-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR5	Sunny	11:45	24-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2020-03-09	ASR6	Sunny	11:33	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	11:55	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	11:43	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	11:09	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	11:32	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR6	Cloudy	11:20	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2020-03-15	AQMS1	Sunny	12:02	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR1	Sunny	11:51	24-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR10	Sunny	11:17	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR5	Sunny	11:40	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2020-03-15	ASR6	Sunny	11:28	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-03-18	AQMS1	Cloudy	11:53	24-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR1	Cloudy	11:42	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR10	Cloudy	11:06	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR5	Cloudy	11:30	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2020-03-18	ASR6	Cloudy	11:18	24-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2020-03-21	AQMS1	Sunny	17:03	24-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR1	Sunny	16:52	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR10	Sunny	16:18	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR5	Sunny	16:41	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2020-03-21	ASR6	Sunny	16:29	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2020-03-24	AQMS1	Sunny	17:00	24-hour TSP	65	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2020-03-24	ASR1	Sunny	16:58	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR10	Sunny	16:24	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR5	Sunny	16:47	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2020-03-24	ASR6	Sunny	16:35	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2020-03-27	AQMS1	Sunny	12:05	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR1	Sunny	11:54	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR10	Sunny	11:20	24-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR5	Sunny	11:41	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2020-03-27	ASR6	Sunny	11:30	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2020-03-30	AQMS1	Cloudy	16:53	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR1	Cloudy	16:41	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR10	Cloudy	16:06	24-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR5	Cloudy	16:29	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2020-03-30	ASR6	Cloudy	14:18	24-hour TSP	64	ug/m3

Appendix H

Meteorological Data

Meteorological Data for Impact Monitoring in the reporting period

Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
20/03/03	0:00	2.7	94
20/03/03	1:00	2.7	85
20/03/03	2:00	2.2	60
20/03/03	3:00	3.6	100
20/03/03	4:00	3.6	99
20/03/03	5:00	2.7	85
20/03/03	6:00	2.2	96
20/03/03	7:00	2.2	95
20/03/03	8:00	2.7	97
20/03/03	9:00	3.1	87
20/03/03	10:00	3.1	88
20/03/03	11:00	3.1	116
20/03/03	12:00	3.6	84
20/03/03	13:00	3.6	86
20/03/03	14:00	2.7	94
20/03/03	15:00	2.7	128
20/03/03	16:00	2.7	109
20/03/03	17:00	2.7	97
20/03/03	18:00	2.7	89
20/03/03	19:00	2.2	86
20/03/03	20:00	1.8	88
20/03/03	21:00	1.8	98
20/03/03	22:00	0.4	79
20/03/03	23:00	0.4	80
20/03/04	0:00	0	93
20/03/04	1:00	0.4	21
20/03/04	2:00	0.4	16
20/03/04	3:00	0.4	27
20/03/04	4:00	0.9	11
20/03/04	5:00	1.3	13
20/03/04	6:00	1.3	43
20/03/04	7:00	0.9	95
20/03/04	8:00	0.9	105
20/03/04	9:00	0.9	135
20/03/04	10:00	0.4	145
20/03/04	11:00	0.9	156
20/03/04	12:00	0.4	127
20/03/04	13:00	0.4	130
20/03/04	14:00	0.4	145
20/03/04	15:00	1.8	289
20/03/04	16:00	3.6	313
20/03/04	17:00	4	340
20/03/04	18:00	3.1	337
20/03/04	19:00	2.2	30
20/03/04	20:00	2.2	30
20/03/04	21:00	1.8	14
20/03/04	22:00	1.8	26
20/03/04	23:00	0.4	73
20/03/06	0:00	1.8	65
20/03/06	1:00	2.2	79
20/03/06	2:00	1.8	70
20/03/06	3:00	2.2	64
20/03/06	4:00	3.1	69
20/03/06	5:00	1.8	69
20/03/06	6:00	1.3	36

20/03/06	7:00	1.8	70
20/03/06	8:00	2.2	93
20/03/06	9:00	2.7	84
20/03/06	10:00	2.2	66
20/03/06	11:00	2.7	80
20/03/06	12:00	2.2	105
20/03/06	13:00	2.7	102
20/03/06	14:00	2.7	90
20/03/06	15:00	2.7	87
20/03/06	16:00	3.1	80
20/03/06	17:00	2.7	93
20/03/06	18:00	2.7	82
20/03/06	19:00	2.7	96
20/03/06	20:00	2.7	79
20/03/06	21:00	2.2	83
20/03/06	22:00	2.7	85
20/03/06	23:00	1.8	79
20/03/07	0:00	1.8	57
20/03/07	1:00	1.8	75
20/03/07	2:00	1.3	40
20/03/07	3:00	1.3	47
20/03/07	4:00	1.3	35
20/03/07	5:00	1.3	34
20/03/07	6:00	1.8	78
20/03/07	7:00	1.3	74
20/03/07	8:00	1.8	38
20/03/07	9:00	1.8	54
20/03/07	10:00	1.8	50
20/03/07	11:00	1.3	66
20/03/07	12:00	1.3	35
20/03/07	13:00	1.3	37
20/03/07	14:00	1.3	45
20/03/07	15:00	1.3	66
20/03/07	16:00	0.9	39
20/03/07	17:00	0.9	57
20/03/07	18:00	1.3	56
20/03/07	19:00	0.9	42
20/03/07	20:00	1.3	49
20/03/07	21:00	0.9	48
20/03/07	22:00	0.9	26
20/03/07	23:00	0.9	21
20/03/09	0:00	0.9	43
20/03/09	1:00	0.9	44
20/03/09	2:00	0.9	58
20/03/09	3:00	1.3	47
20/03/09	4:00	0.9	34
20/03/09	5:00	1.3	90
20/03/09	6:00	1.3	62
20/03/09	7:00	1.3	66
20/03/09	8:00	1.3	65
20/03/09	9:00	1.3	79
20/03/09	10:00	1.8	23
20/03/09	11:00	1.8	92
20/03/09	12:00	1.8	100
20/03/09	13:00	1.3	94
20/03/09	14:00	1.3	91
20/03/09	15:00	0.9	101

20/03/09	16:00	0.4	17
20/03/09	17:00	0.4	29
20/03/09	18:00	0.9	28
20/03/09	19:00	0.4	25
20/03/09	20:00	0.4	17
20/03/09	21:00	0.4	59
20/03/09	22:00	0.4	59
20/03/09	23:00	0	181
20/03/10	0:00	0	188
20/03/10	1:00	1.3	264
20/03/10	2:00	0.9	280
20/03/10	3:00	2.7	325
20/03/10	4:00	2.2	339
20/03/10	5:00	0.9	285
20/03/10	6:00	0.9	291
20/03/10	7:00	1.8	22
20/03/10	8:00	1.8	14
20/03/10	9:00	2.2	14
20/03/10	10:00	2.2	20
20/03/10	11:00	2.2	327
20/03/10	12:00	2.7	306
20/03/10	13:00	2.7	318
20/03/10	14:00	1.8	288
20/03/10	15:00	2.2	275
20/03/10	16:00	1.3	267
20/03/10	17:00	1.8	306
20/03/10	18:00	1.8	322
20/03/10	19:00	1.3	358
20/03/10	20:00	1.3	23
20/03/10	21:00	3.1	33
20/03/10	22:00	4	27
20/03/10	23:00	4	12
20/03/12	0:00	2.2	38
20/03/12	1:00	2.7	63
20/03/12	2:00	4	91
20/03/12	3:00	3.6	74
20/03/12	4:00	2.7	79
20/03/12	5:00	2.7	73
20/03/12	6:00	2.2	70
20/03/12	7:00	2.7	61
20/03/12	8:00	2.2	72
20/03/12	9:00	2.7	72
20/03/12	10:00	2.7	87
20/03/12	11:00	2.2	76
20/03/12	12:00	1.8	70
20/03/12	13:00	0.9	36
20/03/12	14:00	0.9	99
20/03/12	15:00	0.9	60
20/03/12	16:00	1.3	39
20/03/12	17:00	1.3	49
20/03/12	18:00	1.3	56
20/03/12	19:00	1.3	56
20/03/12	20:00	0.9	39
20/03/12	21:00	1.3	34
20/03/12	22:00	0.9	41
20/03/12	23:00	1.3	29
20/03/13	0:00	1.3	37

20/03/13	1:00	1.3	35
20/03/13	2:00	1.3	56
20/03/13	3:00	0.9	56
20/03/13	4:00	1.3	51
20/03/13	5:00	1.3	19
20/03/13	6:00	1.8	15
20/03/13	7:00	1.8	54
20/03/13	8:00	1.3	51
20/03/13	9:00	1.8	40
20/03/13	10:00	2.2	52
20/03/13	11:00	1.8	11
20/03/13	12:00	1.8	46
20/03/13	13:00	1.8	35
20/03/13	14:00	1.8	50
20/03/13	15:00	1.8	40
20/03/13	16:00	1.3	38
20/03/13	17:00	0.9	41
20/03/13	18:00	1.3	36
20/03/13	19:00	0.9	50
20/03/13	20:00	0.9	52
20/03/13	21:00	1.3	43
20/03/13	22:00	0.9	38
20/03/13	23:00	0	93
20/03/15	0:00	0.9	43
20/03/15	1:00	1.8	29
20/03/15	2:00	1.3	23
20/03/15	3:00	0.4	24
20/03/15	4:00	0.9	22
20/03/15	5:00	0.9	3
20/03/15	6:00	1.3	28
20/03/15	7:00	1.8	11
20/03/15	8:00	1.8	18
20/03/15	9:00	0.9	32
20/03/15	10:00	1.3	129
20/03/15	11:00	1.3	141
20/03/15	12:00	0.9	124
20/03/15	13:00	1.8	139
20/03/15	14:00	2.7	131
20/03/15	15:00	3.1	123
20/03/15	16:00	2.7	115
20/03/15	17:00	2.2	86
20/03/15	18:00	2.7	96
20/03/15	19:00	1.8	69
20/03/15	20:00	1.8	97
20/03/15	21:00	2.2	96
20/03/15	22:00	1.3	73
20/03/15	23:00	0.9	51
20/03/16	0:00	1.3	45
20/03/16	1:00	1.3	73
20/03/16	2:00	1.3	45
20/03/16	3:00	1.3	69
20/03/16	4:00	1.3	74
20/03/16	5:00	1.8	63
20/03/16	6:00	1.8	35
20/03/16	7:00	2.2	58
20/03/16	8:00	2.2	71
20/03/16	9:00	2.7	90

20/03/16	10:00	3.1	100
20/03/16	11:00	3.6	93
20/03/16	12:00	3.1	112
20/03/16	13:00	3.6	139
20/03/16	14:00	3.1	115
20/03/16	15:00	3.1	112
20/03/16	16:00	2.7	100
20/03/16	17:00	2.7	81
20/03/16	18:00	2.2	90
20/03/16	19:00	2.2	65
20/03/16	20:00	1.3	42
20/03/16	21:00	1.8	41
20/03/16	22:00	1.3	66
20/03/16	23:00	1.3	61
20/03/18	0:00	1.3	79
20/03/18	1:00	0.4	64
20/03/18	2:00	0.4	75
20/03/18	3:00	0.4	15
20/03/18	4:00	0.9	54
20/03/18	5:00	1.3	88
20/03/18	6:00	0.9	52
20/03/18	7:00	0.9	83
20/03/18	8:00	0.9	97
20/03/18	9:00	0.9	85
20/03/18	10:00	2.2	347
20/03/18	11:00	1.3	52
20/03/18	12:00	0.9	41
20/03/18	13:00	0.9	53
20/03/18	14:00	1.3	56
20/03/18	15:00	2.2	53
20/03/18	16:00	1.3	100
20/03/18	17:00	1.8	87
20/03/18	18:00	0.9	55
20/03/18	19:00	0	44
20/03/18	20:00	0.4	91
20/03/18	21:00	0	87
20/03/18	22:00	0	85
20/03/18	23:00	0	70
20/03/19	0:00	0	68
20/03/19	1:00	0	70
20/03/19	2:00	0.4	70
20/03/19	3:00	0.4	66
20/03/19	4:00	0.9	33
20/03/19	5:00	0.9	81
20/03/19	6:00	0.4	90
20/03/19	7:00	0.9	74
20/03/19	8:00	1.3	71
20/03/19	9:00	0.9	56
20/03/19	10:00	0.9	35
20/03/19	11:00	0.4	42
20/03/19	12:00	0	76
20/03/19	13:00	0.9	324
20/03/19	14:00	0.9	14
20/03/19	15:00	1.3	14
20/03/19	16:00	1.8	18
20/03/19	17:00	1.8	23
20/03/19	18:00	1.3	55

20/03/19	19:00	0.9	44
20/03/19	20:00	0.4	13
20/03/19	21:00	0.4	248
20/03/19	22:00	0	245
20/03/19	23:00	0	249
20/03/21	0:00	1.3	98
20/03/21	1:00	1.3	96
20/03/21	2:00	0.4	60
20/03/21	3:00	0.9	70
20/03/21	4:00	0.4	70
20/03/21	5:00	0.9	39
20/03/21	6:00	1.3	98
20/03/21	7:00	1.3	57
20/03/21	8:00	1.3	93
20/03/21	9:00	0.9	40
20/03/21	10:00	1.3	117
20/03/21	11:00	1.3	87
20/03/21	12:00	0.9	56
20/03/21	13:00	1.3	99
20/03/21	14:00	1.3	53
20/03/21	15:00	0.9	54
20/03/21	16:00	0.9	47
20/03/21	17:00	0.9	41
20/03/21	18:00	0.9	37
20/03/21	19:00	0.4	49
20/03/21	20:00	0.4	40
20/03/21	21:00	0.4	41
20/03/21	22:00	0.4	43
20/03/21	23:00	0.4	27
20/03/22	0:00	0.4	26
20/03/22	1:00	0.4	26
20/03/22	2:00	0	28
20/03/22	3:00	0	22
20/03/22	4:00	0	32
20/03/22	5:00	0	65
20/03/22	6:00	0	69
20/03/22	7:00	0	71
20/03/22	8:00	0	157
20/03/22	9:00	0.9	134
20/03/22	10:00	0.4	146
20/03/22	11:00	1.3	213
20/03/22	12:00	1.3	163
20/03/22	13:00	1.3	197
20/03/22	14:00	1.3	209
20/03/22	15:00	1.3	120
20/03/22	16:00	0.9	36
20/03/22	17:00	0.9	72
20/03/22	18:00	0.9	78
20/03/22	19:00	0.9	70
20/03/22	20:00	0.4	92
20/03/22	21:00	0	71
20/03/22	22:00	0	37
20/03/22	23:00	0	58
20/03/24	0:00	2.2	91
20/03/24	1:00	1.8	88
20/03/24	2:00	2.7	93
20/03/24	3:00	2.7	98

20/03/24	4:00	2.2	95
20/03/24	5:00	2.7	94
20/03/24	6:00	2.7	59
20/03/24	7:00	2.2	85
20/03/24	8:00	2.2	81
20/03/24	9:00	2.7	94
20/03/24	10:00	2.7	91
20/03/24	11:00	2.2	91
20/03/24	12:00	1.8	97
20/03/24	13:00	1.3	92
20/03/24	14:00	1.3	77
20/03/24	15:00	1.3	99
20/03/24	16:00	0.9	95
20/03/24	17:00	1.3	53
20/03/24	18:00	1.3	44
20/03/24	19:00	1.8	76
20/03/24	20:00	2.2	58
20/03/24	21:00	2.7	93
20/03/24	22:00	2.2	79
20/03/24	23:00	2.2	90
20/03/25	0:00	2.2	80
20/03/25	1:00	2.7	101
20/03/25	2:00	2.2	82
20/03/25	3:00	2.2	82
20/03/25	4:00	2.2	95
20/03/25	5:00	2.7	93
20/03/25	6:00	2.2	73
20/03/25	7:00	1.8	62
20/03/25	8:00	2.2	67
20/03/25	9:00	2.7	87
20/03/25	10:00	3.1	93
20/03/25	11:00	2.2	109
20/03/25	12:00	2.7	137
20/03/25	13:00	1.8	79
20/03/25	14:00	1.8	93
20/03/25	15:00	1.8	87
20/03/25	16:00	1.3	79
20/03/25	17:00	1.3	58
20/03/25	18:00	1.3	34
20/03/25	19:00	1.8	55
20/03/25	20:00	1.8	40
20/03/25	21:00	1.3	54
20/03/25	22:00	0.9	42
20/03/25	23:00	0.9	65
20/03/27	0:00	0	97
20/03/27	1:00	0.4	14
20/03/27	2:00	0.9	44
20/03/27	3:00	0.9	23
20/03/27	4:00	0.4	13
20/03/27	5:00	0.4	59
20/03/27	6:00	0	17
20/03/27	7:00	0.9	40
20/03/27	8:00	0.9	41
20/03/27	9:00	0.9	71
20/03/27	10:00	1.8	81
20/03/27	11:00	1.8	95
20/03/27	12:00	3.6	144

20/03/27	13:00	2.7	88
20/03/27	14:00	2.2	105
20/03/27	15:00	1.8	97
20/03/27	16:00	1.8	93
20/03/27	17:00	1.8	101
20/03/27	18:00	1.3	62
20/03/27	19:00	0.9	74
20/03/27	20:00	0	59
20/03/27	21:00	0	63
20/03/27	22:00	0.4	96
20/03/27	23:00	0.9	320
20/03/28	0:00	1.3	72
20/03/28	1:00	1.3	74
20/03/28	2:00	0.9	32
20/03/28	3:00	0.4	46
20/03/28	4:00	0	42
20/03/28	5:00	0.4	32
20/03/28	6:00	0.4	319
20/03/28	7:00	0.4	2
20/03/28	8:00	1.3	81
20/03/28	9:00	0.4	162
20/03/28	10:00	0.9	141
20/03/28	11:00	1.3	258
20/03/28	12:00	3.1	292
20/03/28	13:00	3.6	321
20/03/28	14:00	0.9	309
20/03/28	15:00	0.9	261
20/03/28	16:00	1.8	299
20/03/28	17:00	0.9	280
20/03/28	18:00	0	274
20/03/28	19:00	0.4	193
20/03/28	20:00	0	150
20/03/28	21:00	0.9	51
20/03/28	22:00	1.3	29
20/03/28	23:00	1.3	34
20/03/30	0:00	3.1	68
20/03/30	1:00	3.1	96
20/03/30	2:00	3.1	56
20/03/30	3:00	2.7	69
20/03/30	4:00	2.7	66
20/03/30	5:00	2.2	75
20/03/30	6:00	1.3	70
20/03/30	7:00	0.9	101
20/03/30	8:00	0.9	81
20/03/30	9:00	0	101
20/03/30	10:00	0	139
20/03/30	11:00	0	236
20/03/30	12:00	0.9	204
20/03/30	13:00	2.2	288
20/03/30	14:00	0.9	282
20/03/30	15:00	0.4	202
20/03/30	16:00	0.4	199
20/03/30	17:00	0.4	141
20/03/30	18:00	0.4	128
20/03/30	19:00	0	266
20/03/30	20:00	0	79
20/03/30	21:00	0.4	18

20/03/30	22:00	0.4	27
20/03/30	23:00	0	12
20/03/31	0:00	0	328
20/03/31	1:00	0	342
20/03/31	2:00	0	27
20/03/31	3:00	0.9	42
20/03/31	4:00	0	46
20/03/31	5:00	0.4	94
20/03/31	6:00	2.2	93
20/03/31	7:00	2.2	84
20/03/31	8:00	0.9	97
20/03/31	9:00	0	171
20/03/31	10:00	0.4	109
20/03/31	11:00	0	137
20/03/31	12:00	0.4	258
20/03/31	13:00	0	224
20/03/31	14:00	0	226
20/03/31	15:00	0	238
20/03/31	16:00	0	297
20/03/31	17:00	1.3	298
20/03/31	18:00	1.8	288
20/03/31	19:00	1.8	283
20/03/31	20:00	1.8	299
20/03/31	21:00	2.2	310
20/03/31	22:00	0.4	303
20/03/31	23:00	1.8	319

Appendix I

Impact Dolphin Monitoring Survey

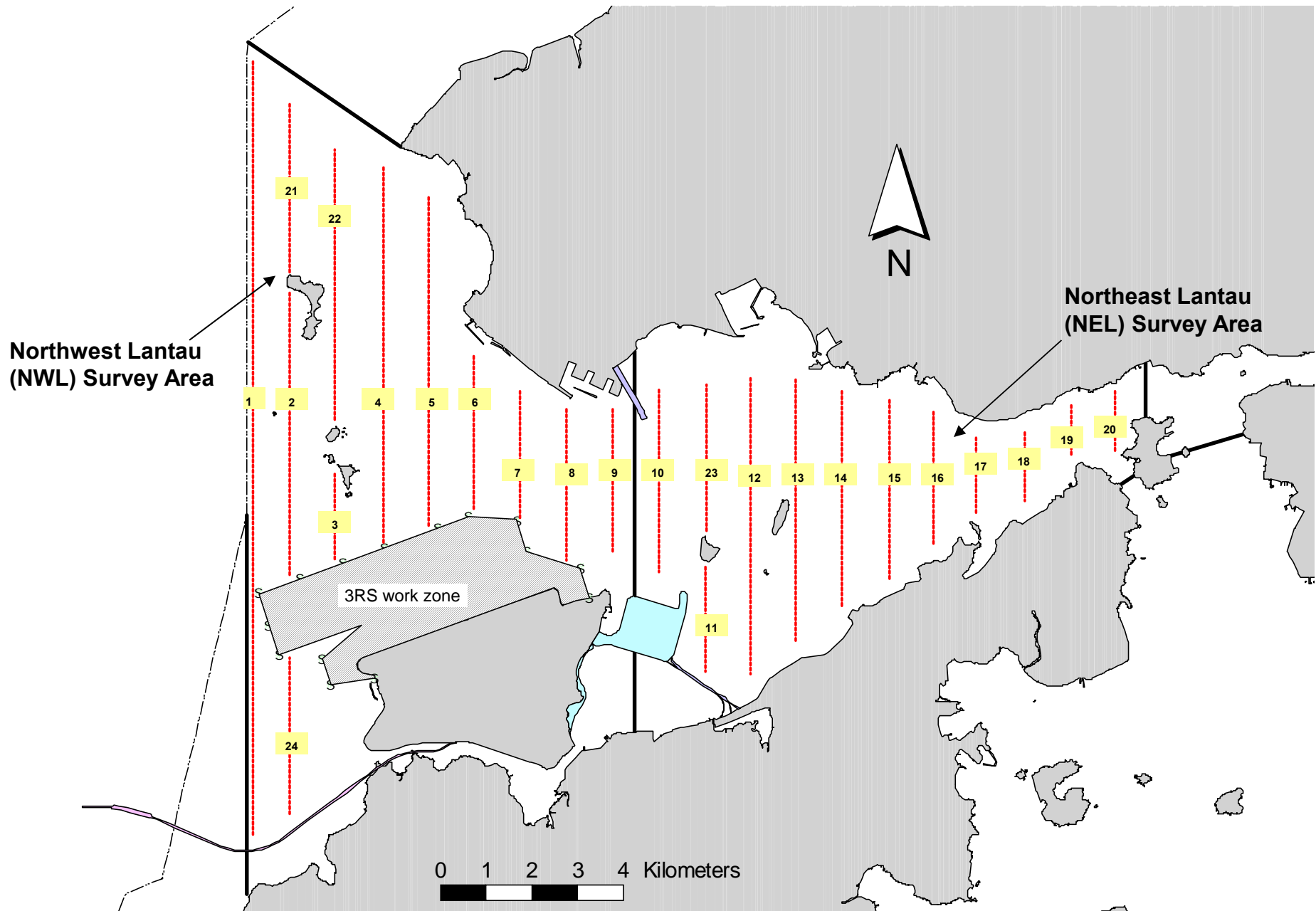


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

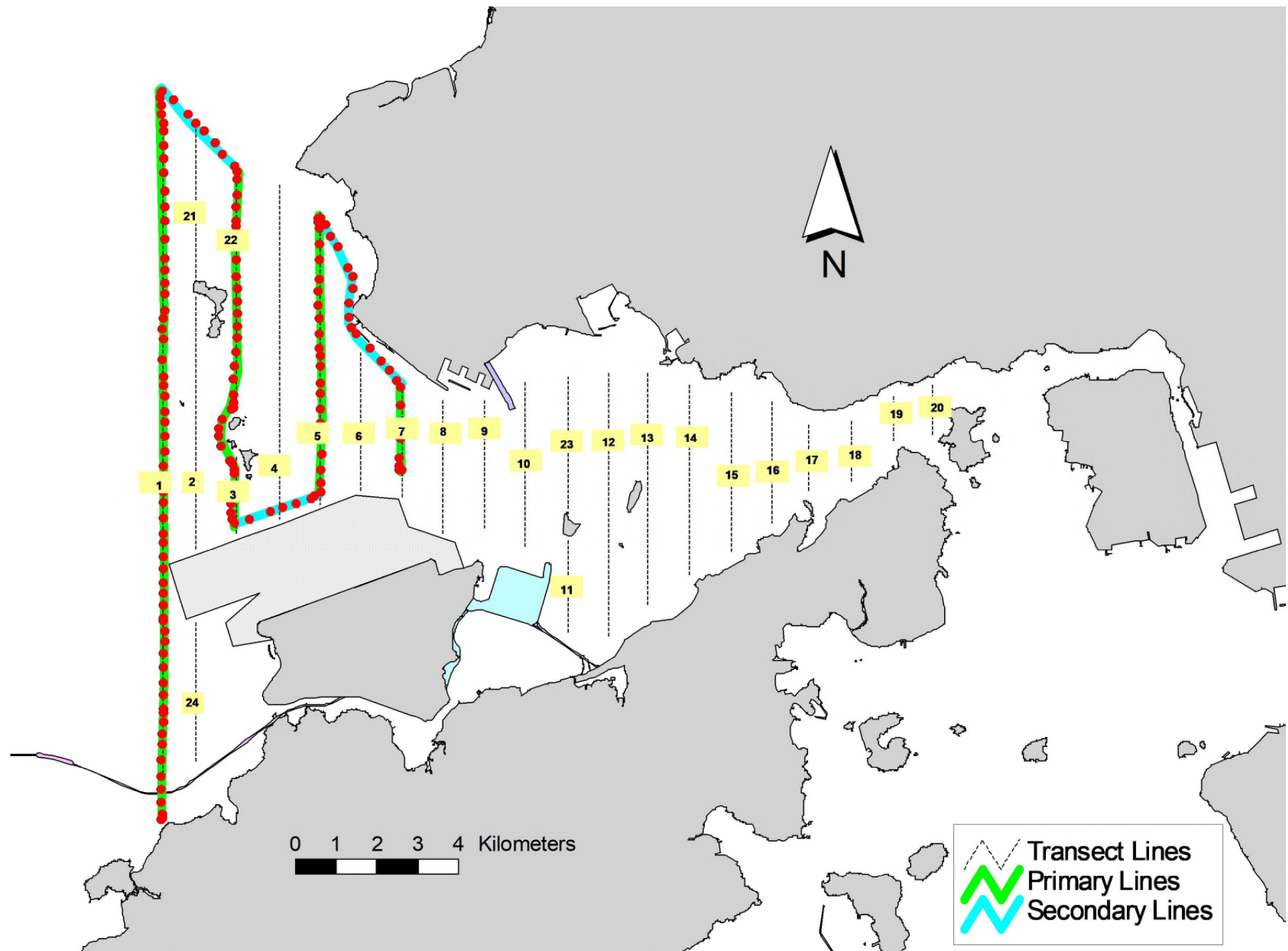


Figure 2. Survey Route on March 3rd, 2020

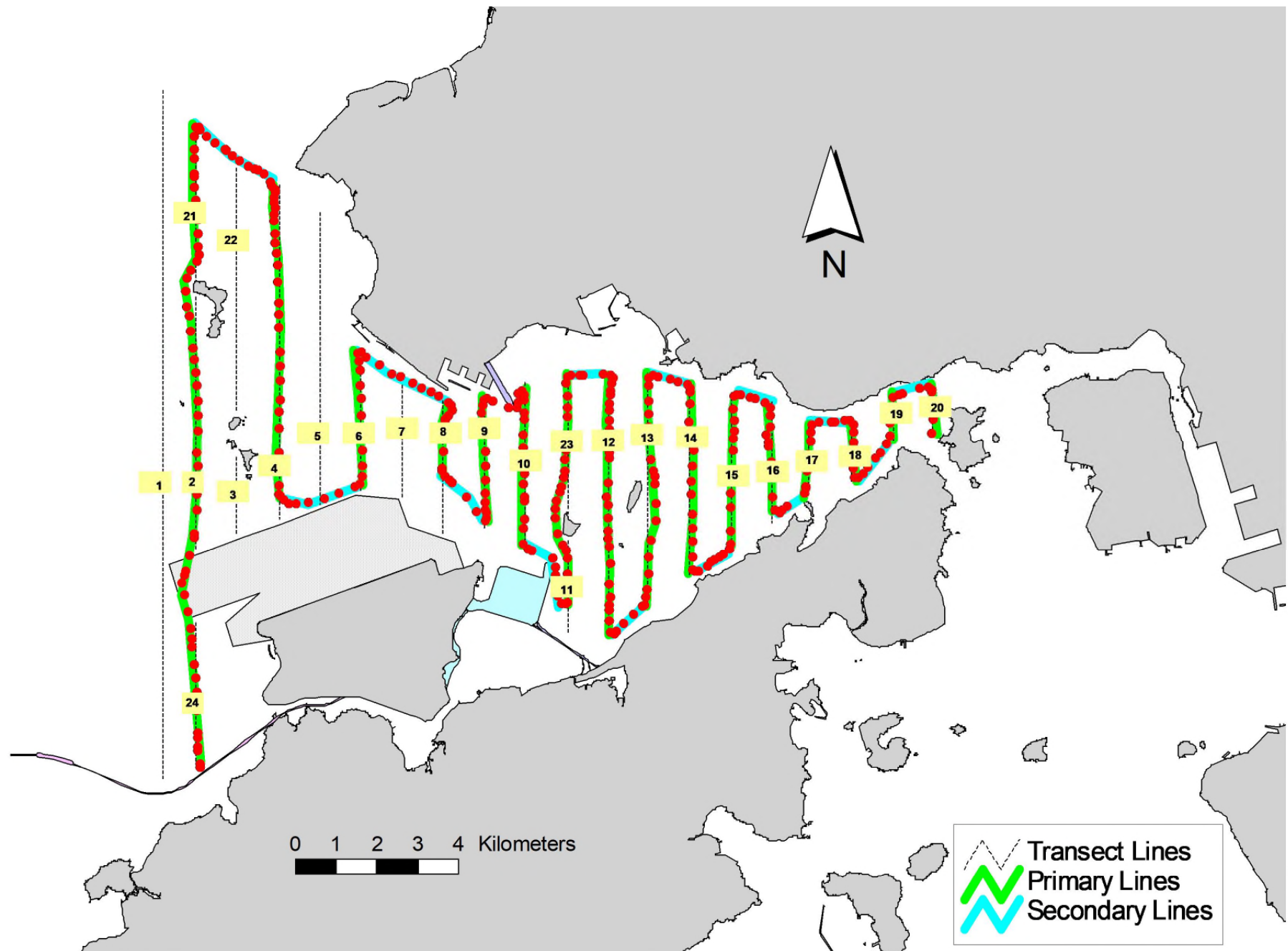


Figure 3. Survey Route on March 9th, 2020

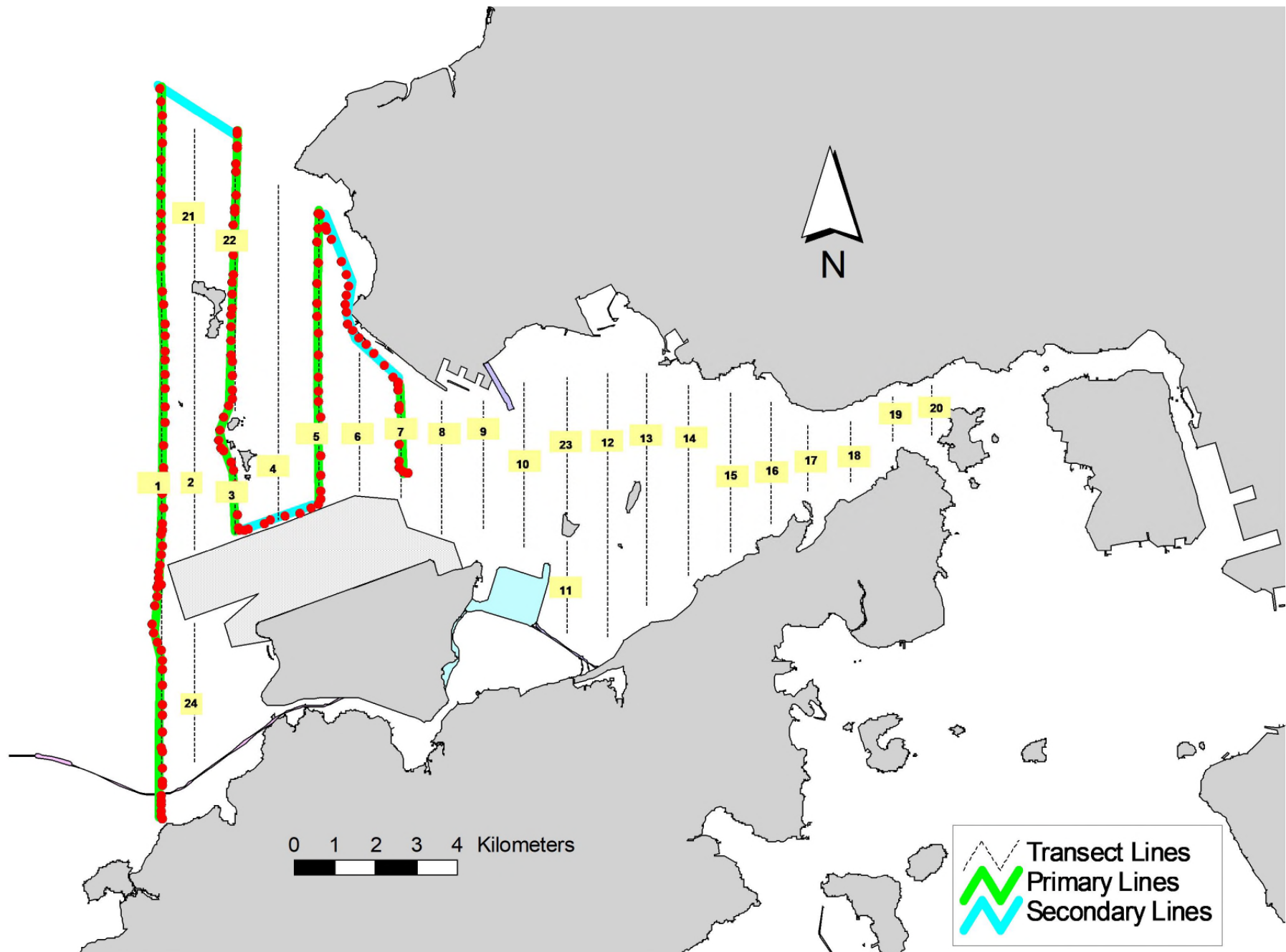


Figure 4. Survey Route on March 18th, 2020

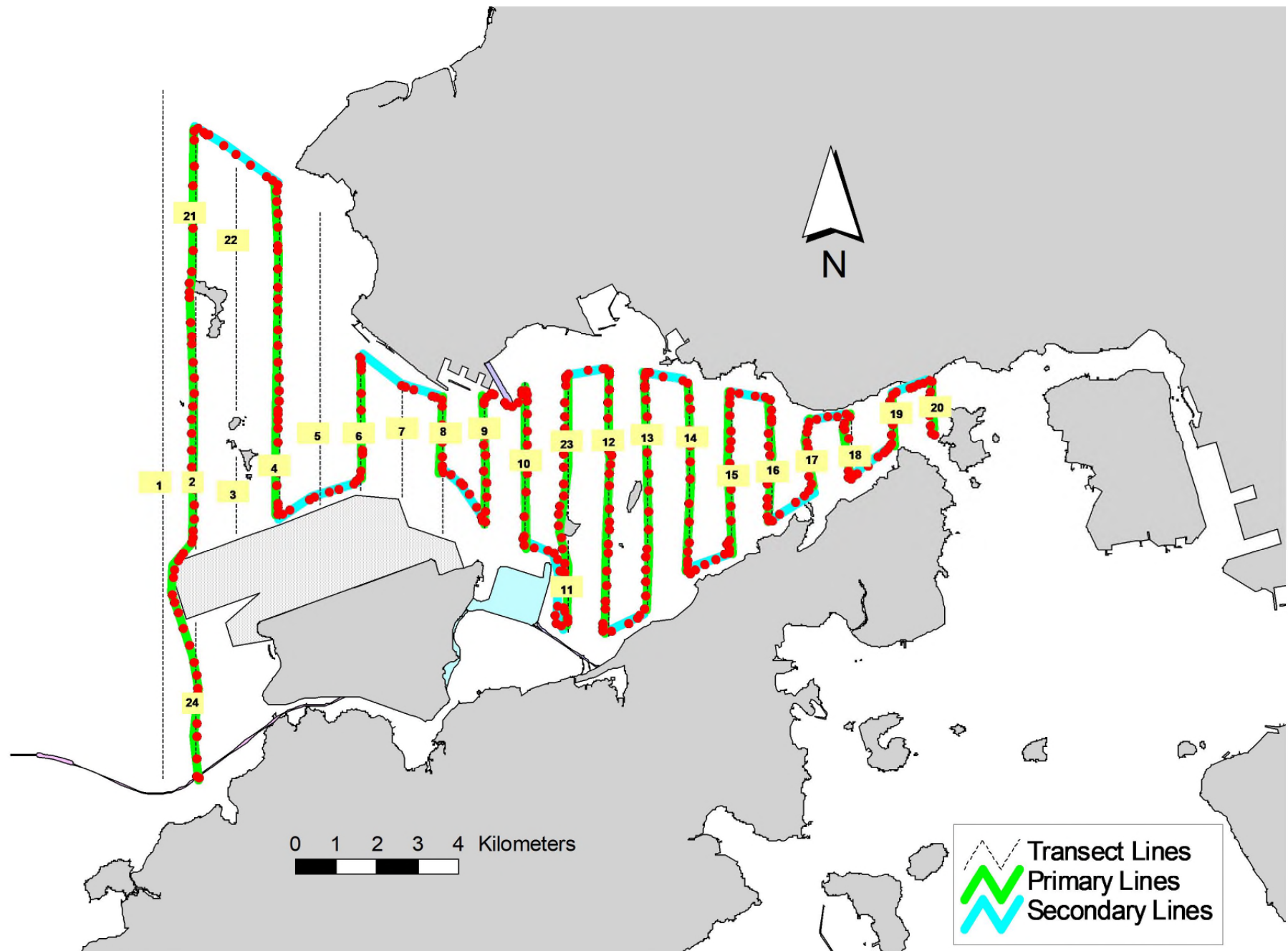


Figure 5. Survey Route on March 25th, 2020

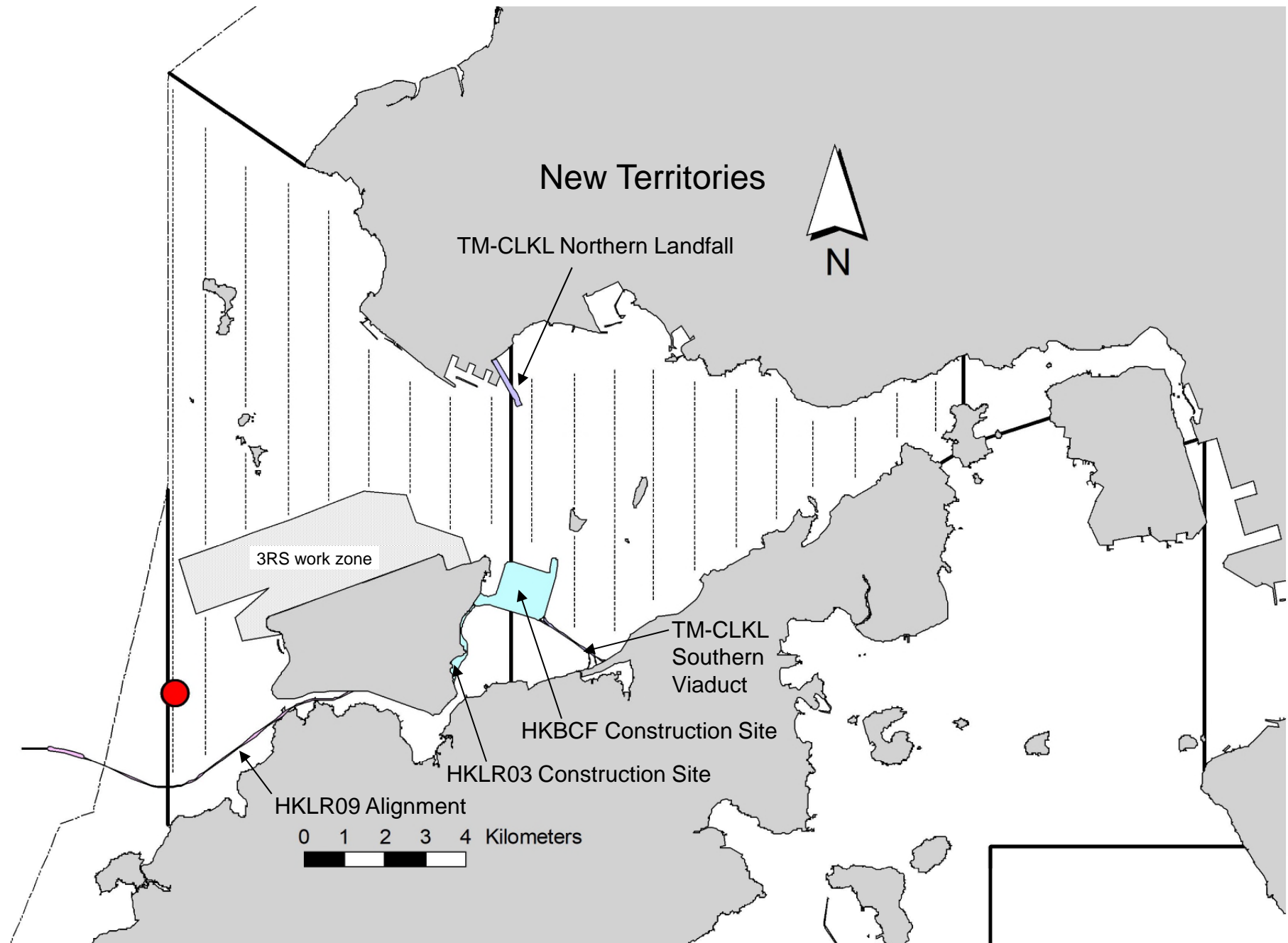


Figure 6. Distribution of Chinese White Dolphin Sightings during March 2020 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (March 2020)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
3-Mar-20	NW LANTAU	2	7.92	SPRING	STANDARD36826	TMCLKL	P
3-Mar-20	NW LANTAU	3	24.49	SPRING	STANDARD36826	TMCLKL	P
3-Mar-20	NW LANTAU	2	7.77	SPRING	STANDARD36826	TMCLKL	S
3-Mar-20	NW LANTAU	3	3.20	SPRING	STANDARD36826	TMCLKL	S
9-Mar-20	NW LANTAU	2	13.90	SPRING	STANDARD36826	TMCLKL	P
9-Mar-20	NW LANTAU	3	13.86	SPRING	STANDARD36826	TMCLKL	P
9-Mar-20	NW LANTAU	2	6.20	SPRING	STANDARD36826	TMCLKL	S
9-Mar-20	NW LANTAU	3	4.74	SPRING	STANDARD36826	TMCLKL	S
9-Mar-20	NE LANTAU	2	29.58	SPRING	STANDARD36826	TMCLKL	P
9-Mar-20	NE LANTAU	3	5.14	SPRING	STANDARD36826	TMCLKL	P
9-Mar-20	NE LANTAU	2	10.81	SPRING	STANDARD36826	TMCLKL	S
9-Mar-20	NE LANTAU	3	1.87	SPRING	STANDARD36826	TMCLKL	S
18-Mar-20	NW LANTAU	1	2.30	SPRING	STANDARD36826	TMCLKL	P
18-Mar-20	NW LANTAU	2	13.75	SPRING	STANDARD36826	TMCLKL	P
18-Mar-20	NW LANTAU	3	16.02	SPRING	STANDARD36826	TMCLKL	P
18-Mar-20	NW LANTAU	1	1.66	SPRING	STANDARD36826	TMCLKL	S
18-Mar-20	NW LANTAU	2	6.73	SPRING	STANDARD36826	TMCLKL	S
18-Mar-20	NW LANTAU	3	0.90	SPRING	STANDARD36826	TMCLKL	S
25-Mar-20	NE LANTAU	2	25.17	SPRING	STANDARD36826	TMCLKL	P
25-Mar-20	NE LANTAU	3	11.60	SPRING	STANDARD36826	TMCLKL	P
25-Mar-20	NE LANTAU	2	11.93	SPRING	STANDARD36826	TMCLKL	S
25-Mar-20	NE LANTAU	3	2.00	SPRING	STANDARD36826	TMCLKL	S
25-Mar-20	NW LANTAU	2	20.01	SPRING	STANDARD36826	TMCLKL	P
25-Mar-20	NW LANTAU	3	5.90	SPRING	STANDARD36826	TMCLKL	P
25-Mar-20	NW LANTAU	2	9.43	SPRING	STANDARD36826	TMCLKL	S
25-Mar-20	NW LANTAU	3	2.64	SPRING	STANDARD36826	TMCLKL	S

Appendix II. TMCLKL Chinese White Dolphin Sighting Database (March 2020)

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

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
3-Mar-20	1	1310	1	NW LANTAU	3	3	ON	TMCLKL	817341	804686	SPRING	NONE	P

Appendix III. Individual dolphins identified during TMCLKL monitoring surveys in (March 2020)

ID#	DATE	STG#	AREA
WL232	03/03/20	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphin in March 2020 (TMCLKL)

Appendix J

Post-Construction
Water Quality
Monitoring
Results

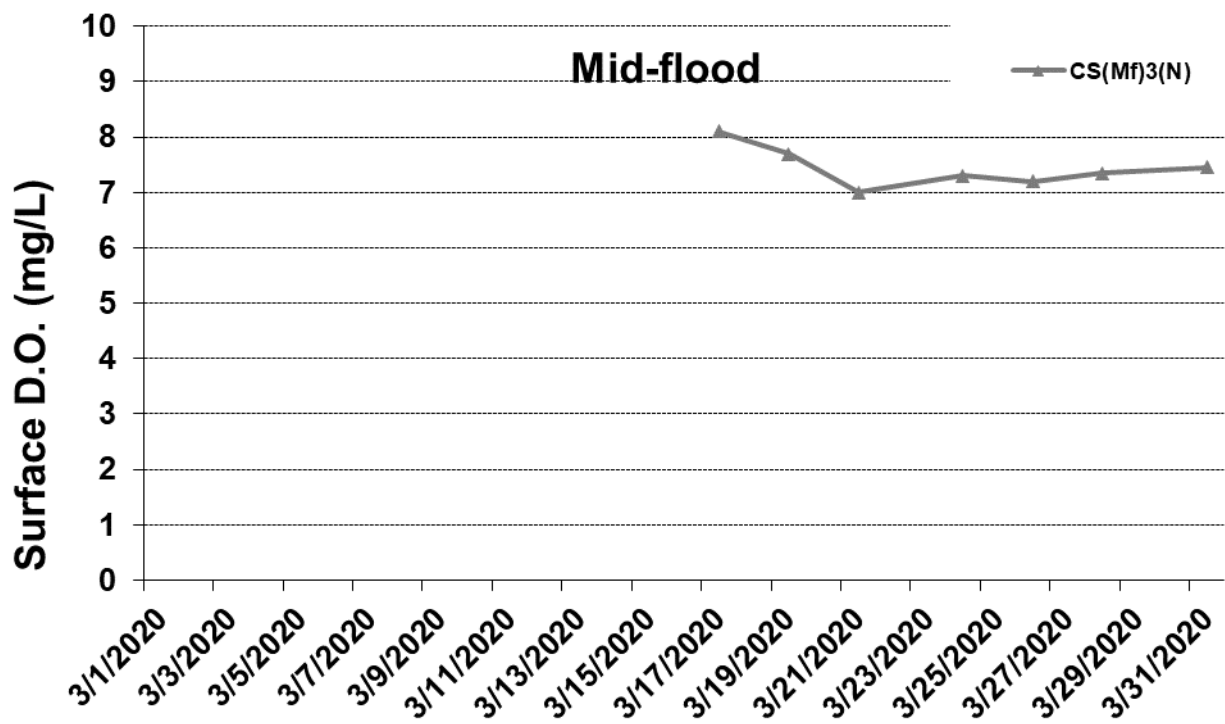
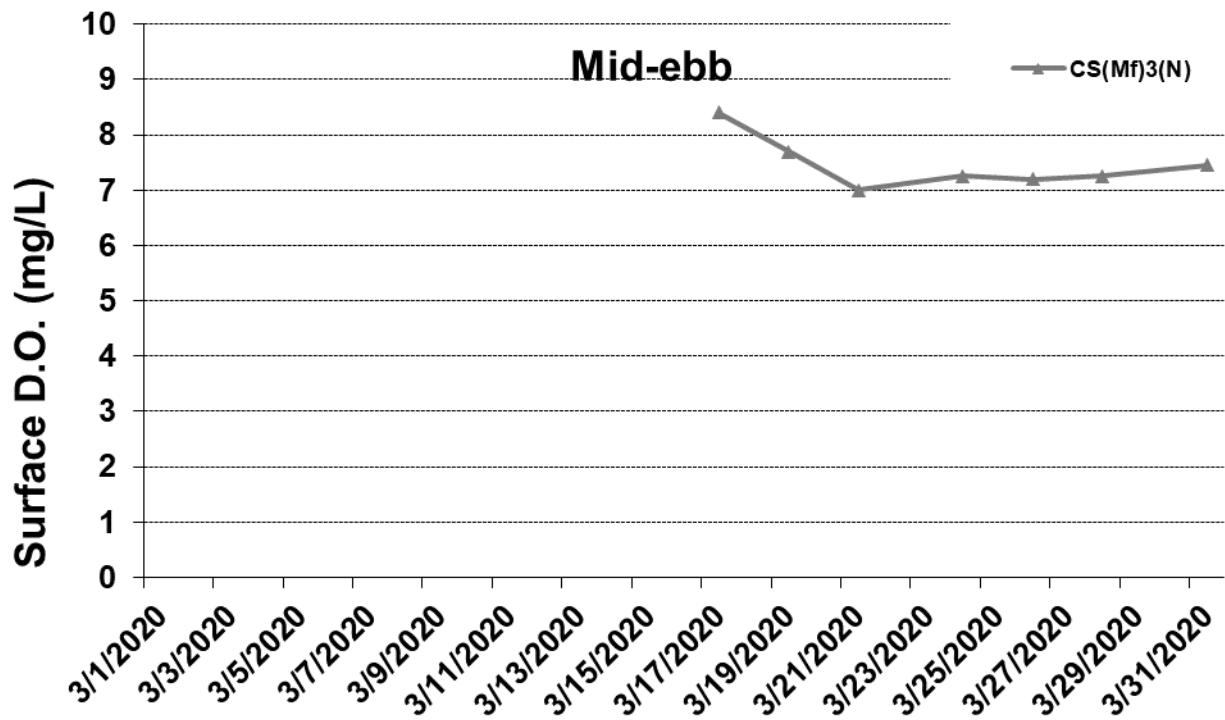


Figure J1 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



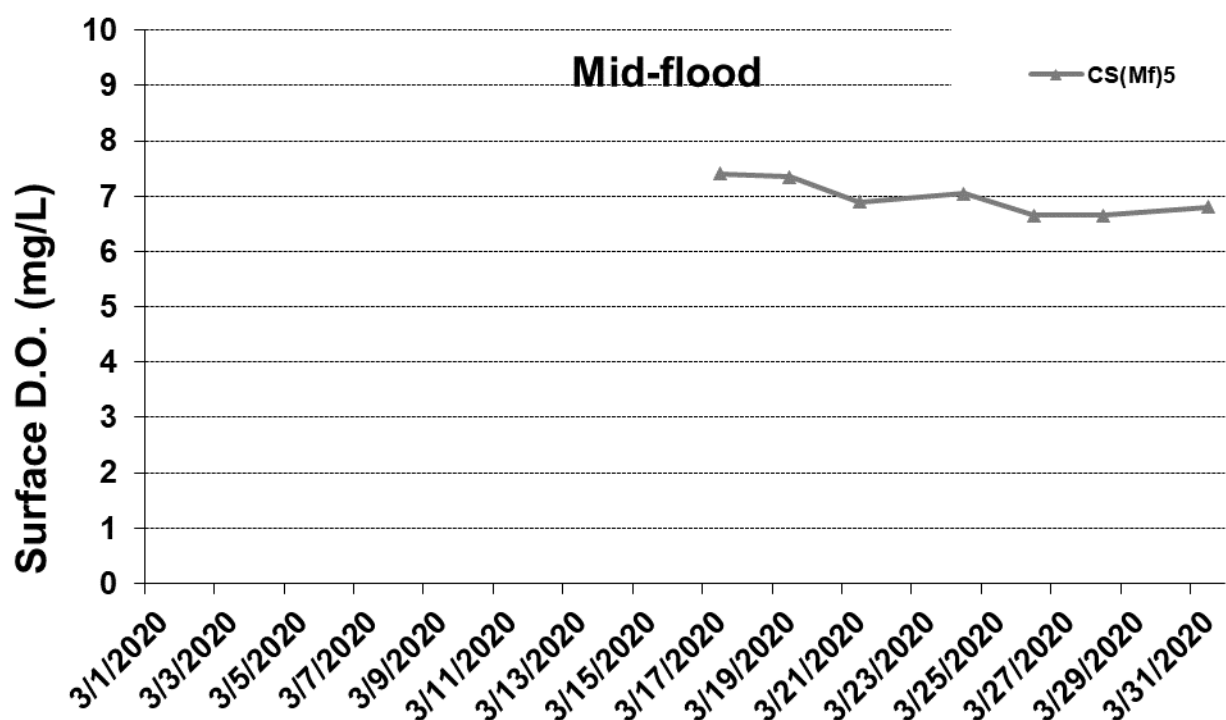
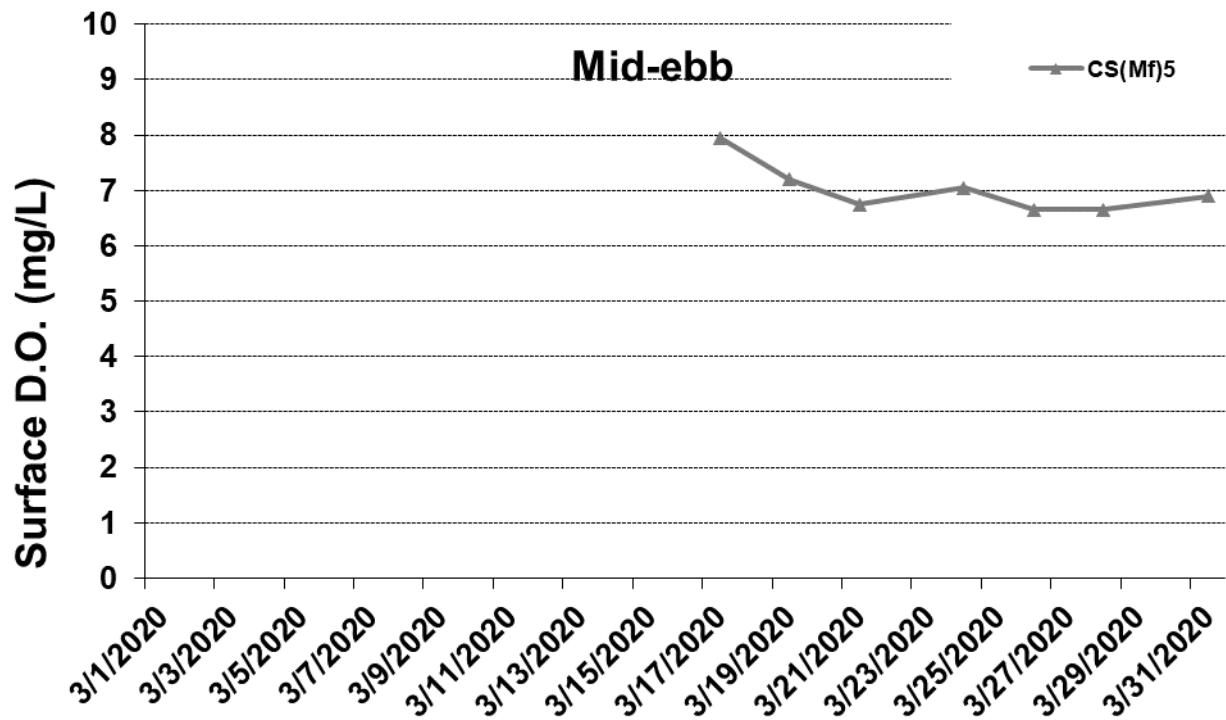


Figure J2 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



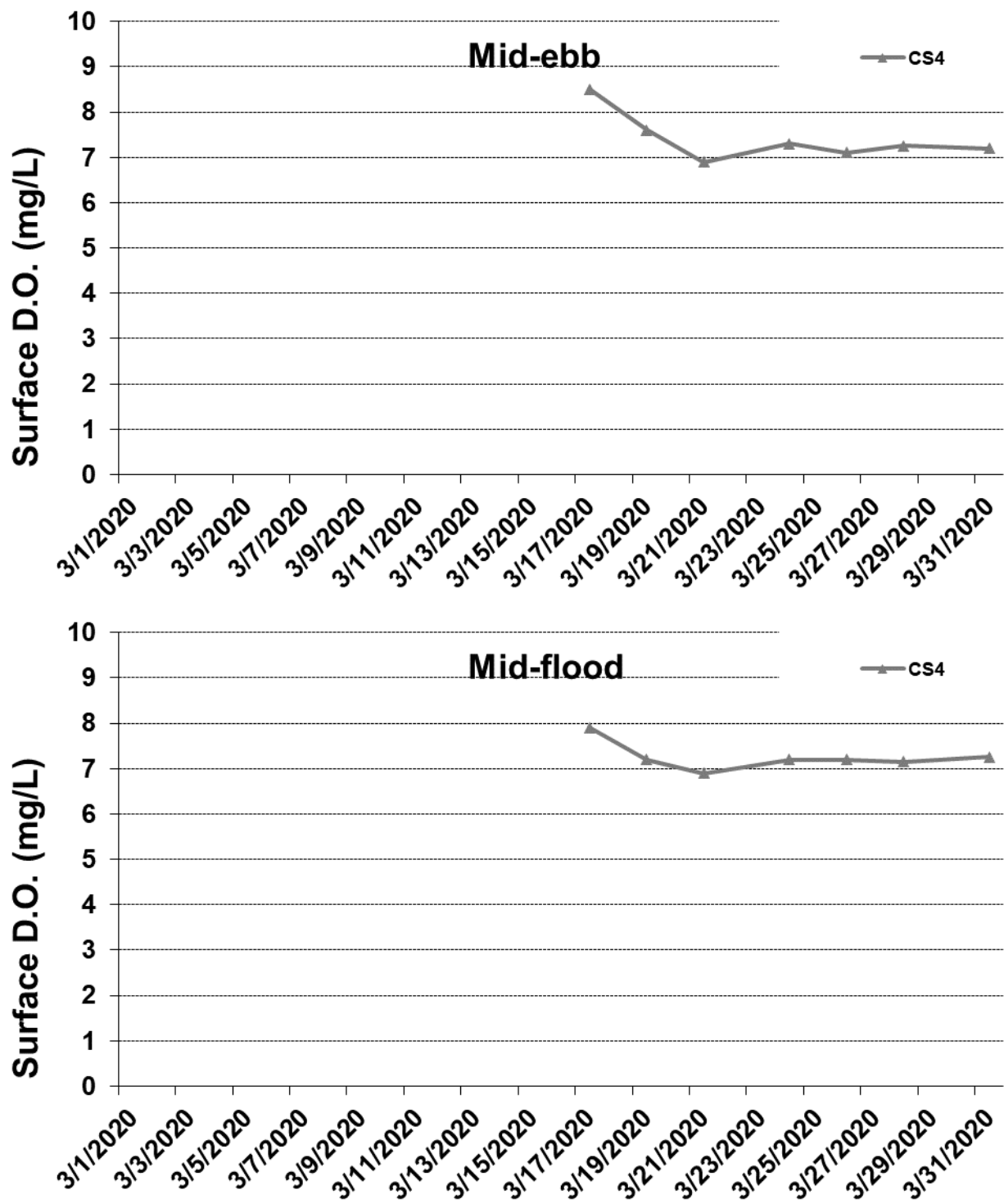


Figure J3 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at CS4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



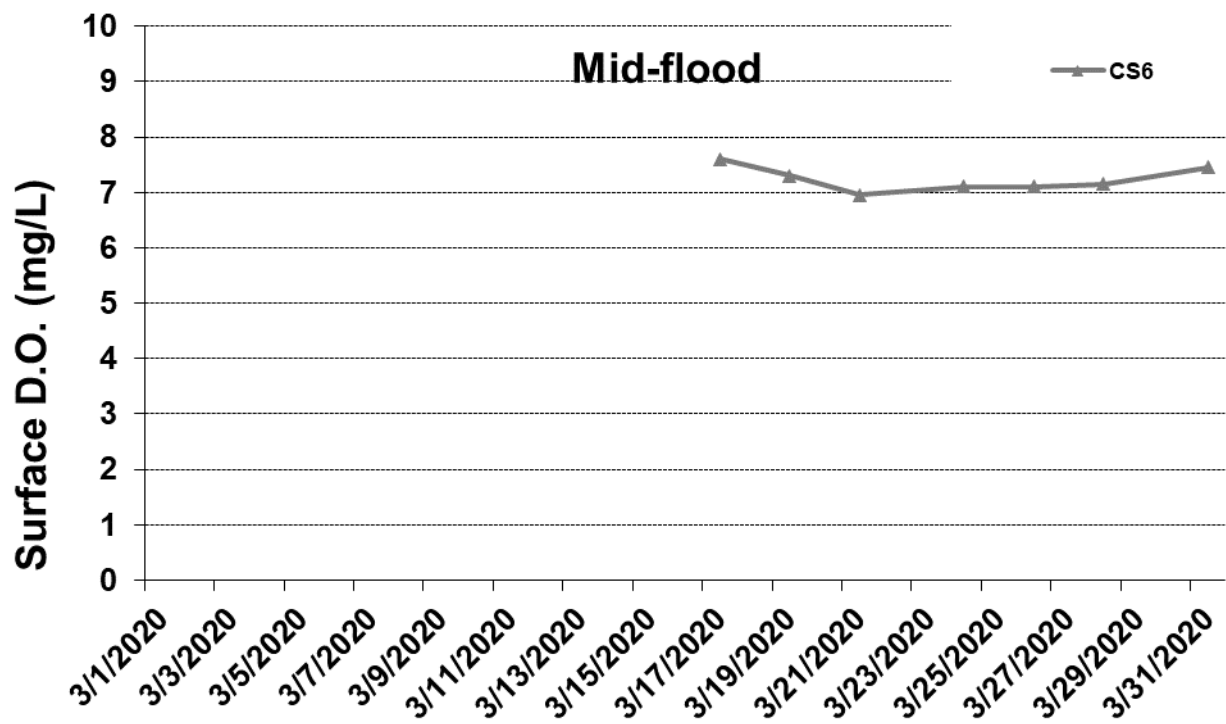
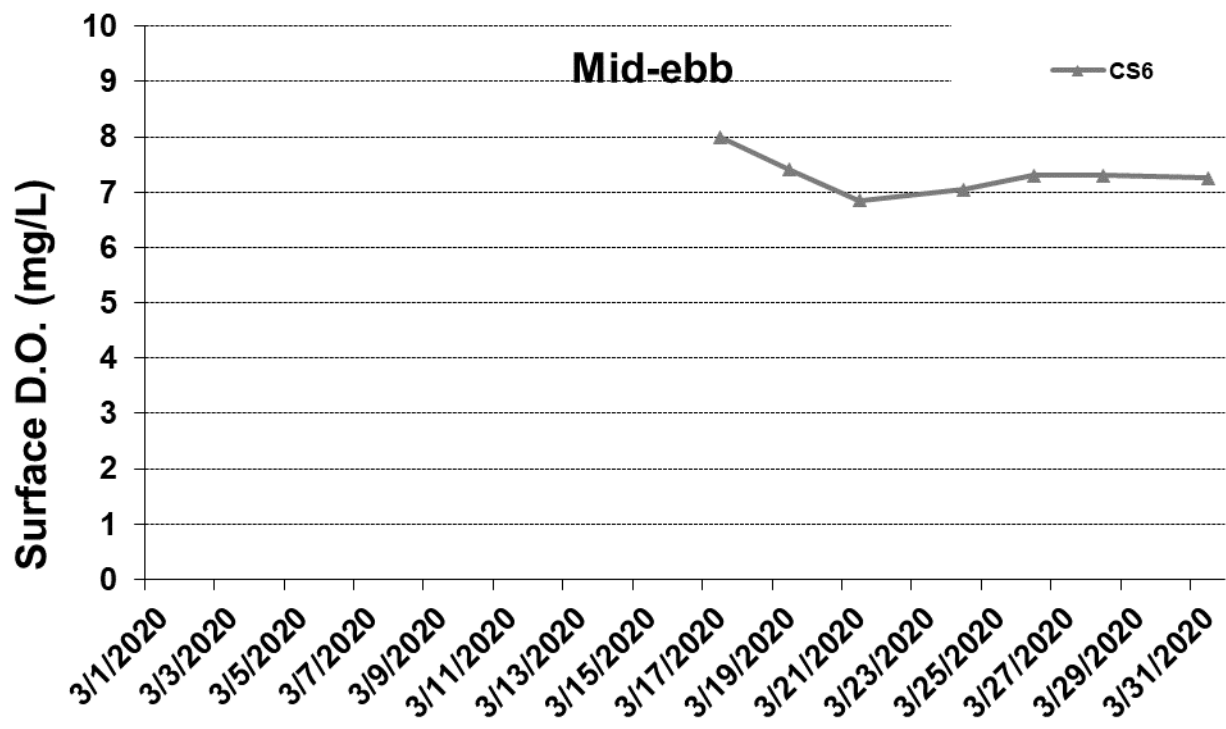


Figure J4 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at CS6. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



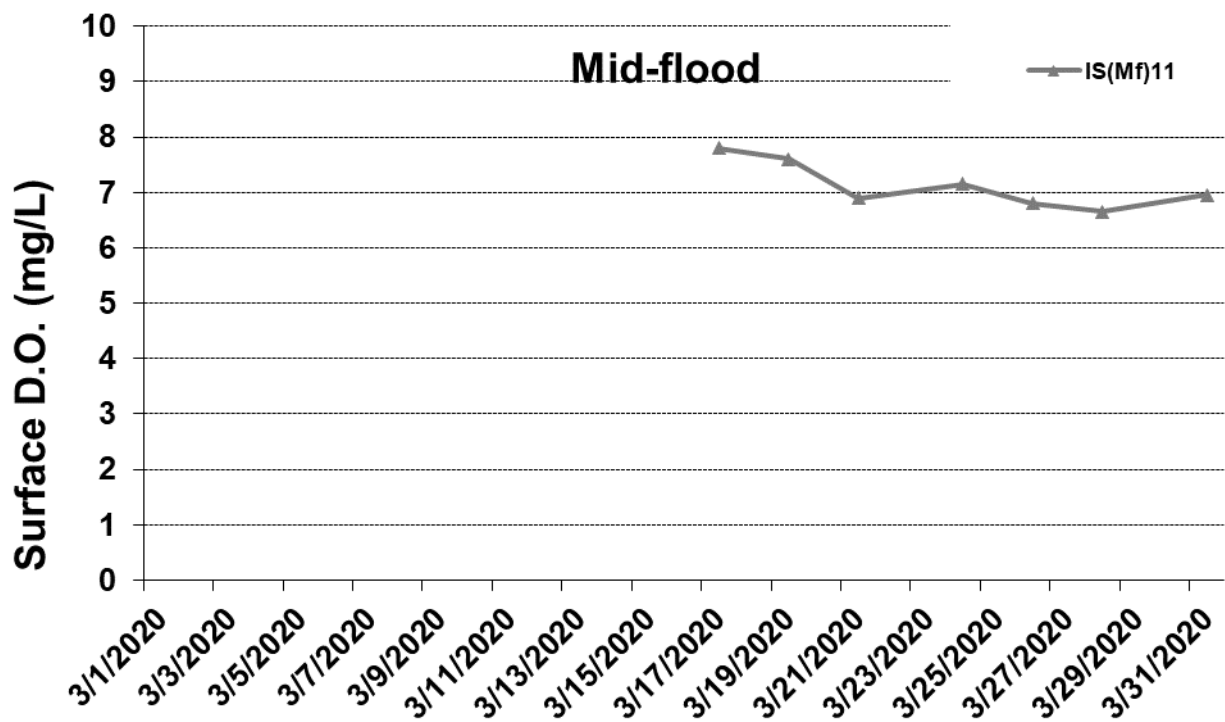
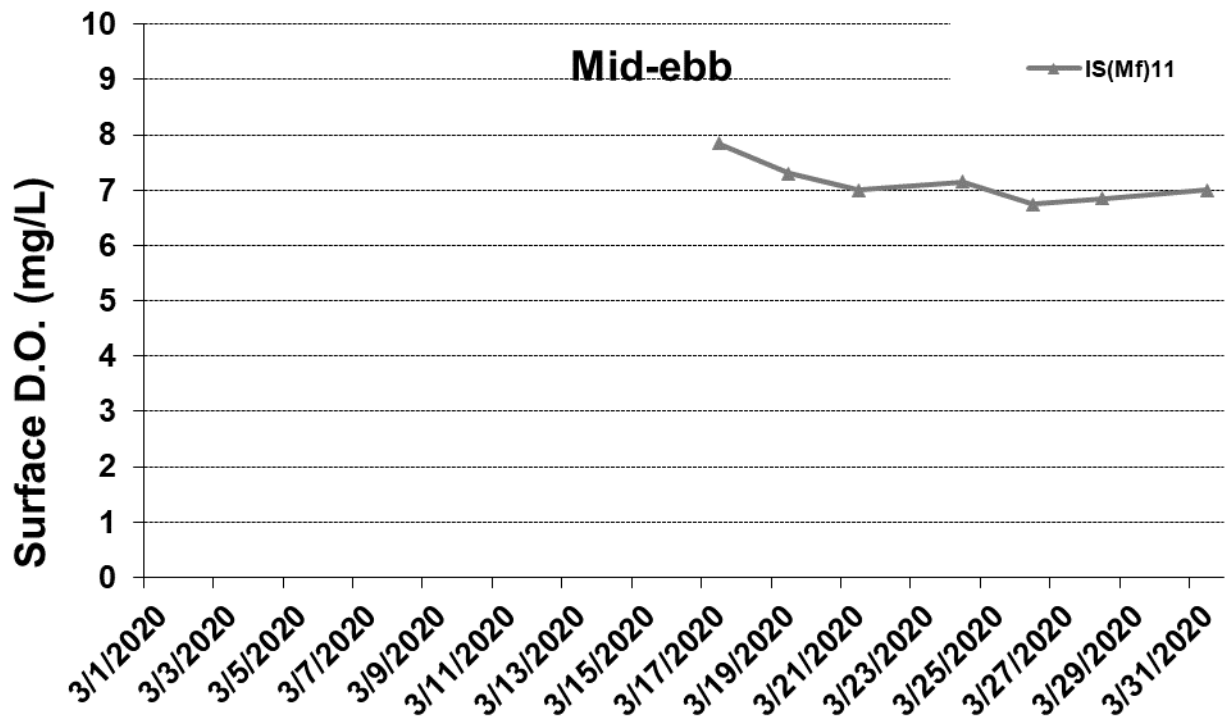


Figure J5 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



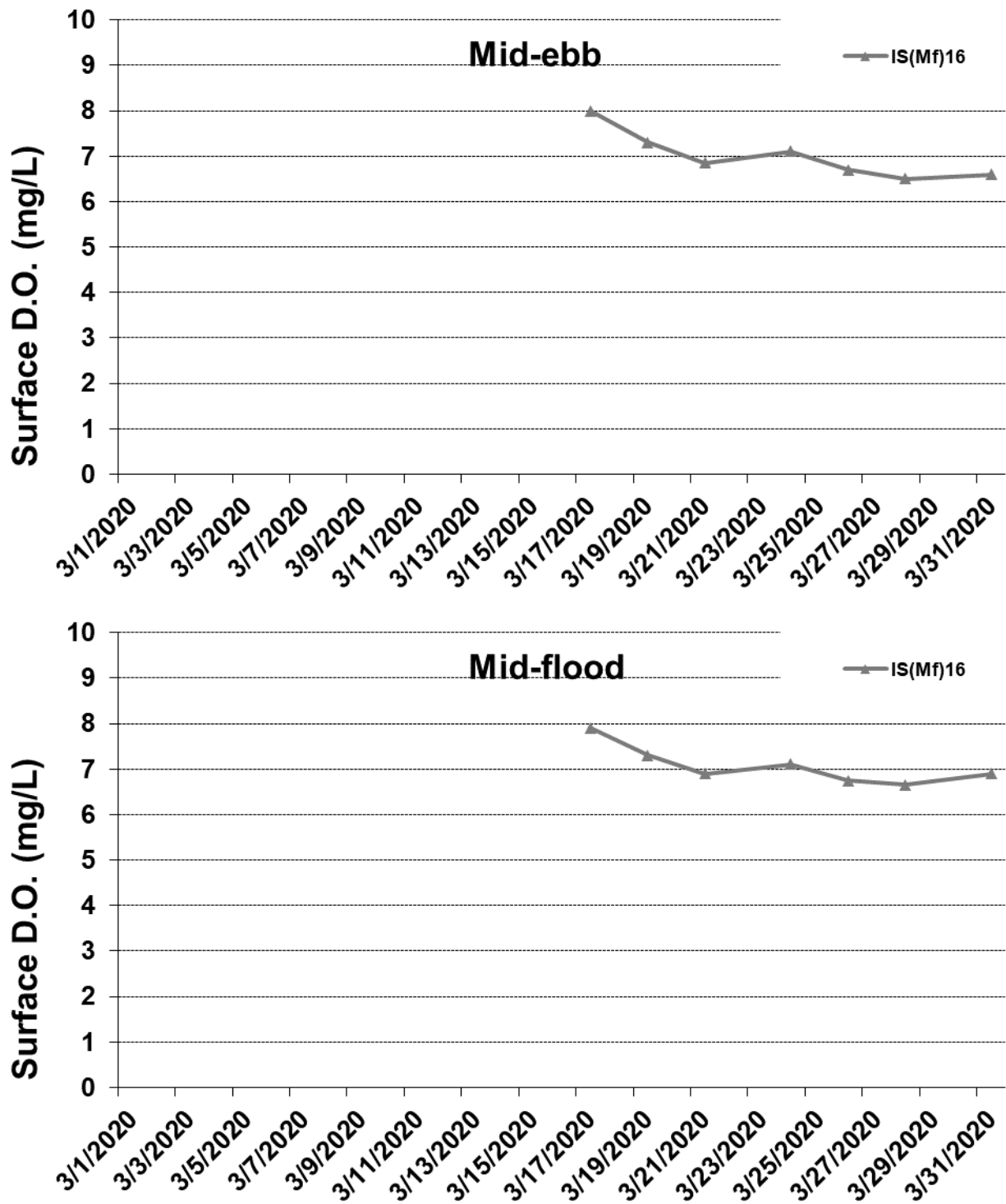


Figure J6 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



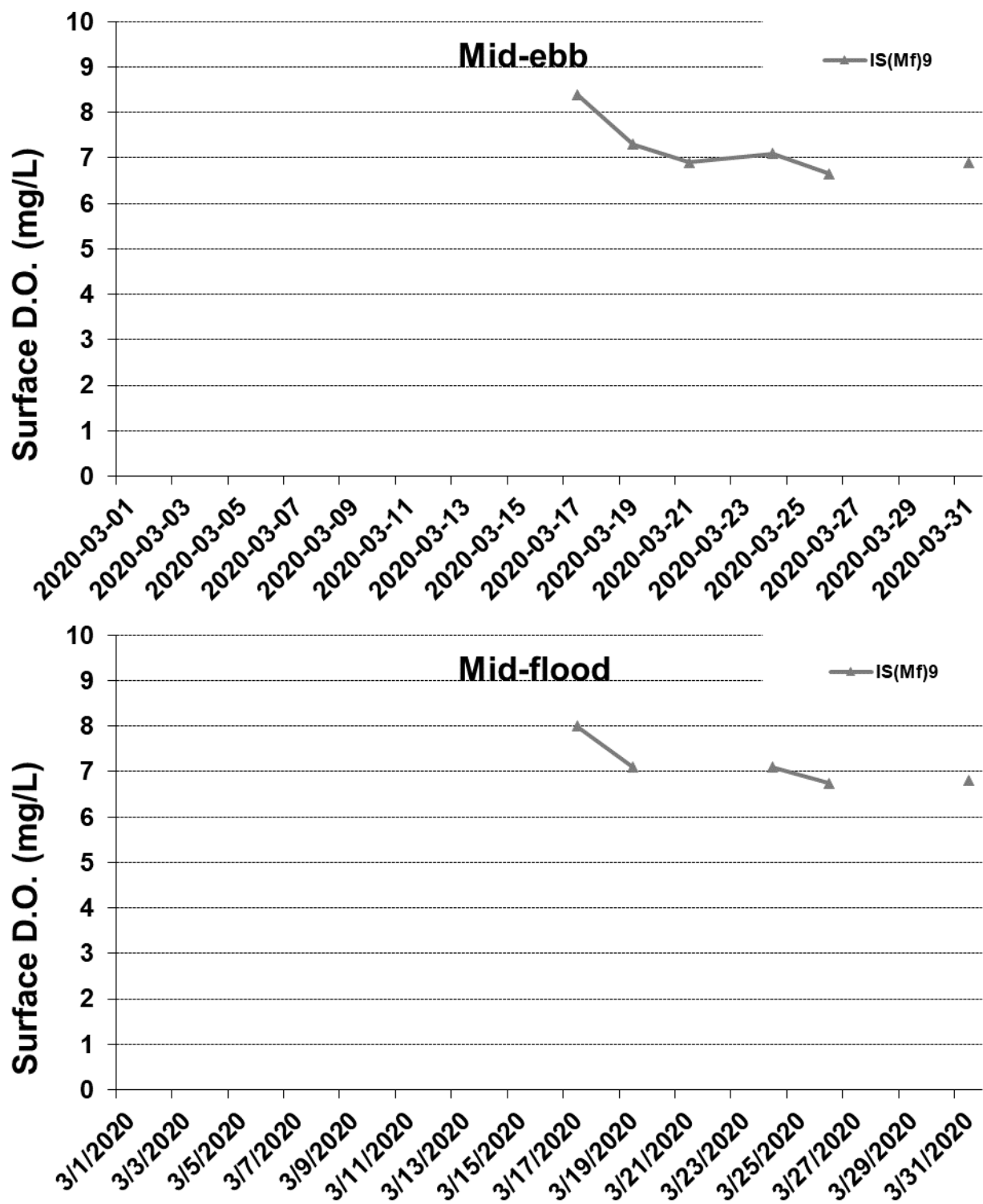


Figure J7 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



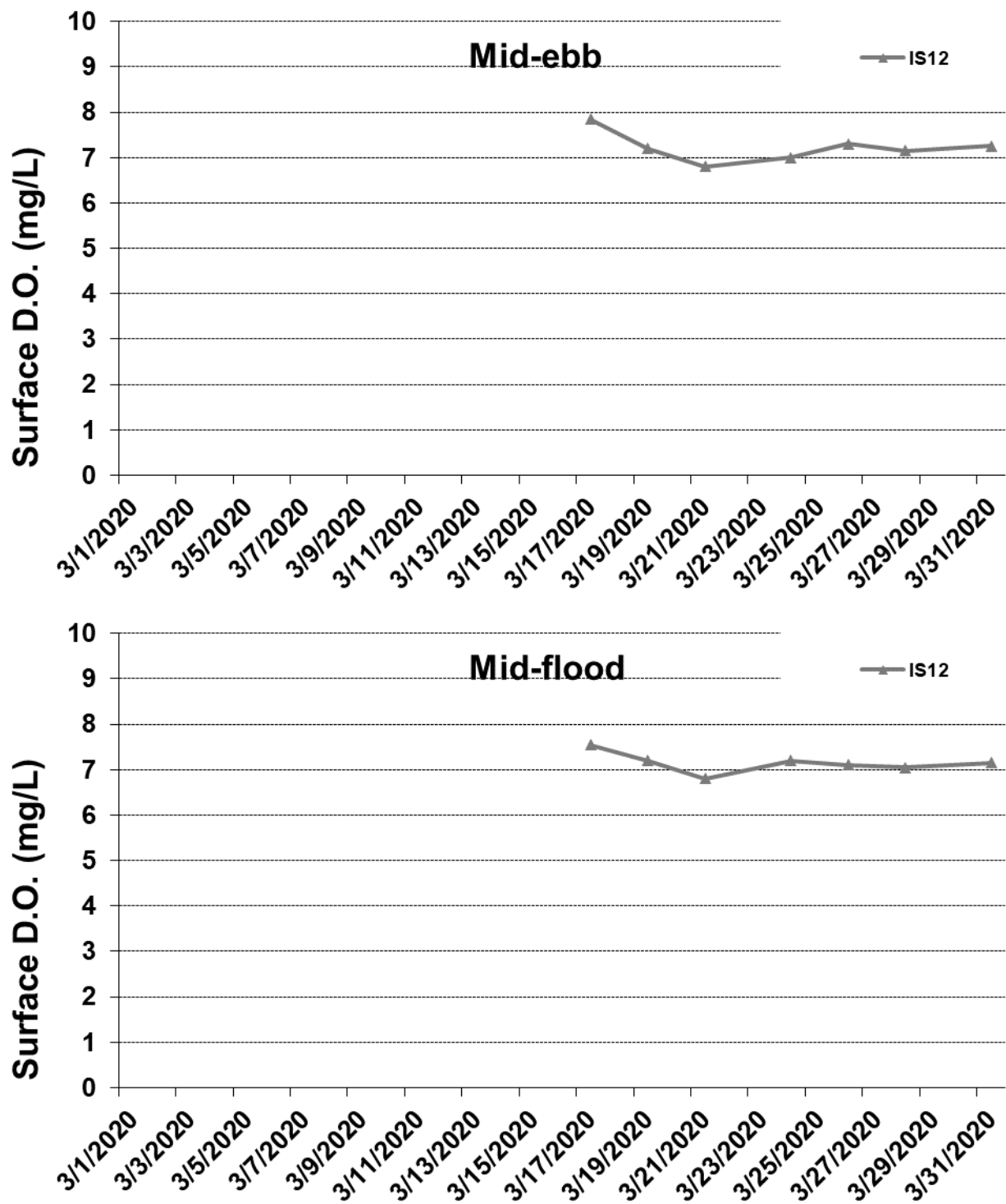


Figure J8 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS12. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



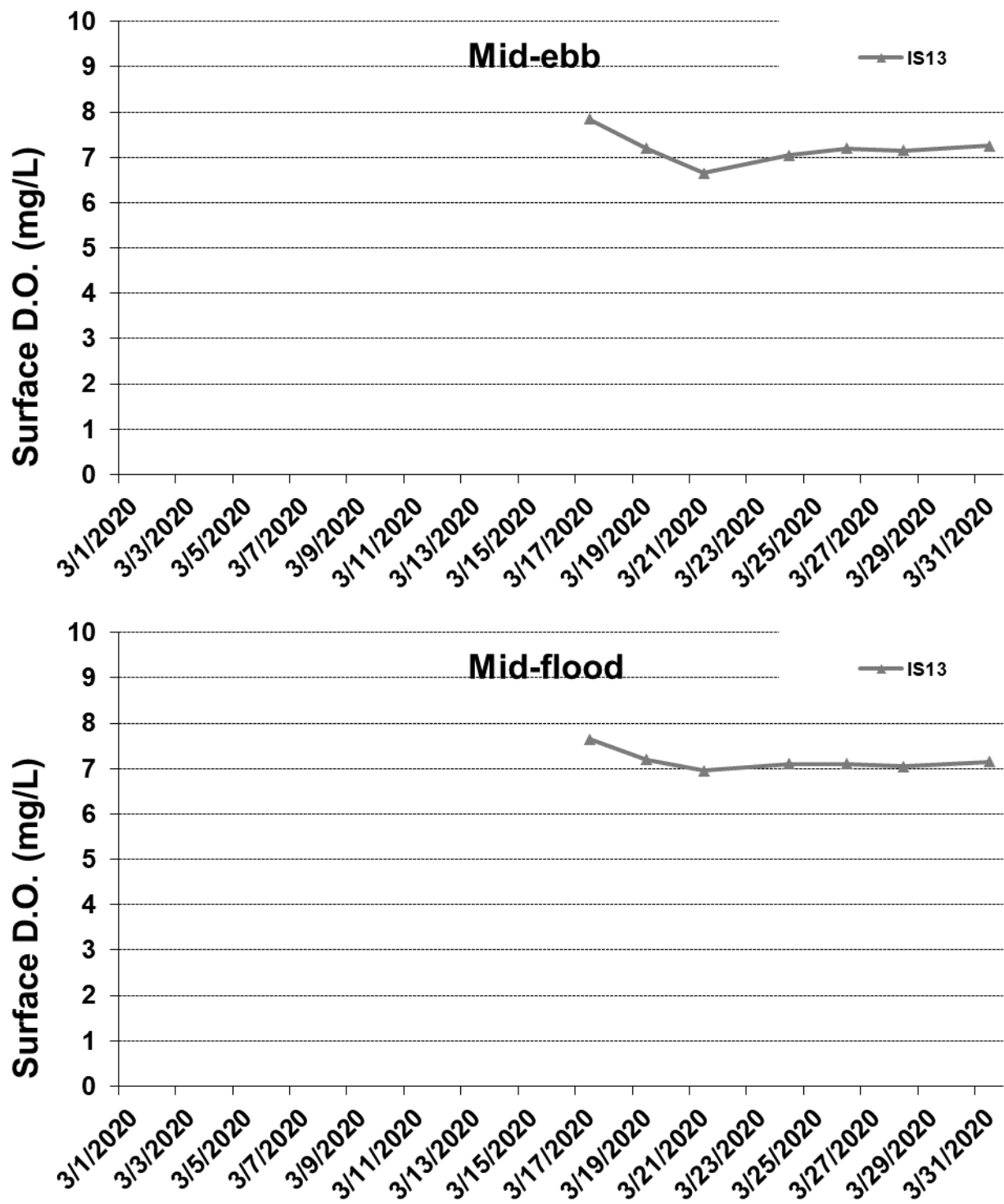


Figure J9 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS13. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



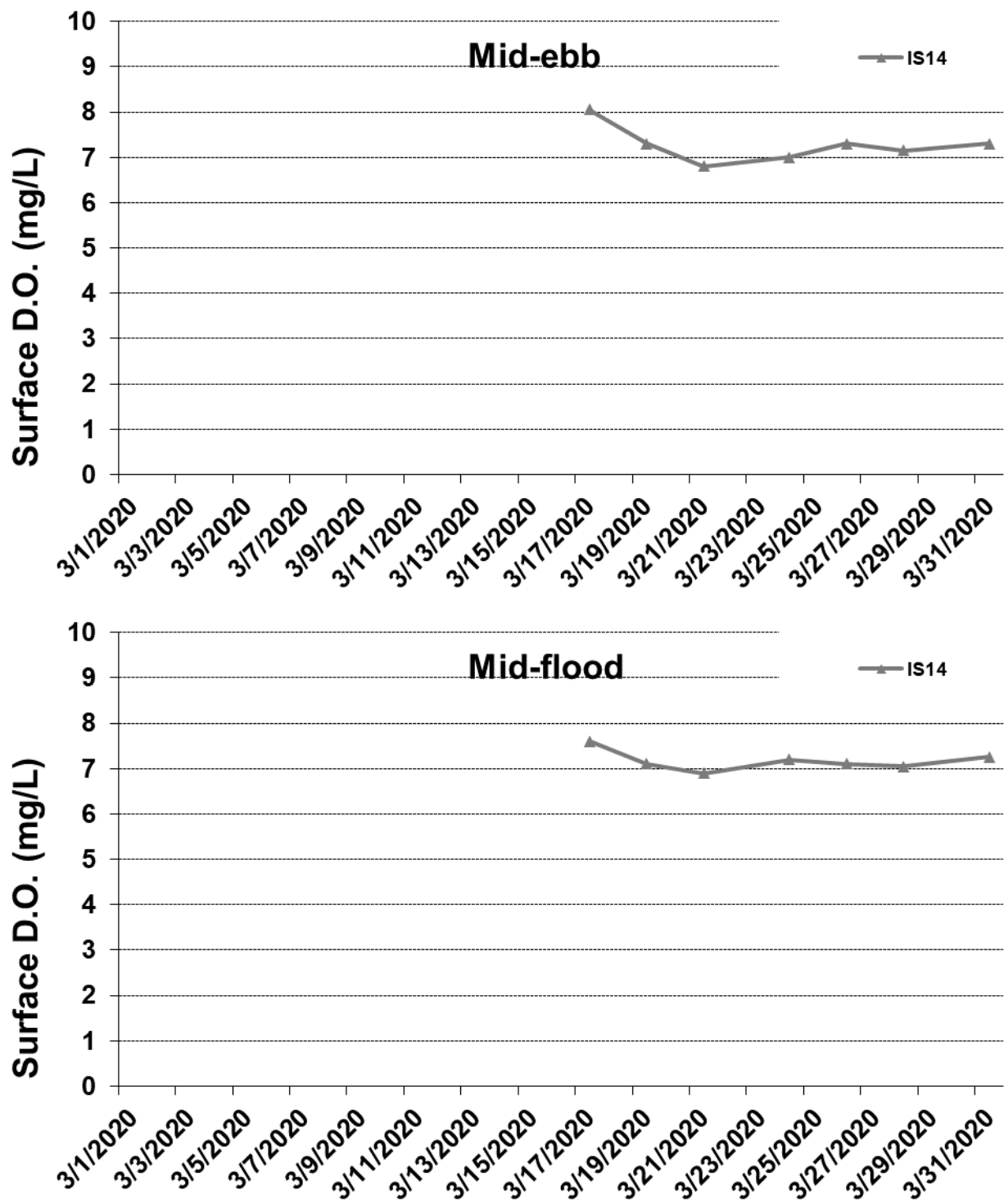


Figure J10 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS14. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



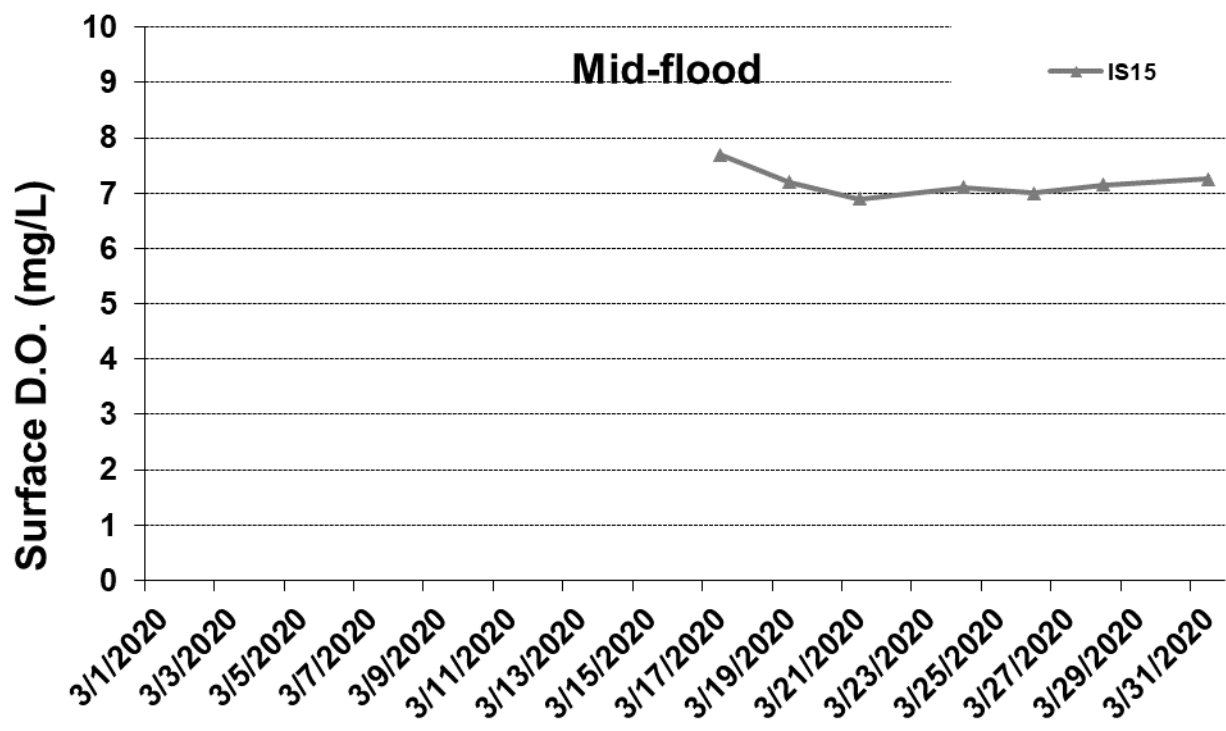
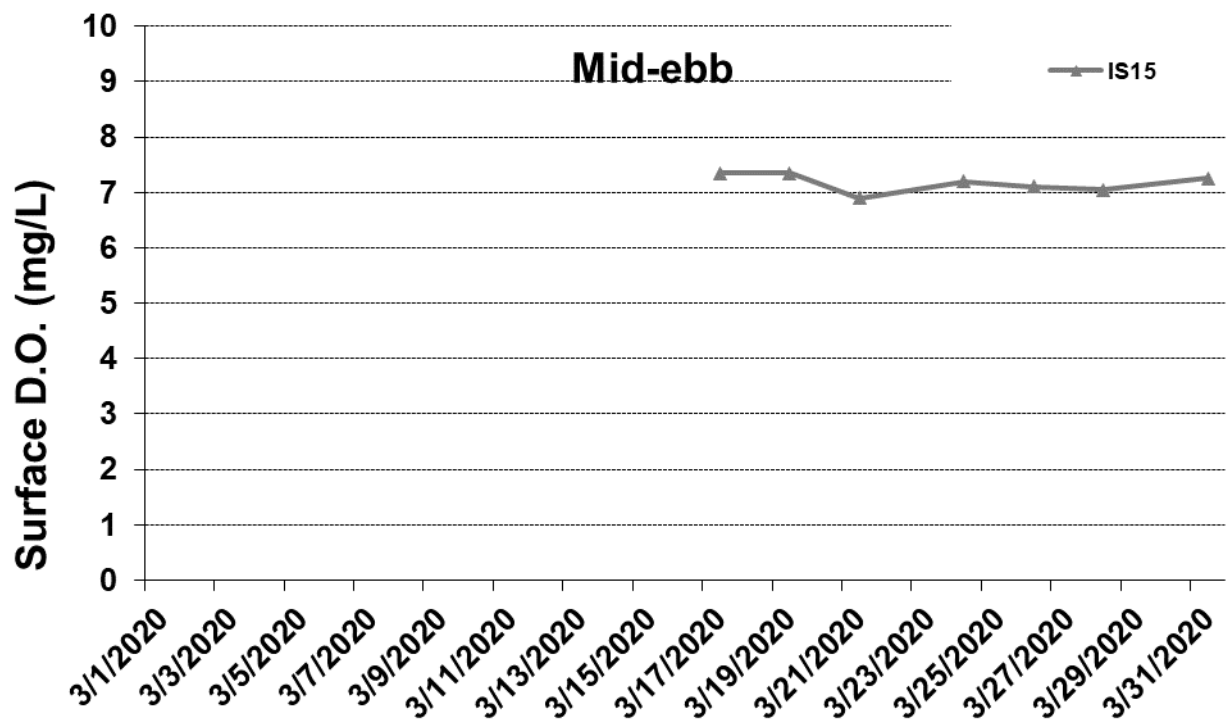


Figure J11 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS15. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



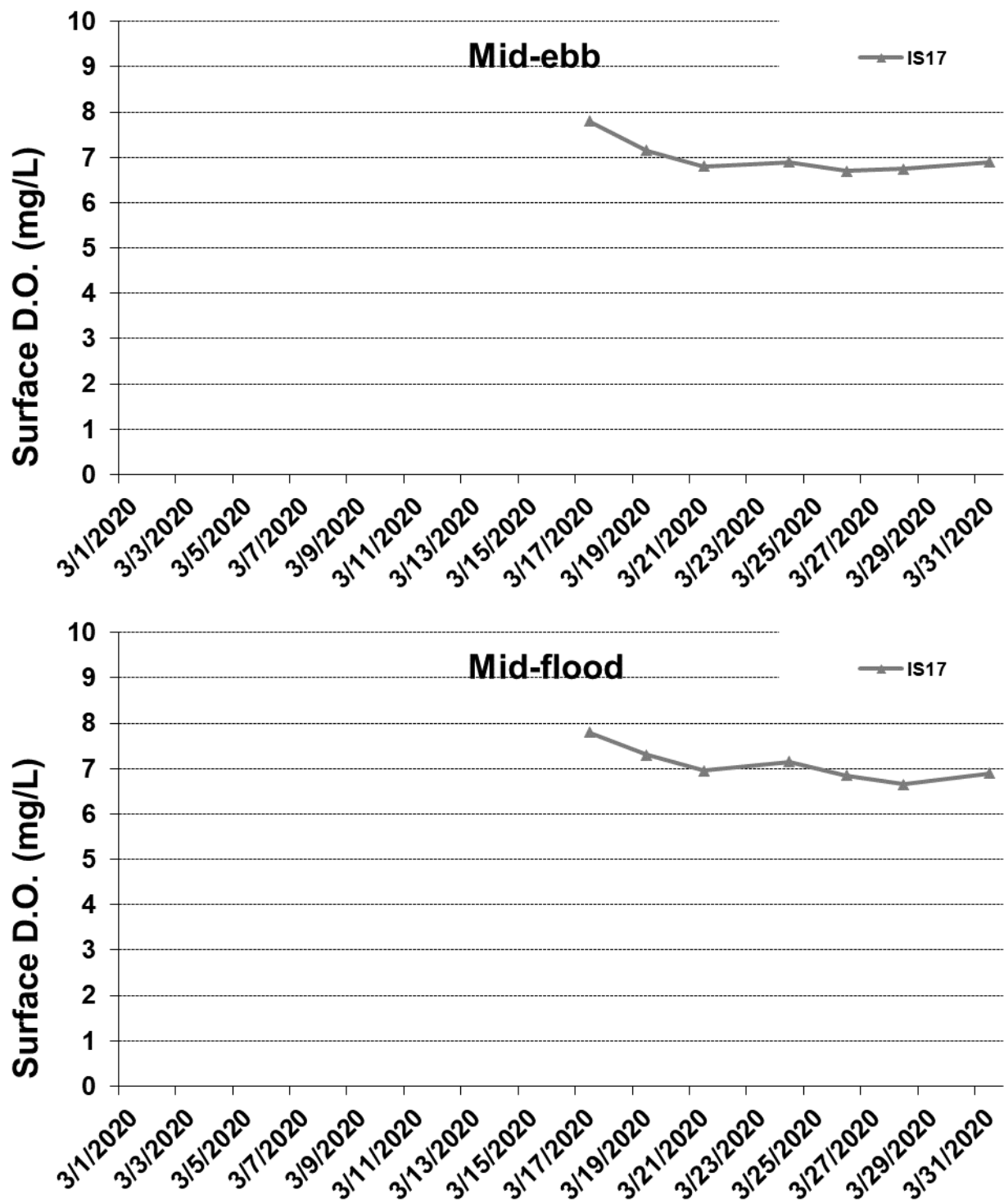


Figure J12 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS17. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



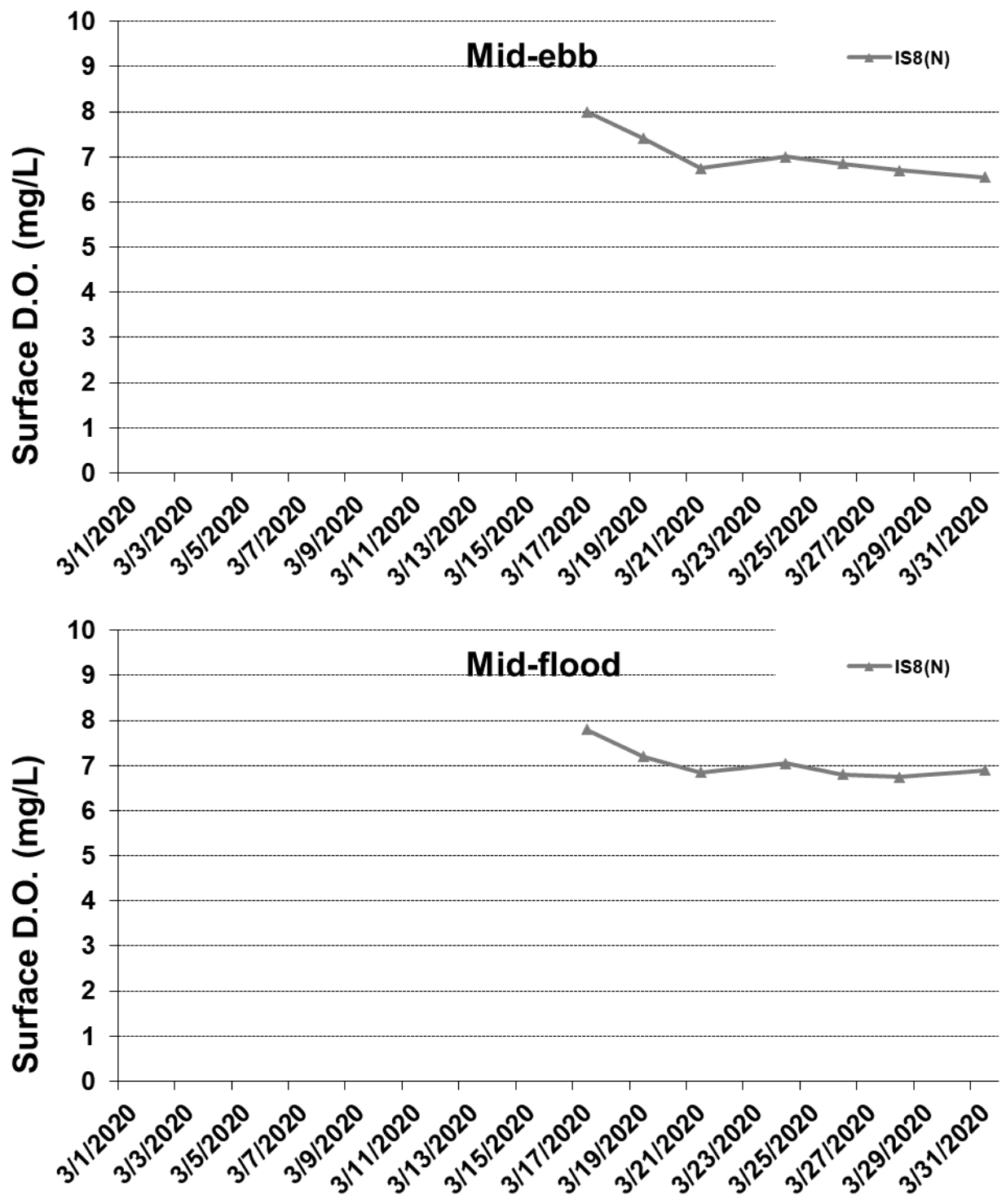


Figure J13 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



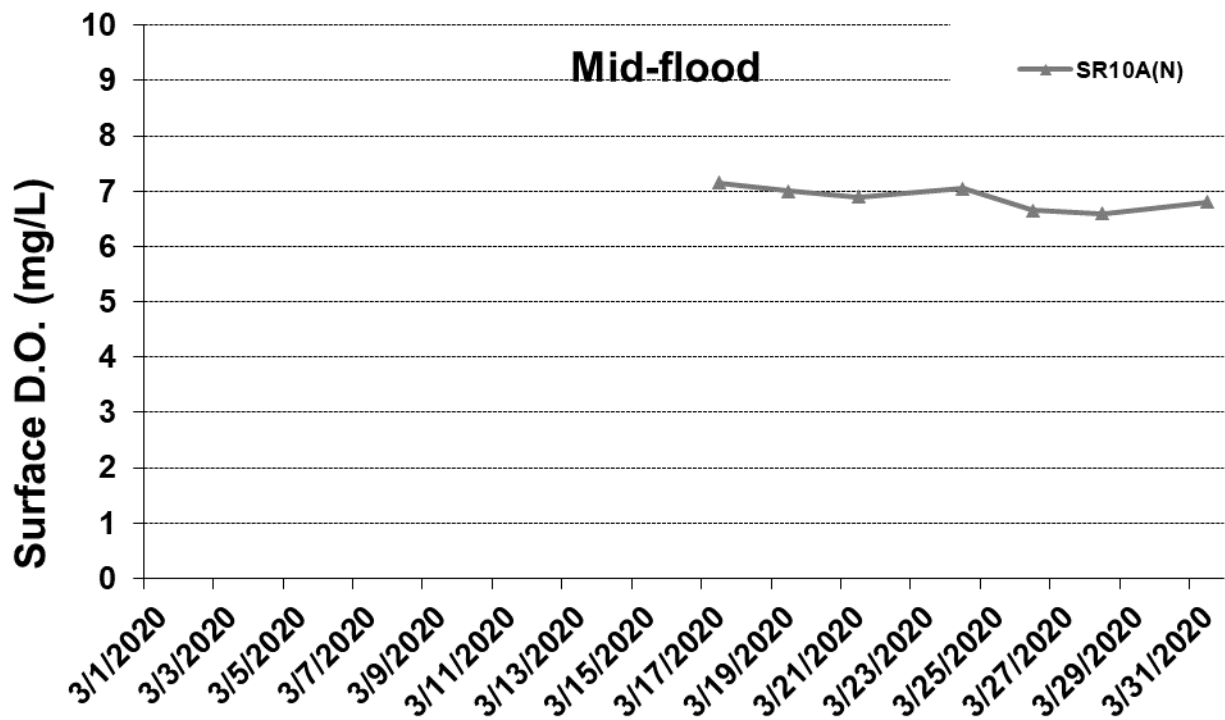
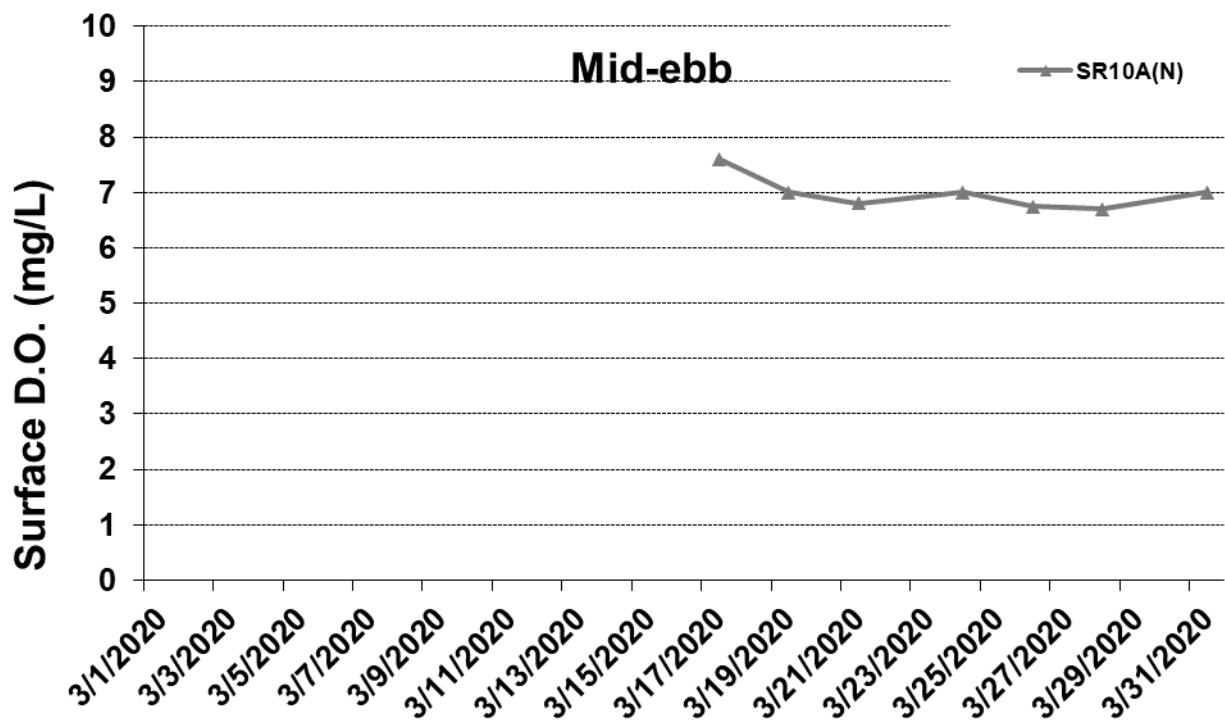


Figure J14 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR10A(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



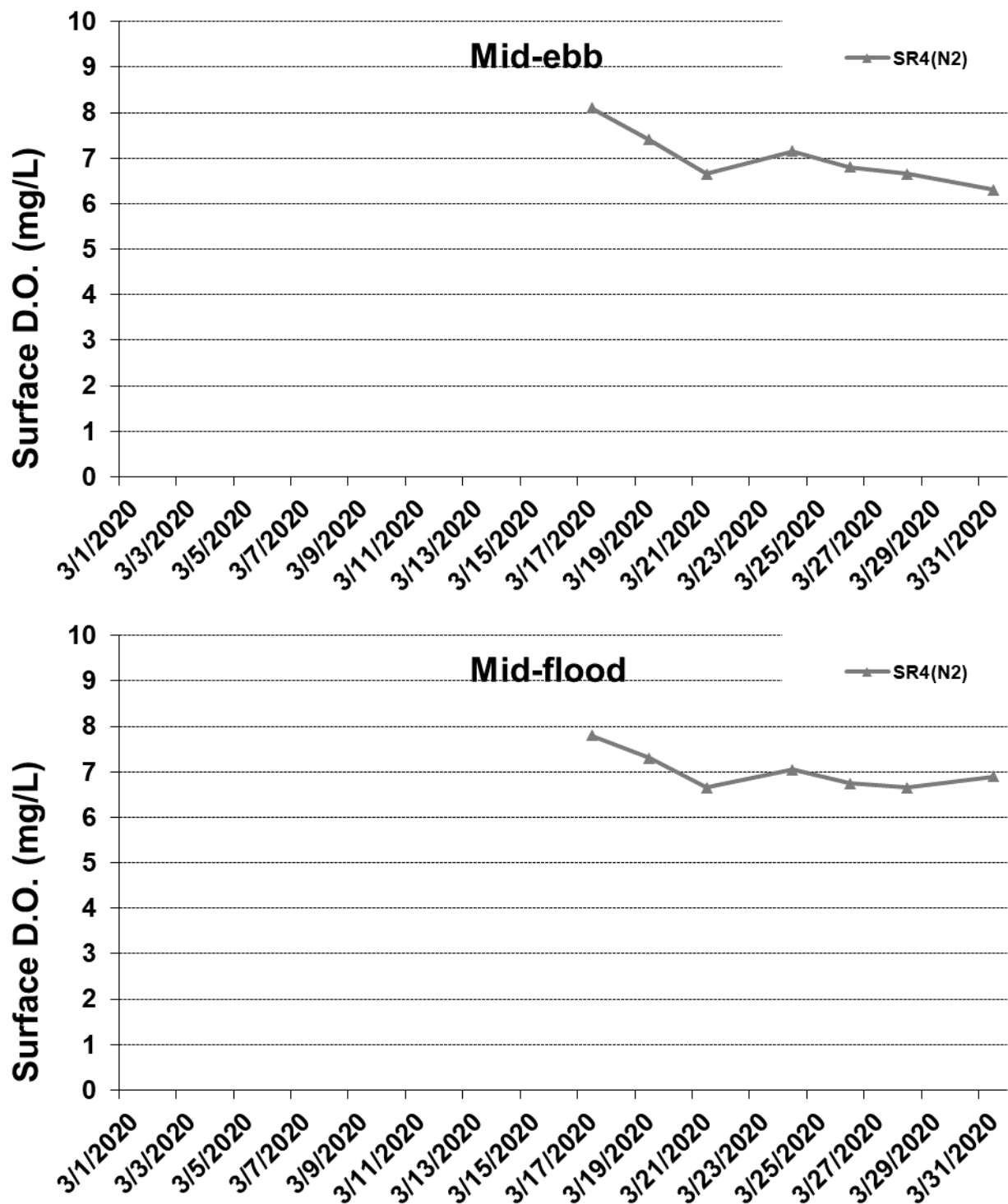


Figure J15 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



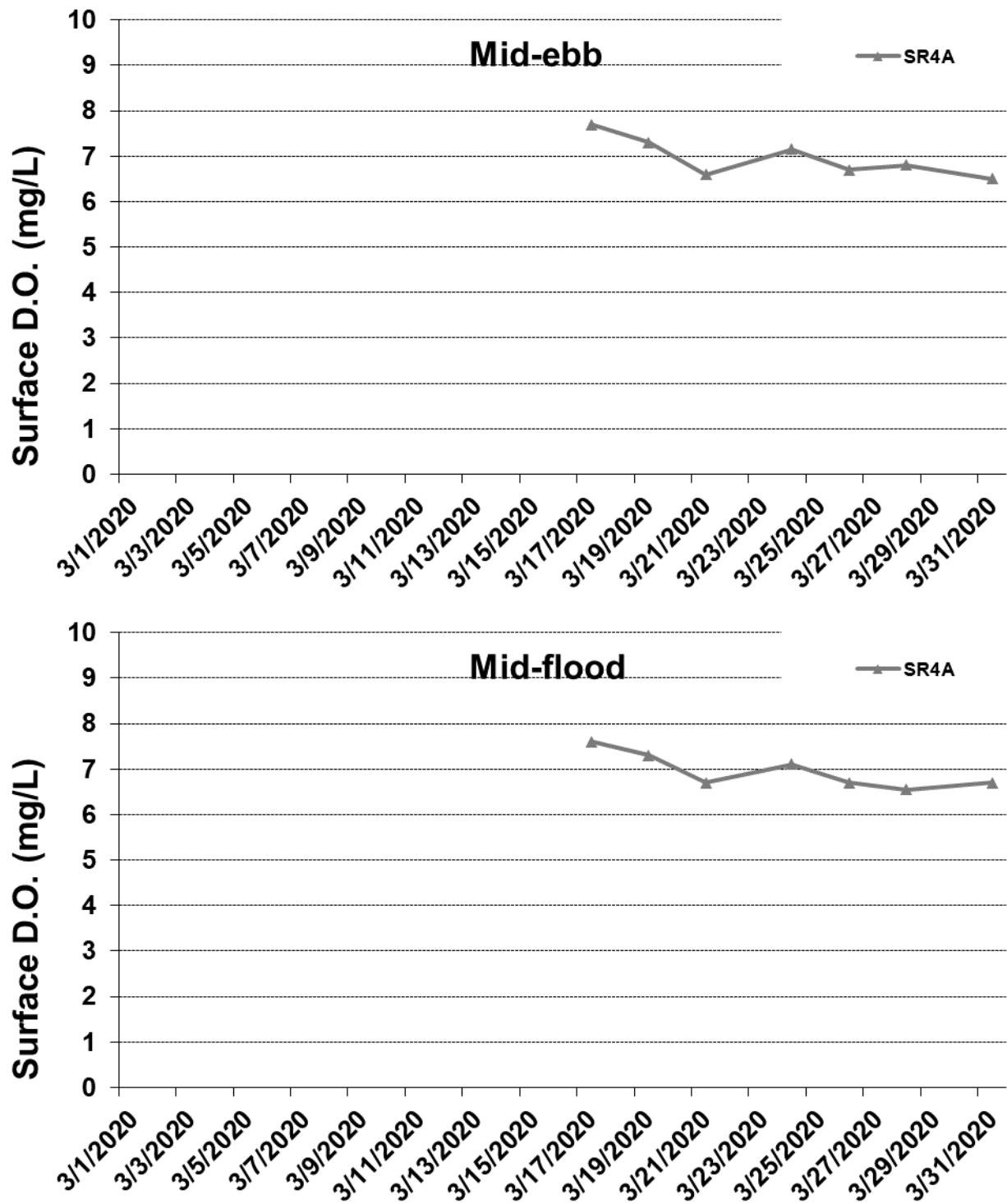


Figure J16 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR4A. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



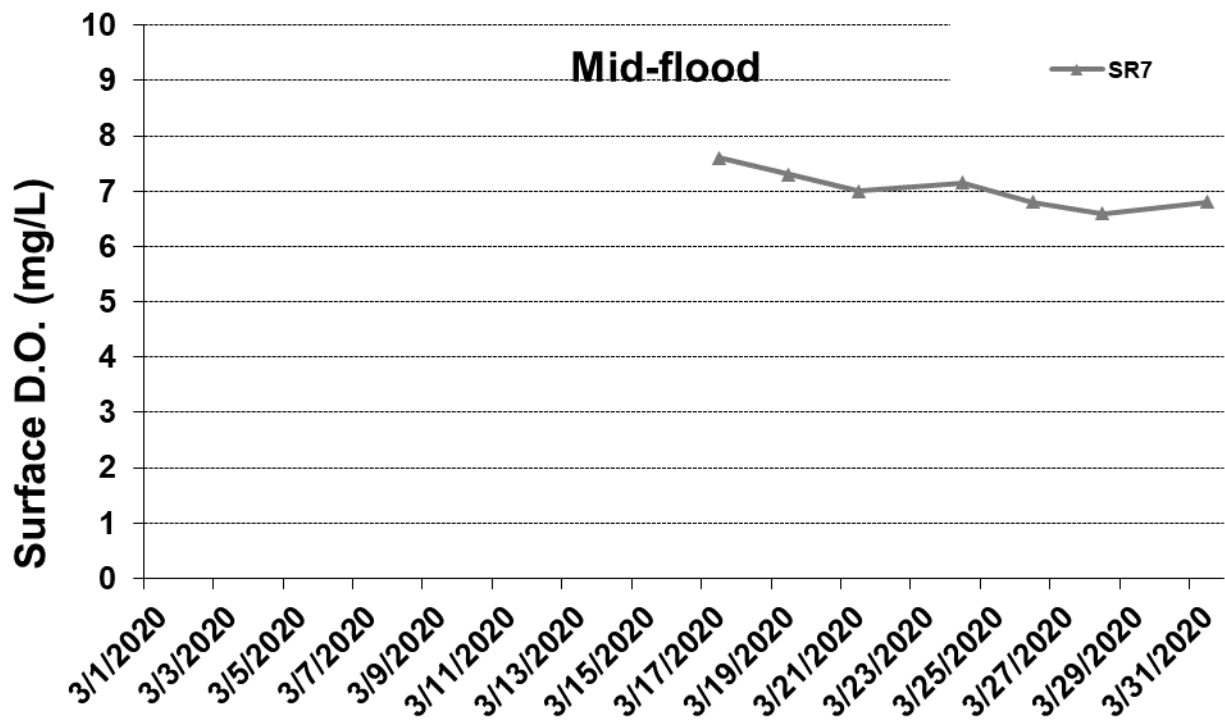
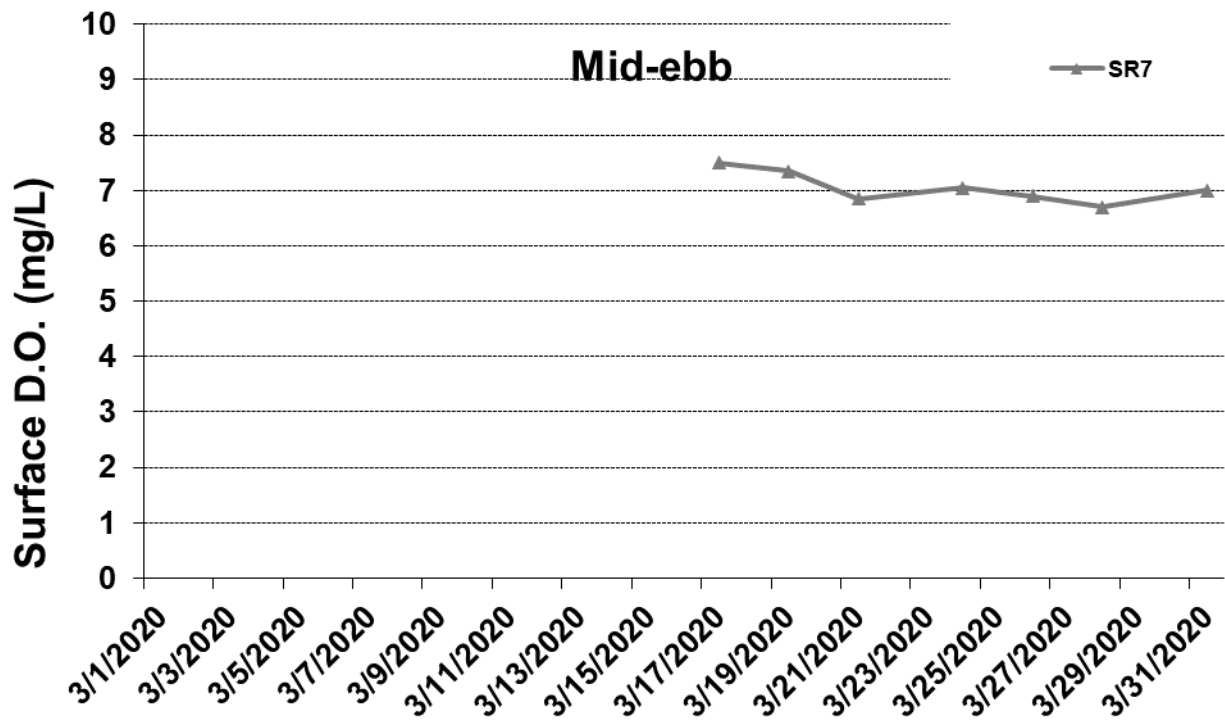


Figure J17 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR7. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



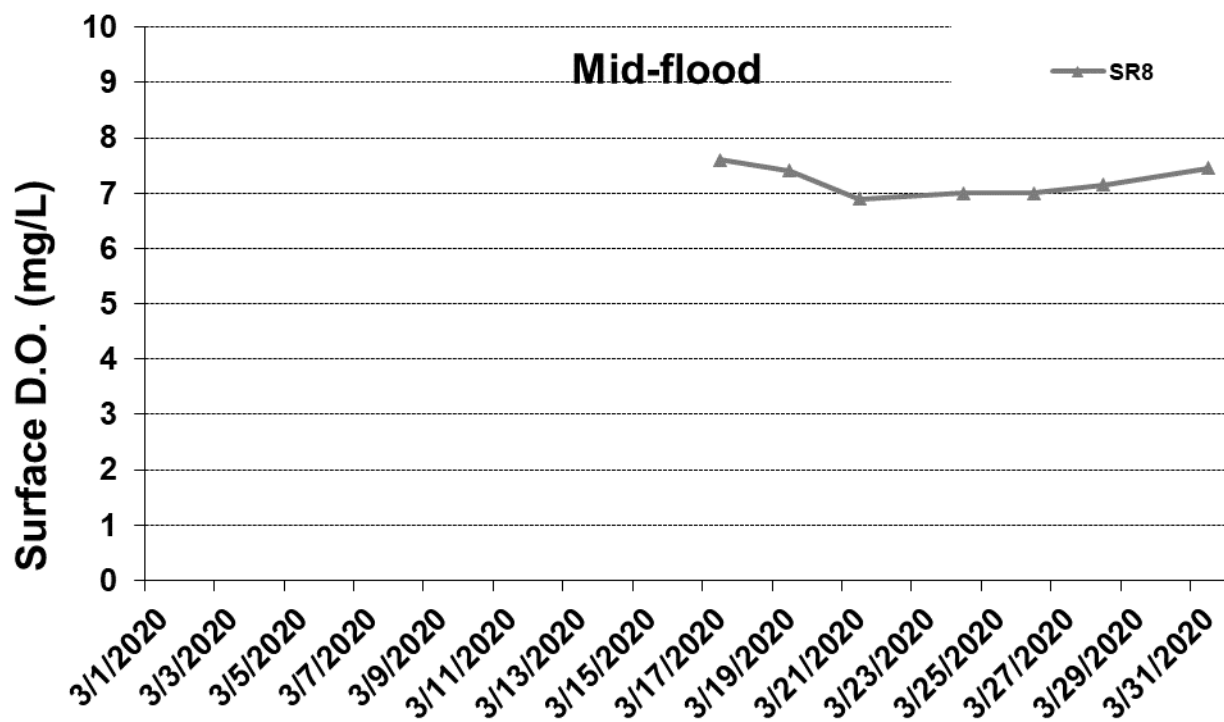
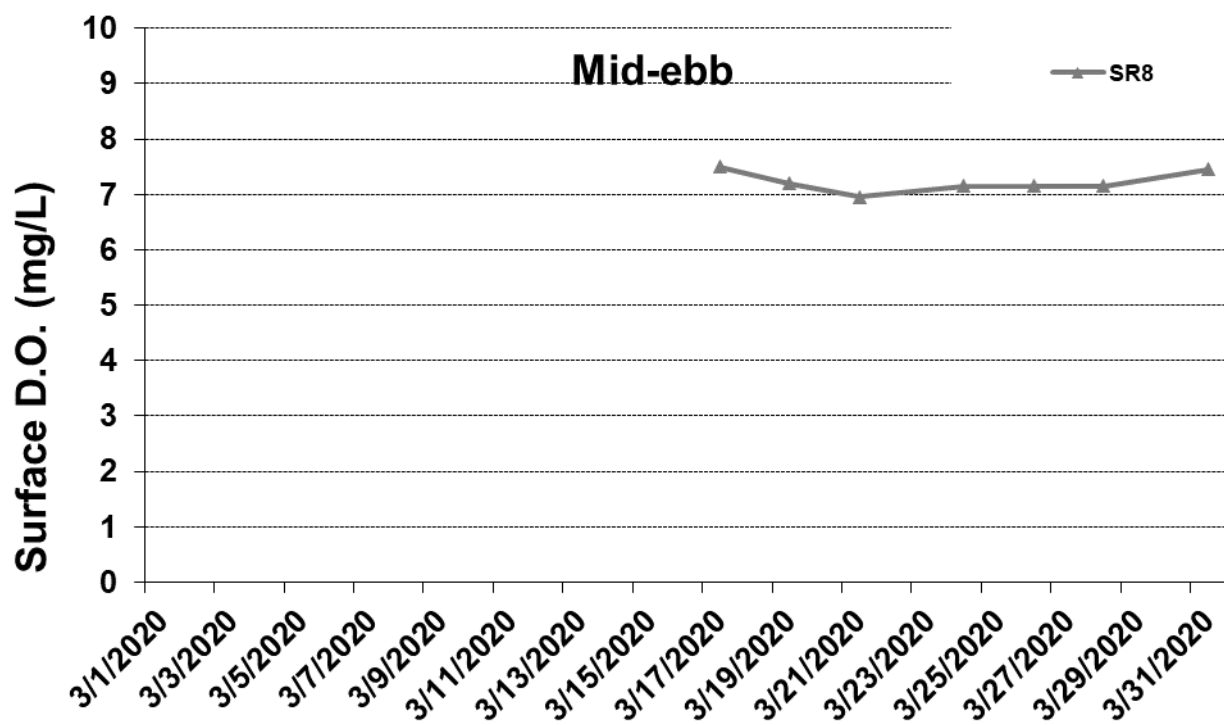


Figure J18 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR8. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



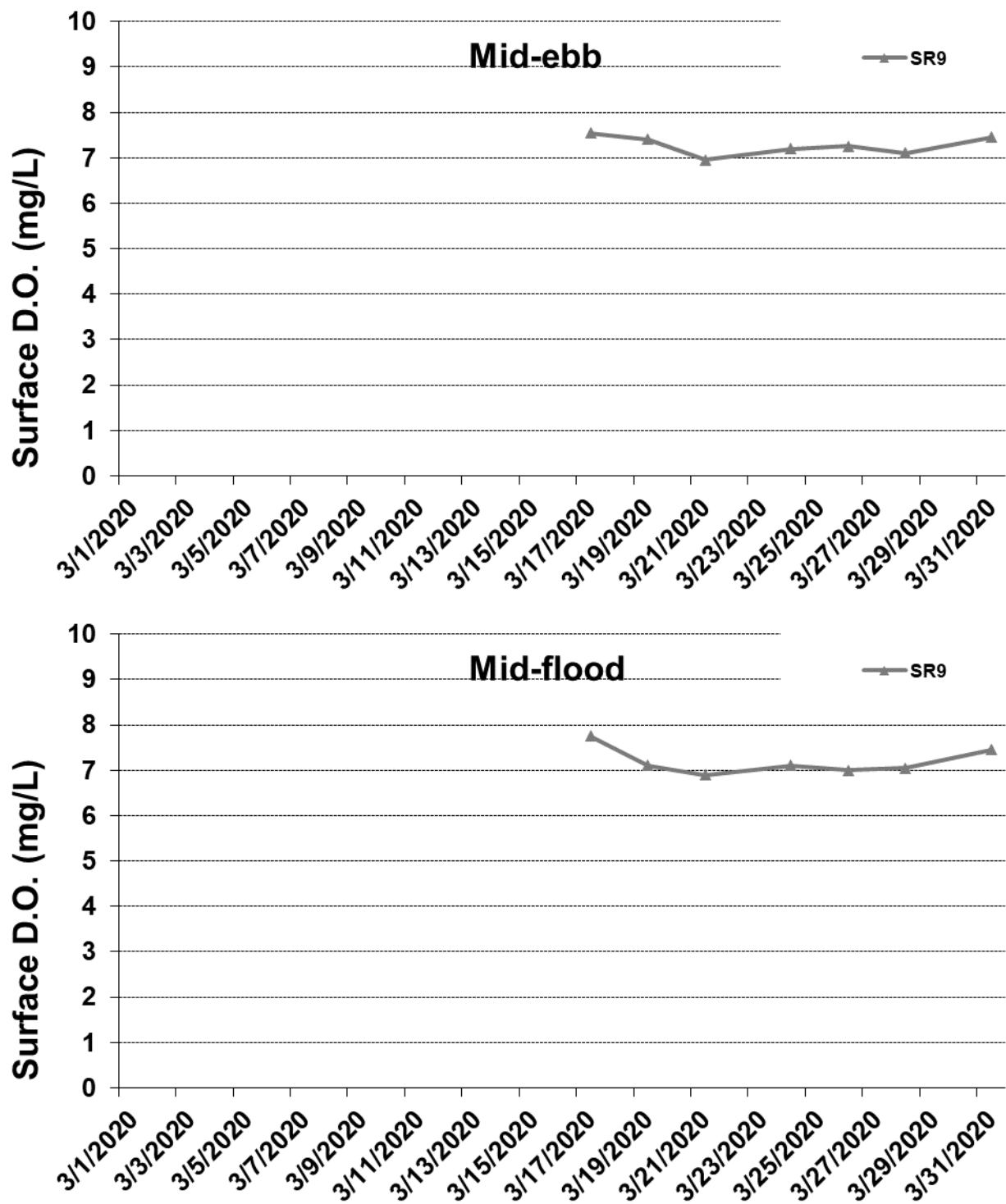


Figure J19 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 17 March 2020 and 31 March 2020 at SR4A. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



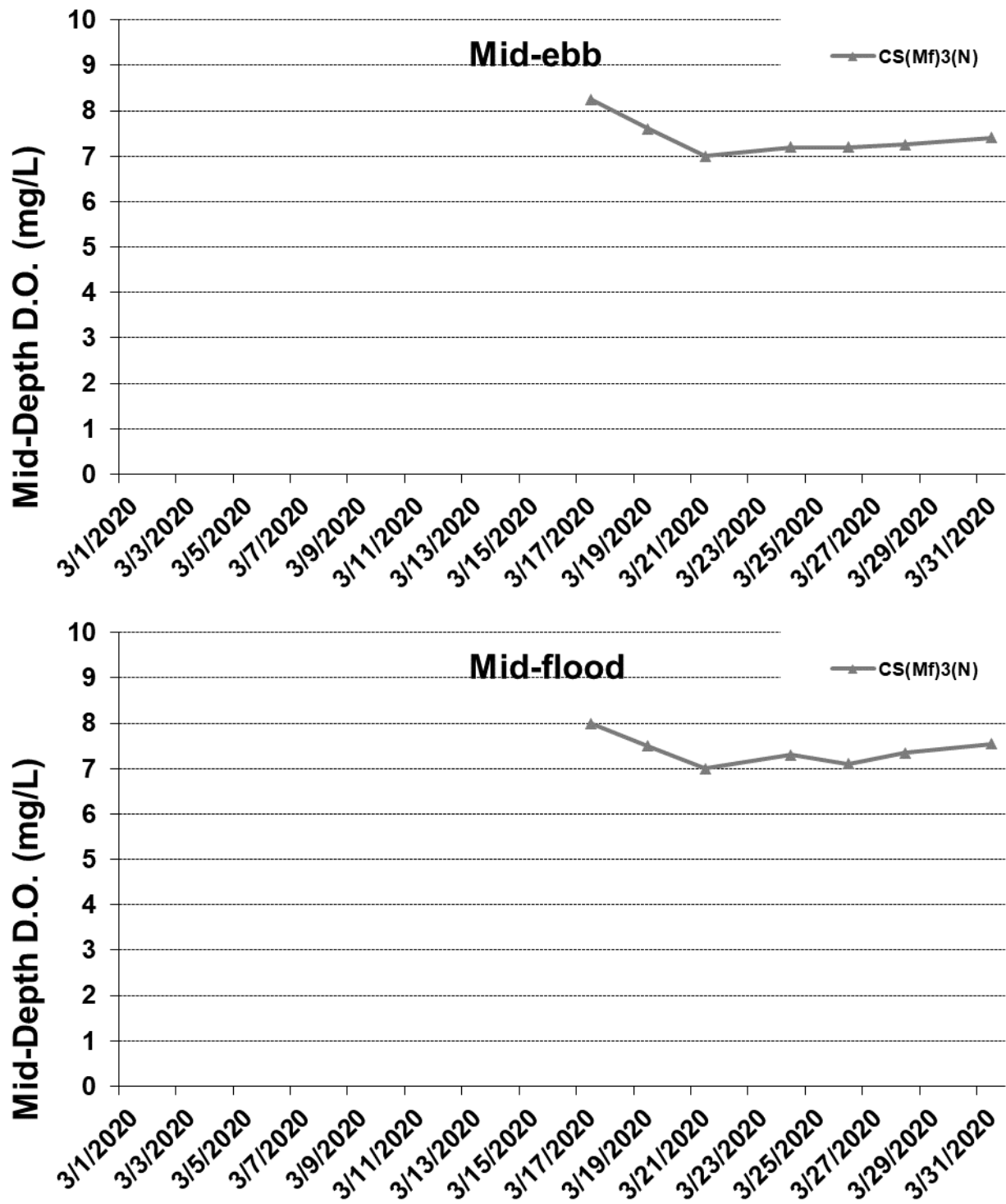


Figure J20 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 17 March 2020 and 31 March 2020 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



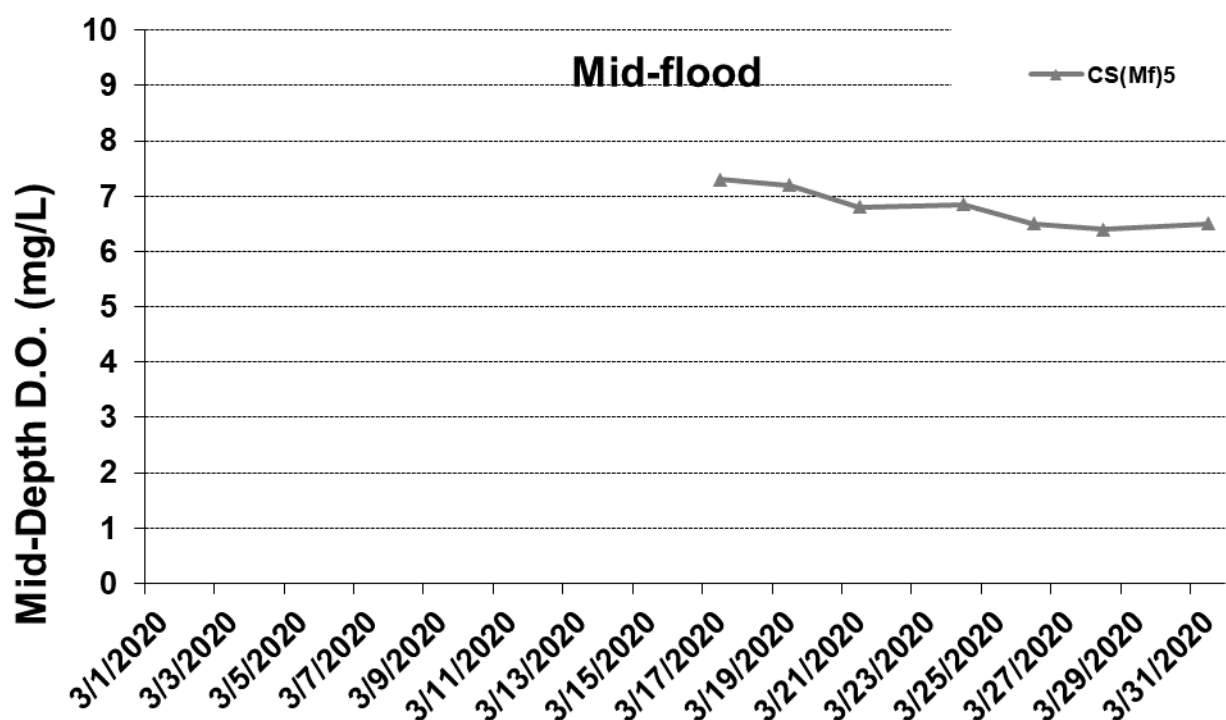
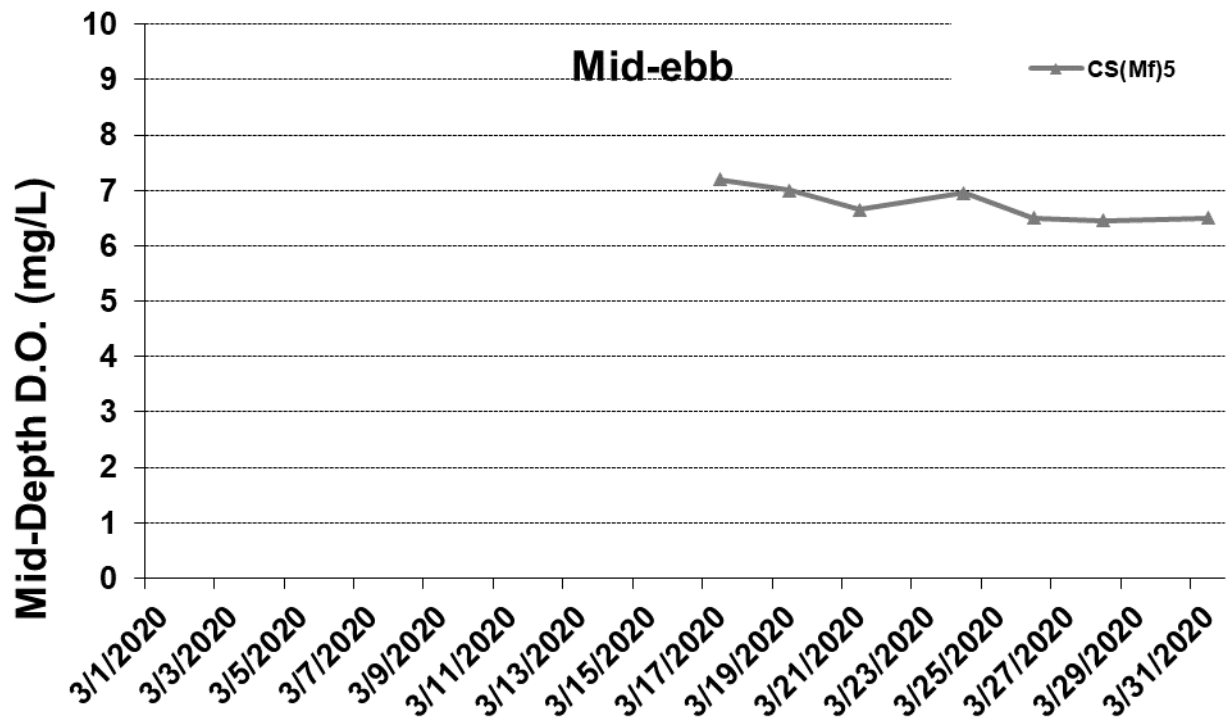


Figure J21 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 17 March 2020 and 31 March 2020 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



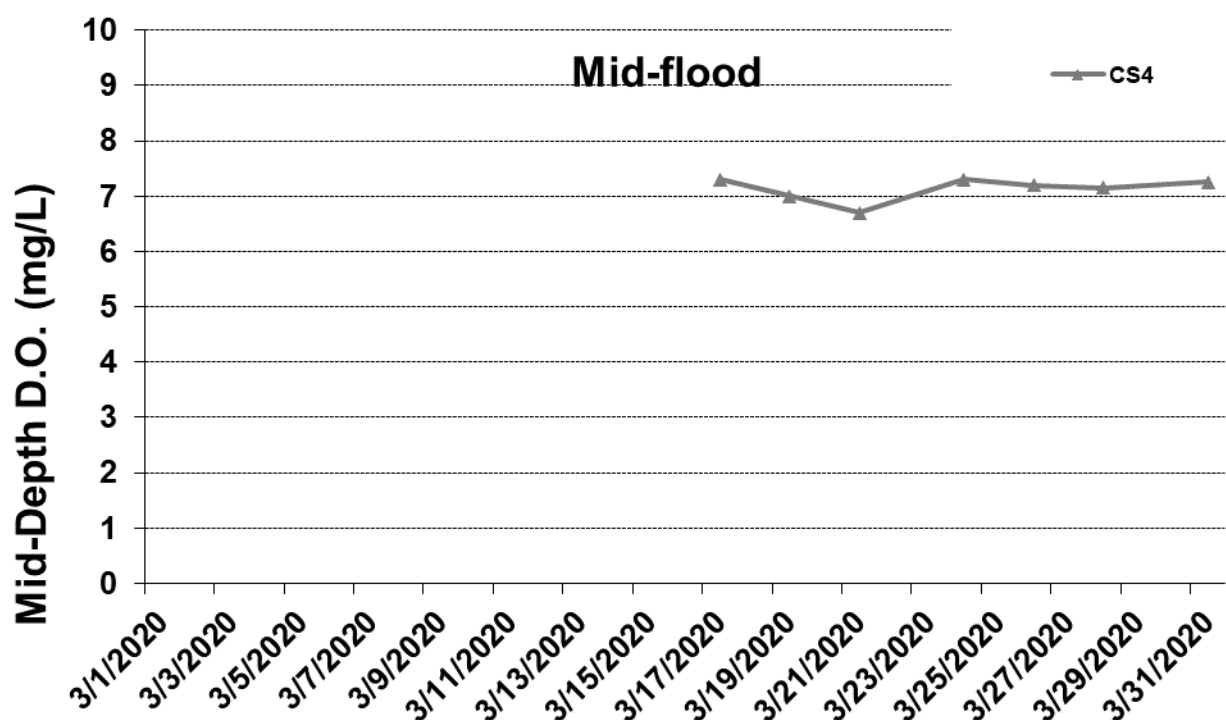
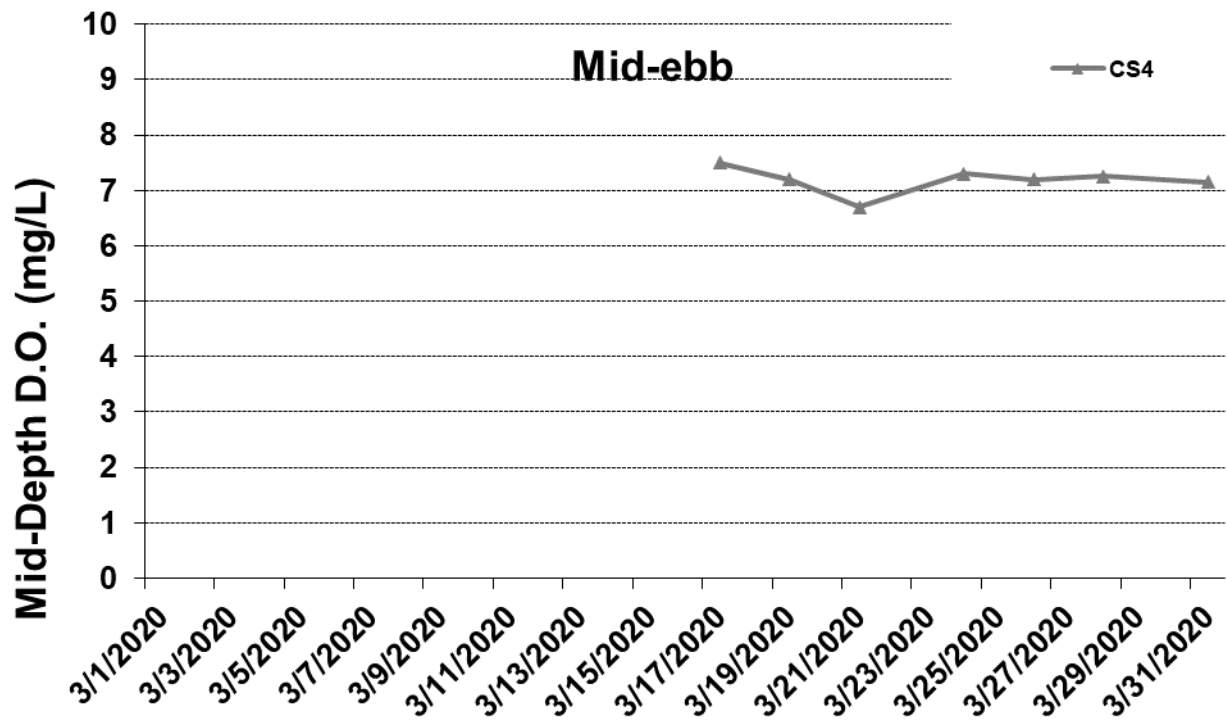


Figure J22 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 17 March 2020 and 31 March 2020 at CS4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



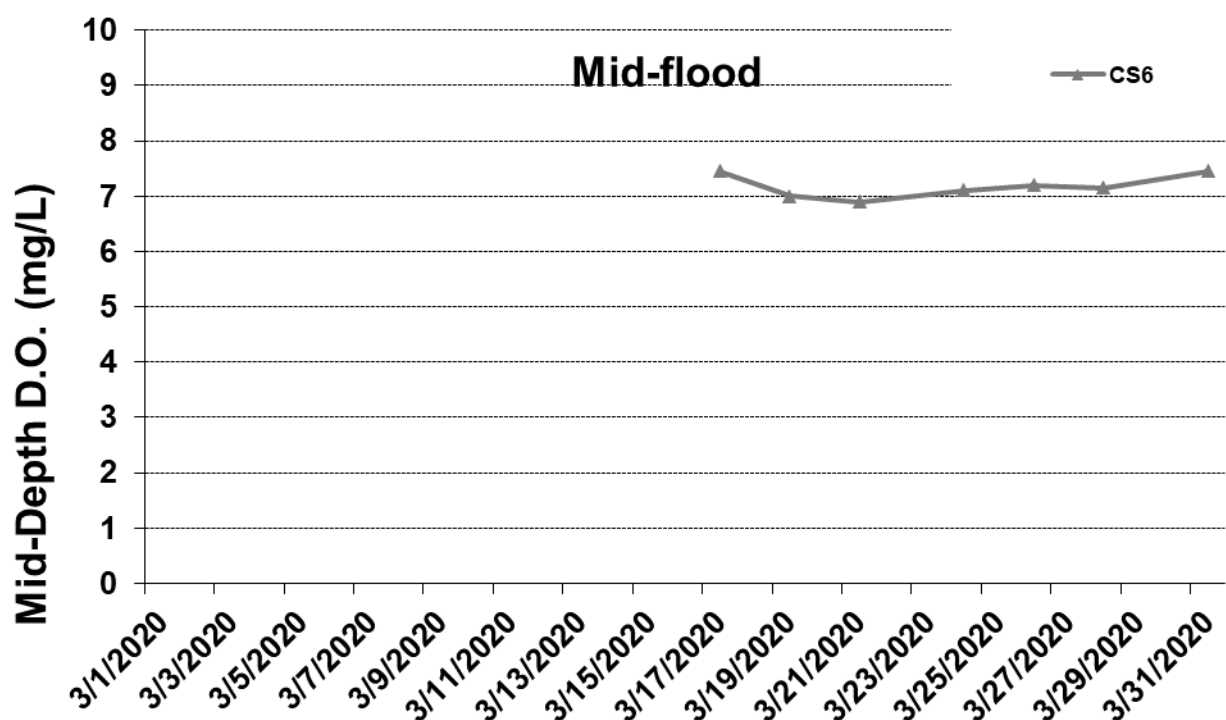
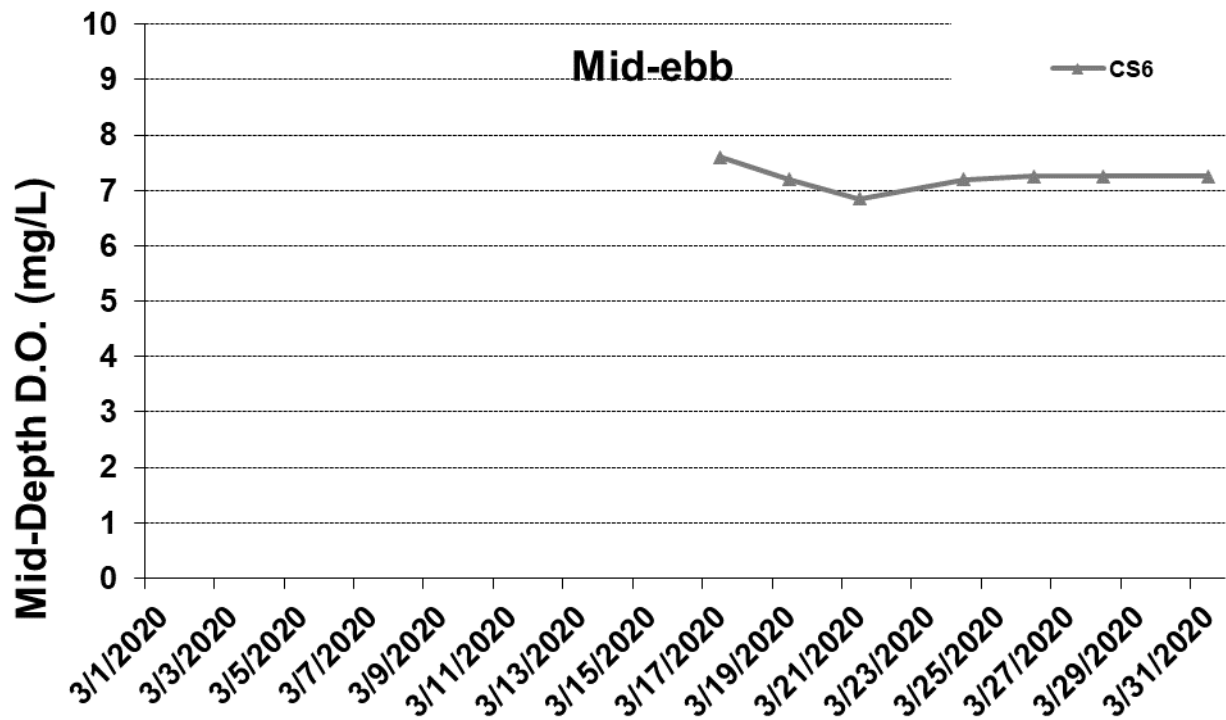


Figure J23 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 17 March 2020 and 31 March 2020 at CS6. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



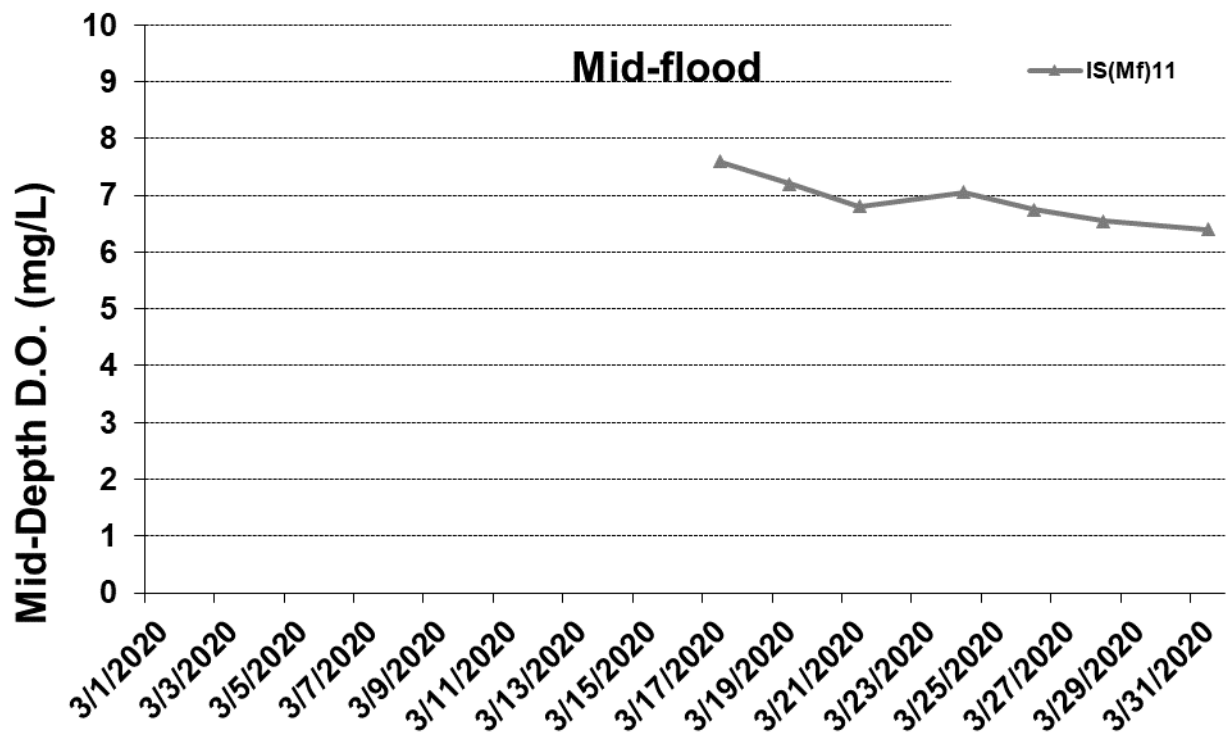
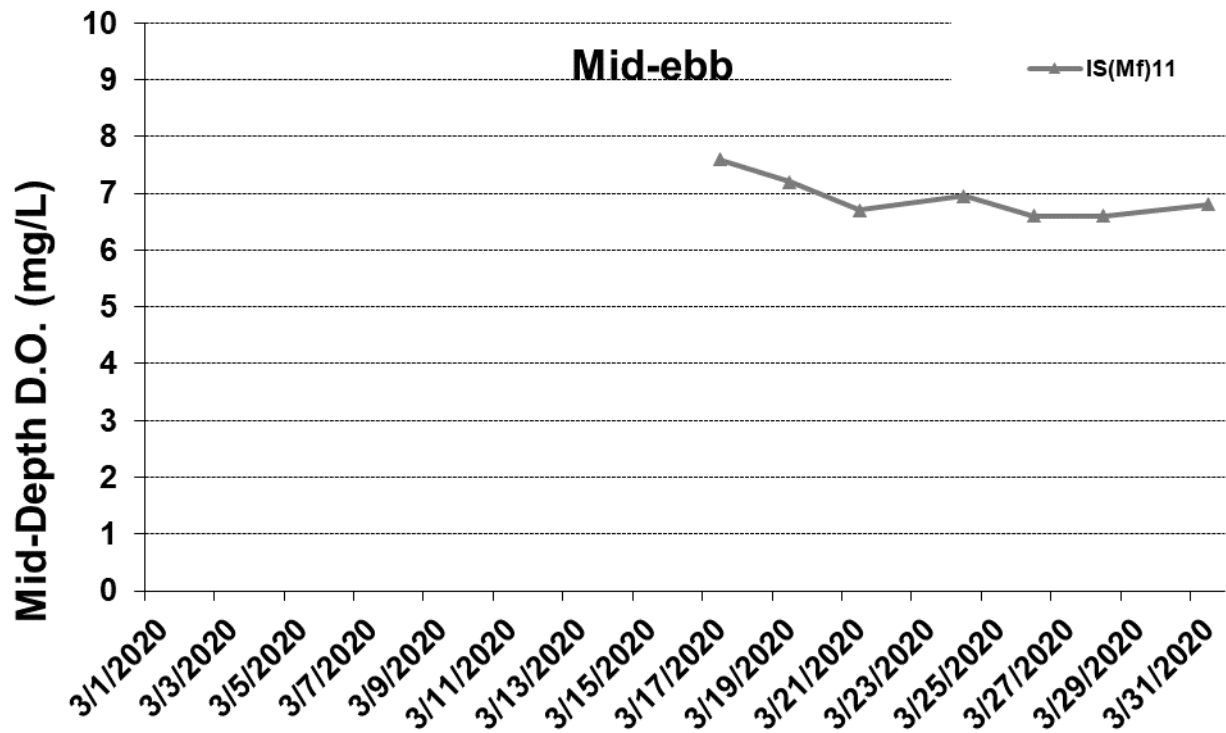


Figure J24 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



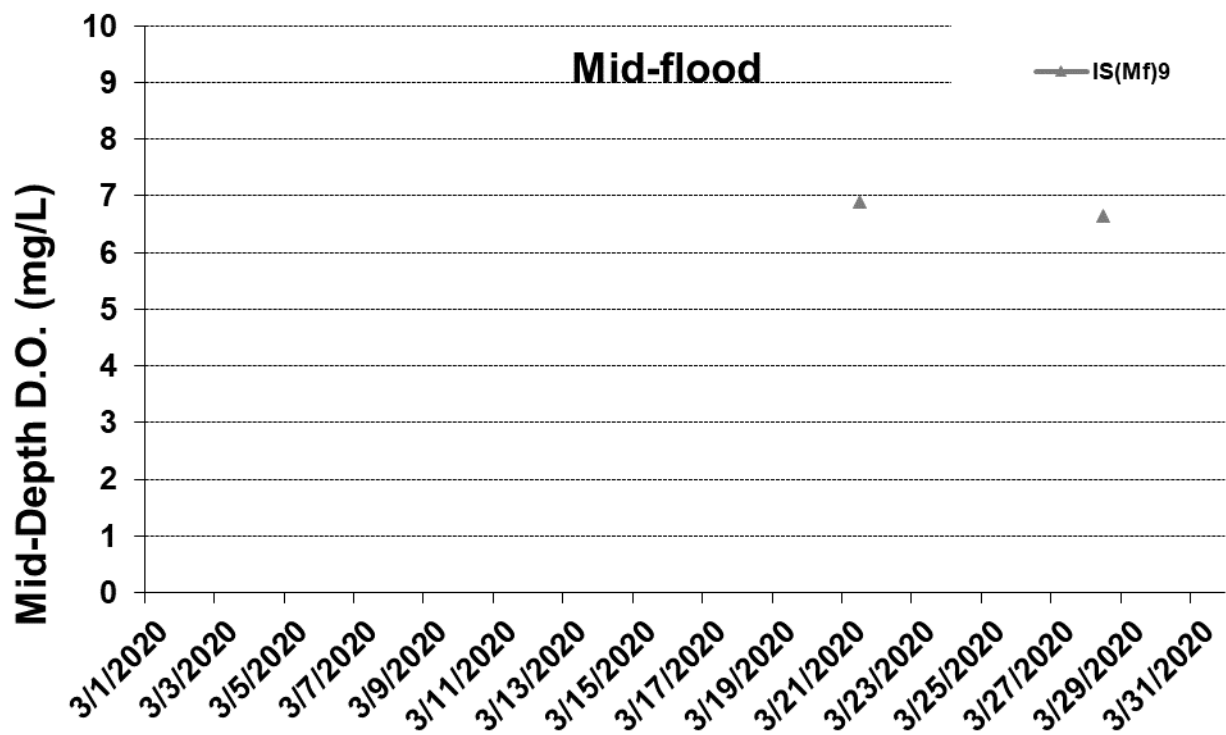
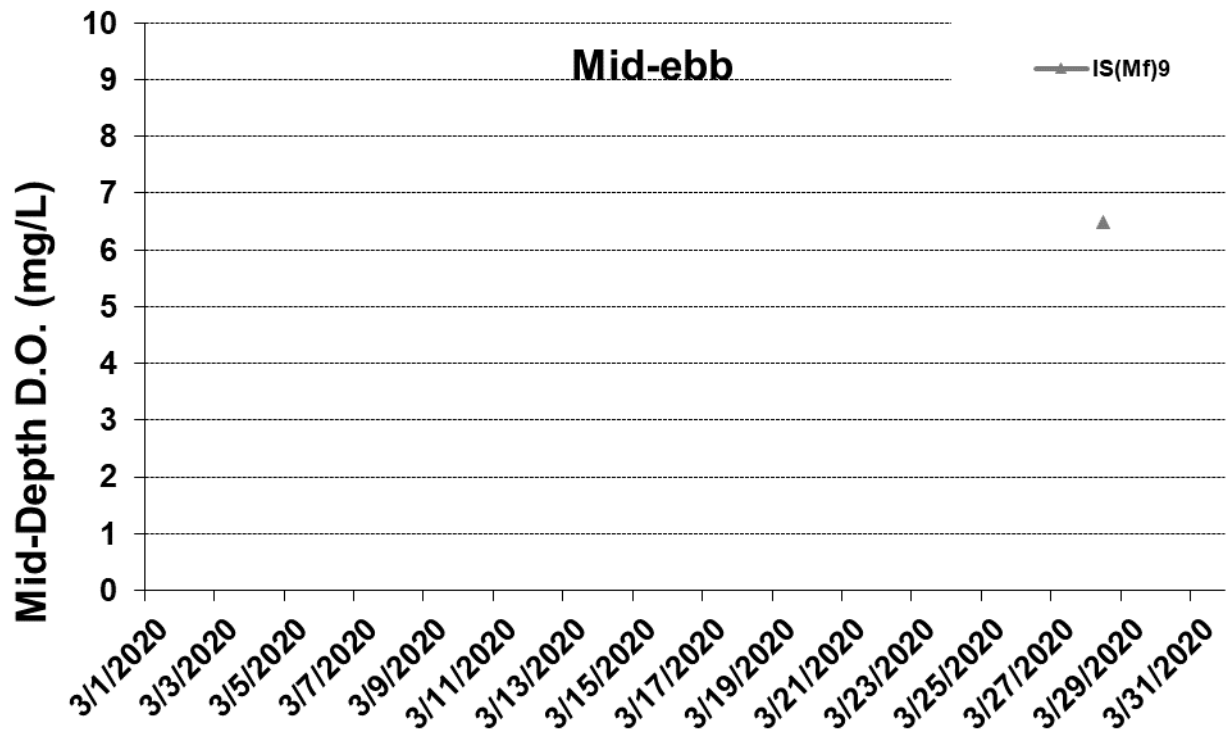


Figure J25 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



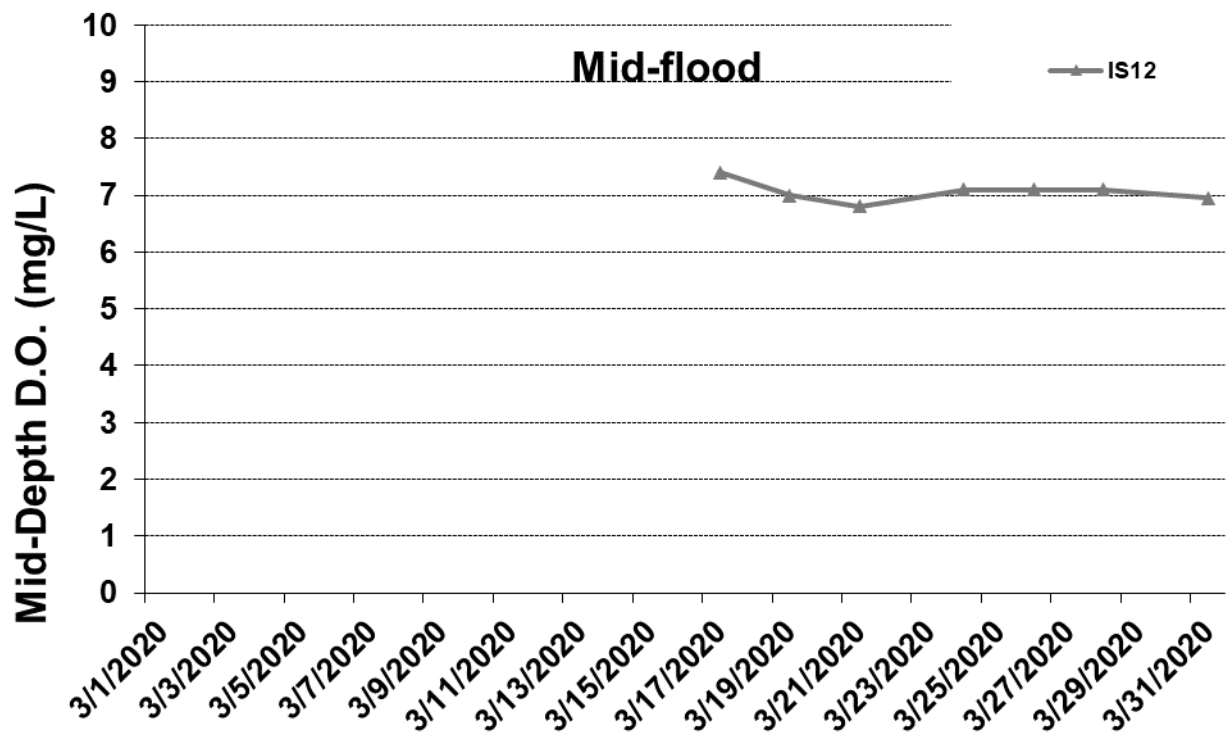
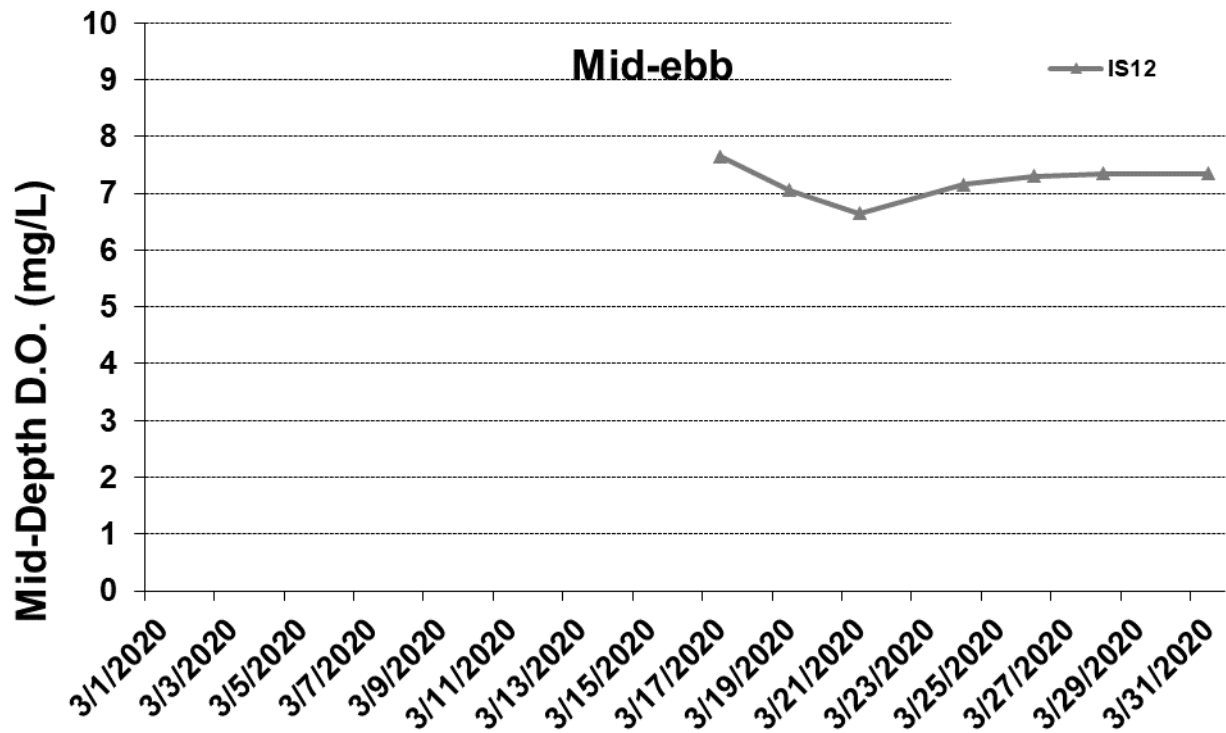


Figure J26 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS12. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



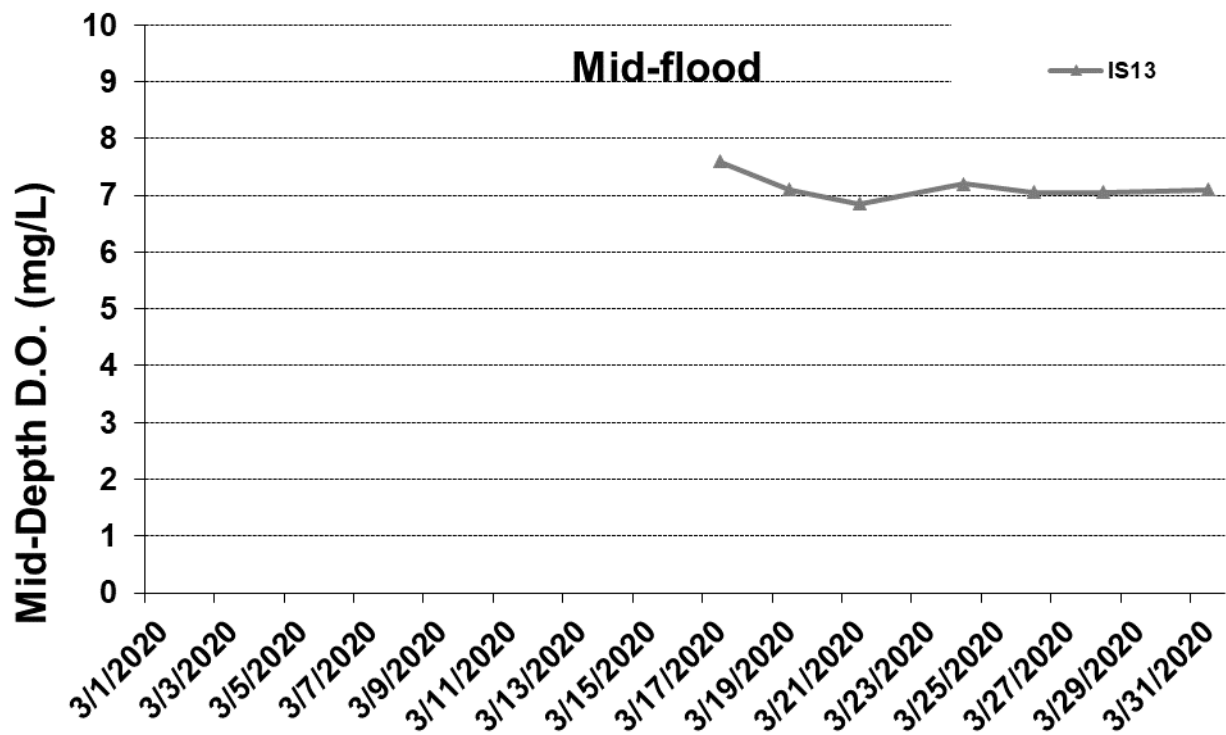
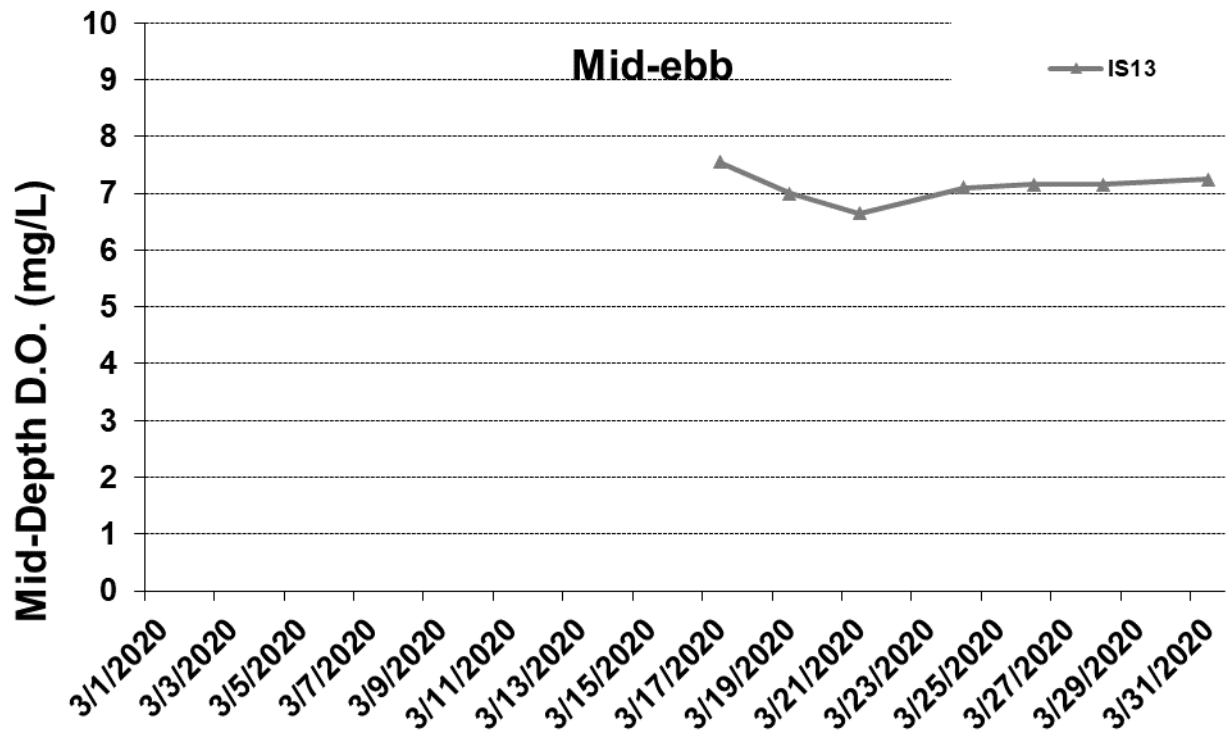


Figure J27 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS13. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



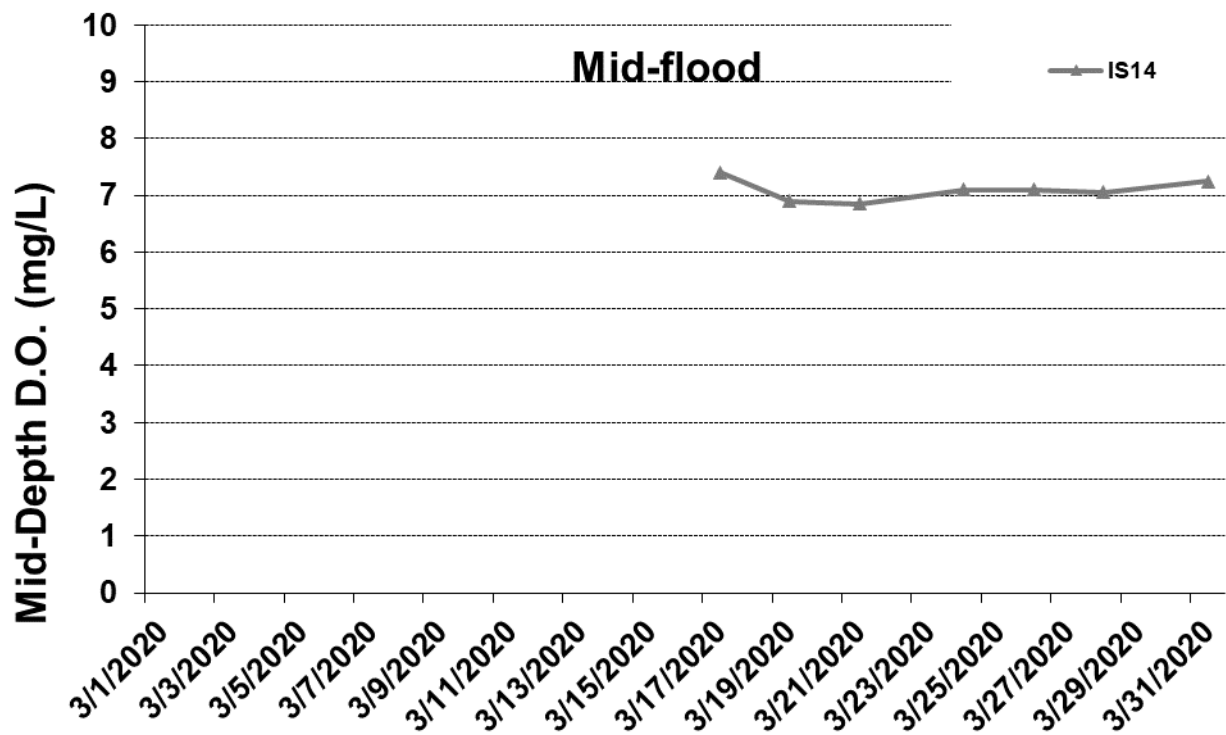
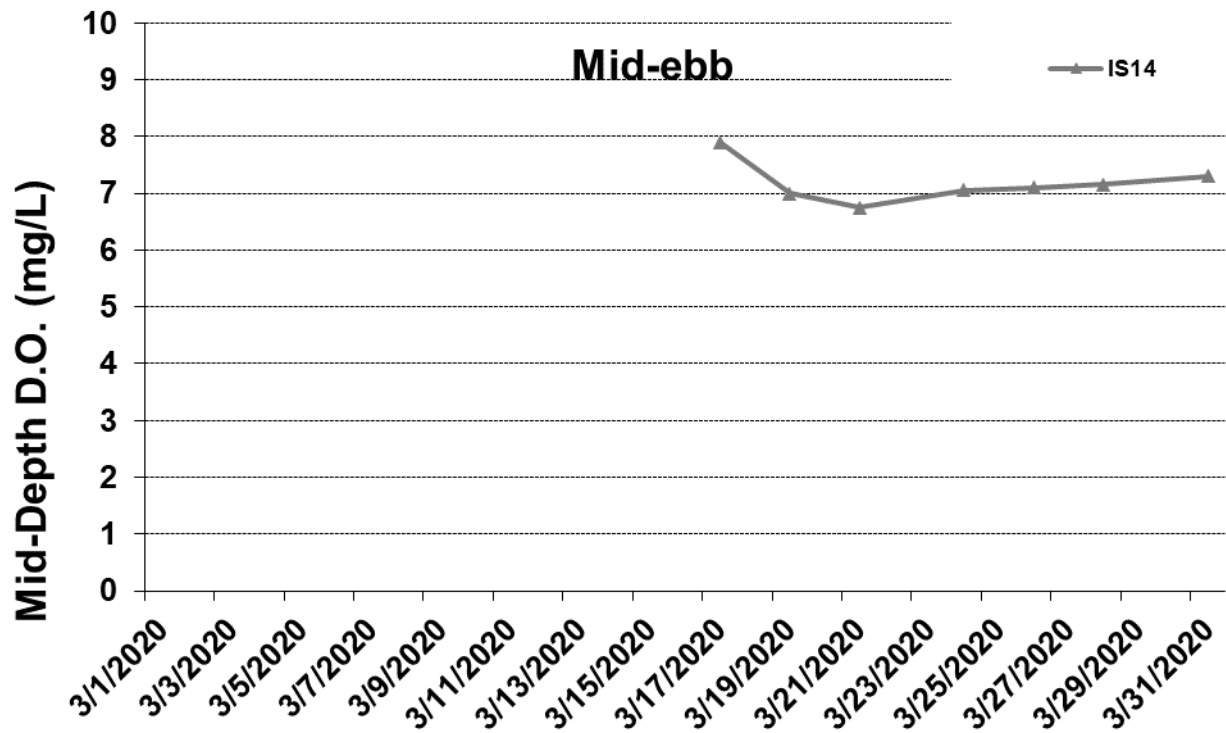


Figure J28 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS14. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



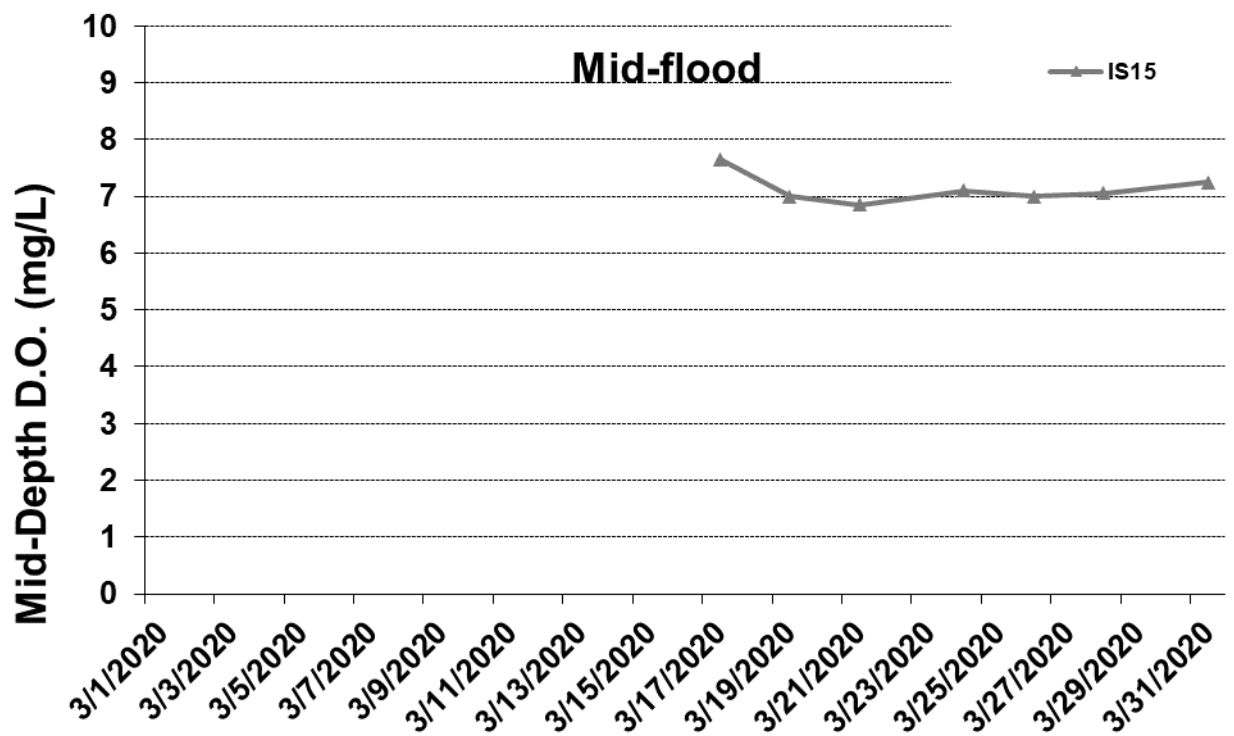
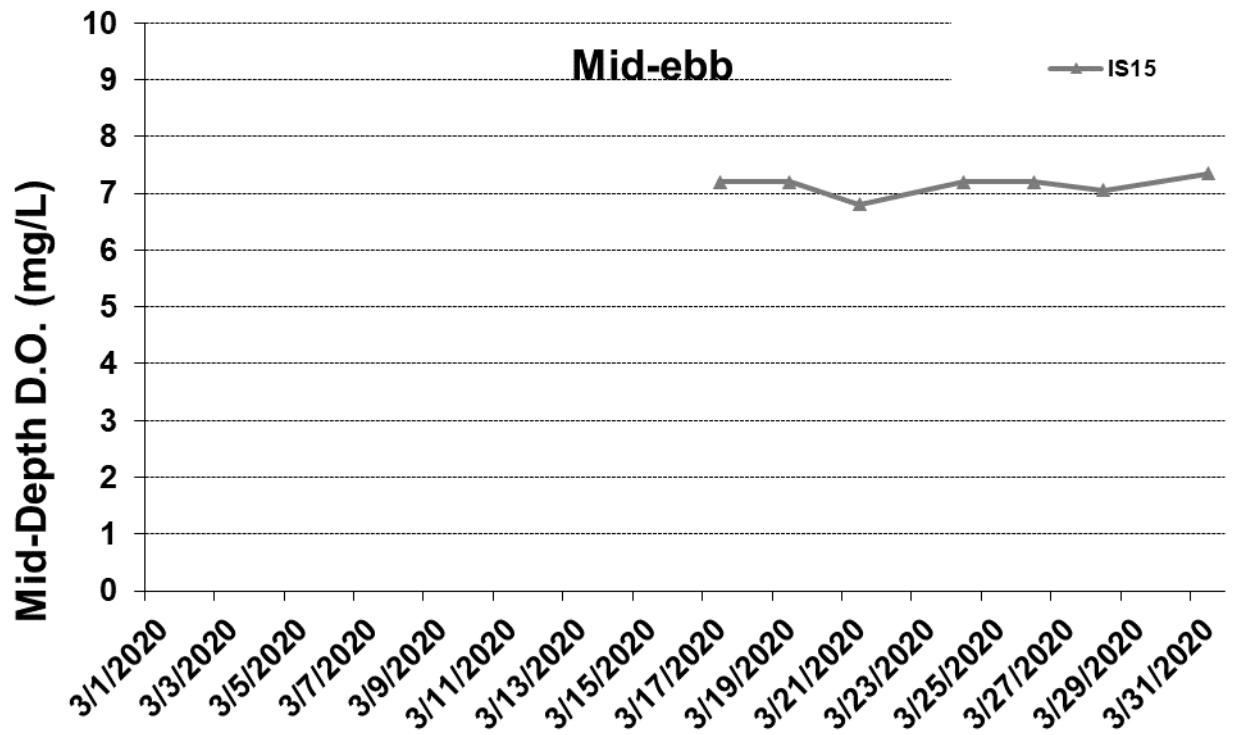


Figure J29 Post Construction Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS15. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



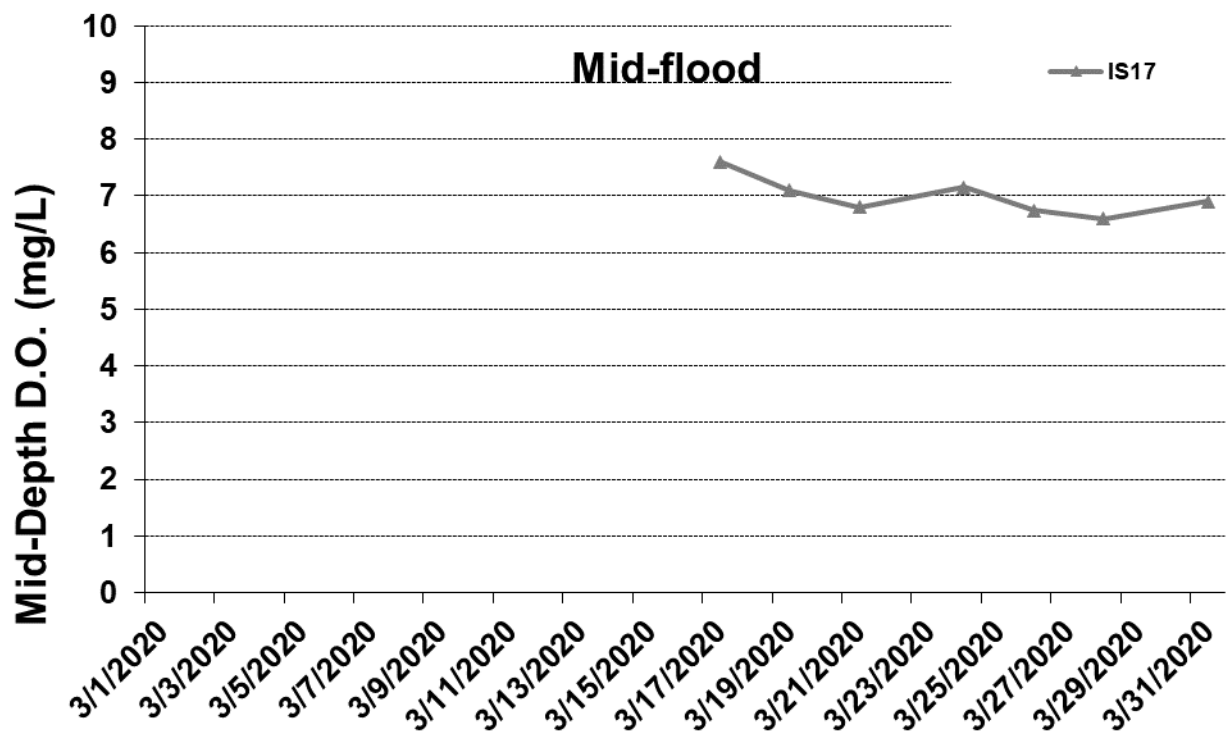
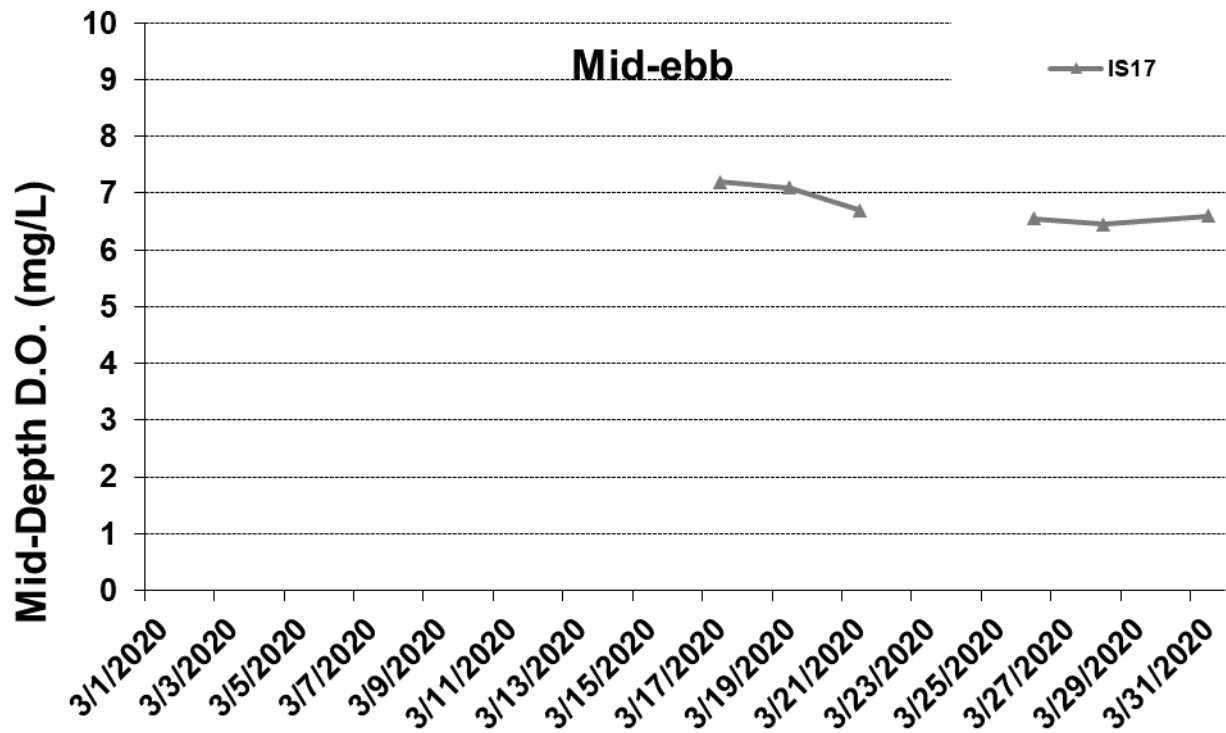


Figure J30 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at IS17. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



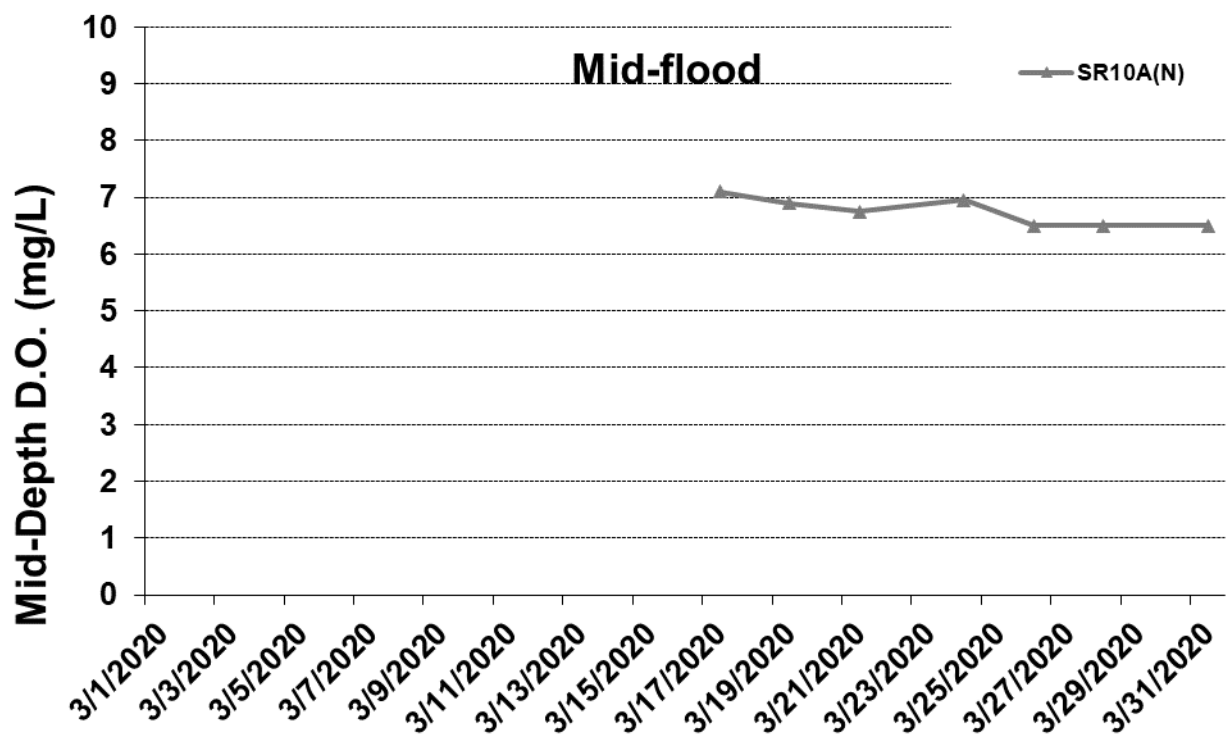
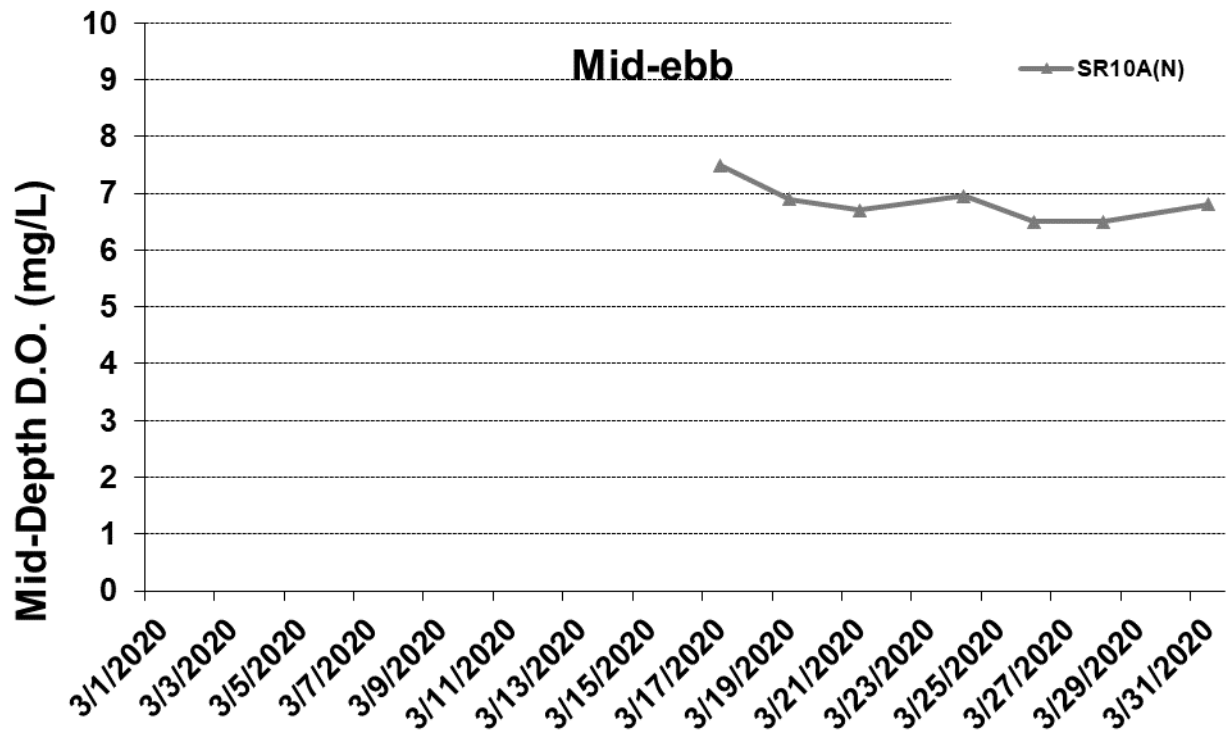


Figure J31 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth water between 17 March 2020 and 31 March 2020 at SR10A(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



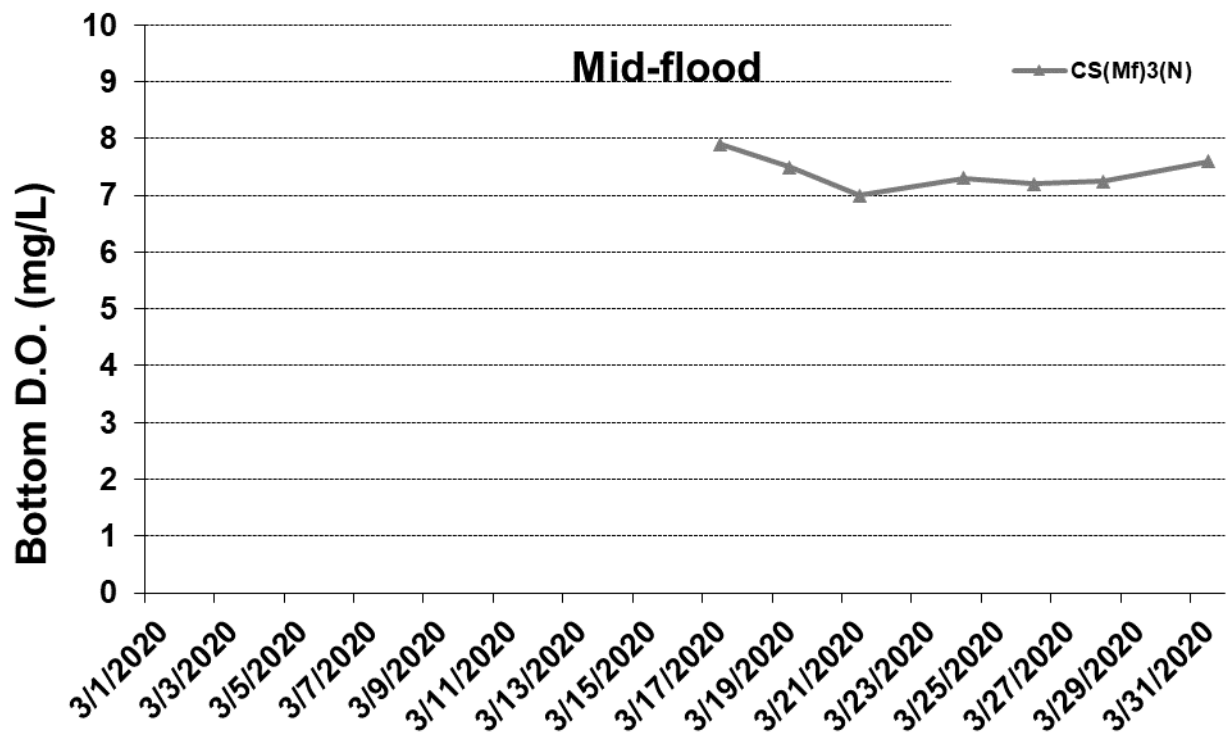
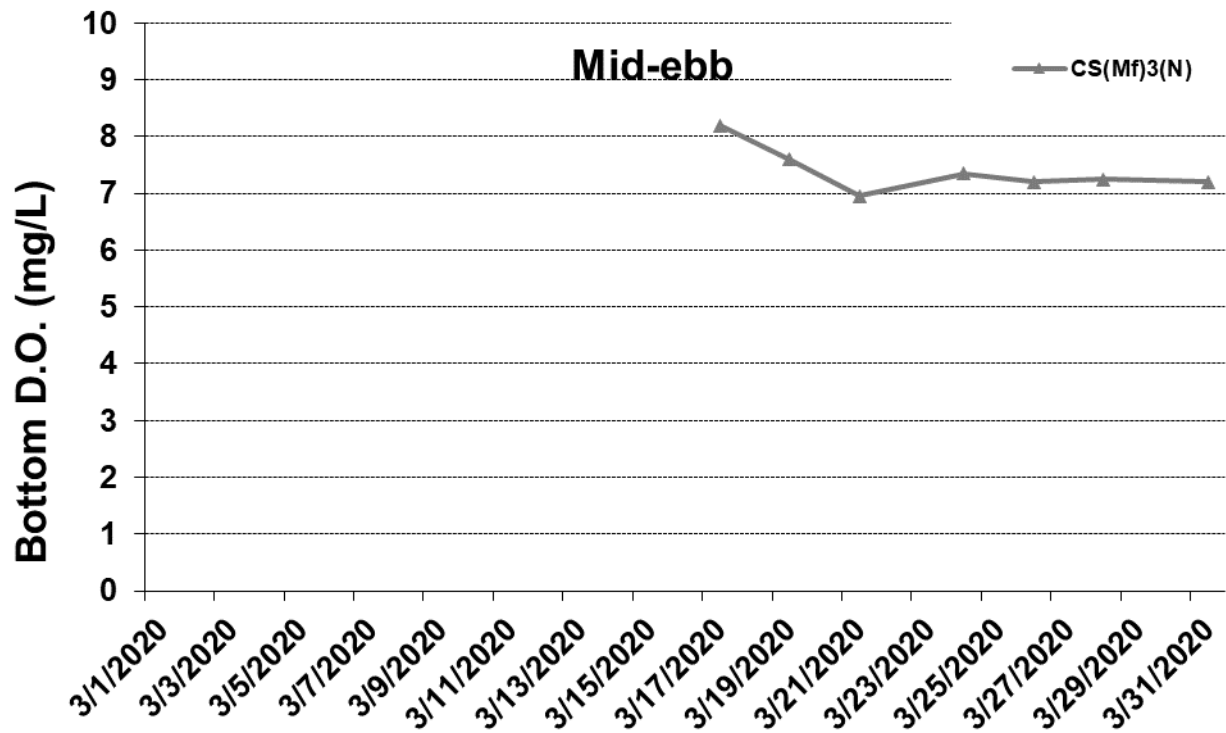


Figure J32 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



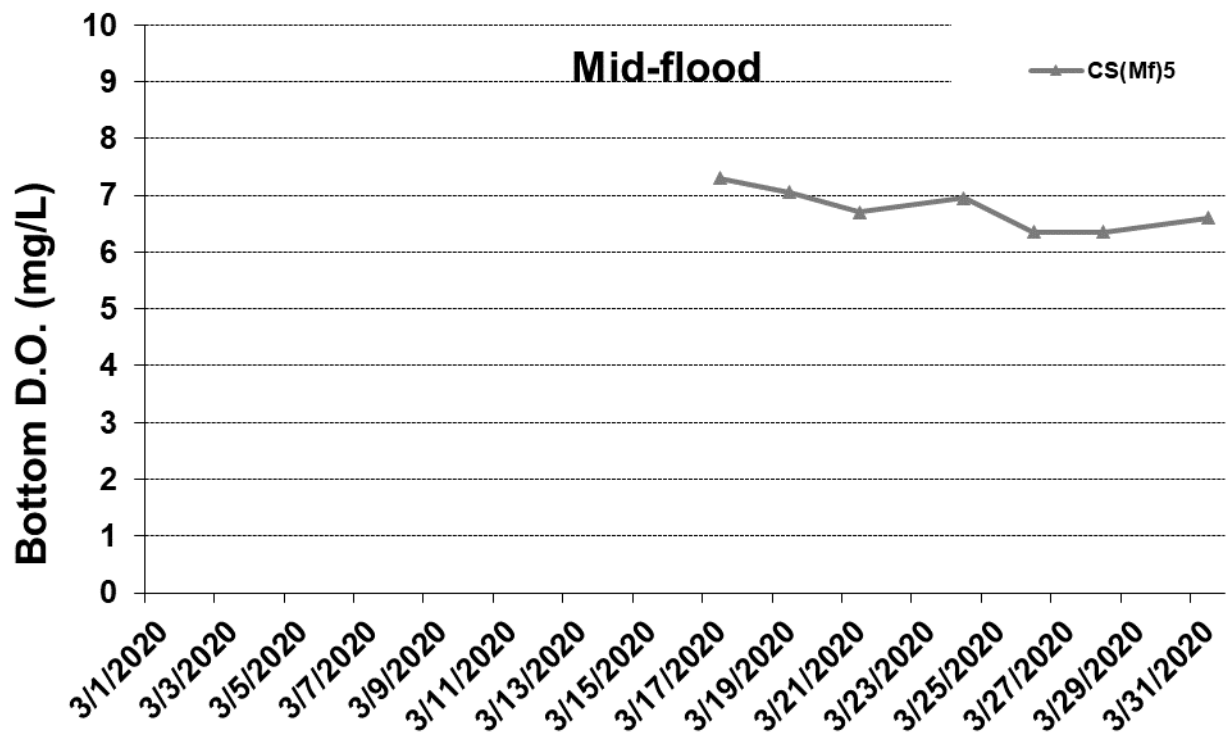
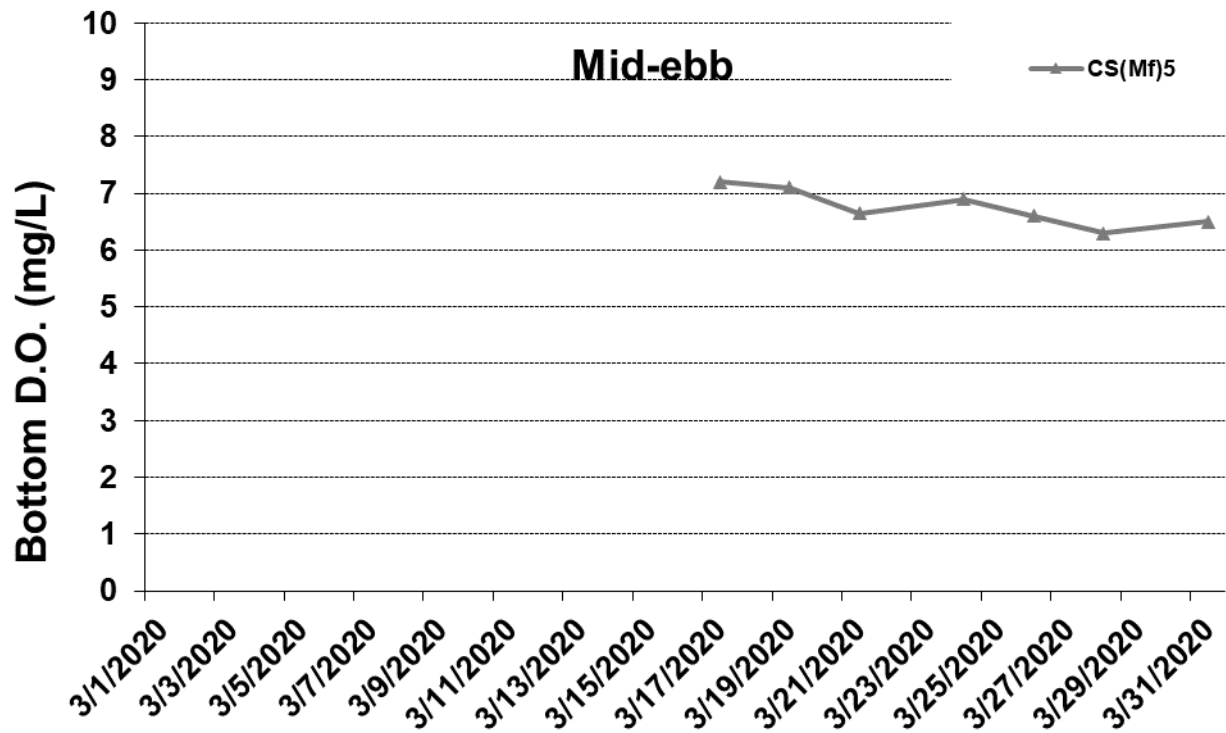


Figure J33 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



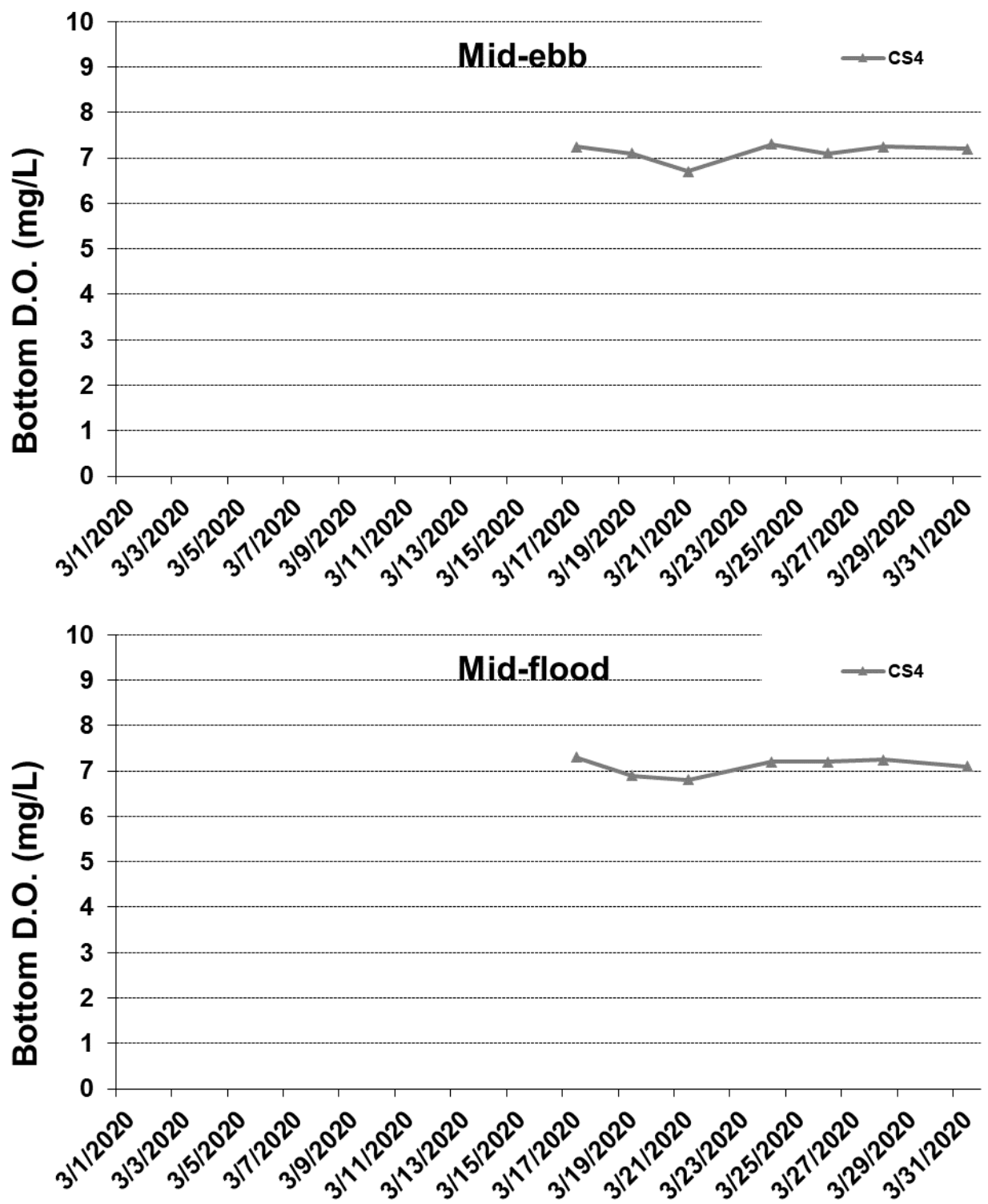


Figure J34 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at CS4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



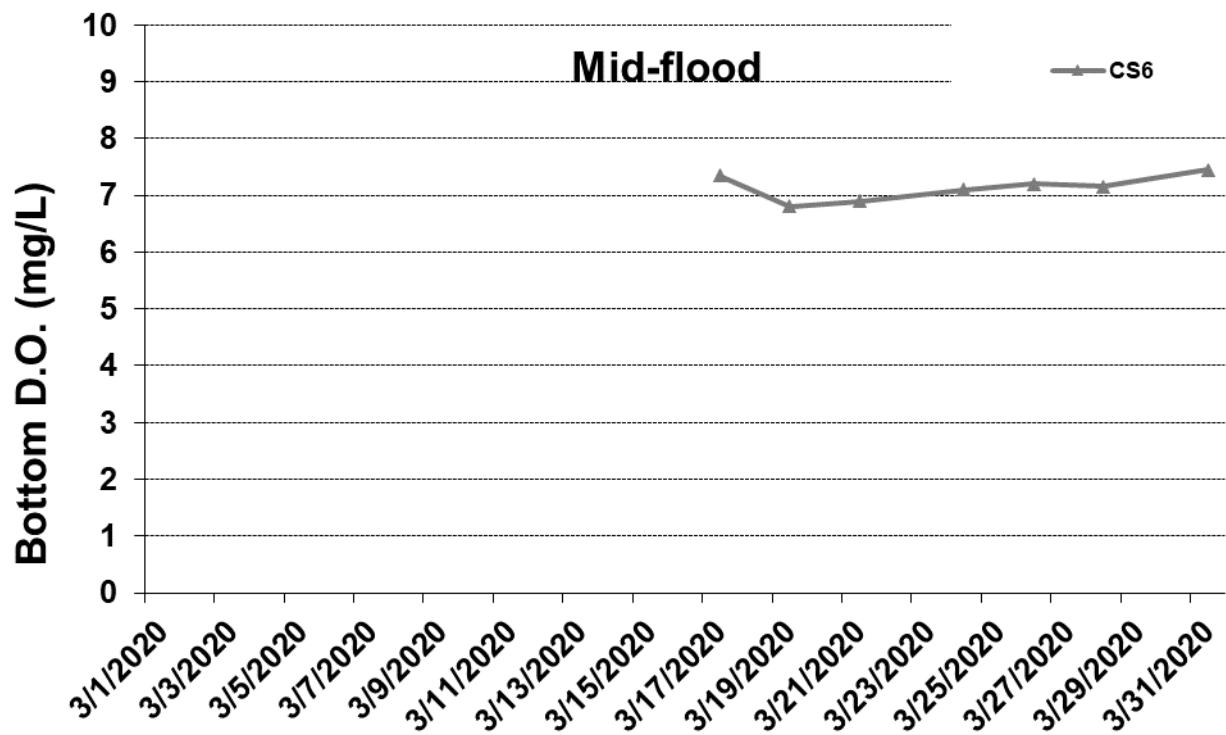
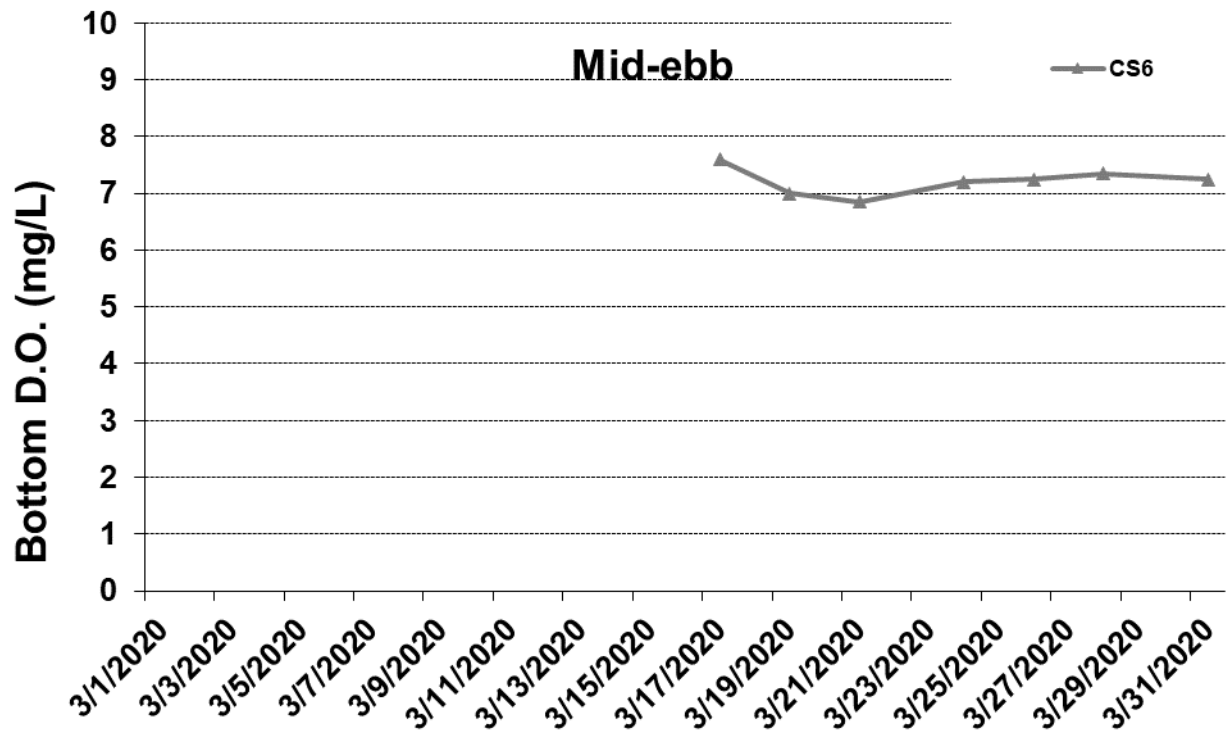


Figure J35 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at CS6. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



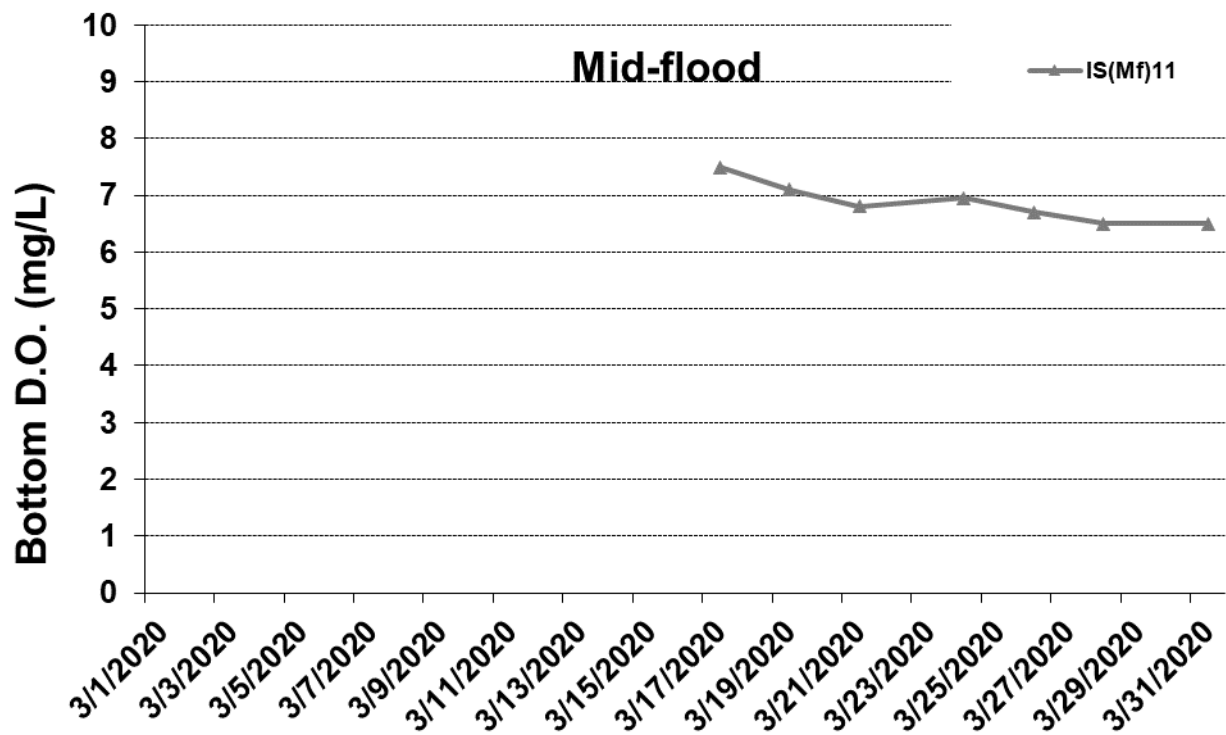
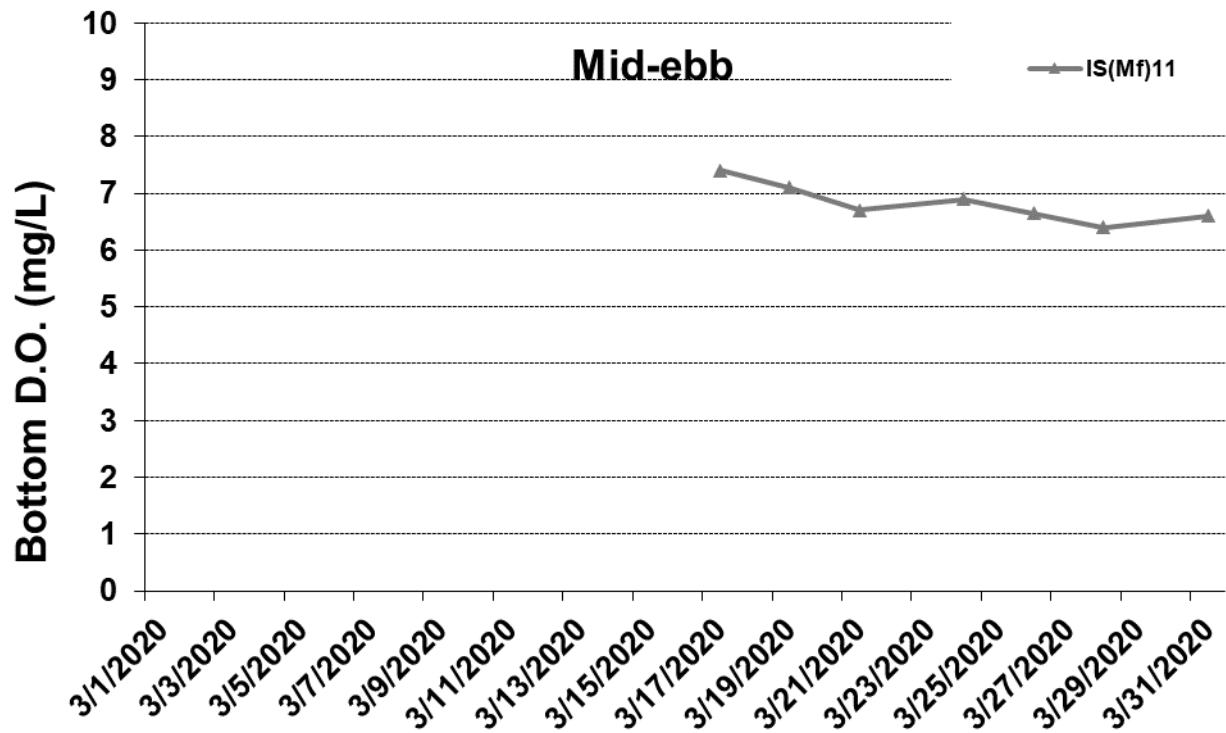


Figure J36 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



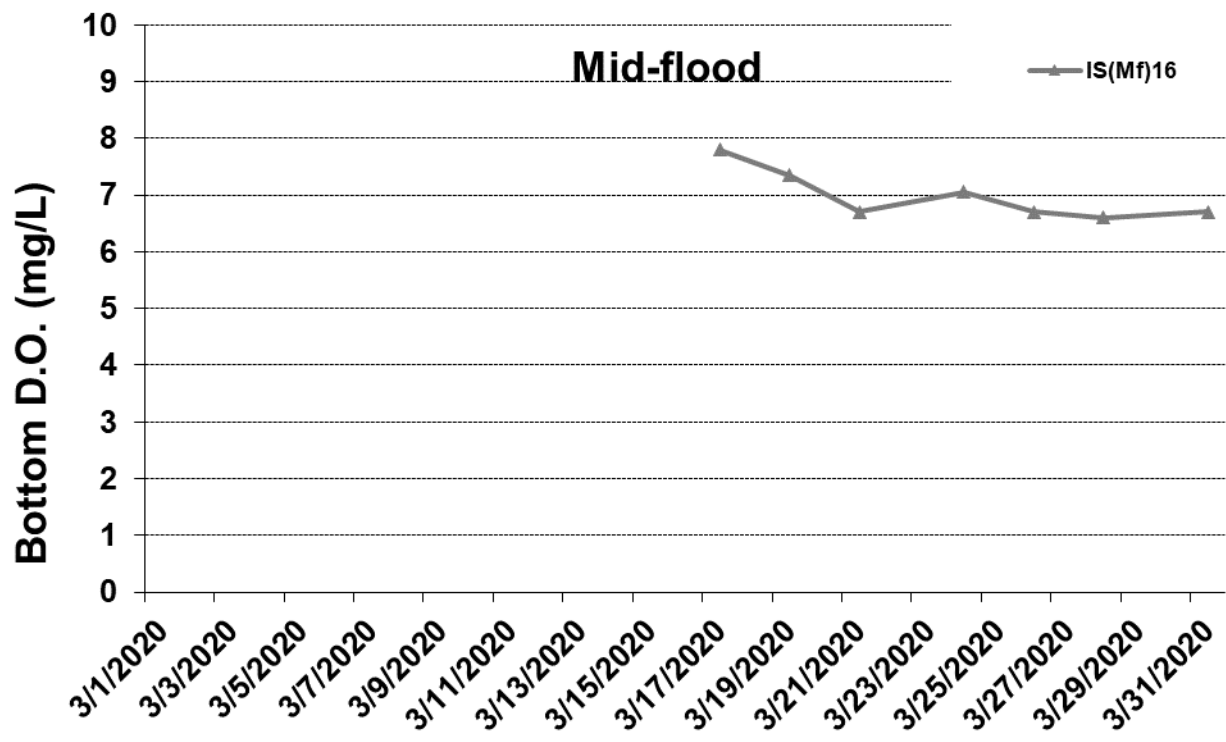
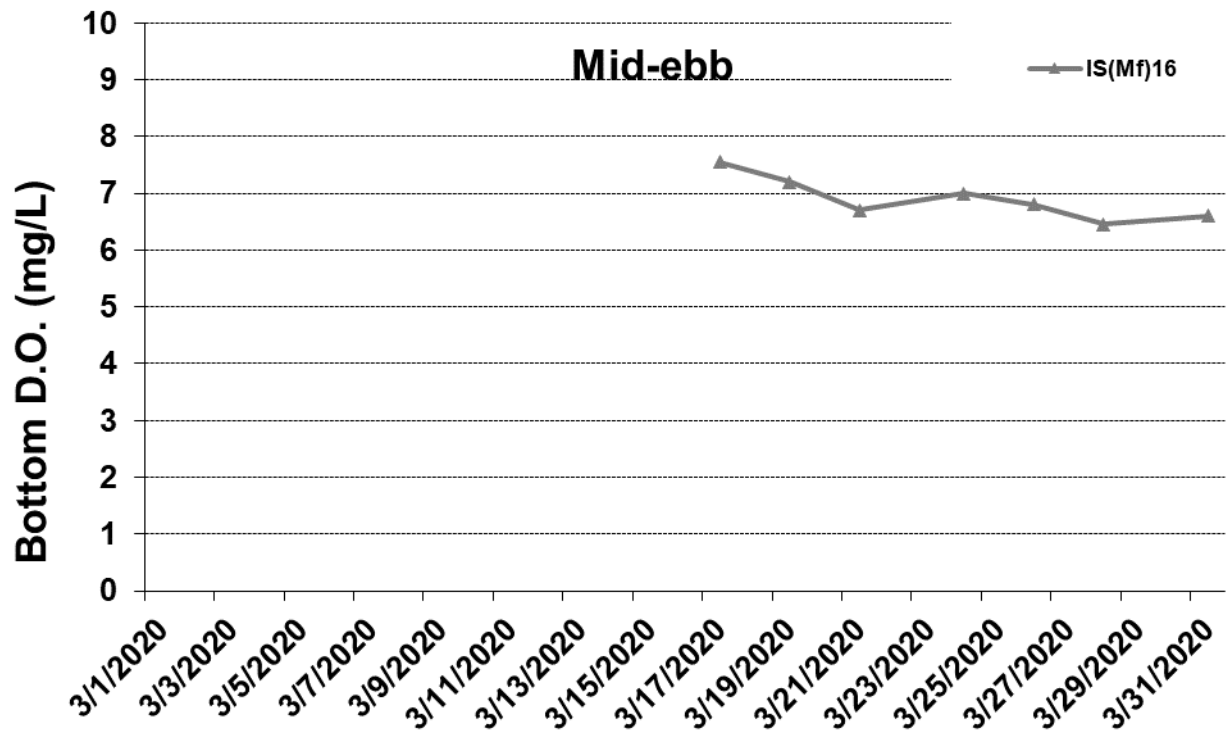


Figure J37 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



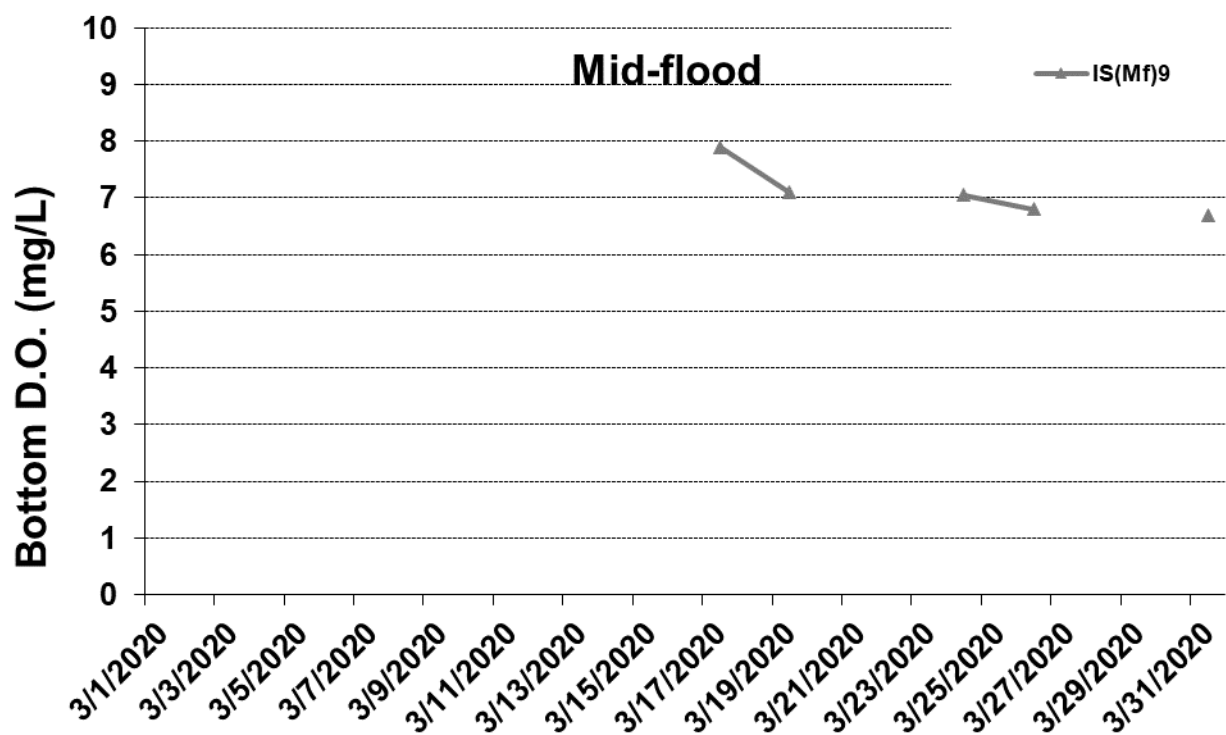
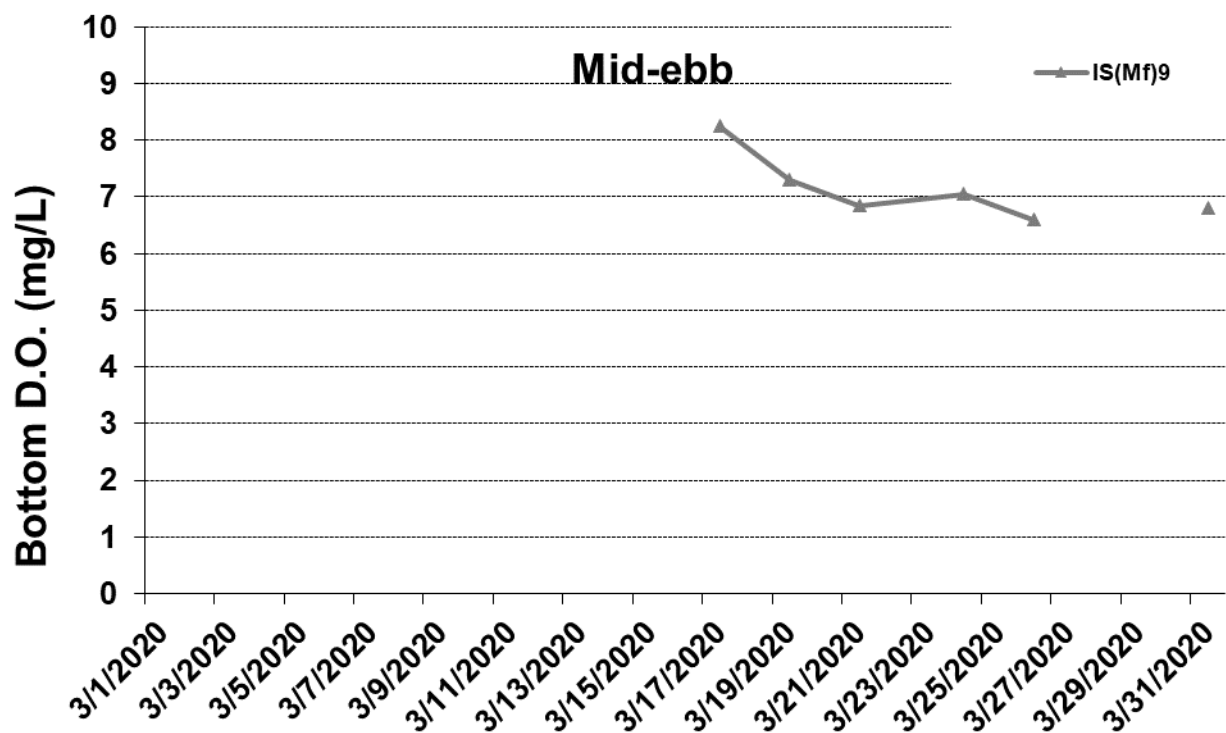


Figure J38 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



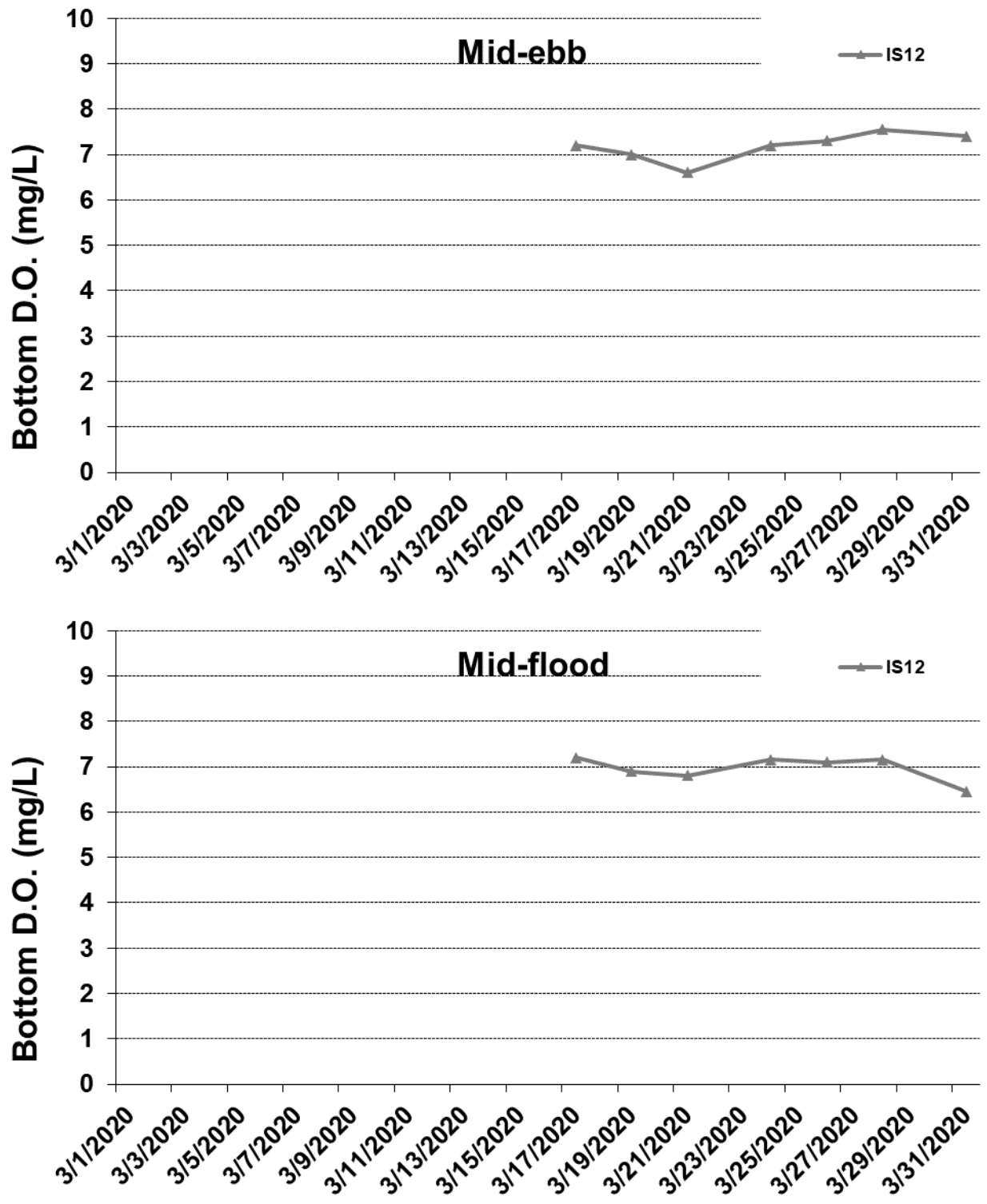


Figure J39 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS12. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



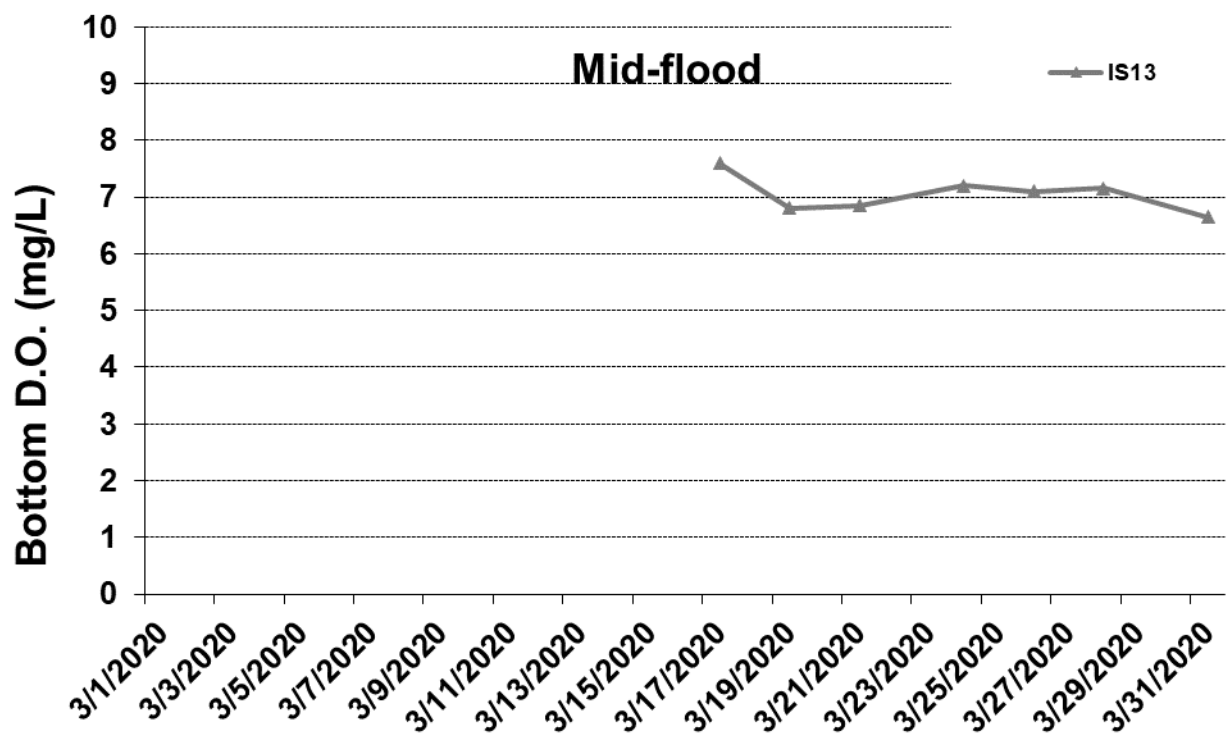
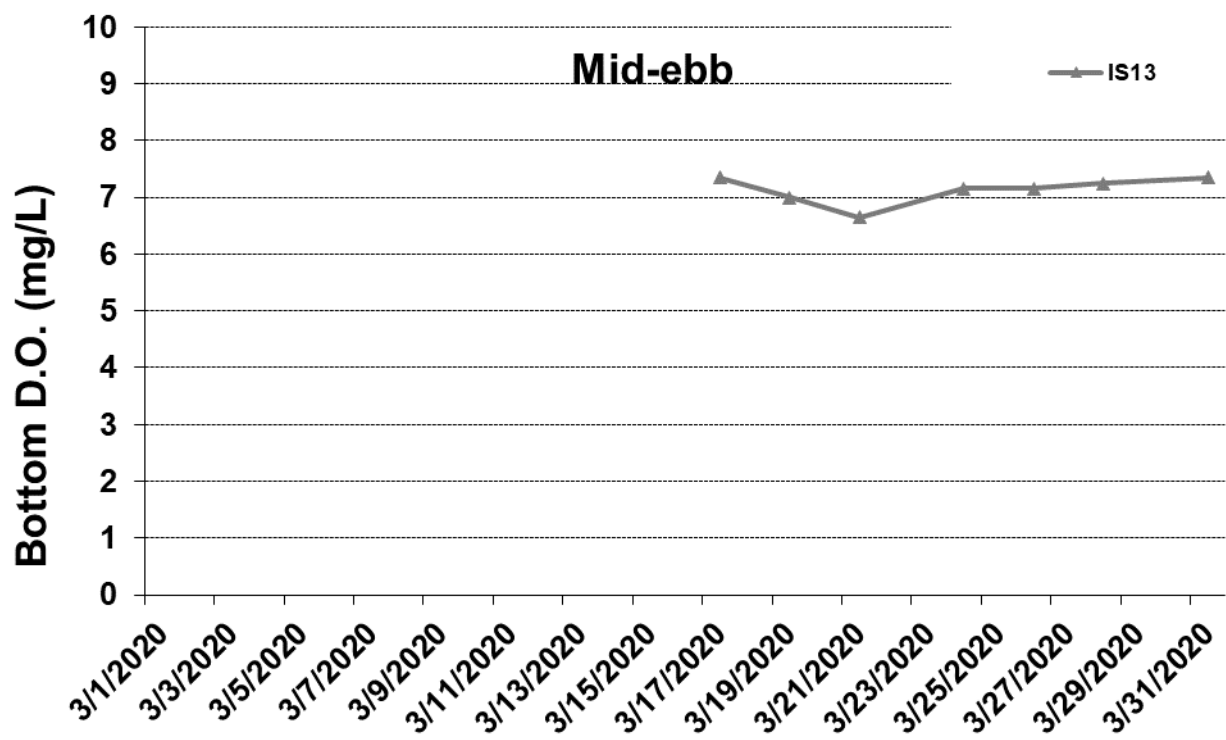


Figure J40 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS13. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



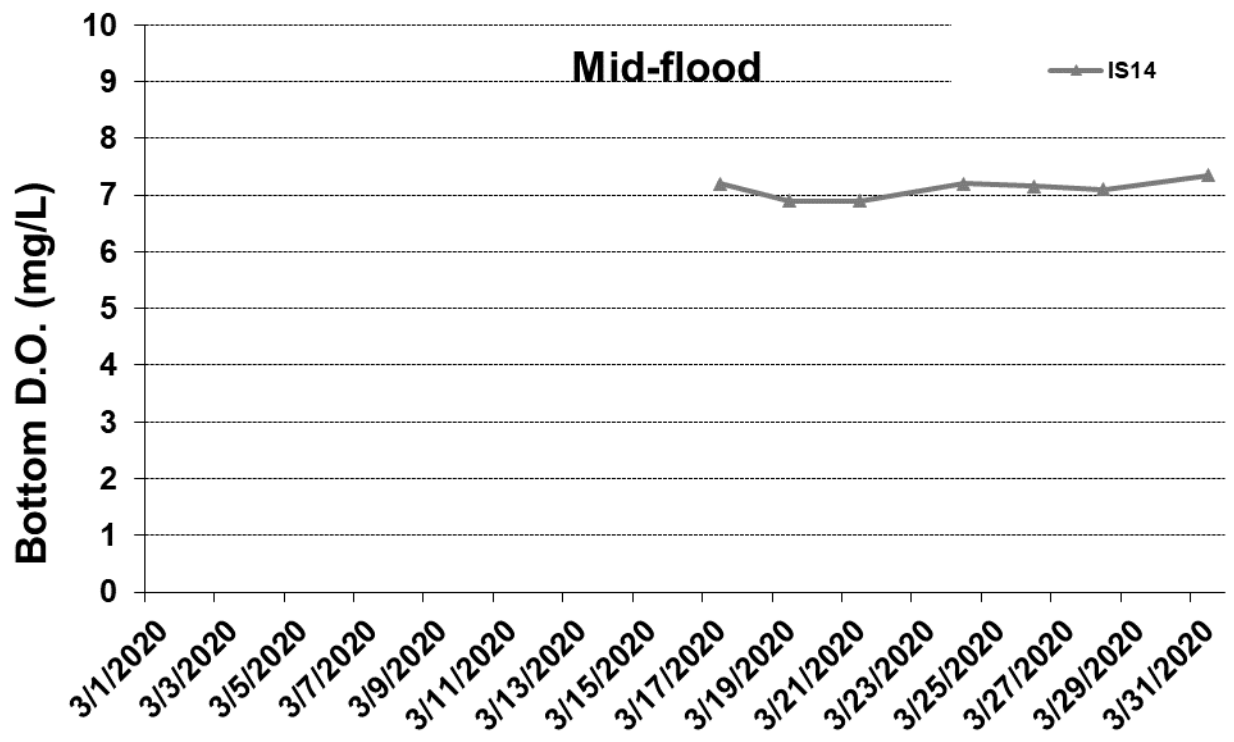
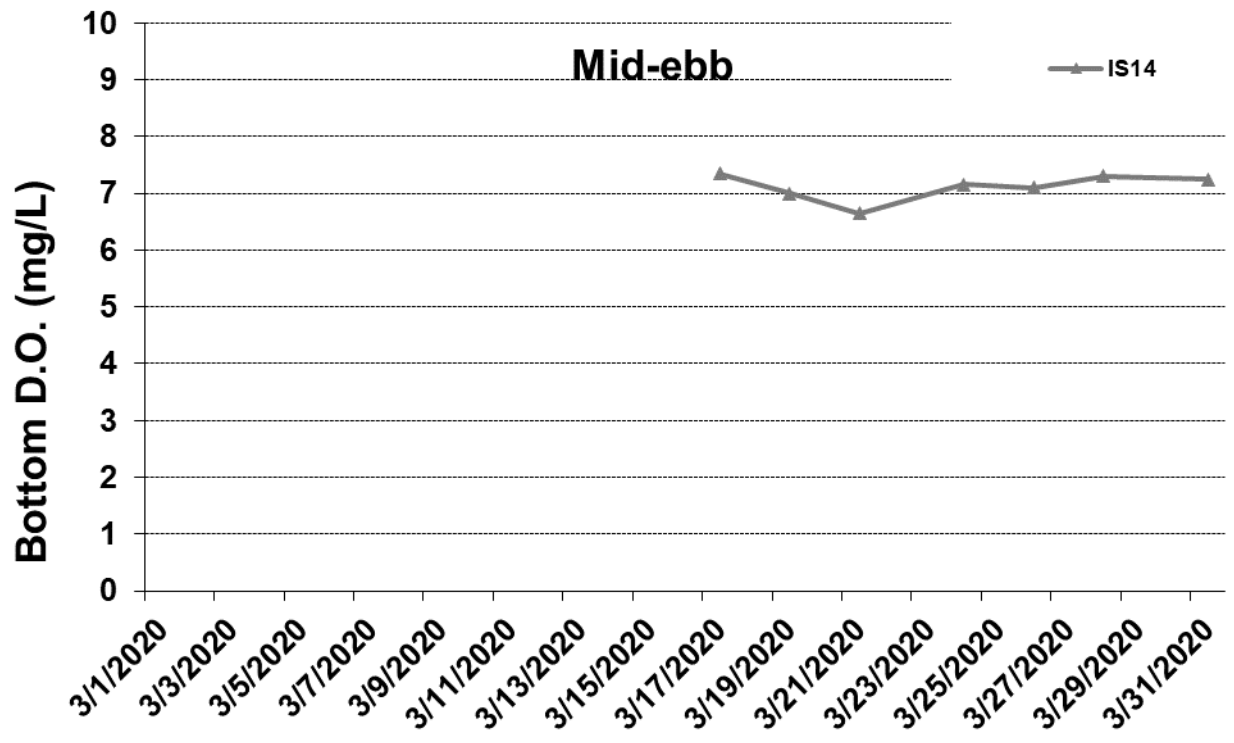


Figure J41 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS14. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



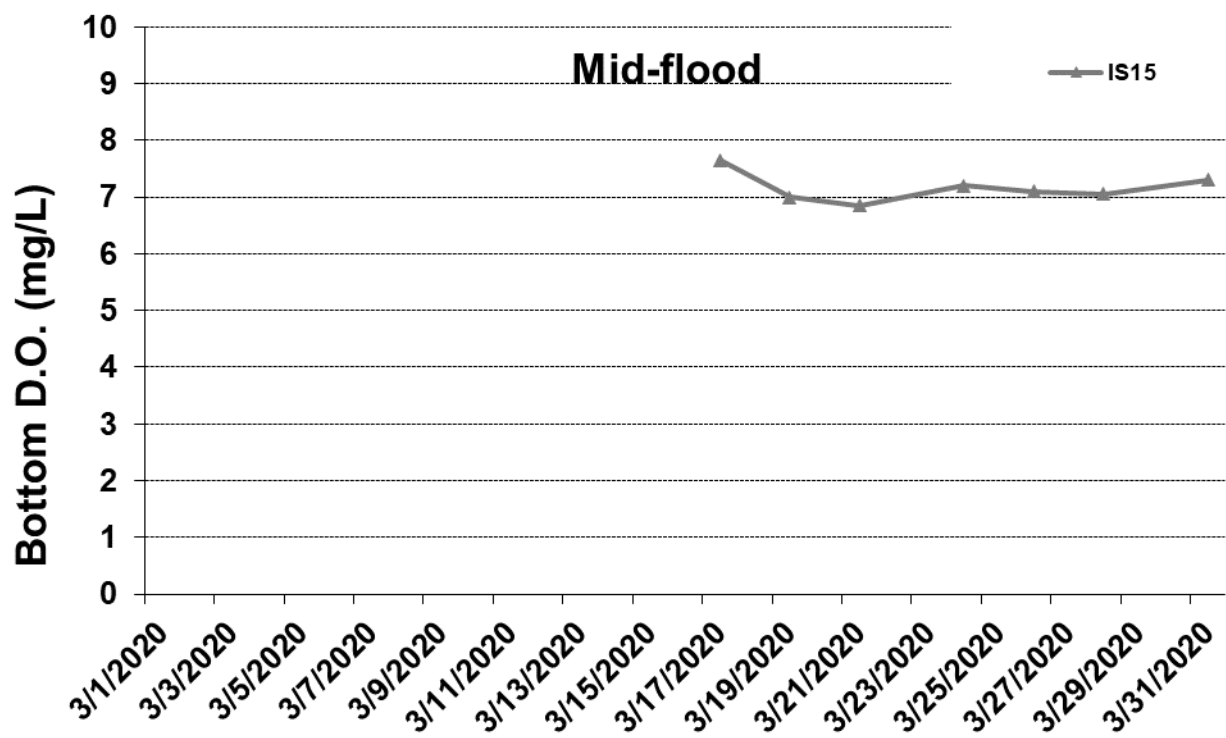
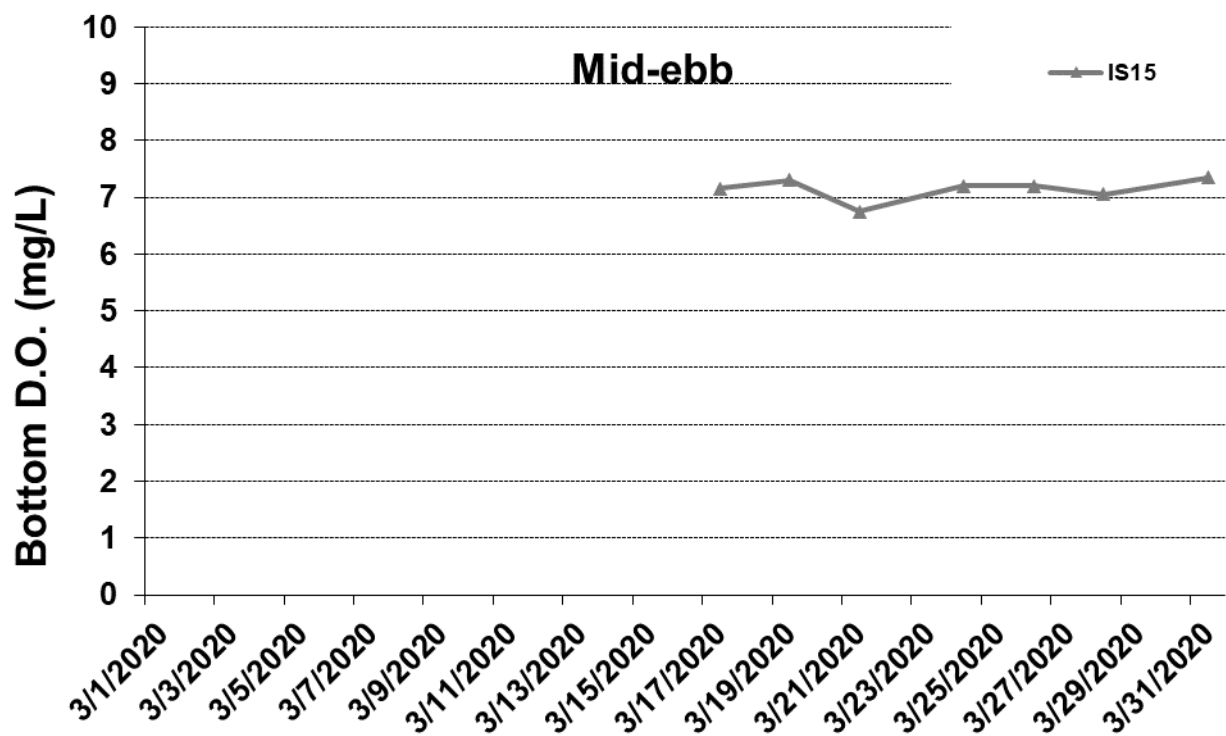


Figure J42 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS15. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



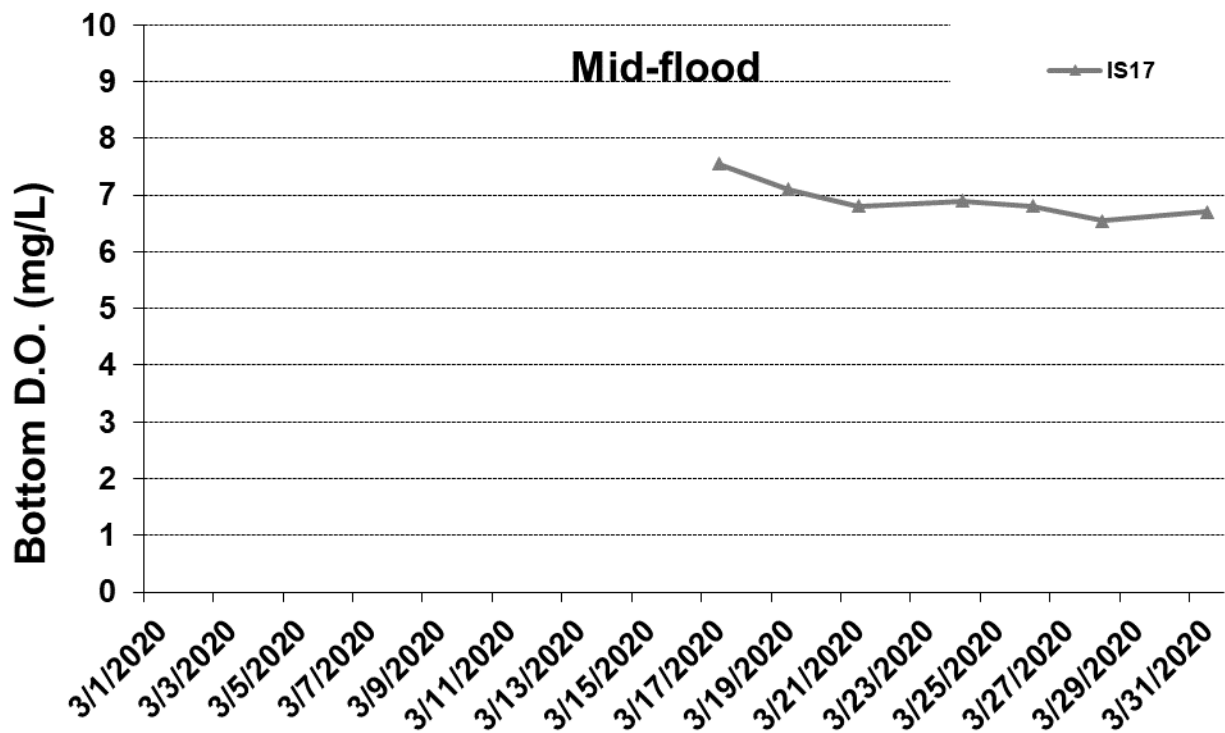
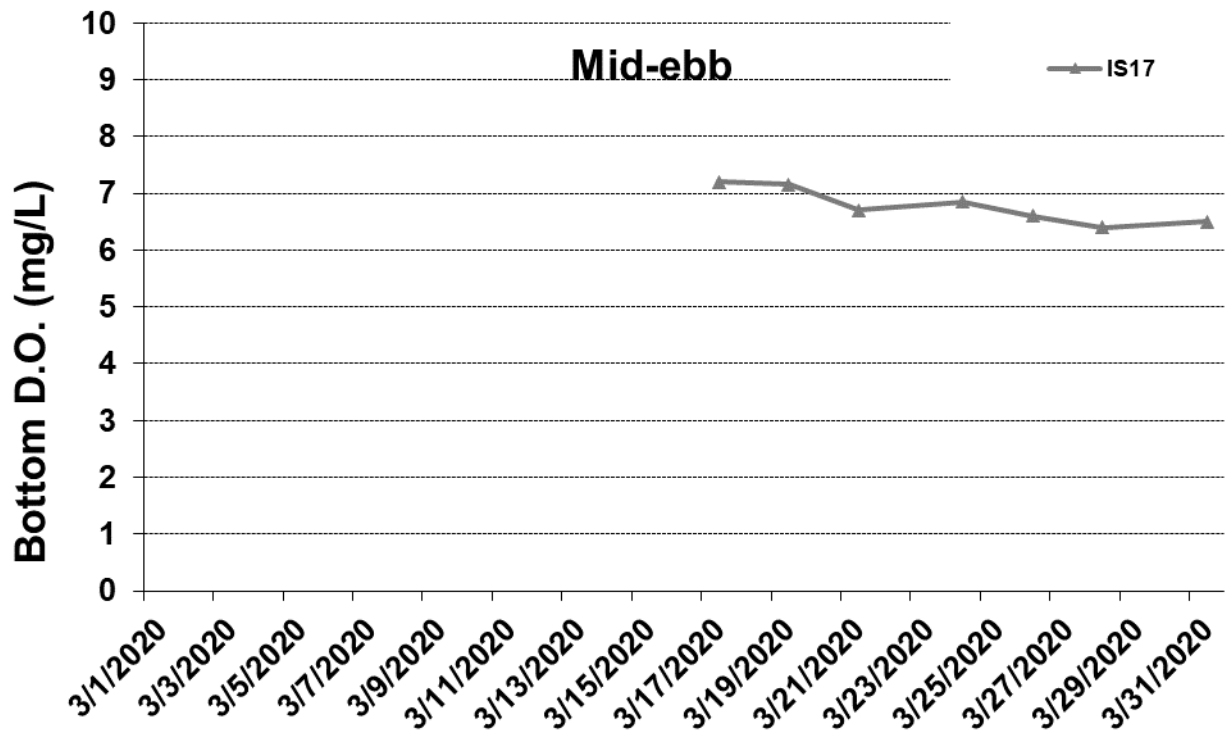


Figure J43 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS17. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



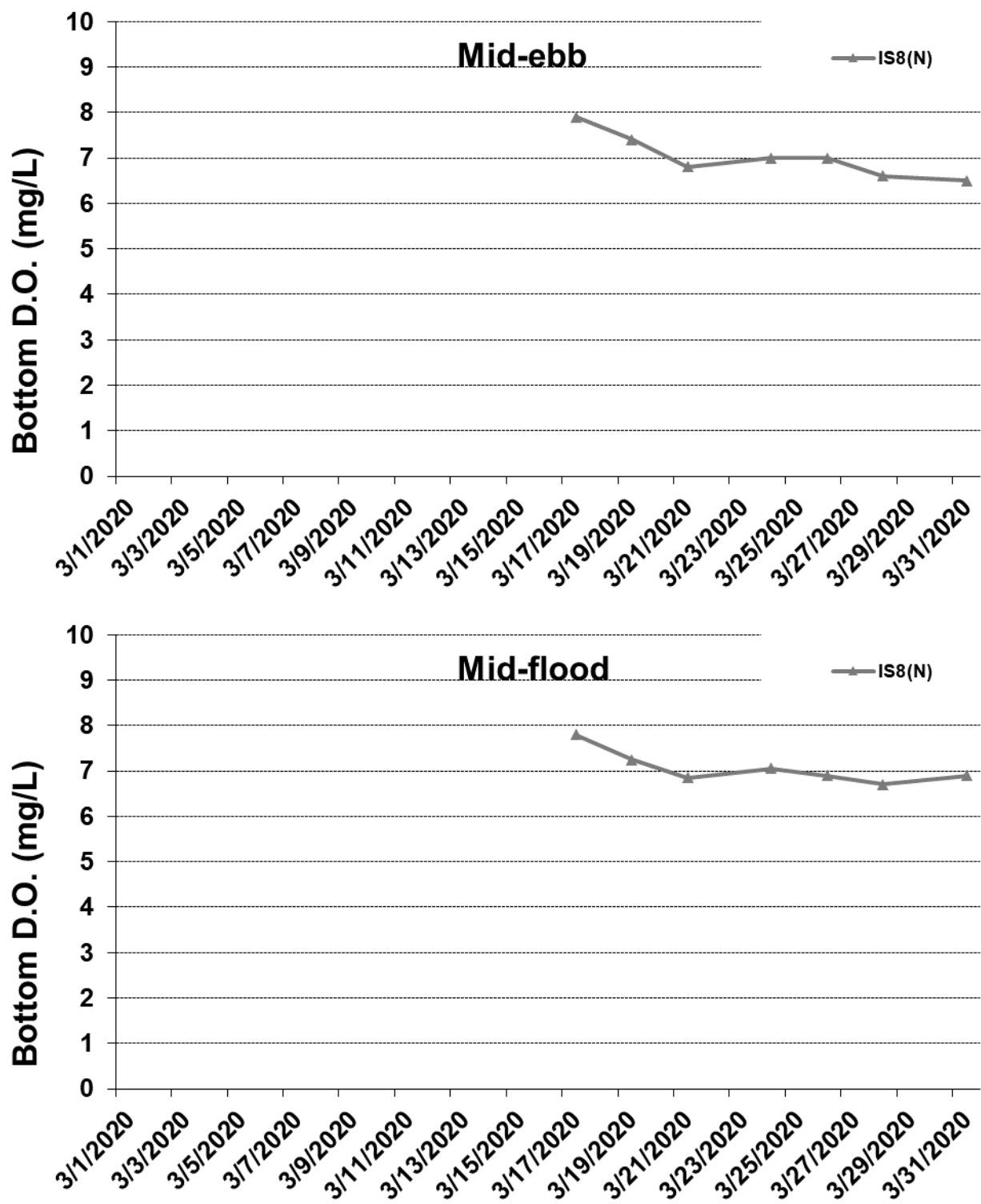


Figure J44 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



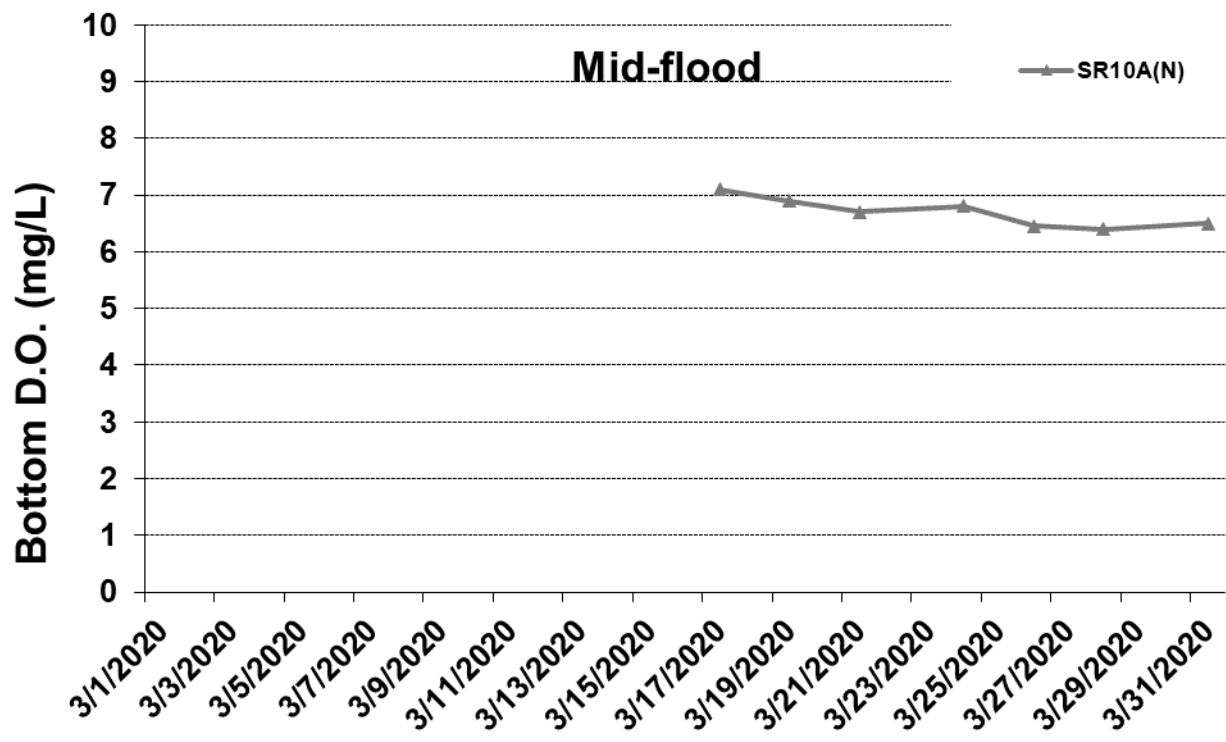
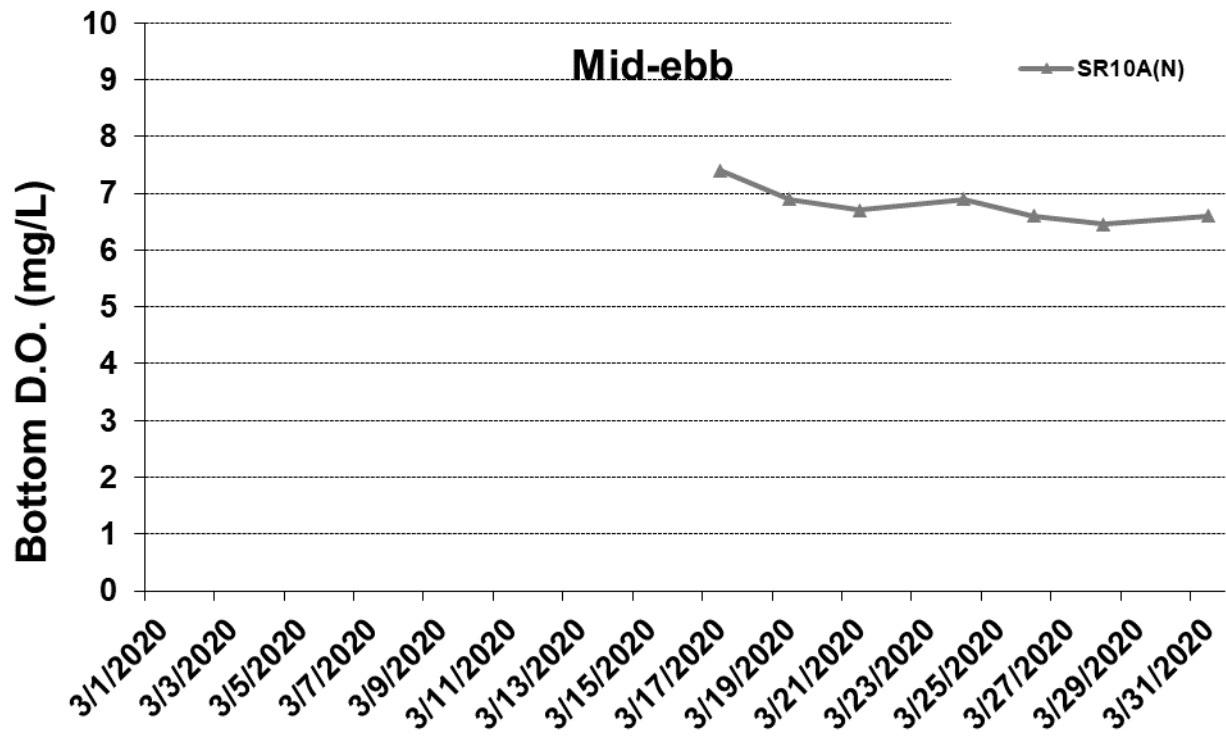


Figure J45 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR10A(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



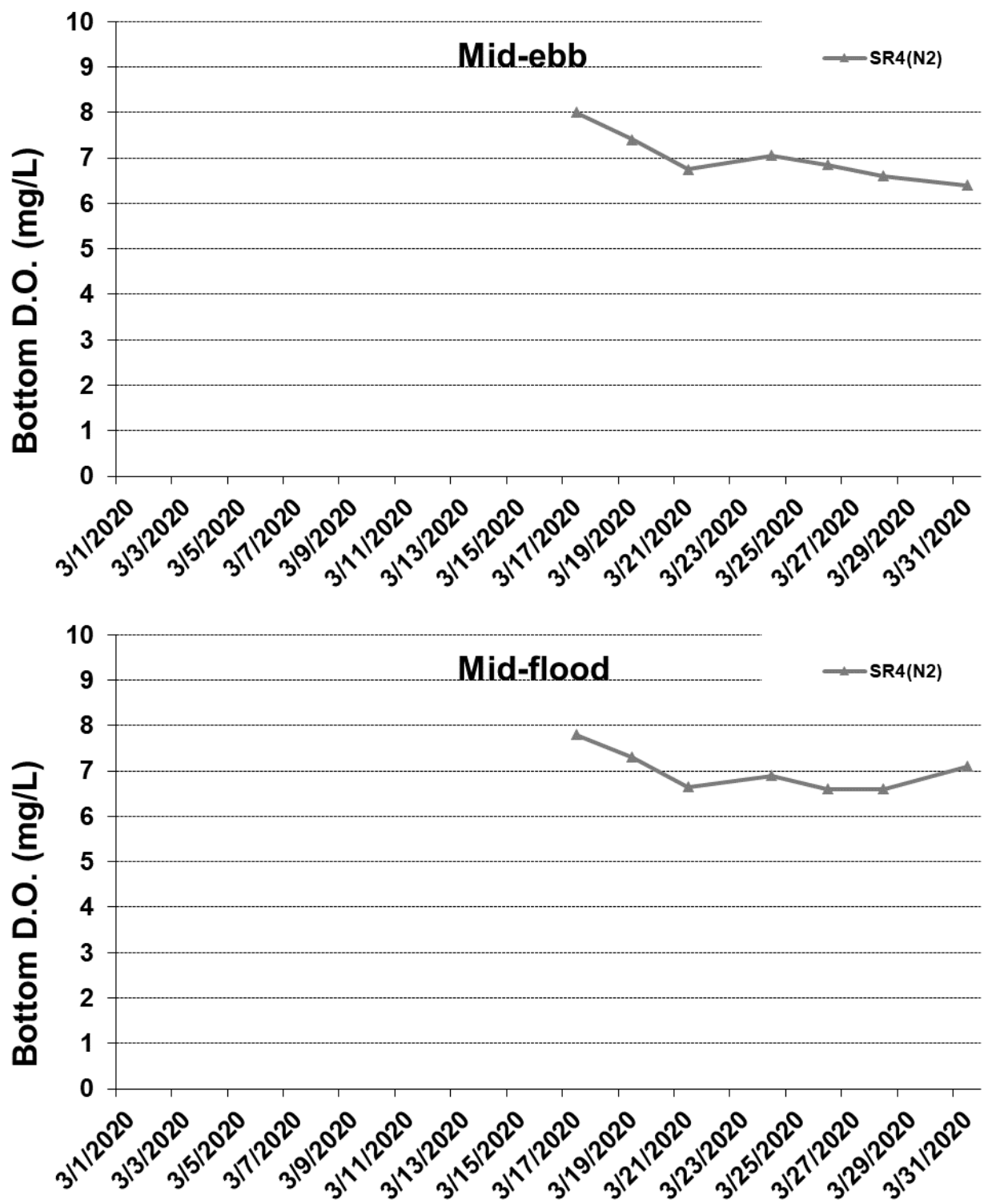


Figure J46 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



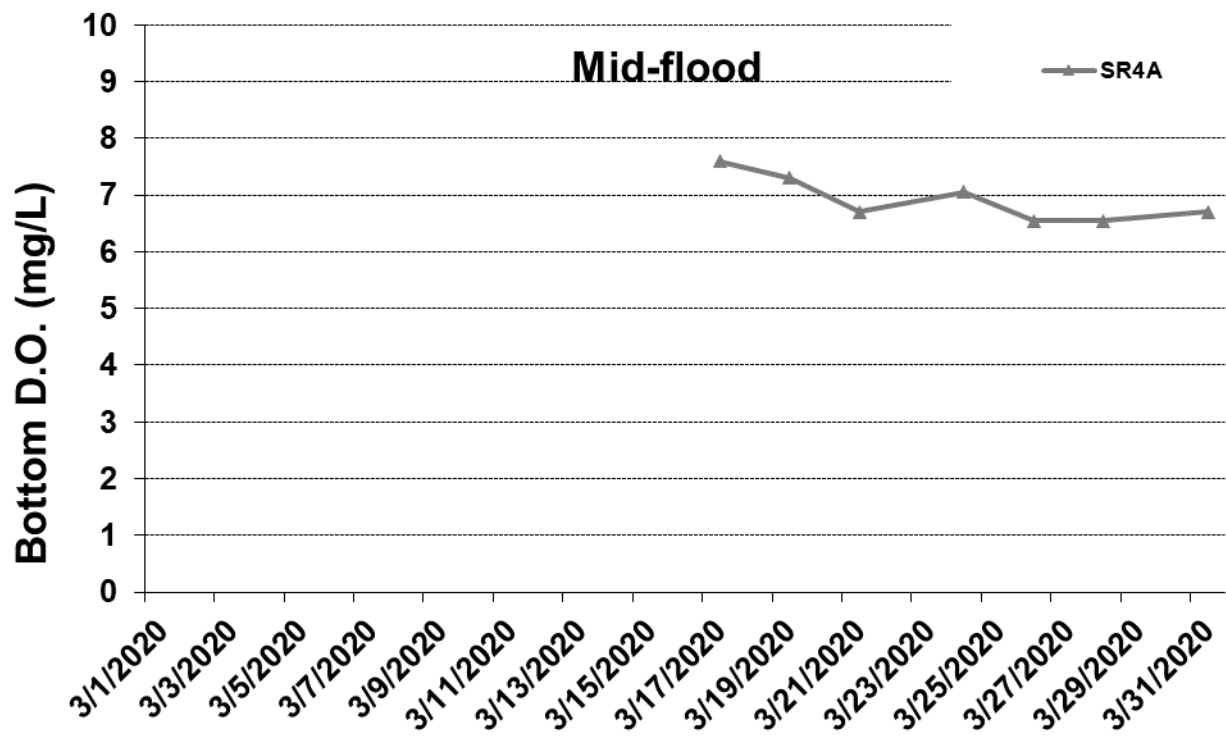
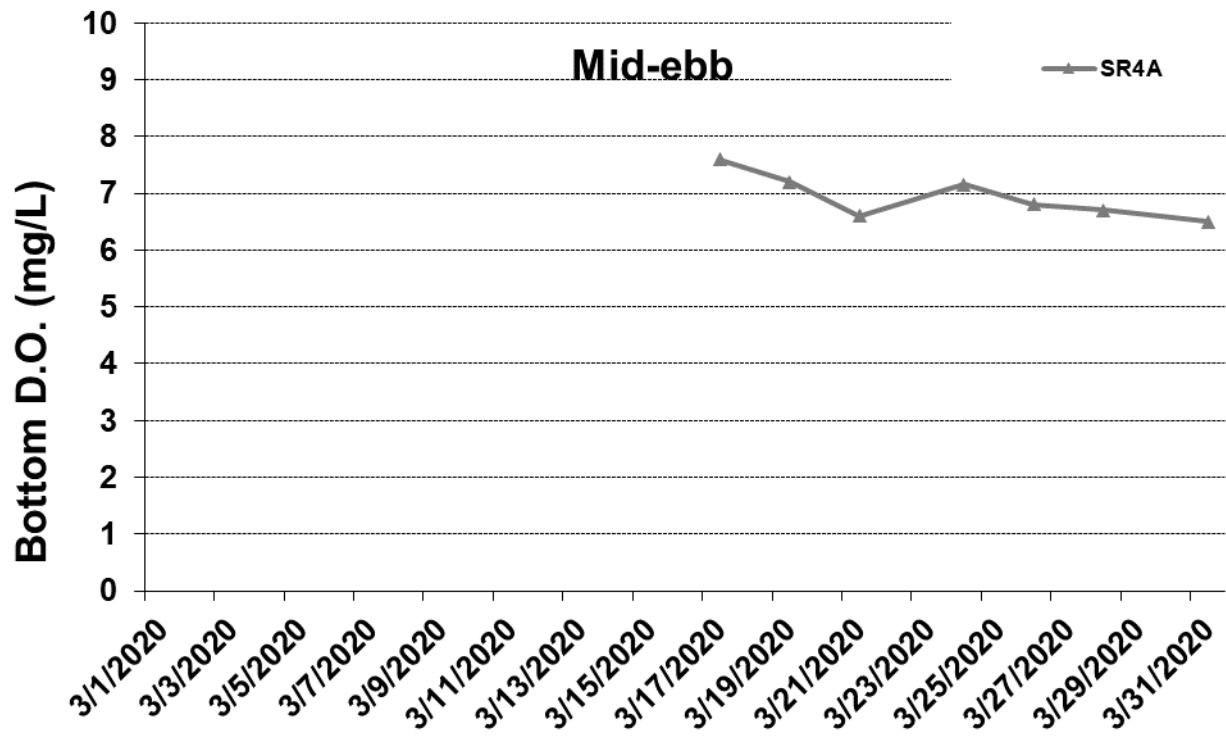


Figure J47 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR4A. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



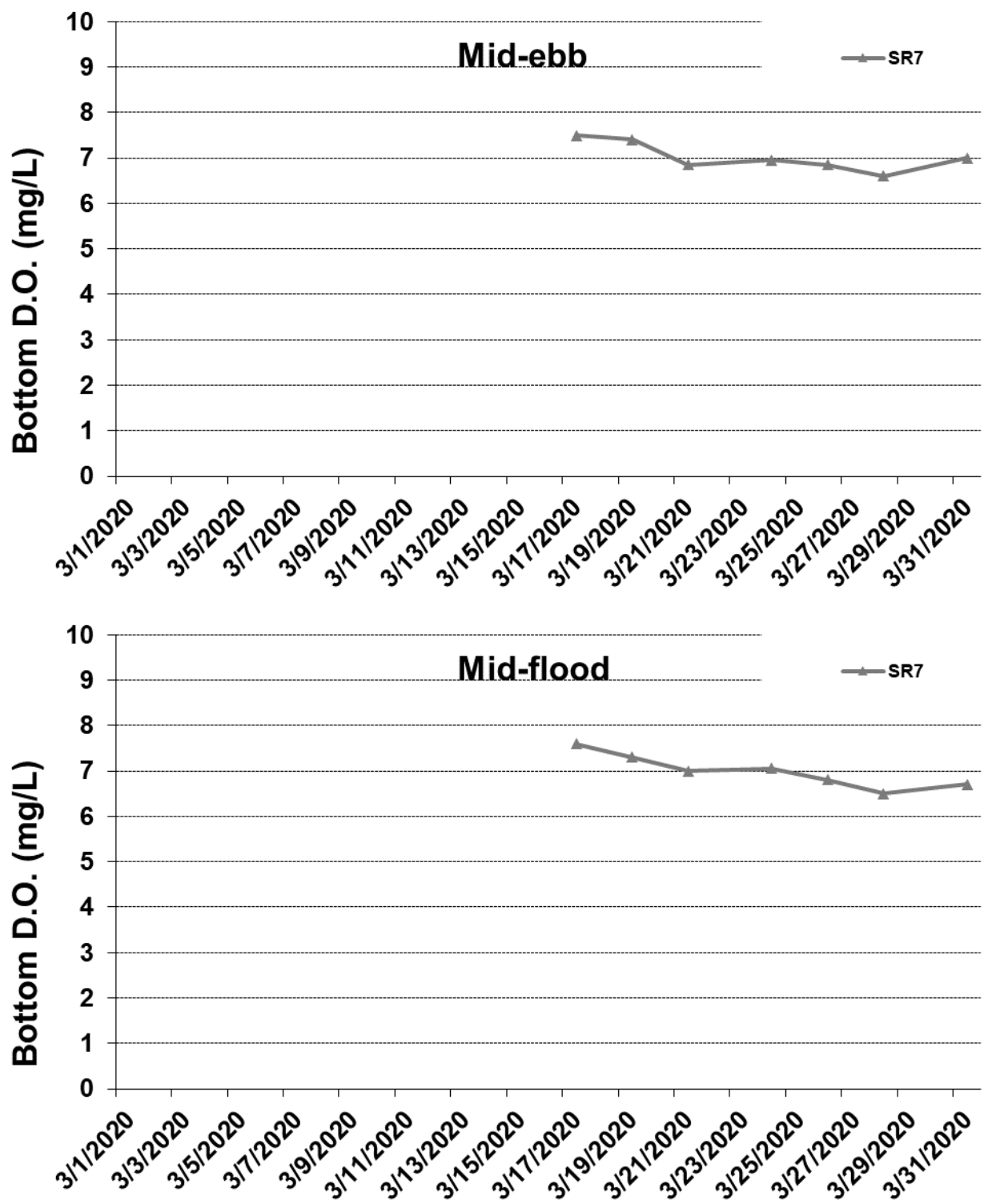


Figure J48 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR7. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



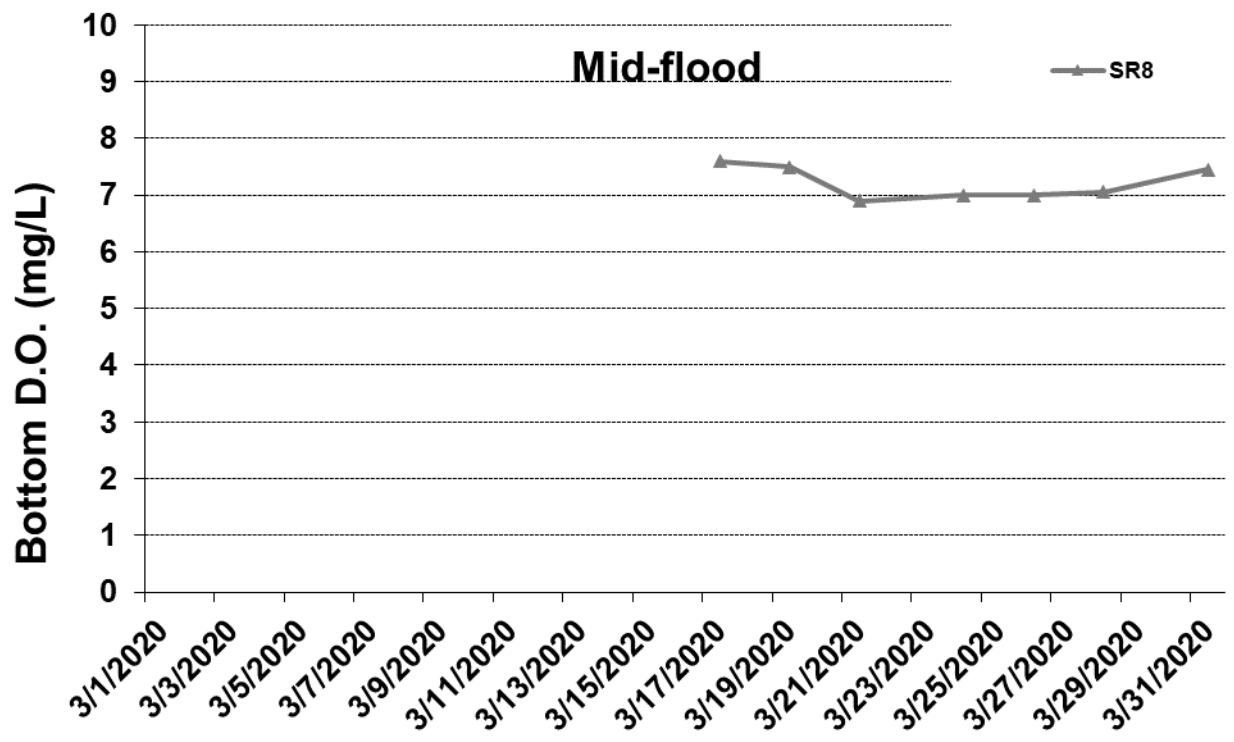
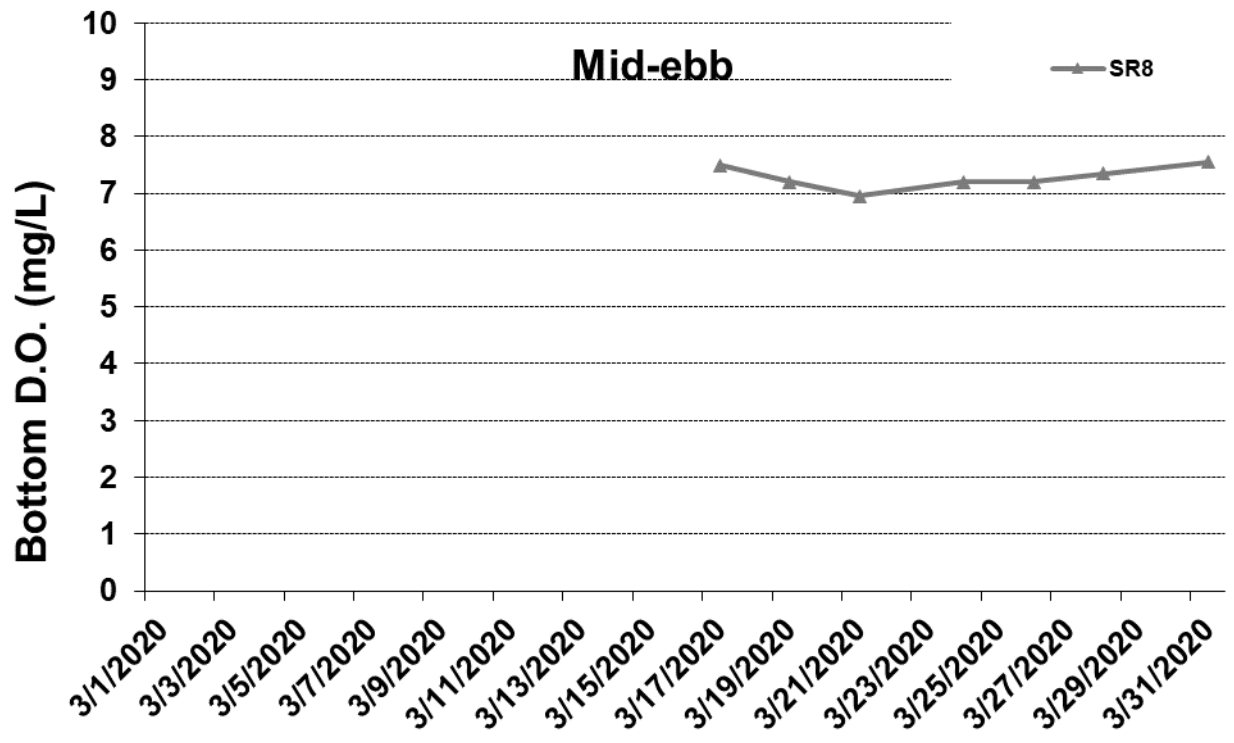


Figure J49 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR8. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



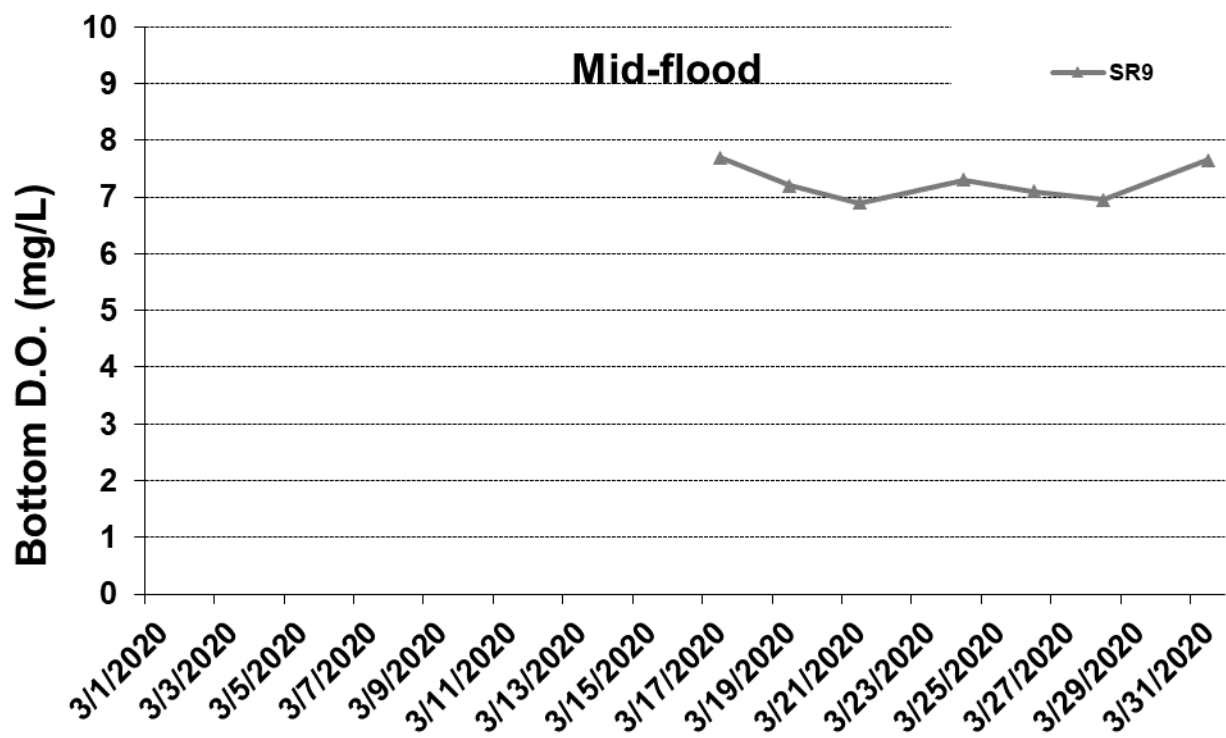
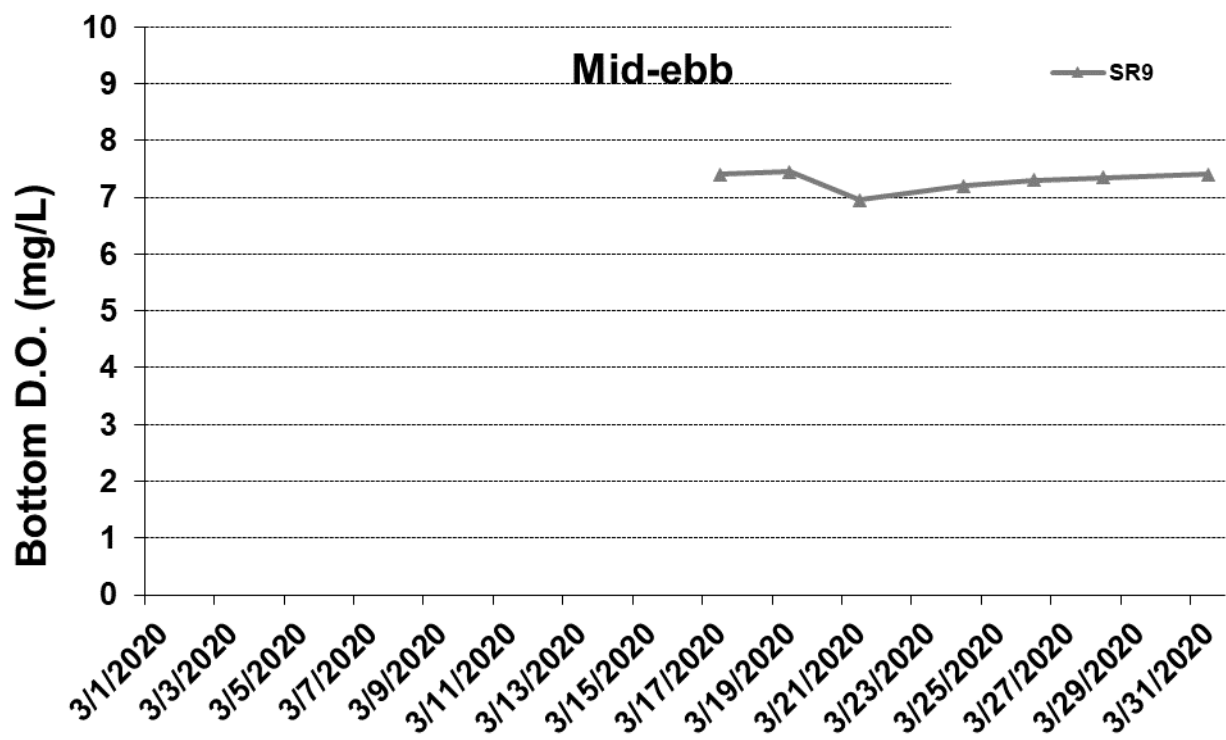


Figure J50 Post Construction Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 17 March 2020 and 31 March 2020 at SR9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



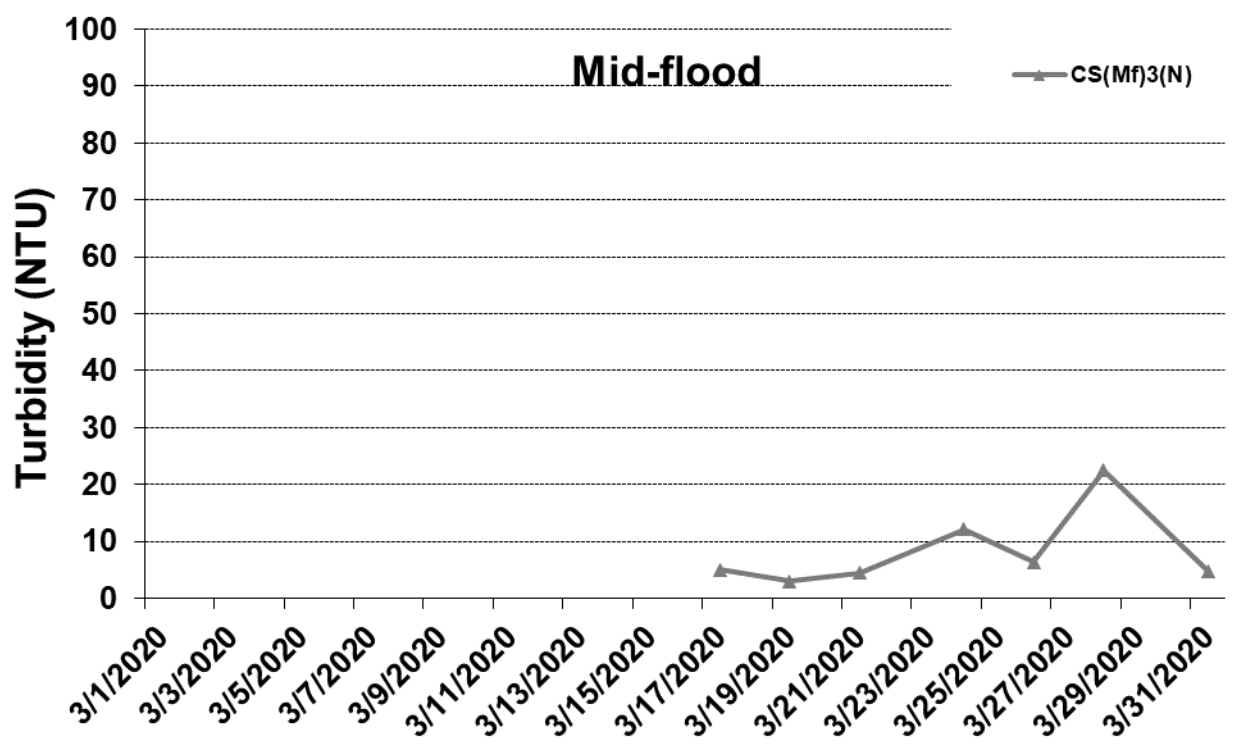
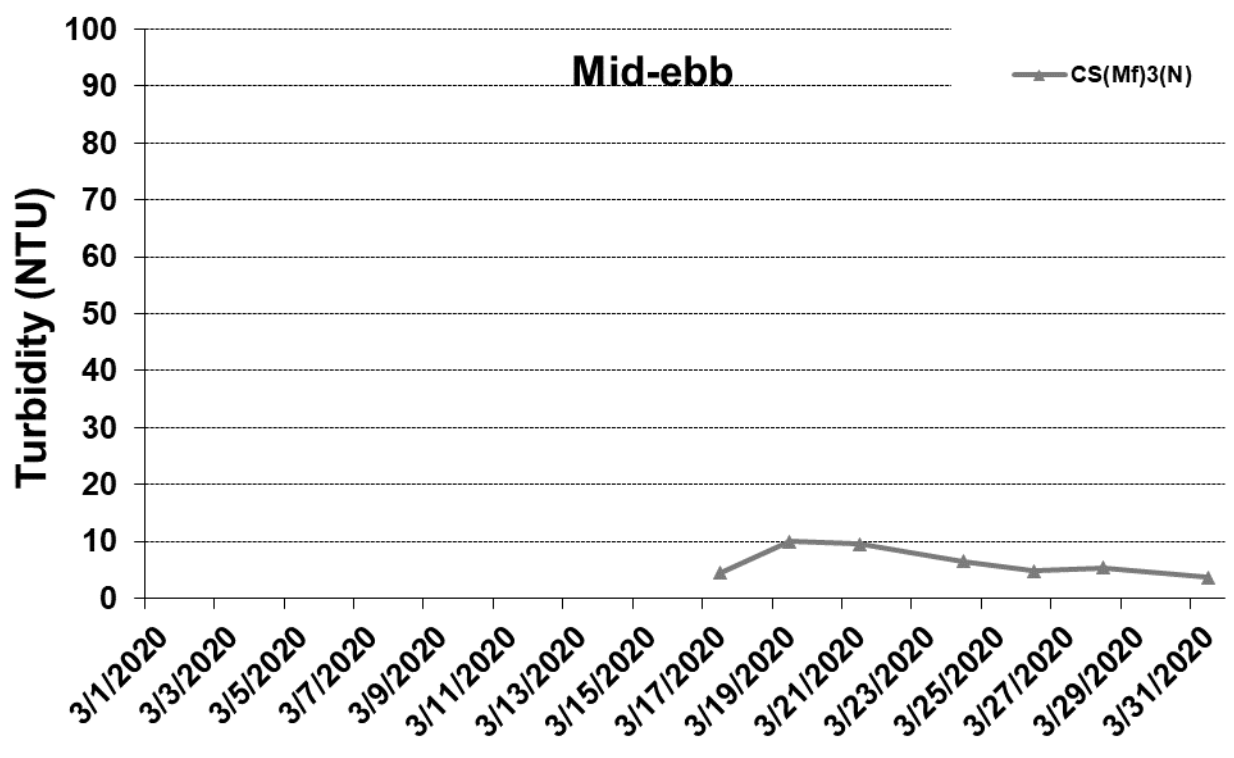


Figure J51 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



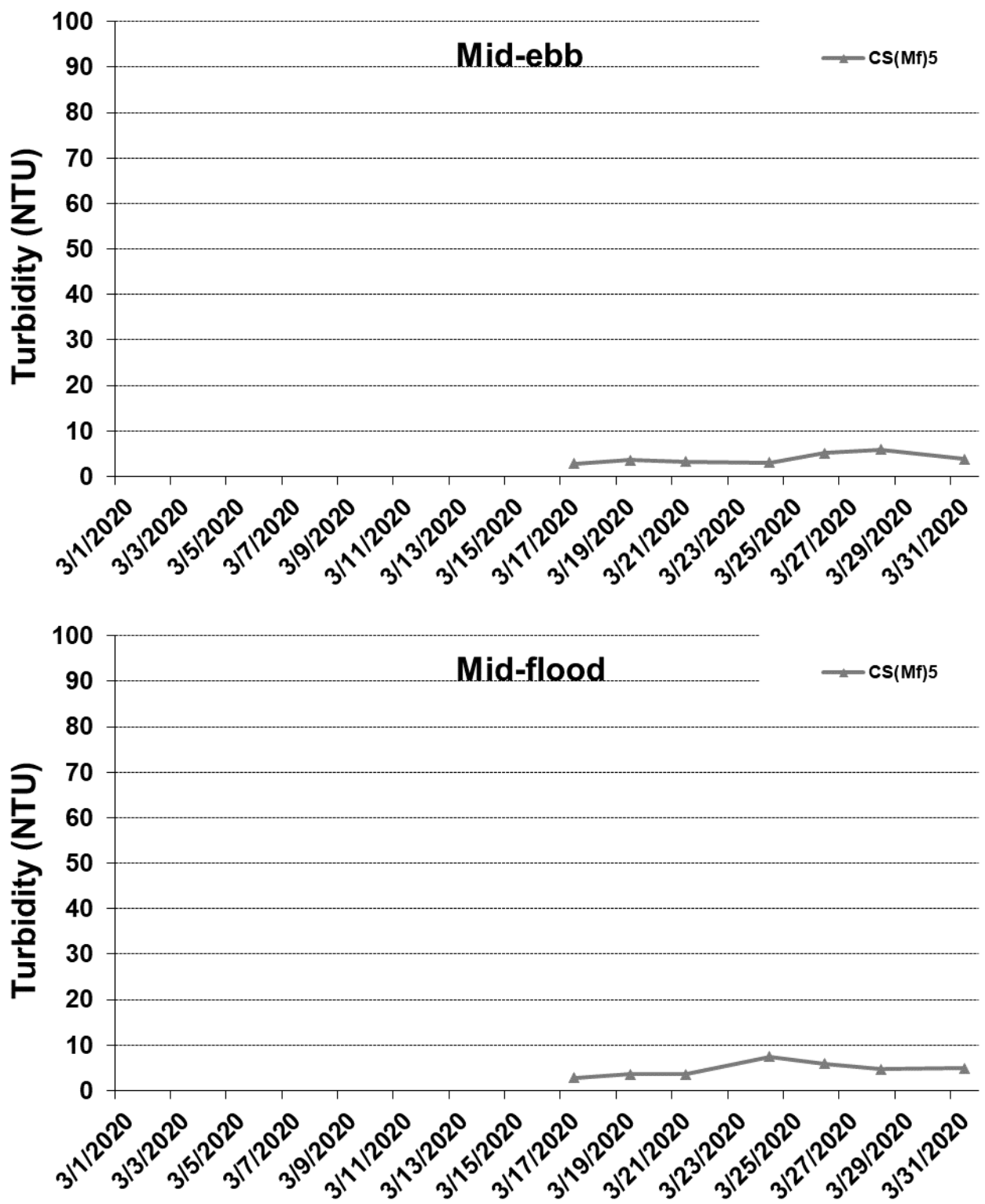


Figure J52 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



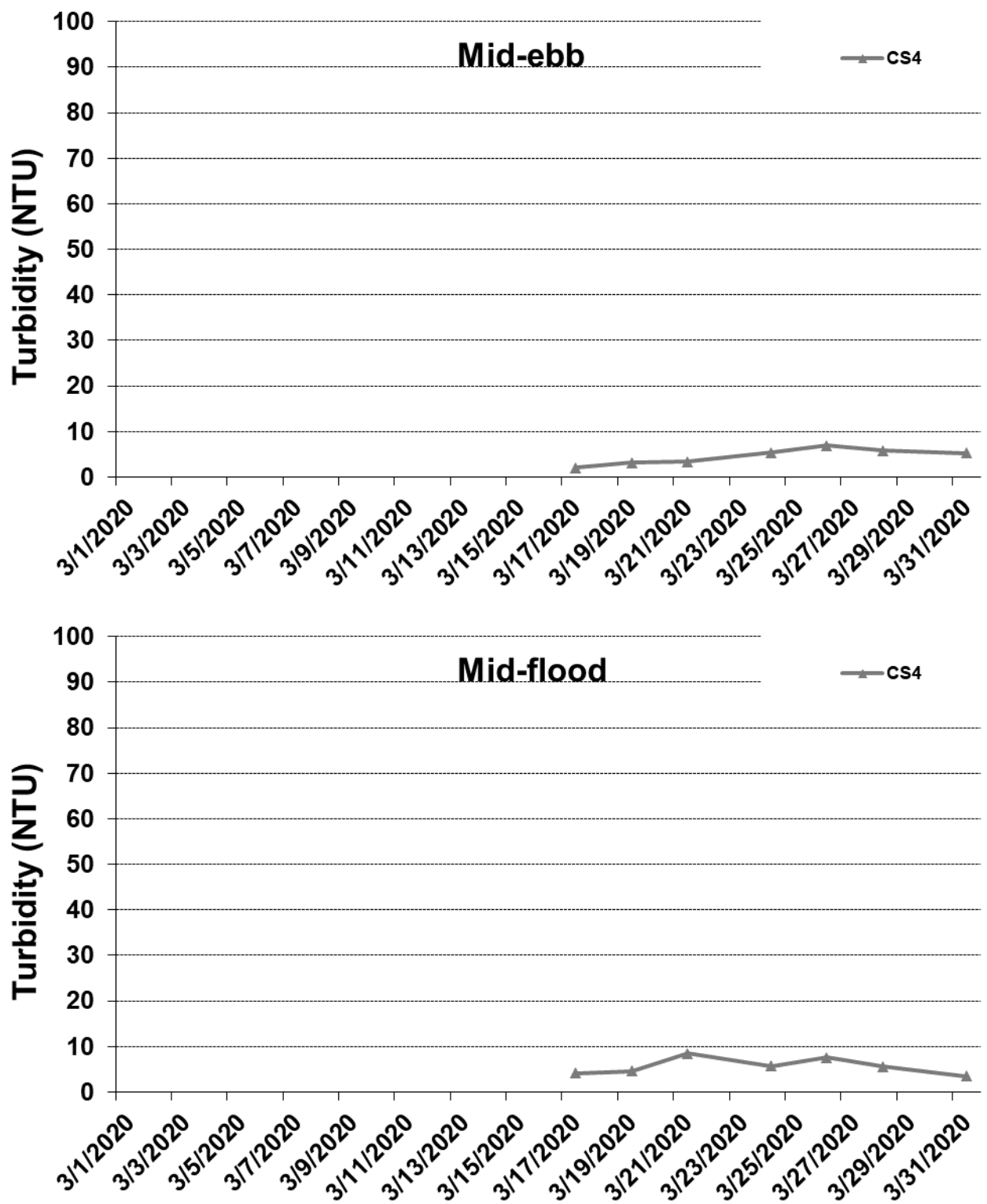


Figure J53 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at CS4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



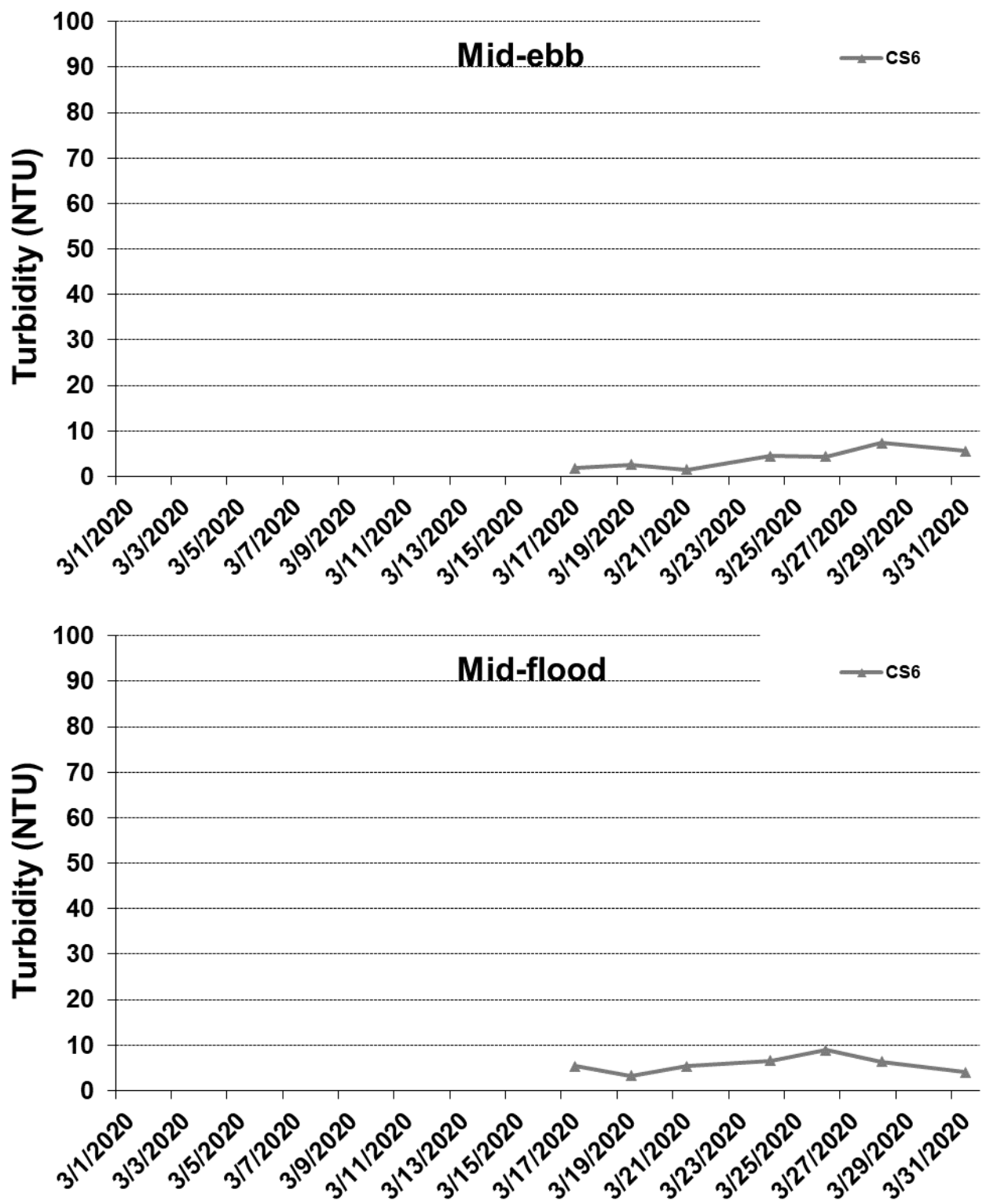


Figure J54 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at CS6. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



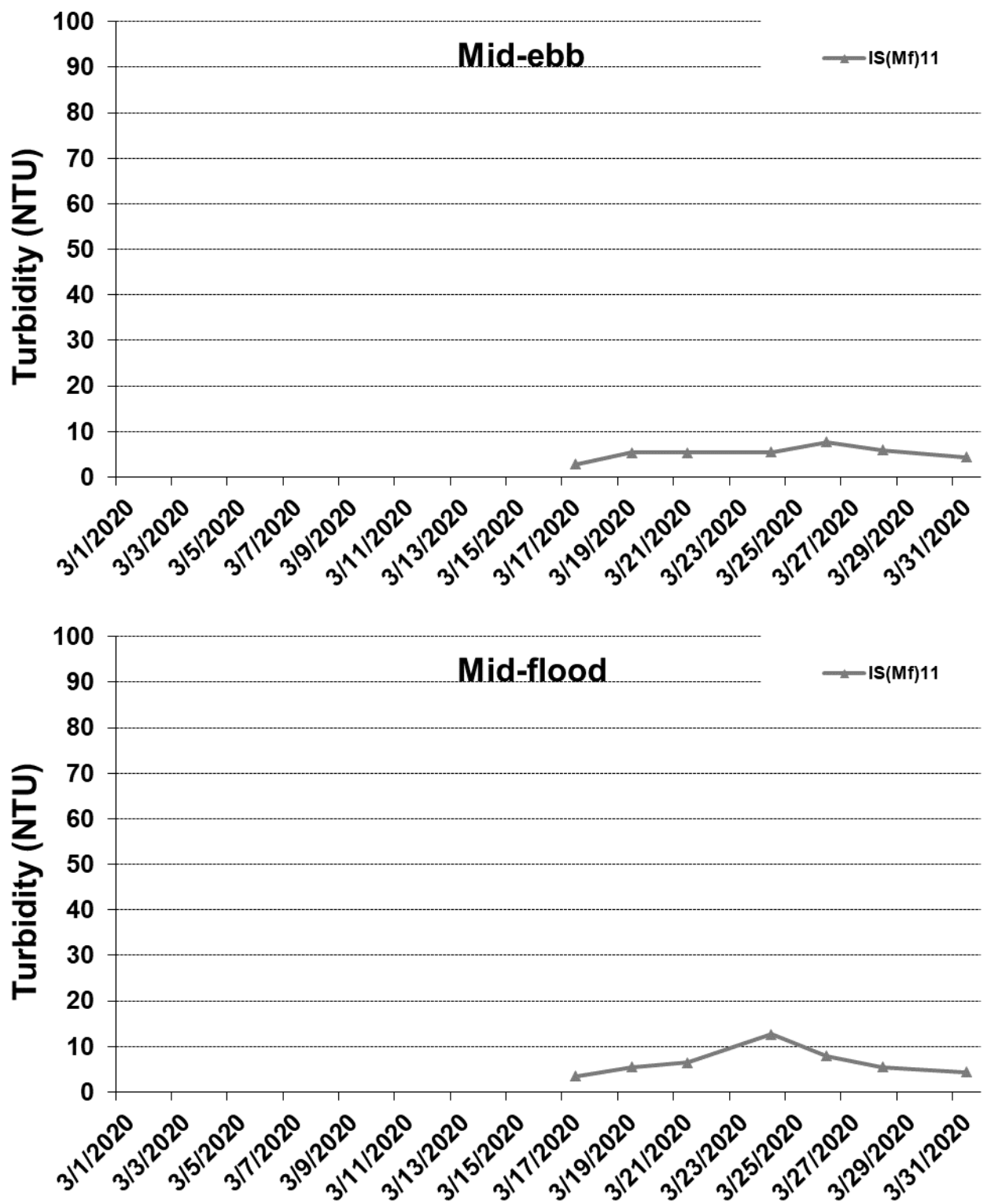


Figure J55 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



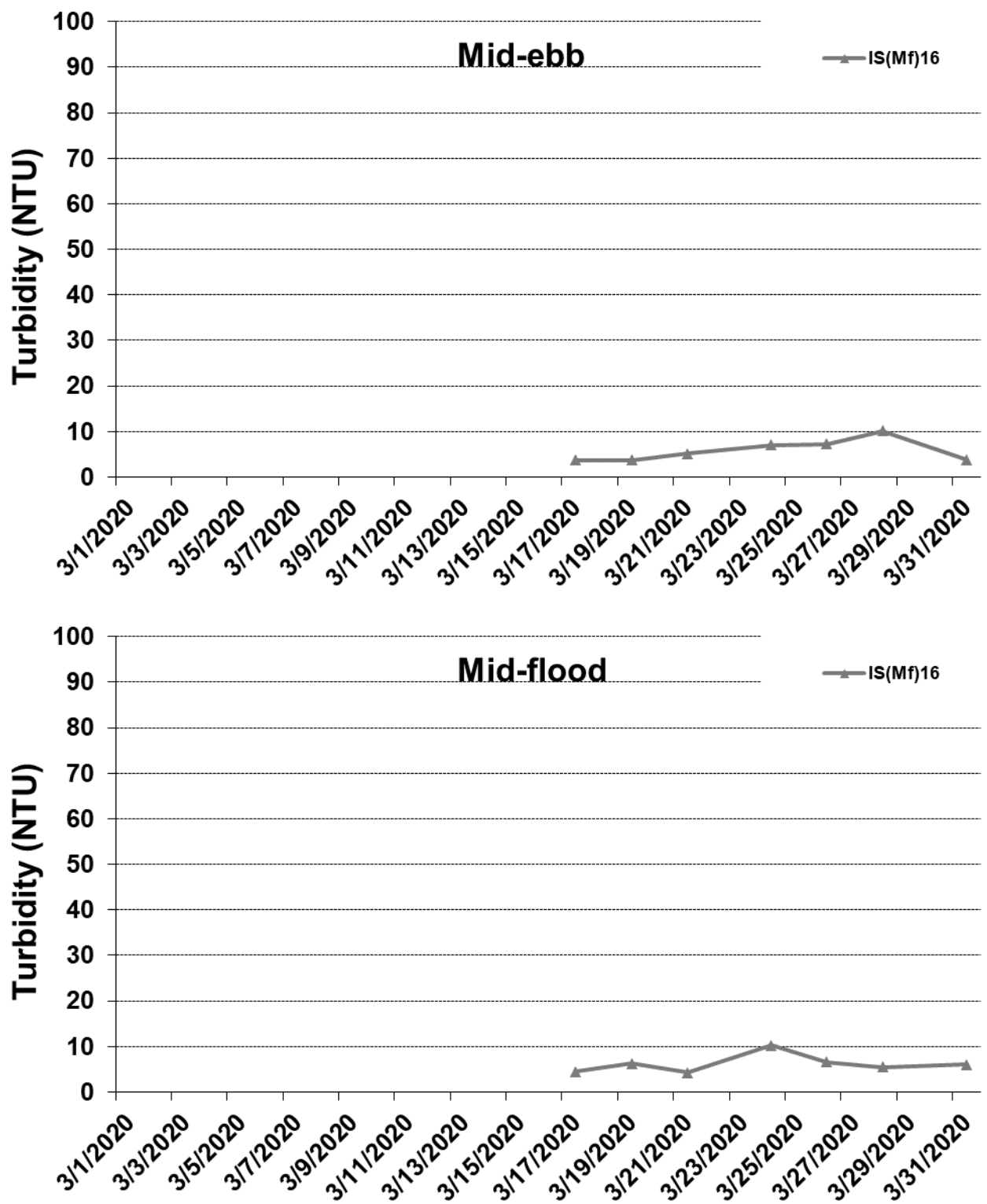


Figure J56 Post Construction Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



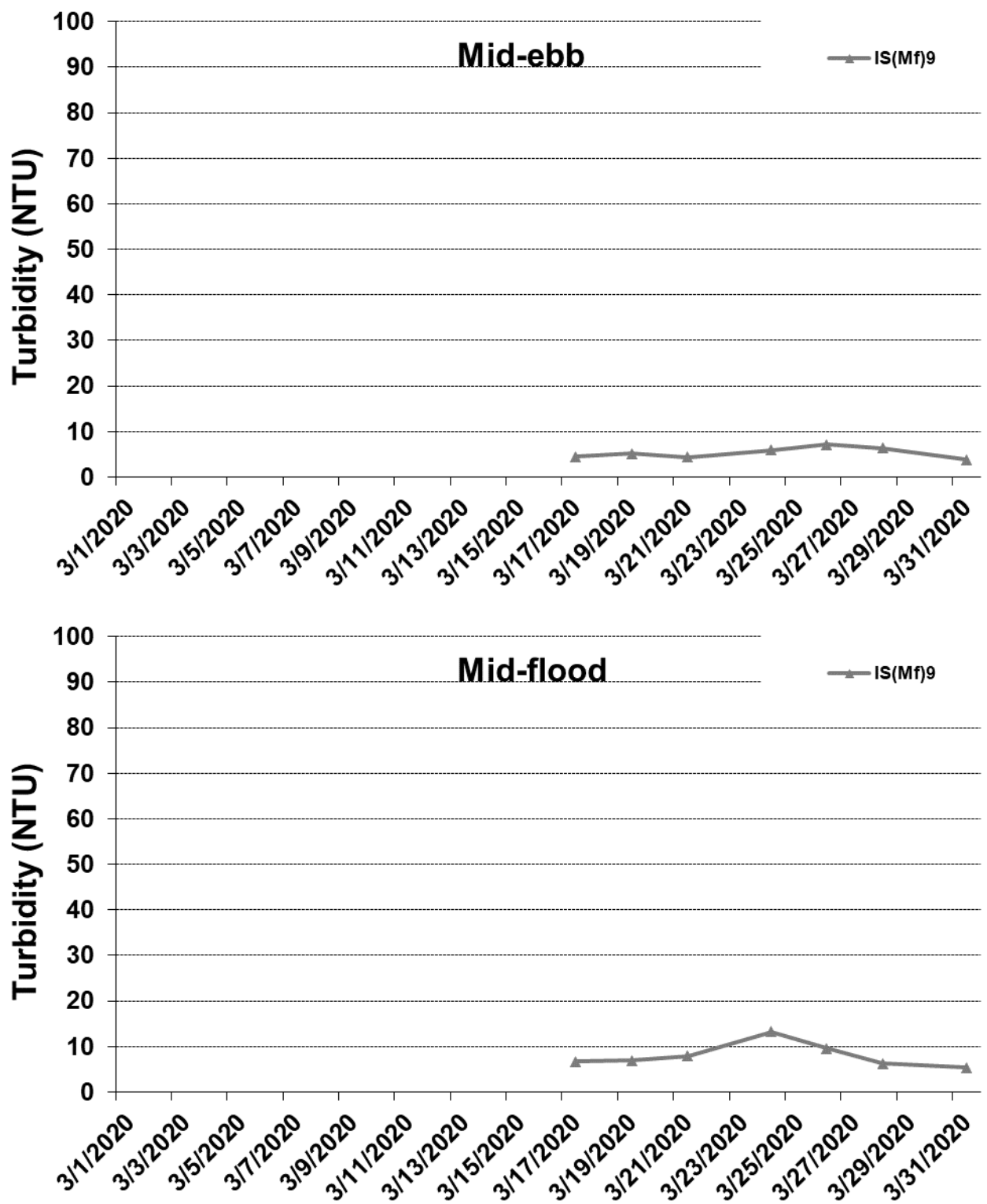


Figure J57 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



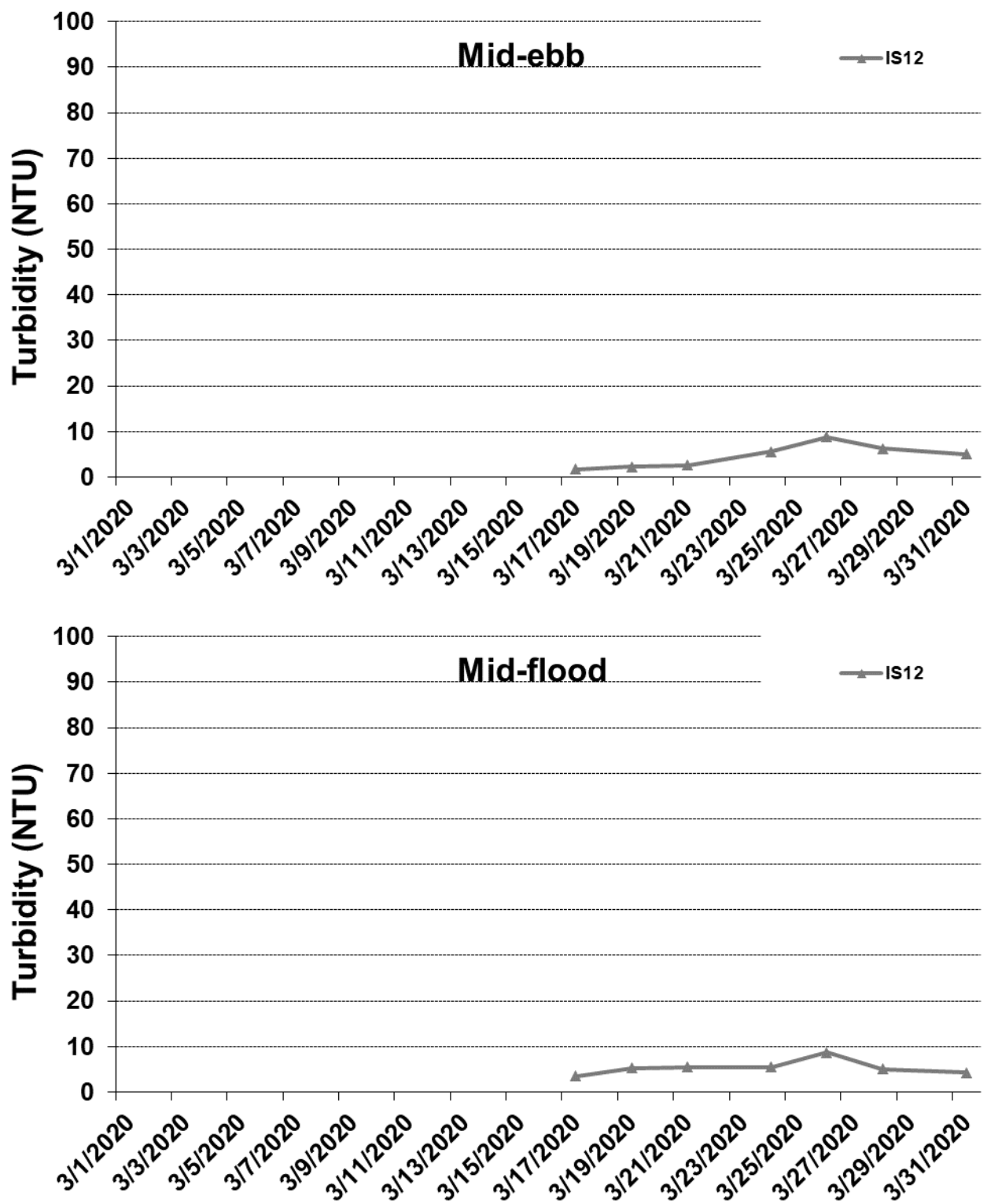


Figure J58 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS12. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



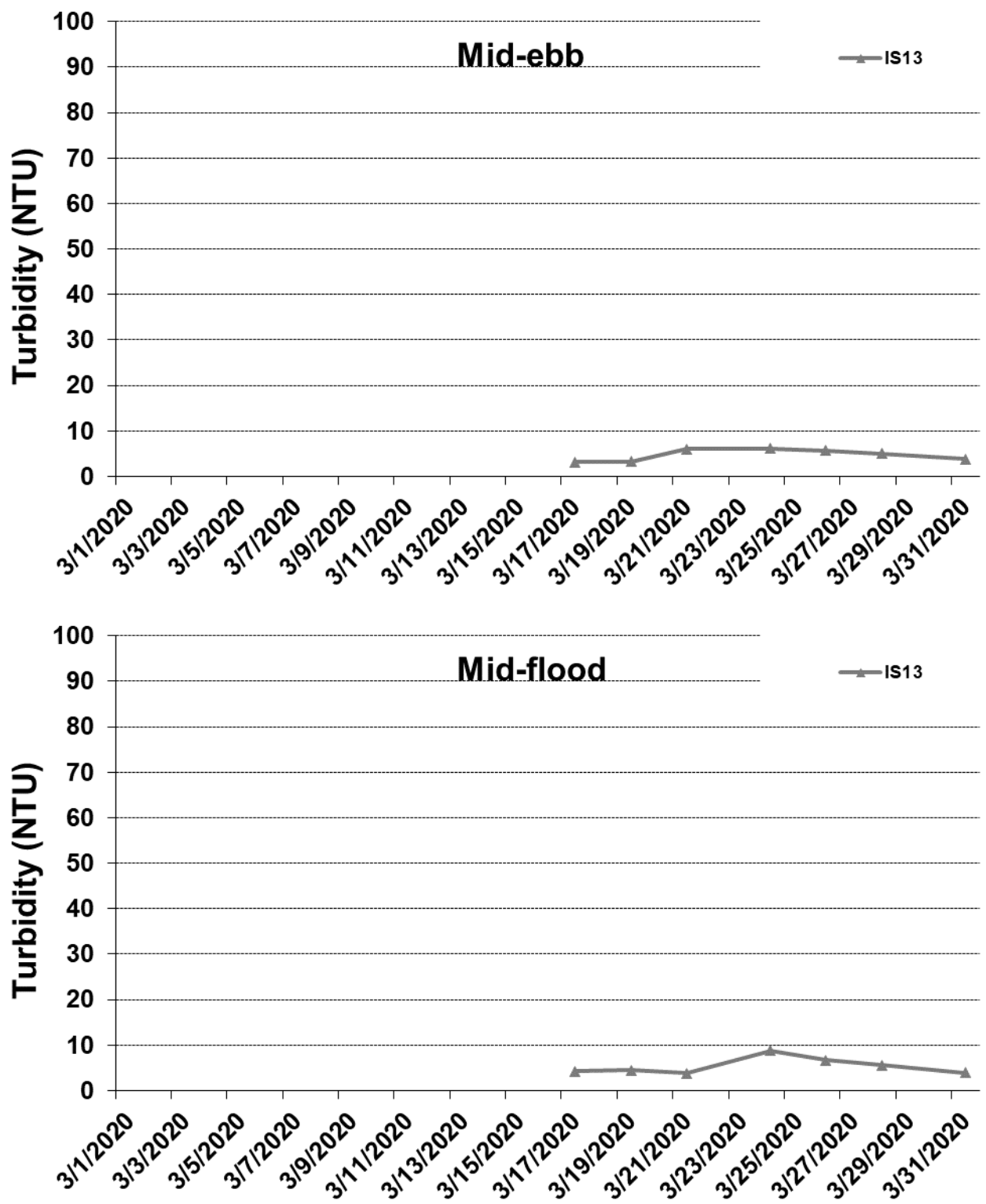


Figure J59 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS13. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



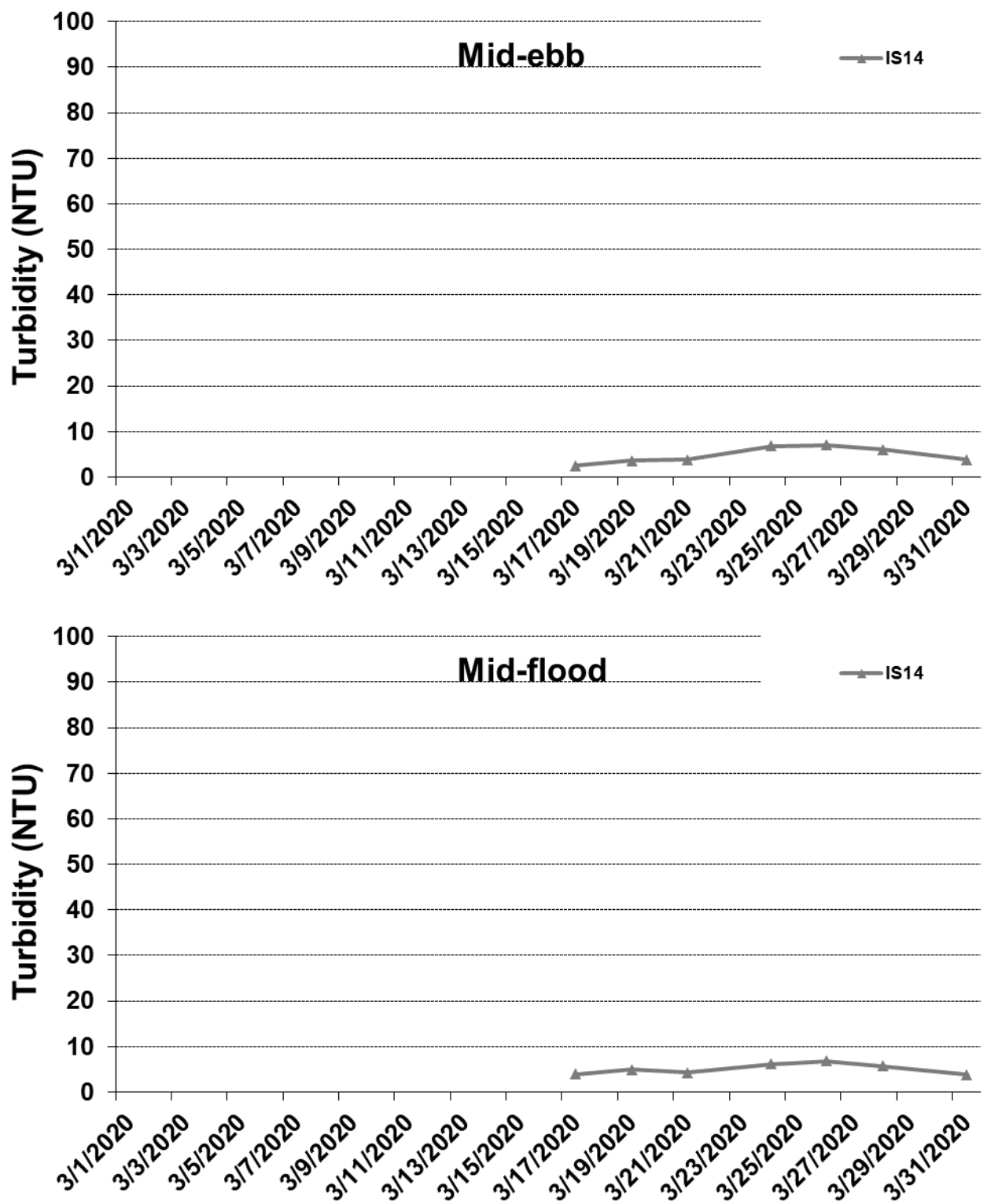


Figure J60 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS14. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



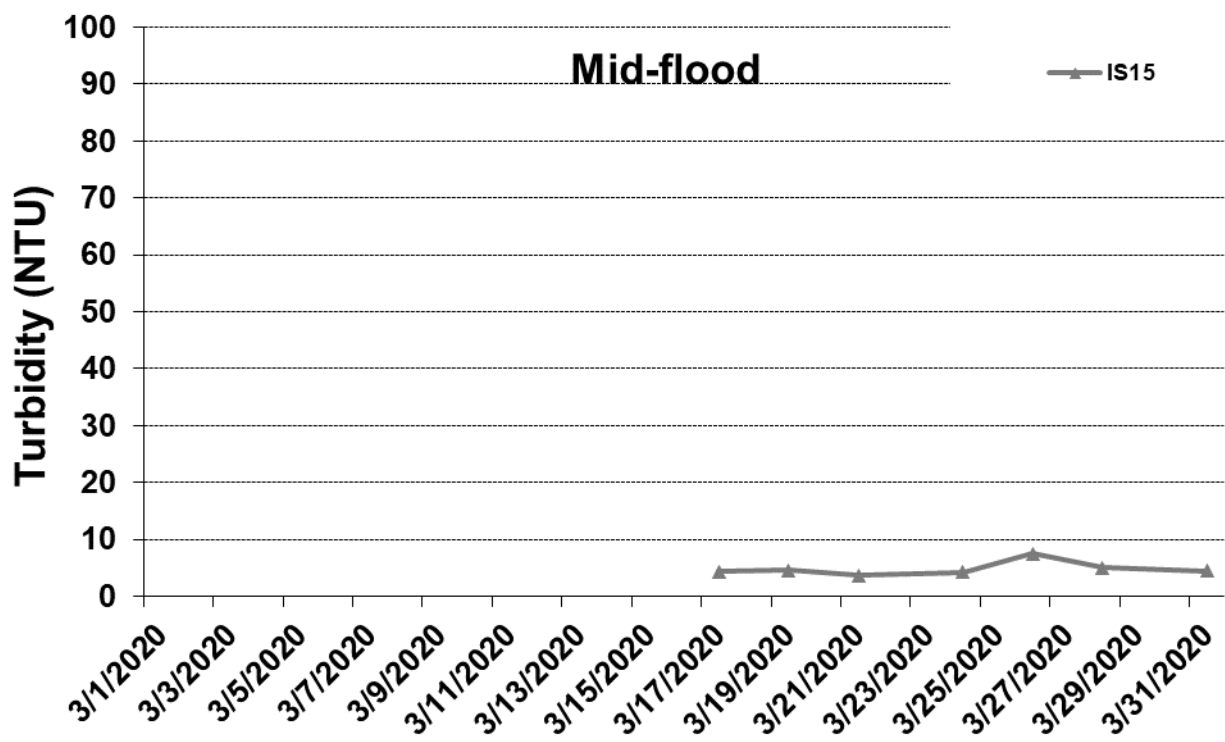
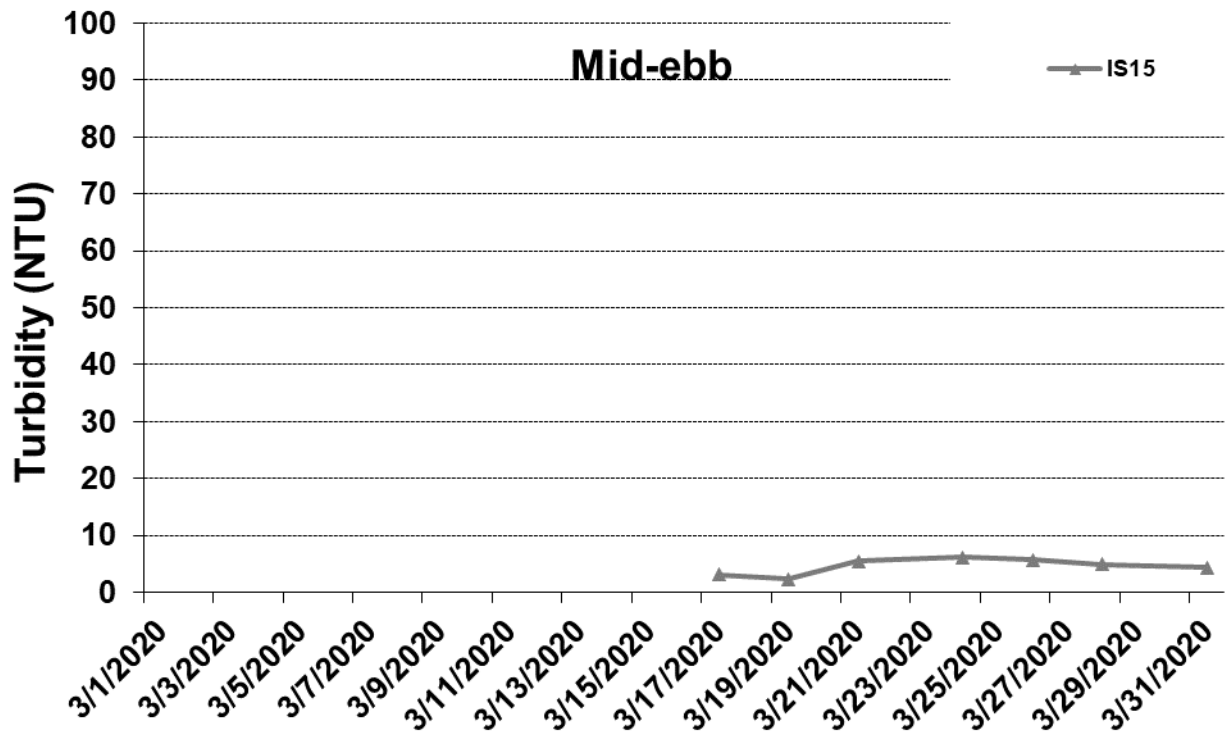


Figure J61 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS15. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



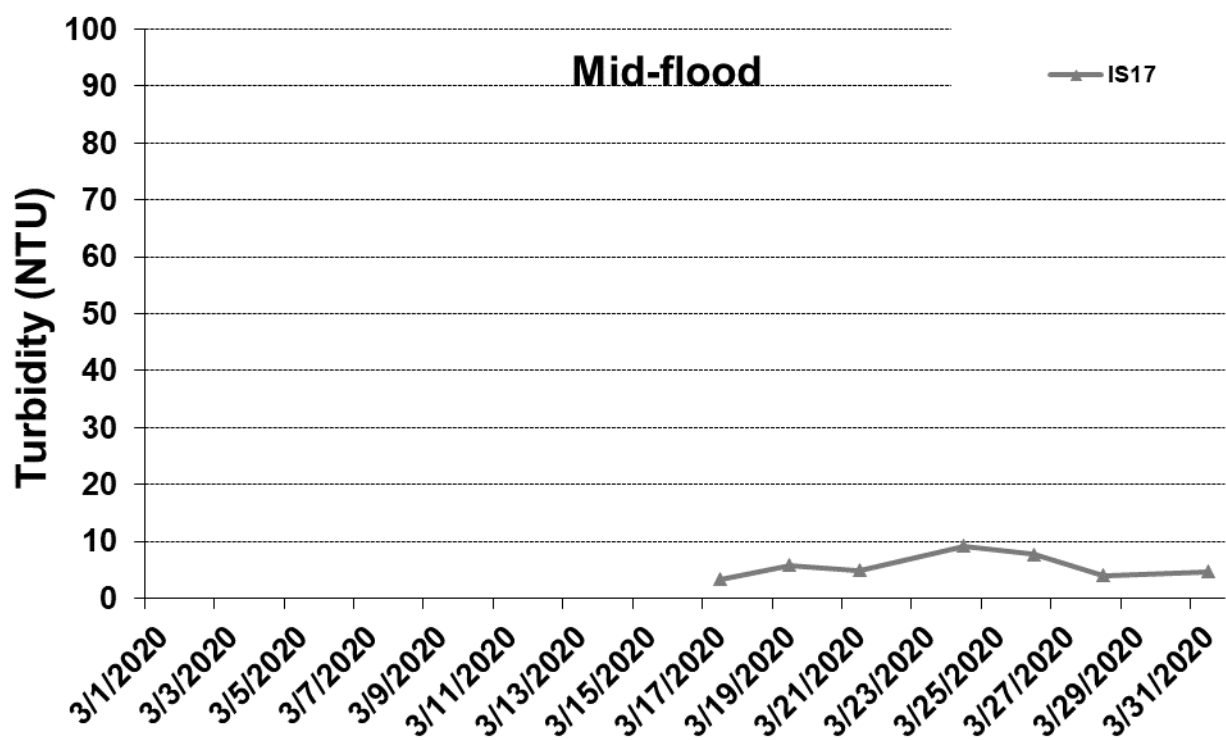
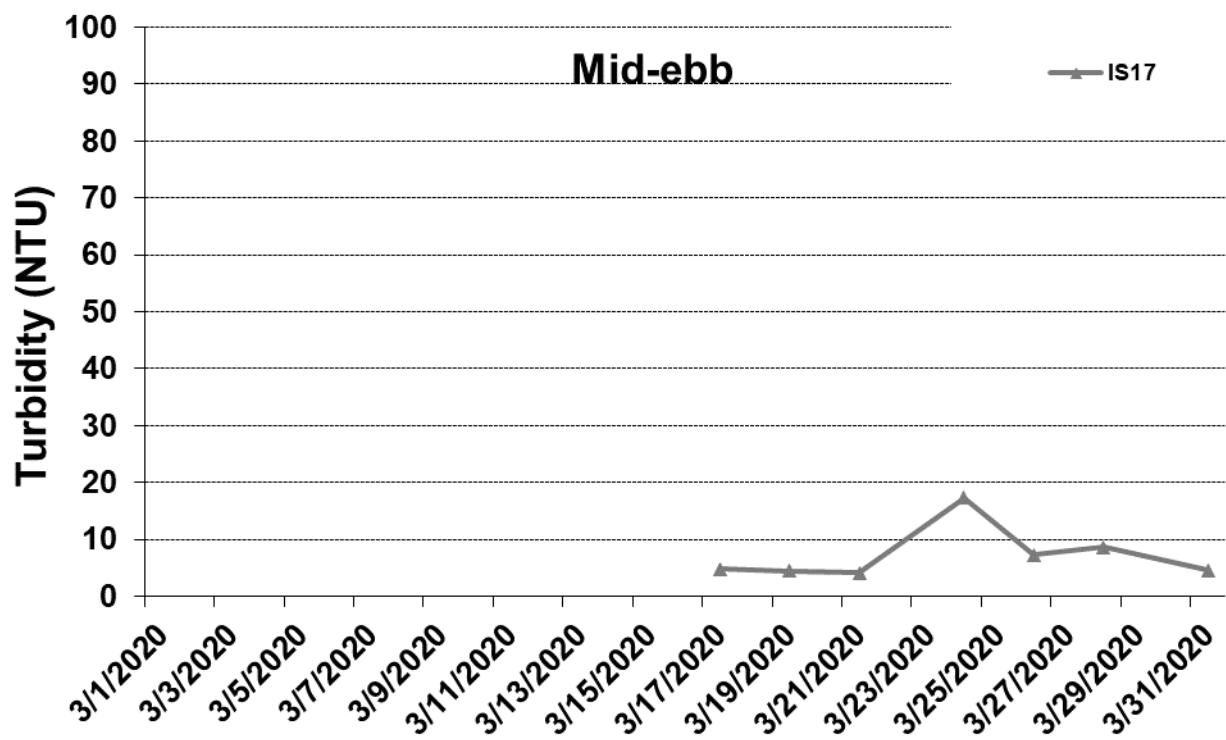


Figure J62 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS17. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



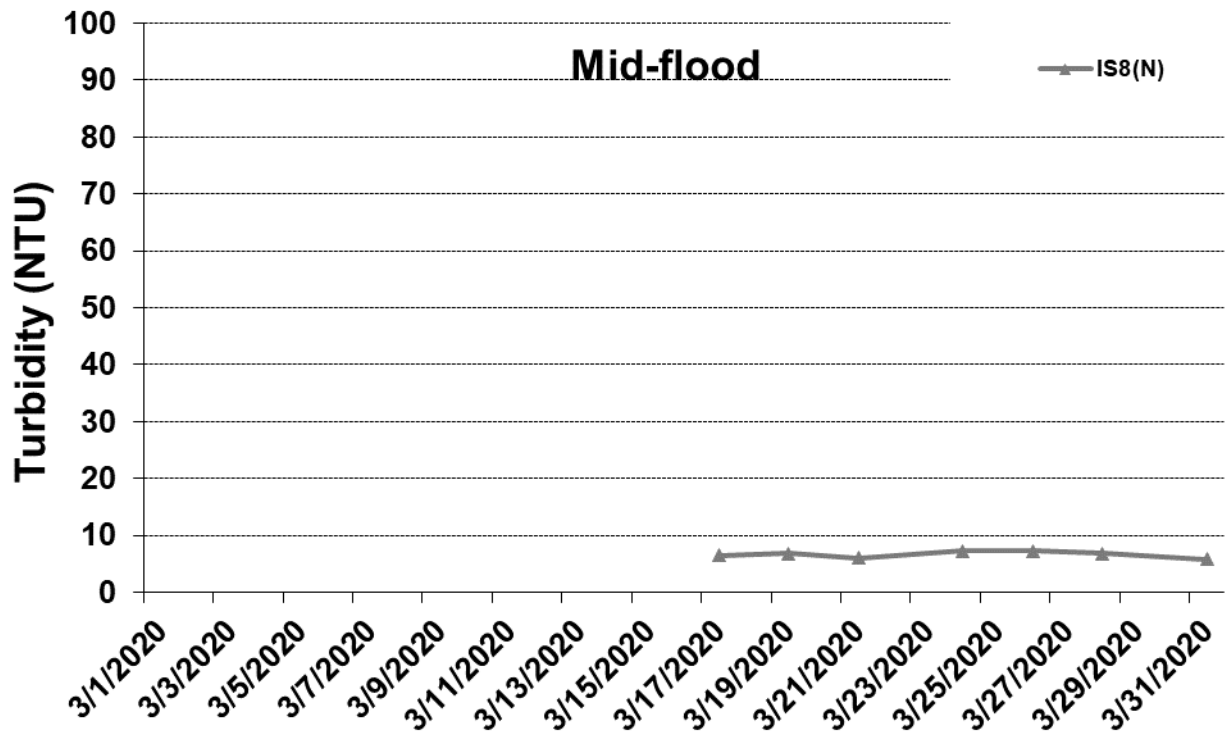
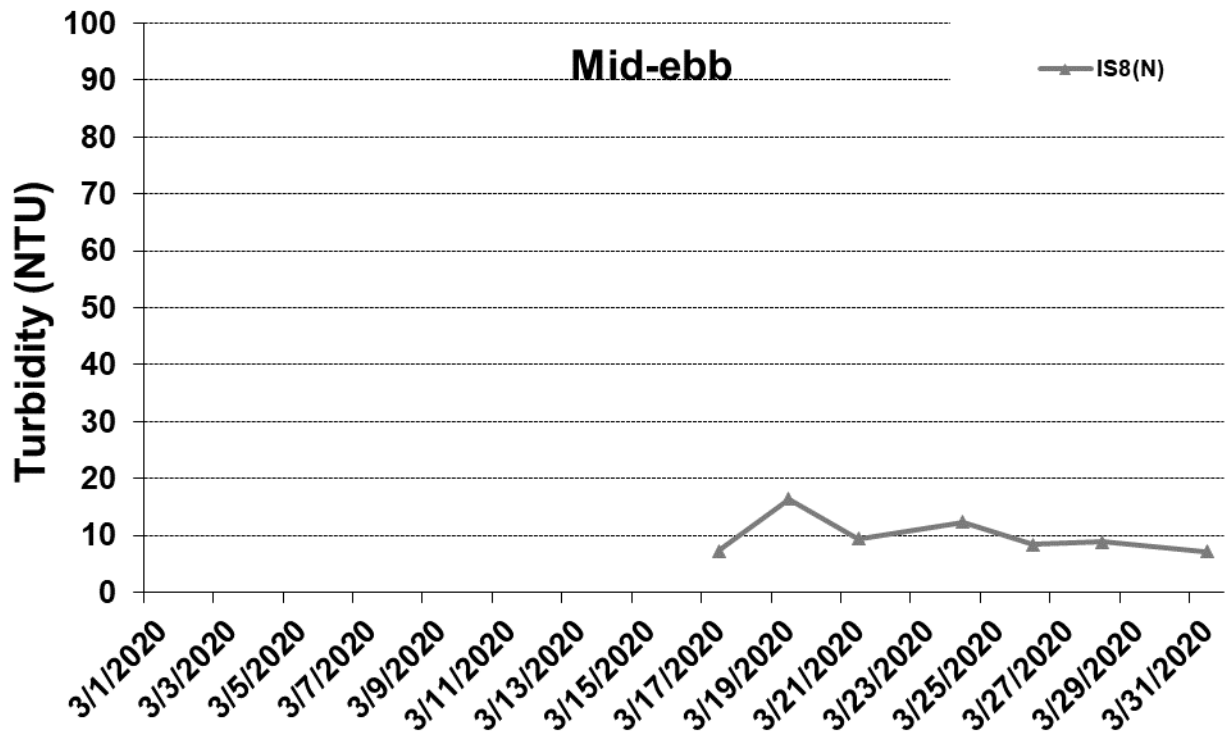


Figure J63 Post Construction Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



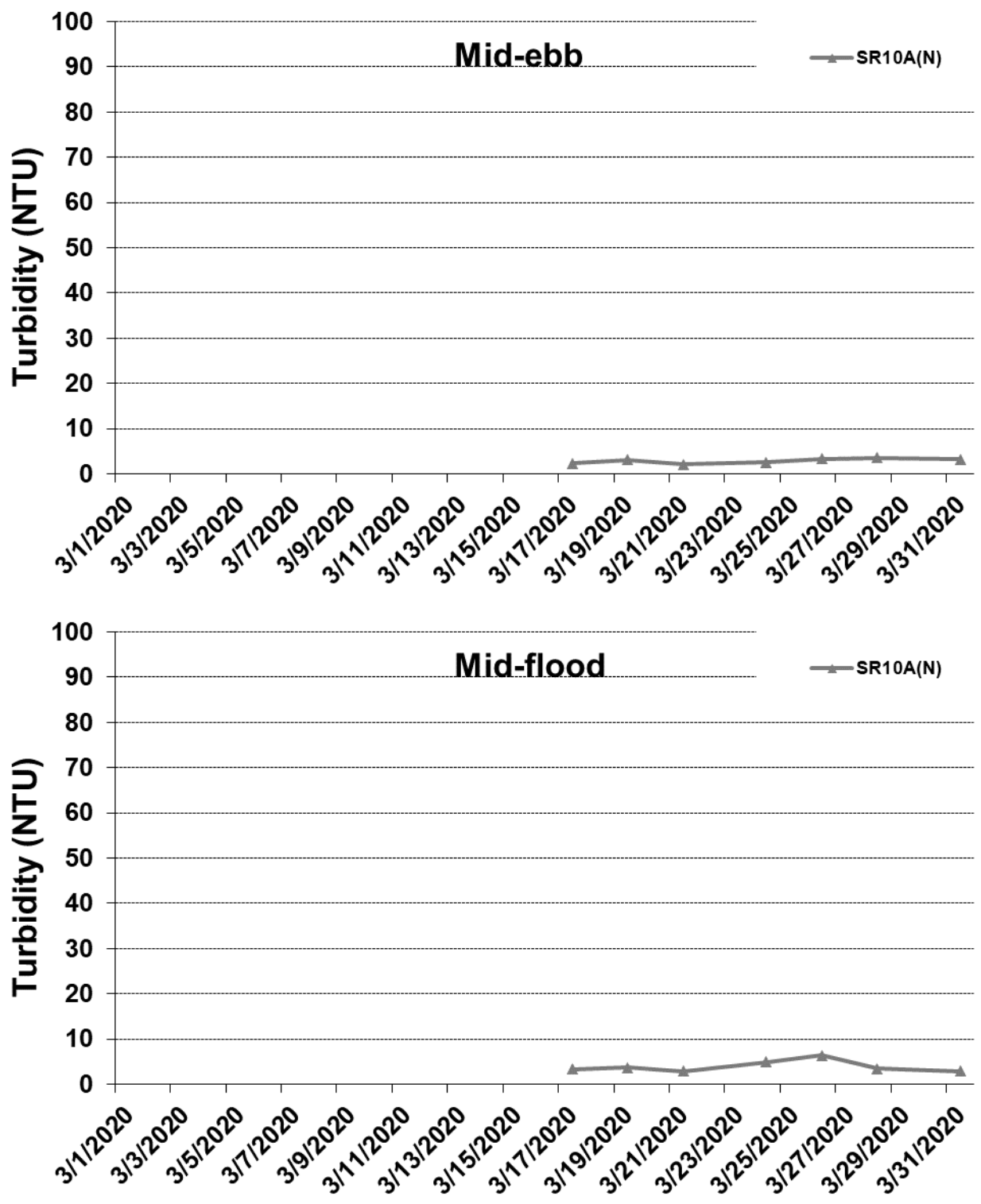


Figure J64 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR10A(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



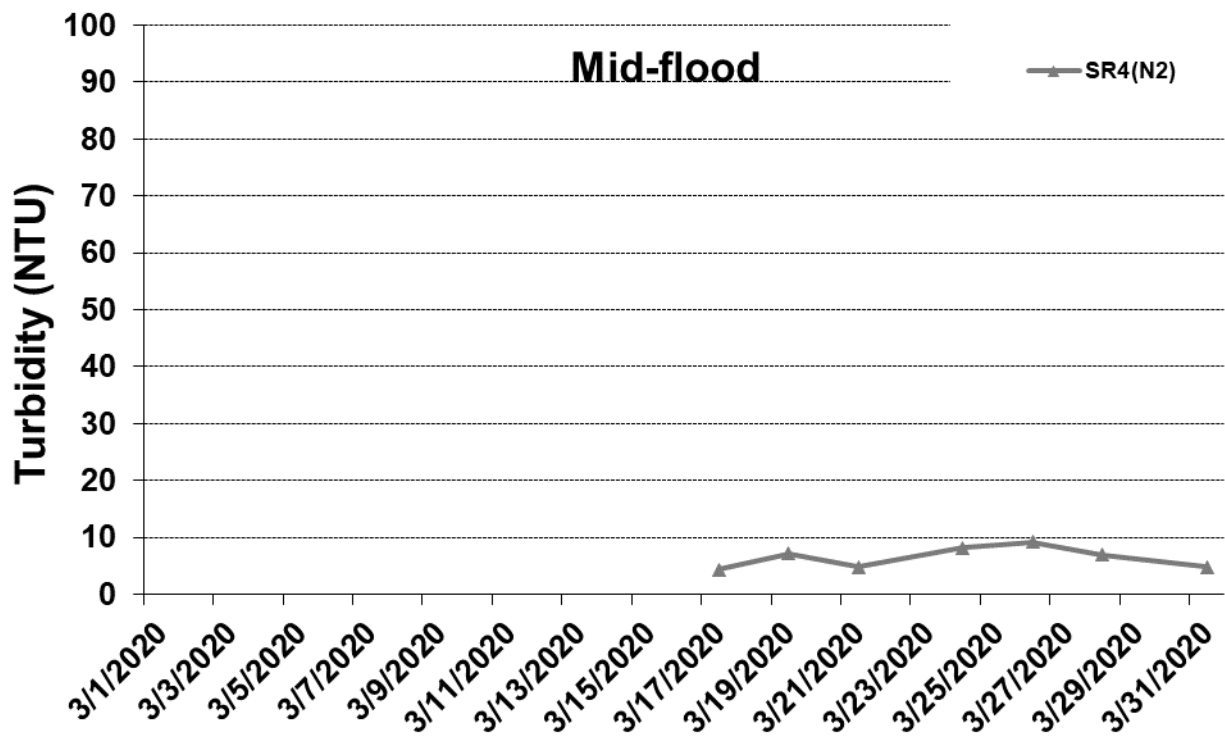
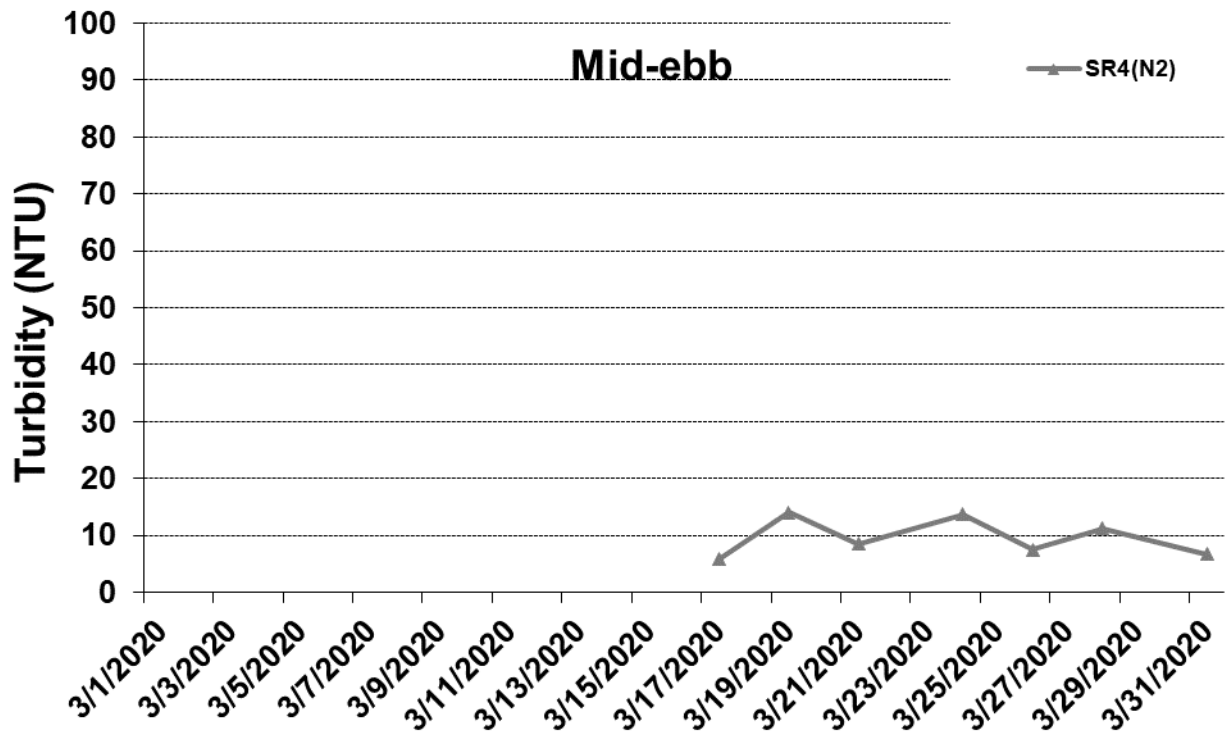


Figure J65 Post Construction Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



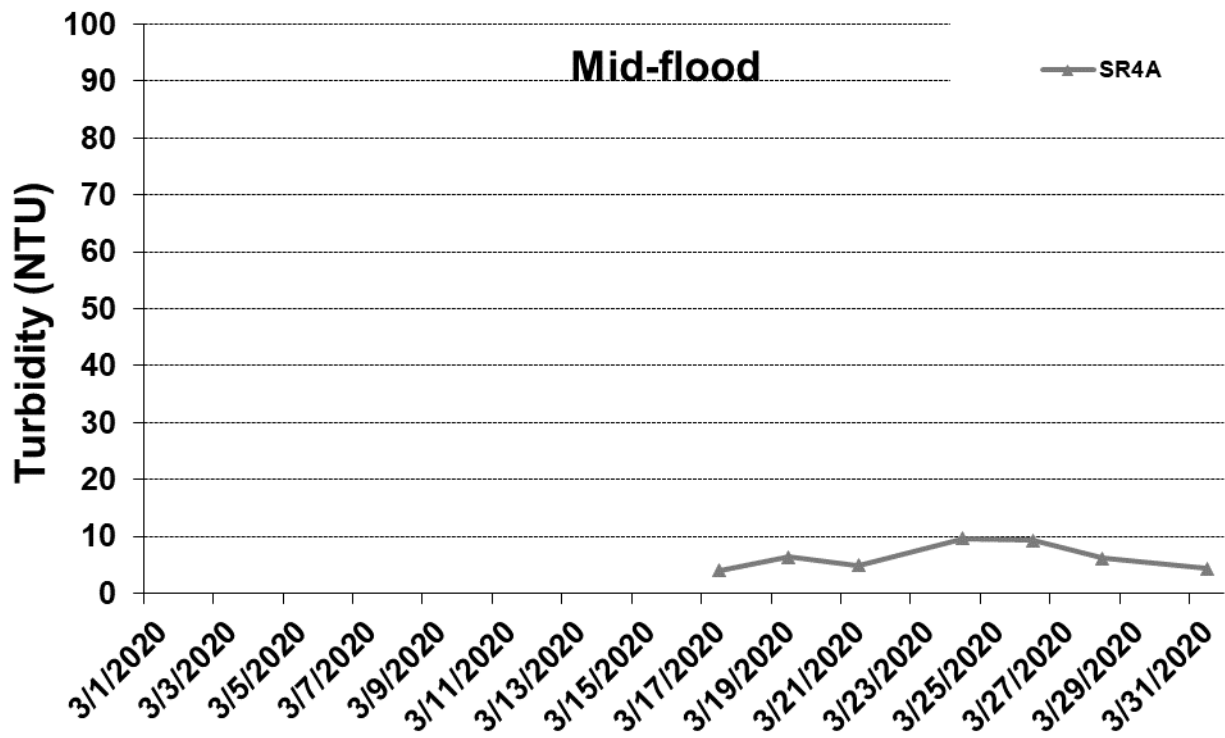
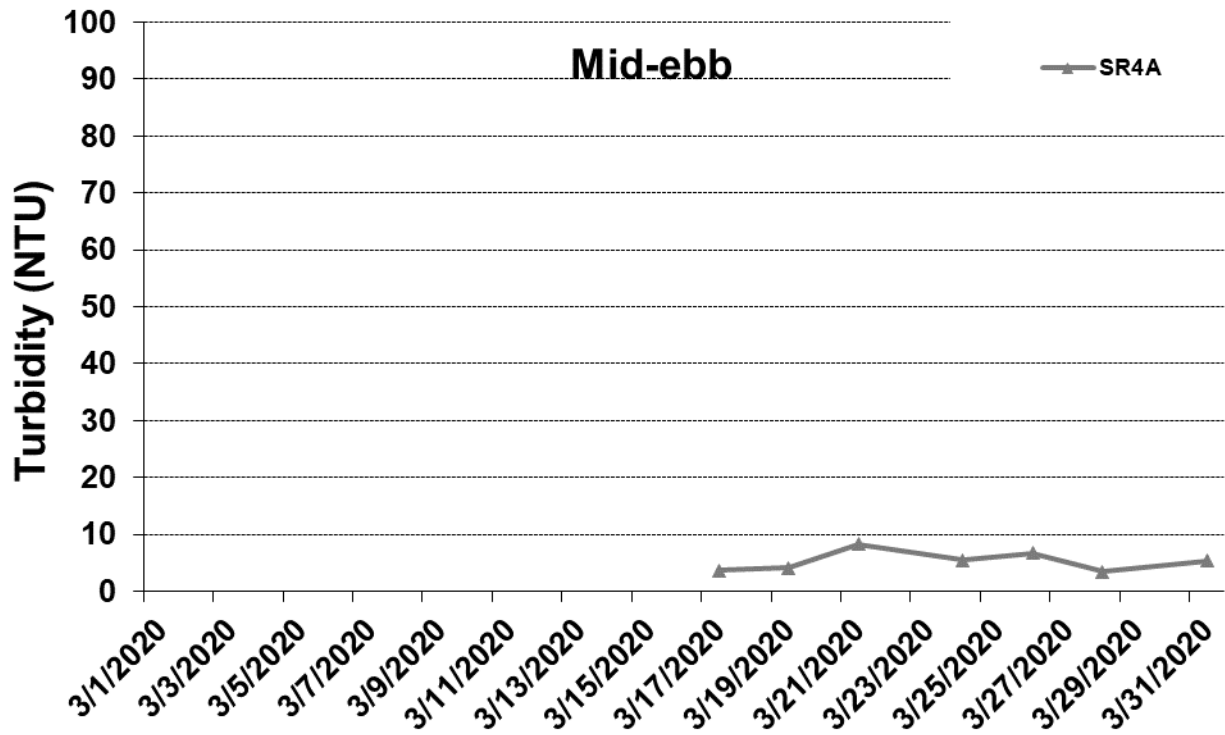


Figure J66 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



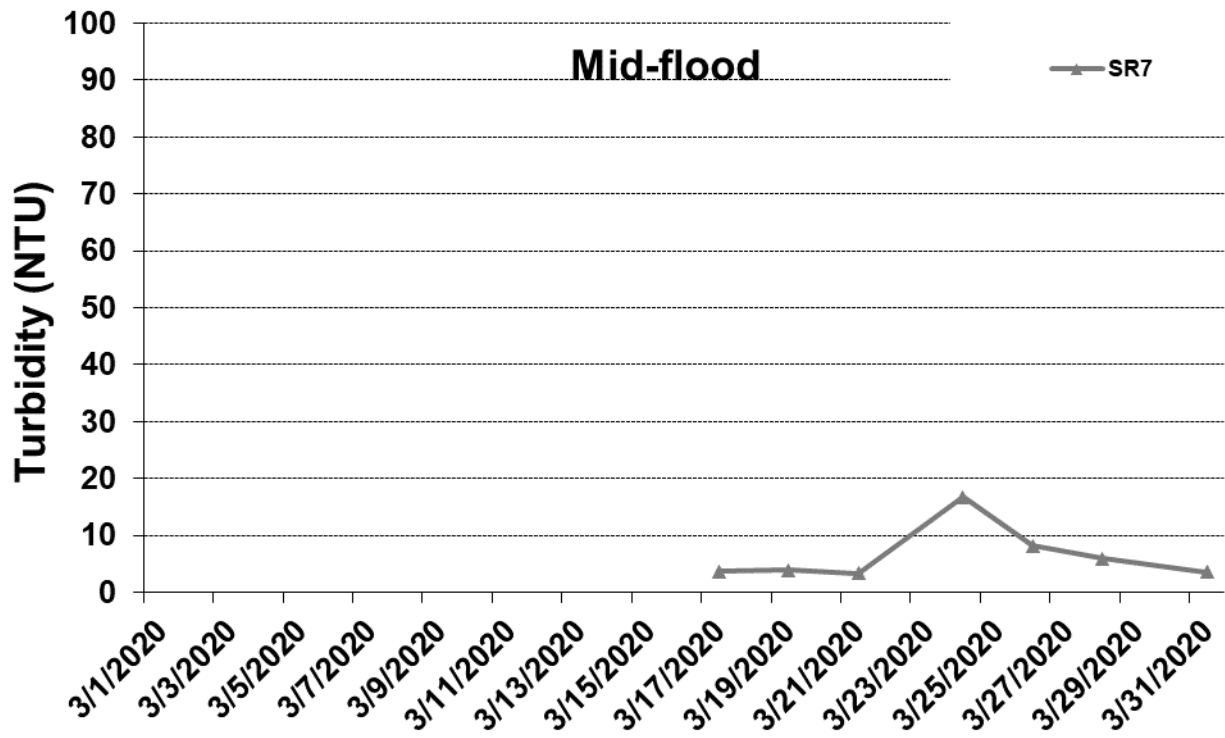
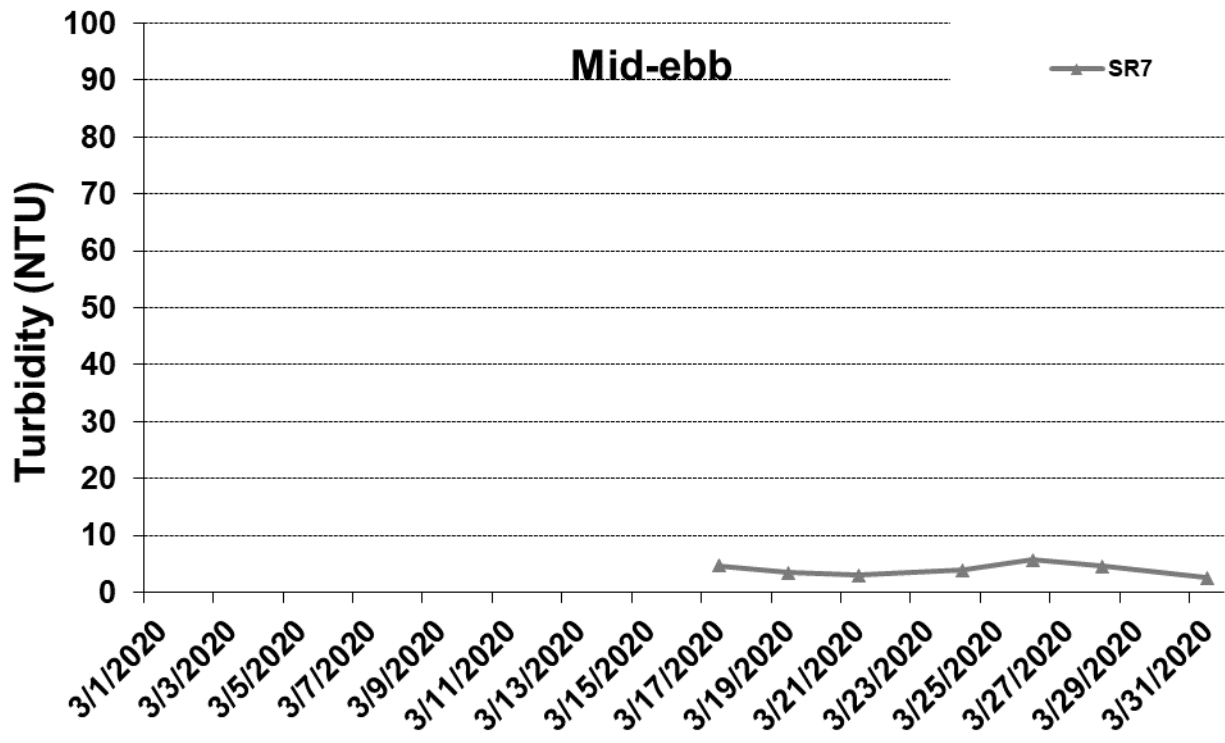


Figure J67 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR7. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



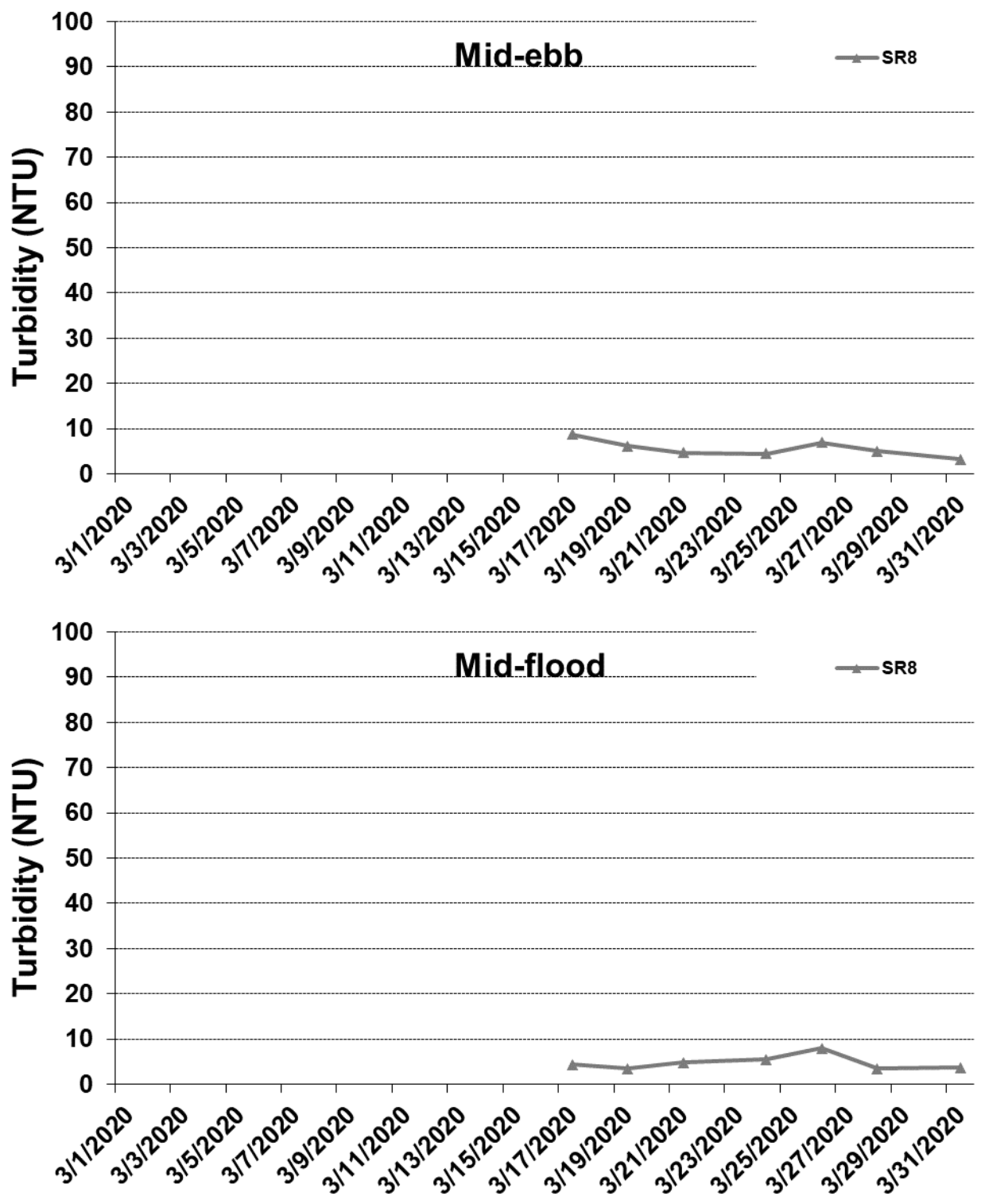


Figure J68 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR8. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



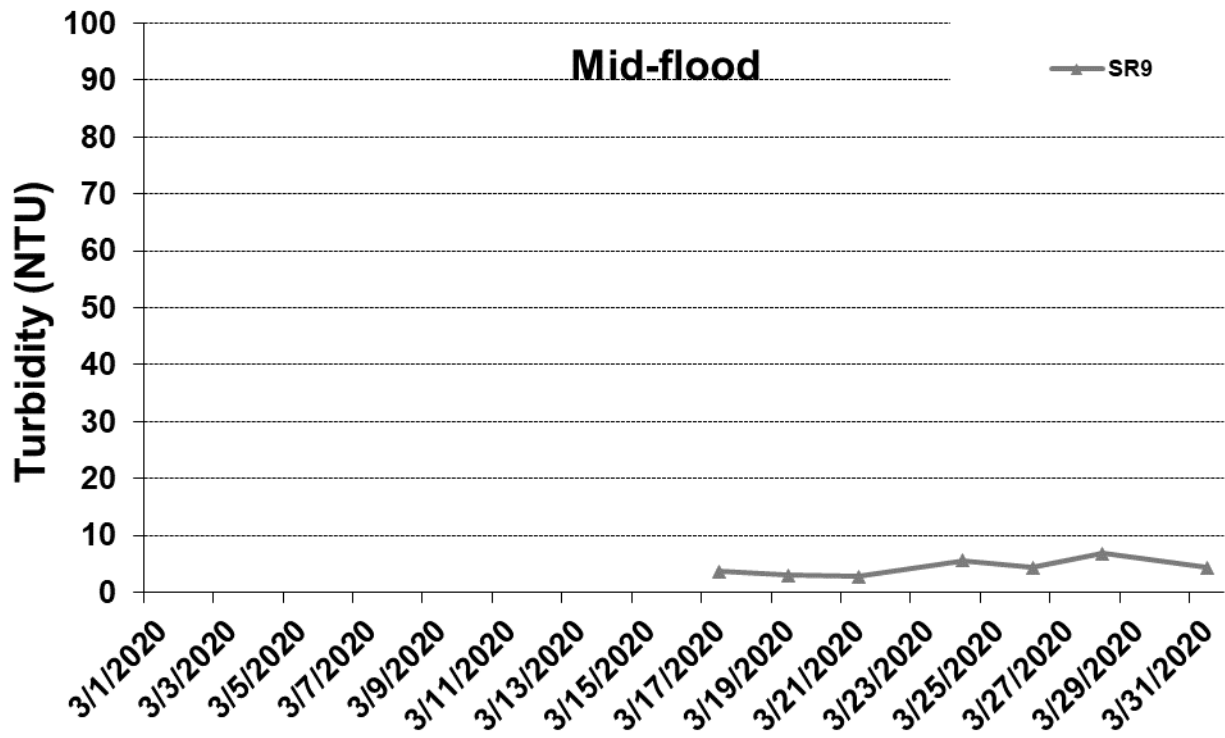
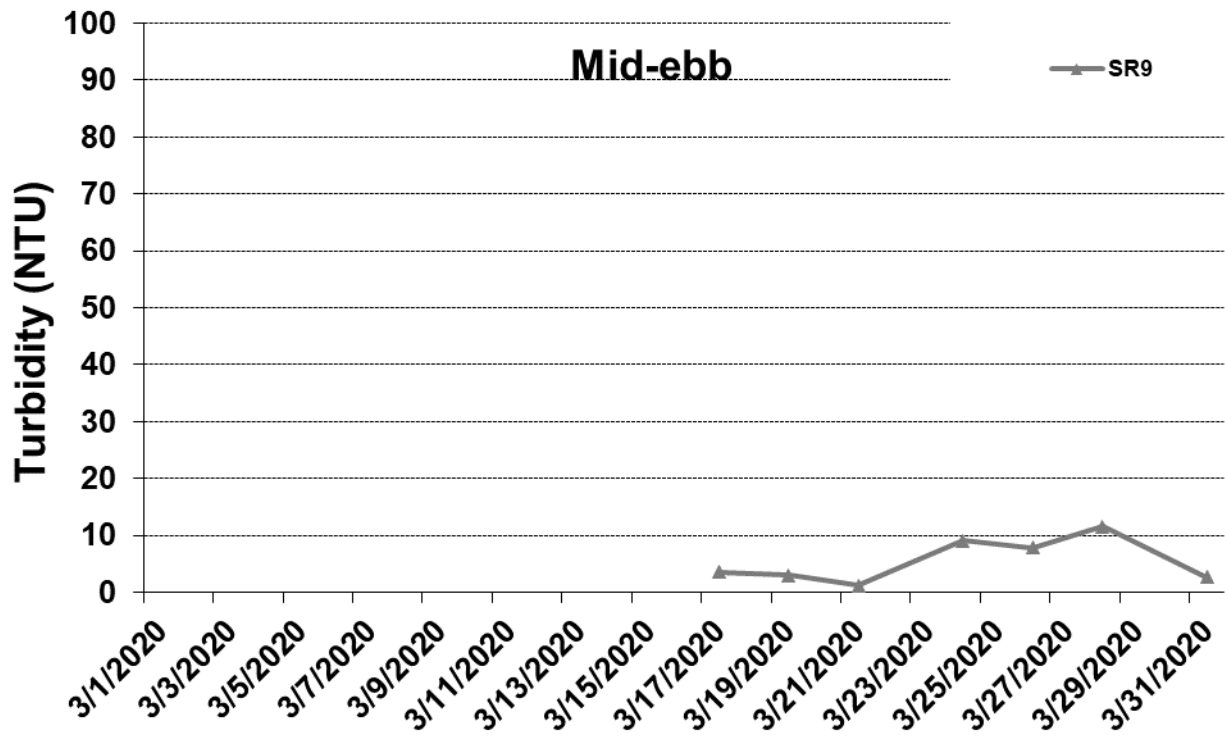


Figure J69 Post Construction Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 17 March 2020 and 31 March 2020 at SR9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



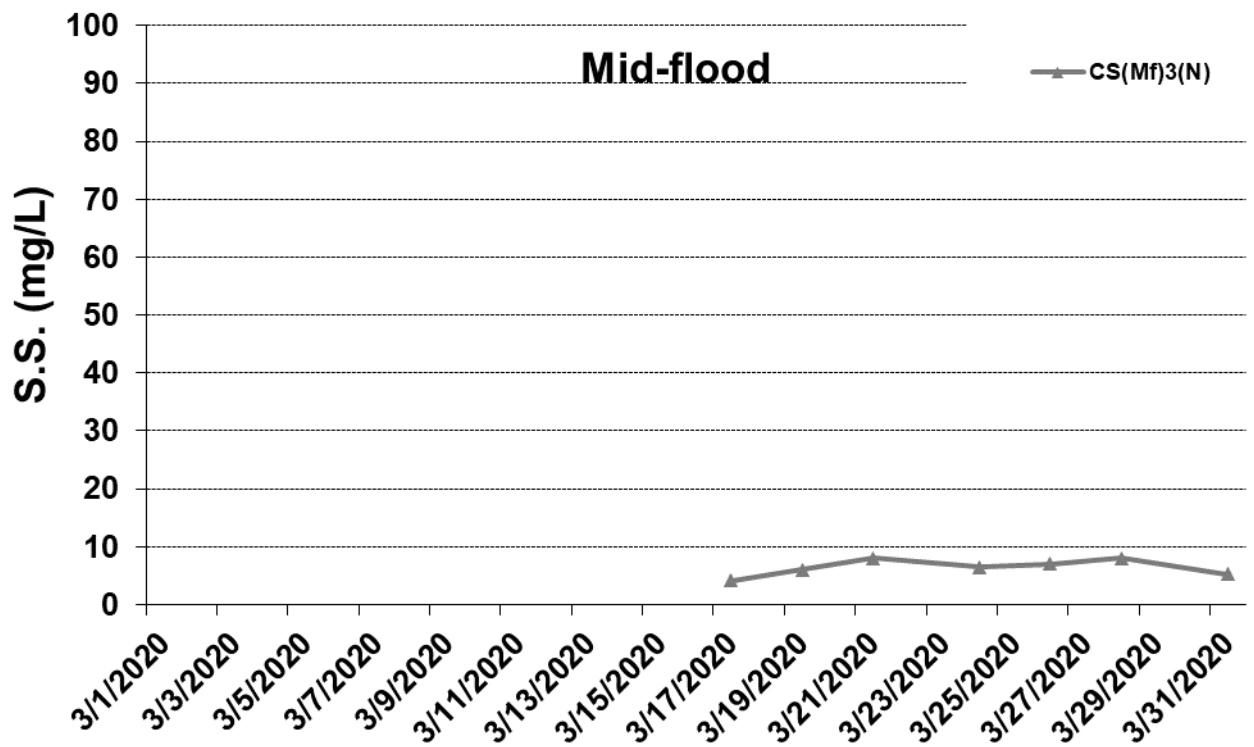
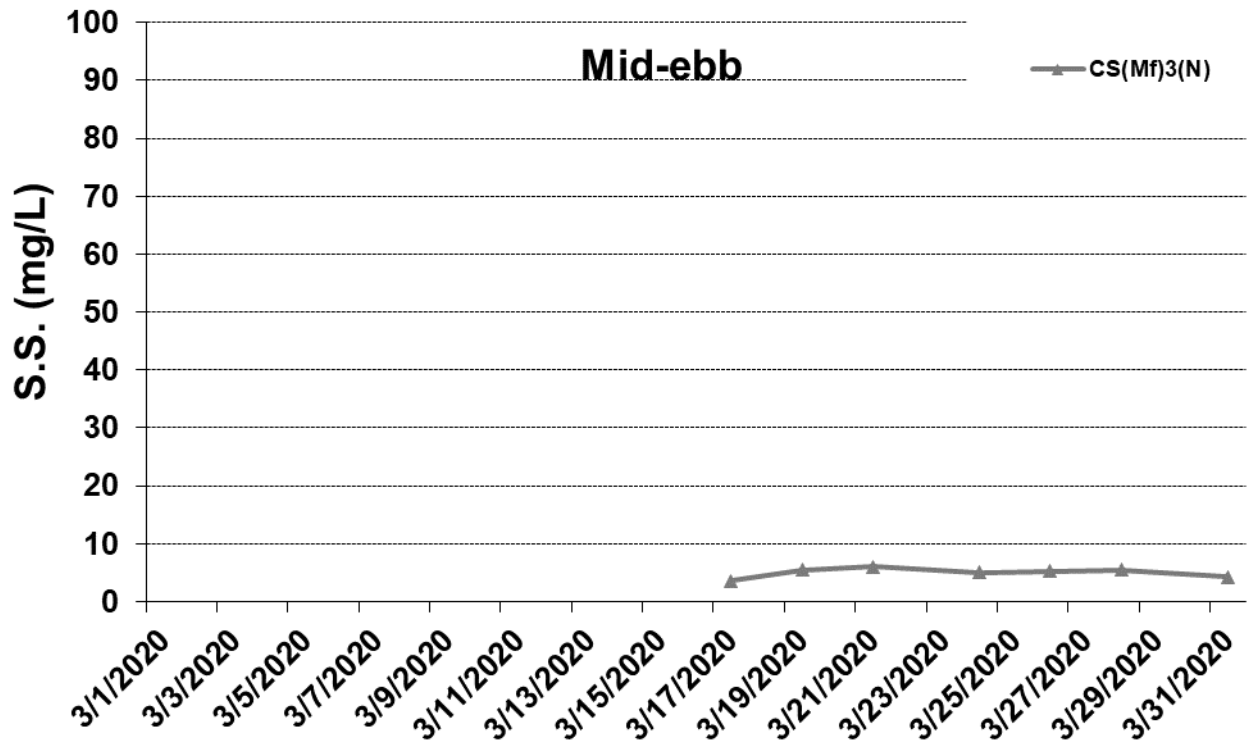


Figure J70 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



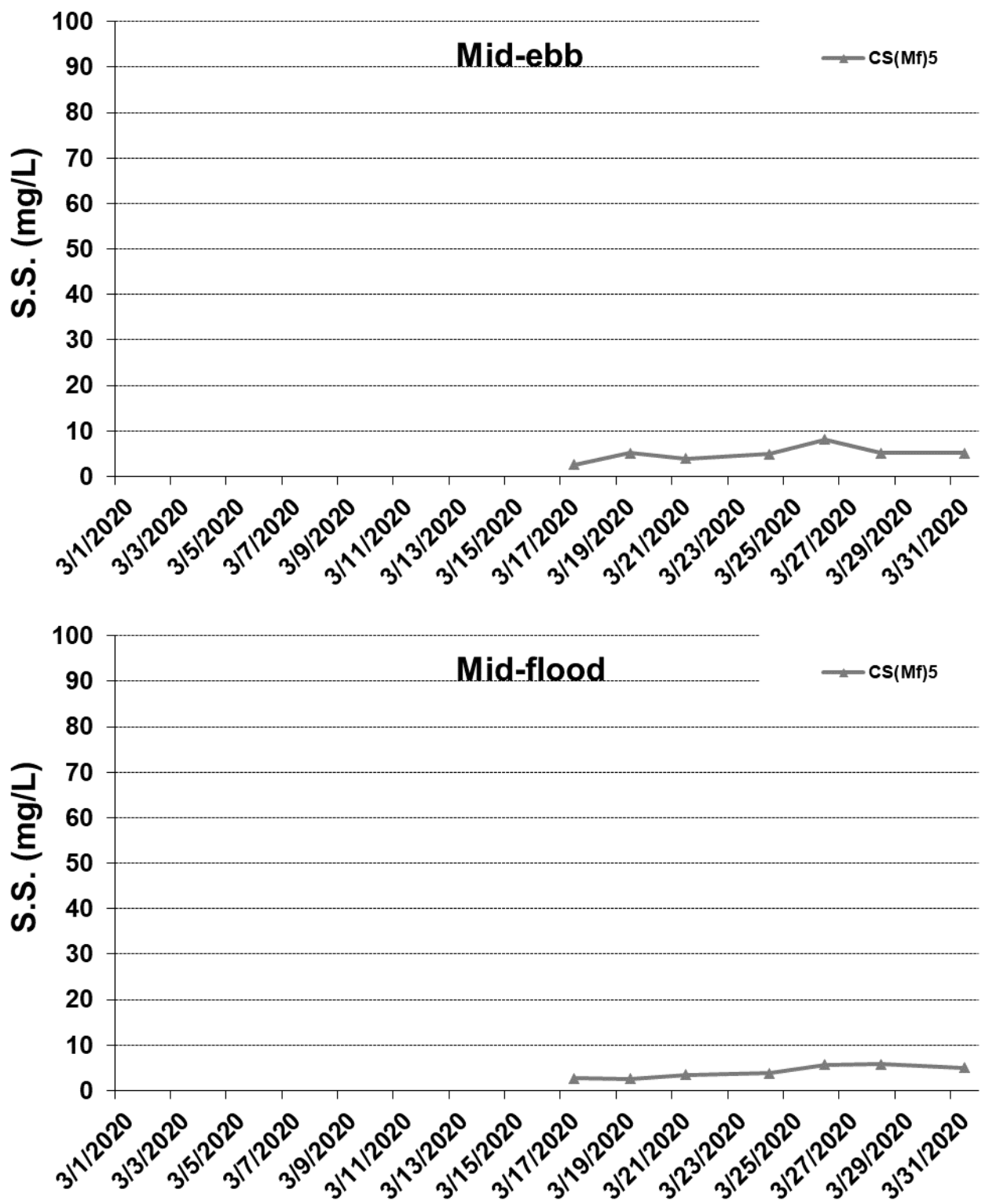


Figure J71 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



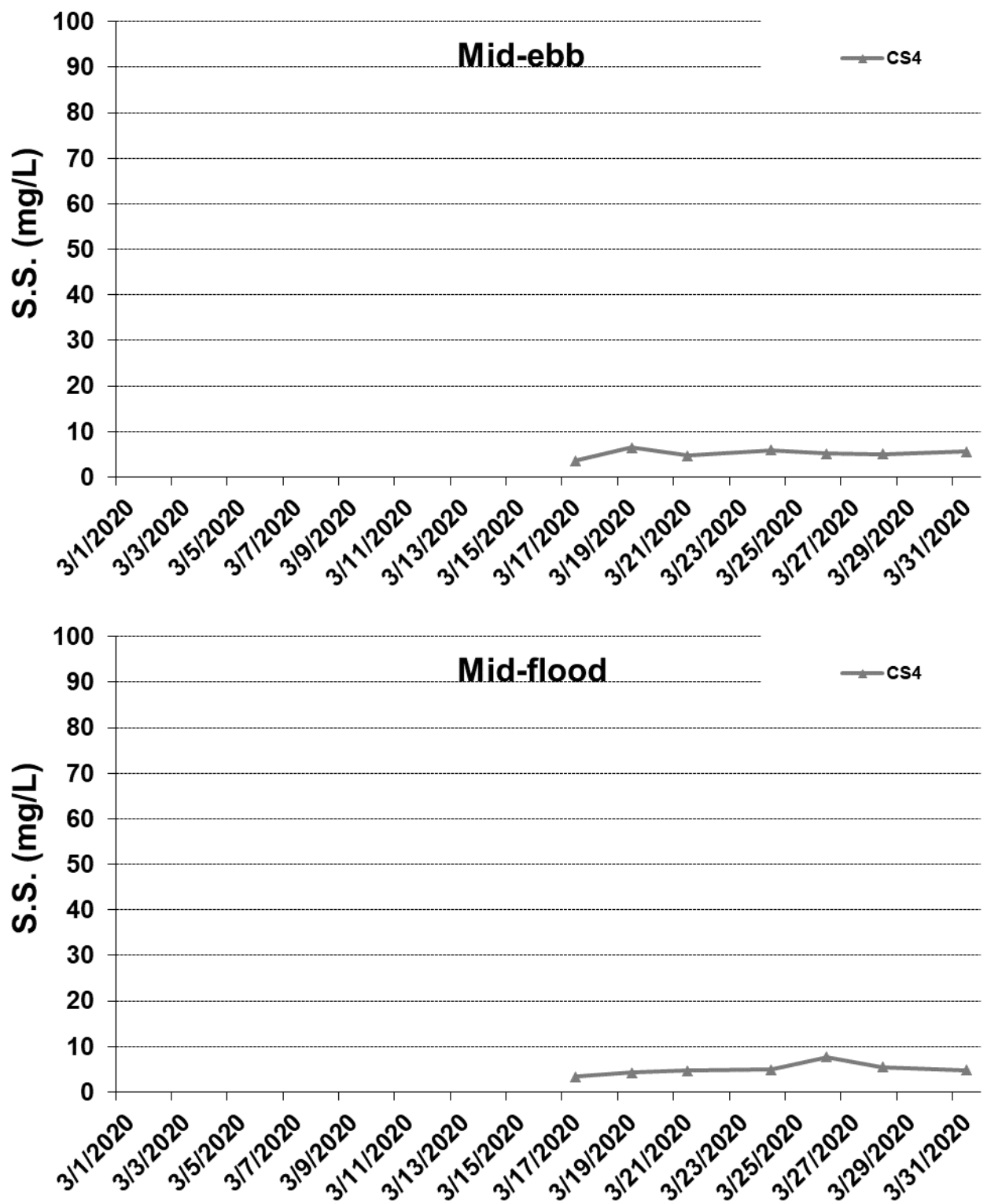


Figure J72 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at CS4. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



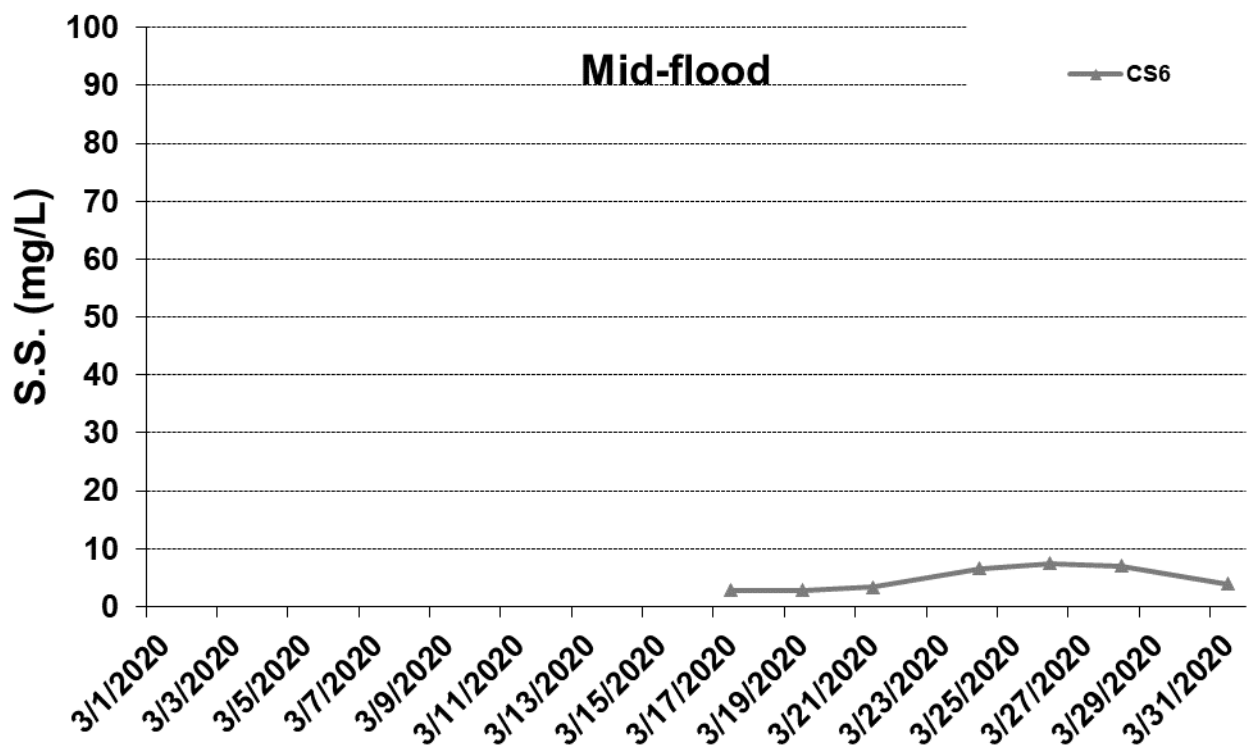
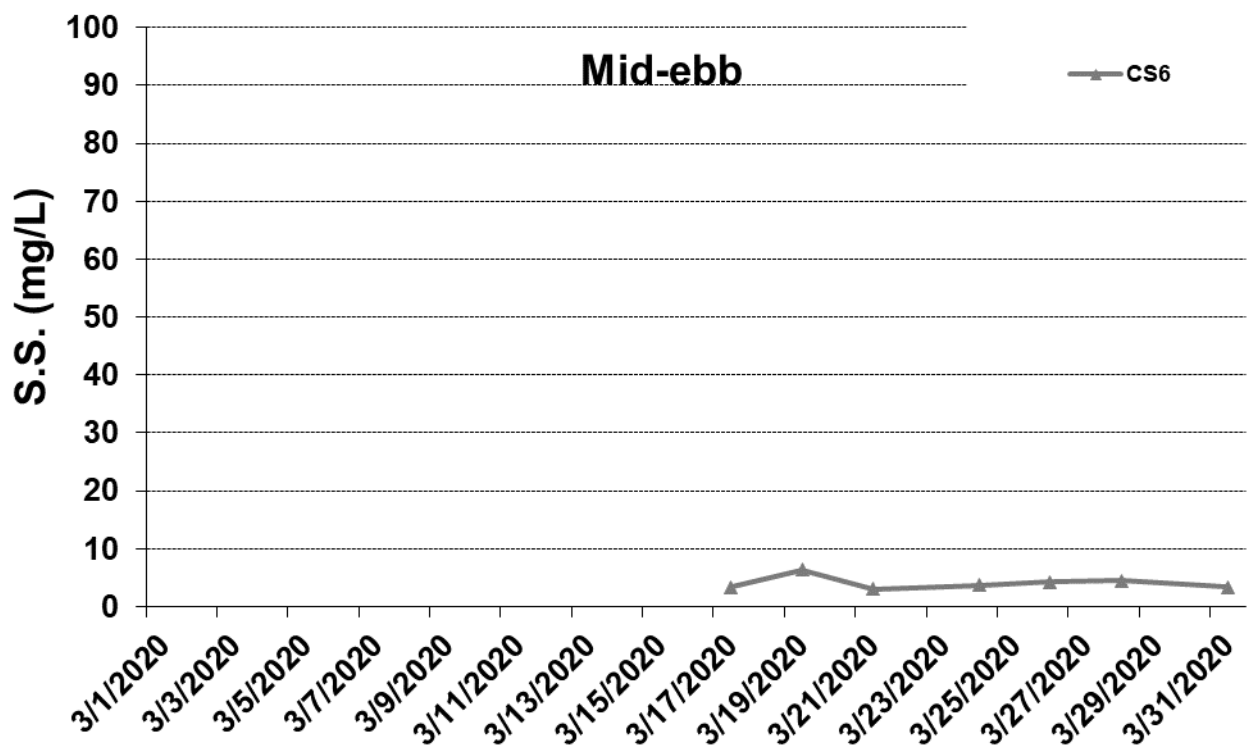


Figure J73 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at CS6. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



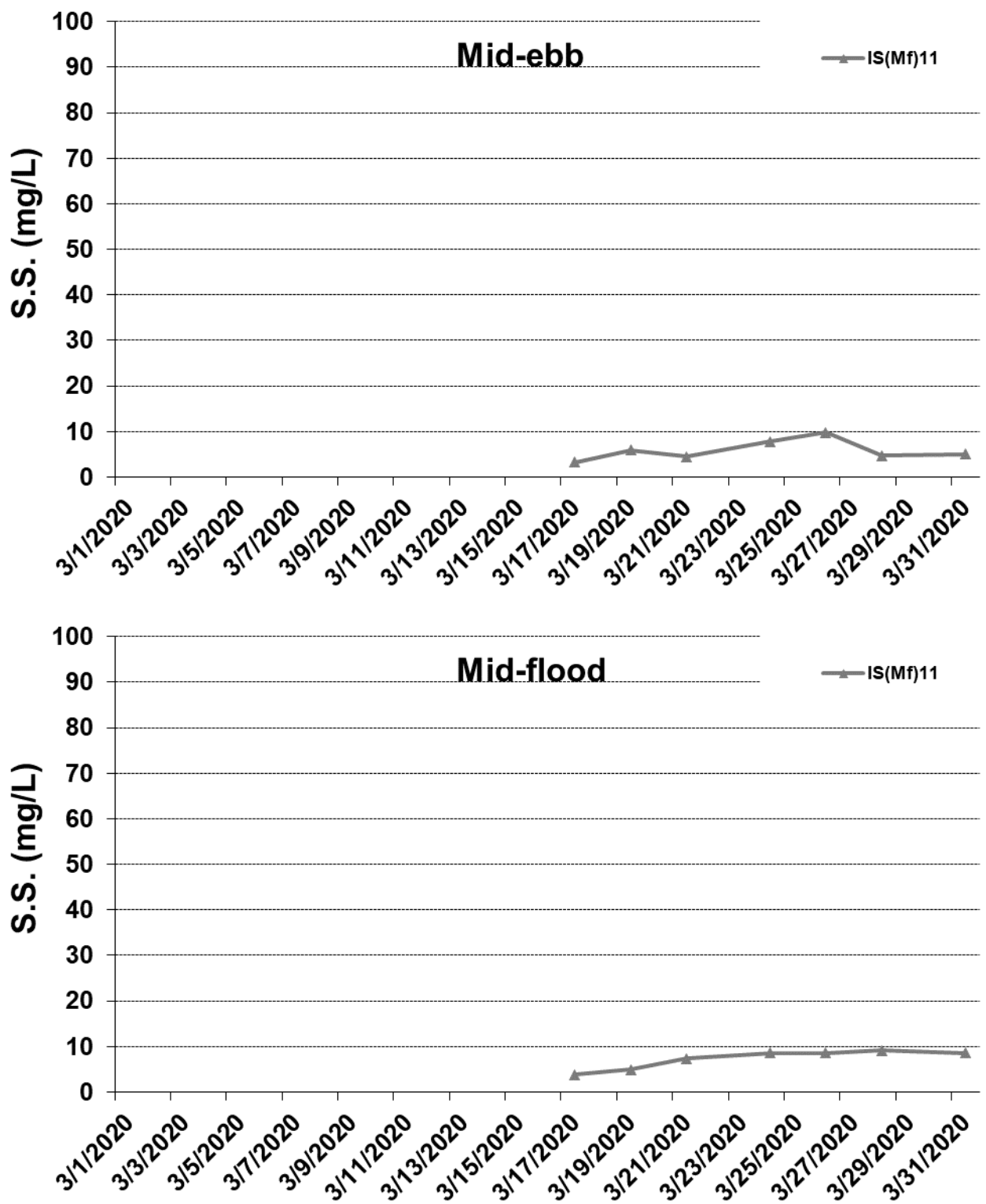


Figure J74 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



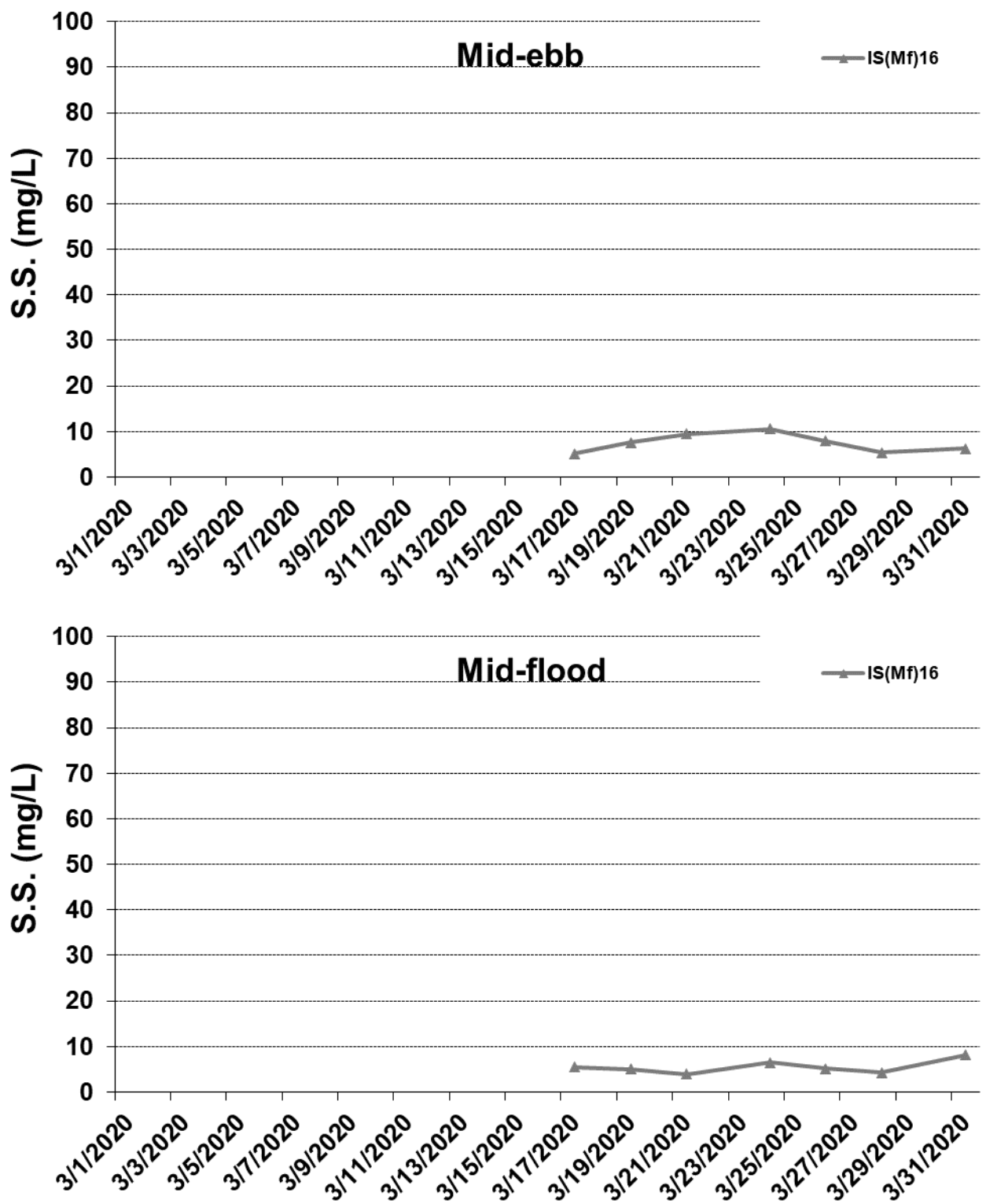


Figure J75 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



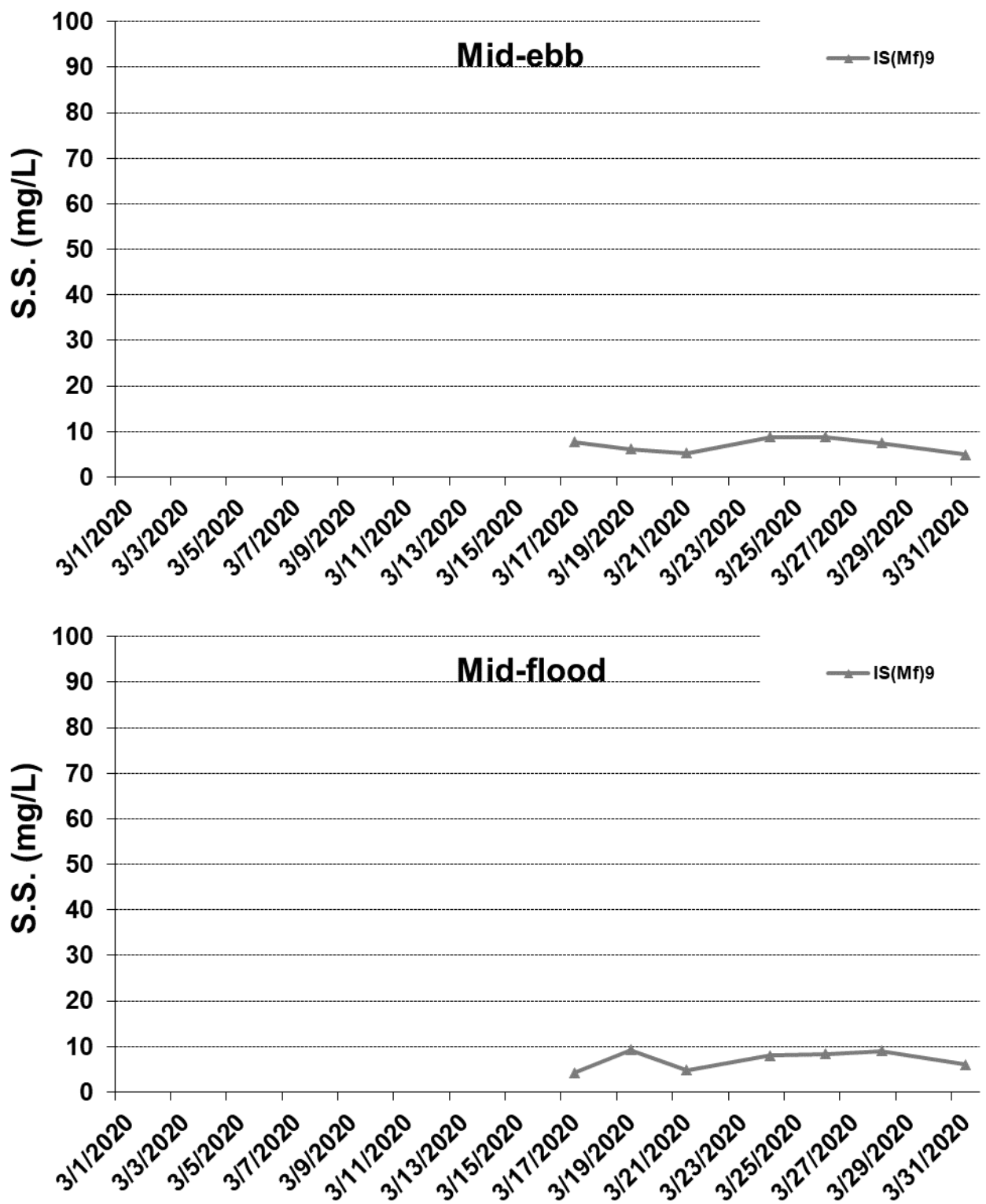


Figure J76 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



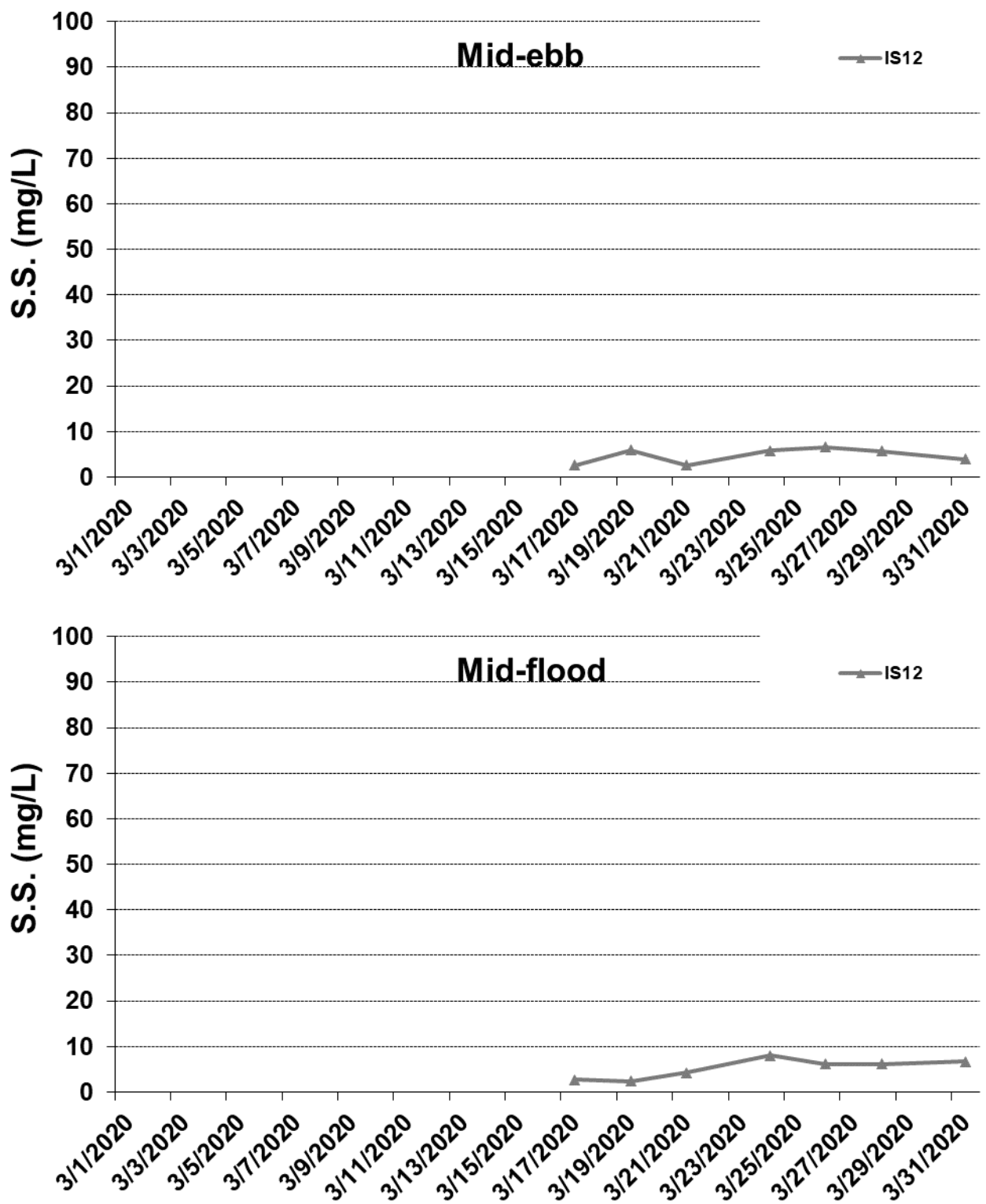


Figure J77 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS12. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



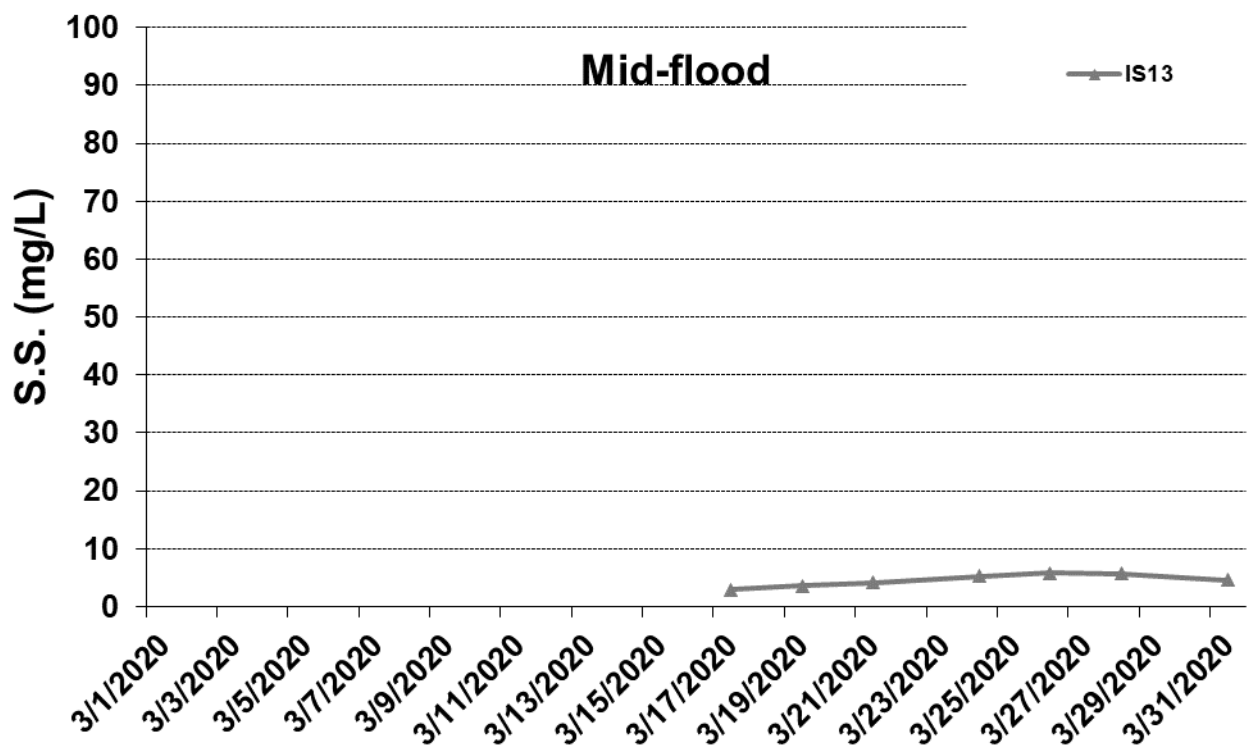
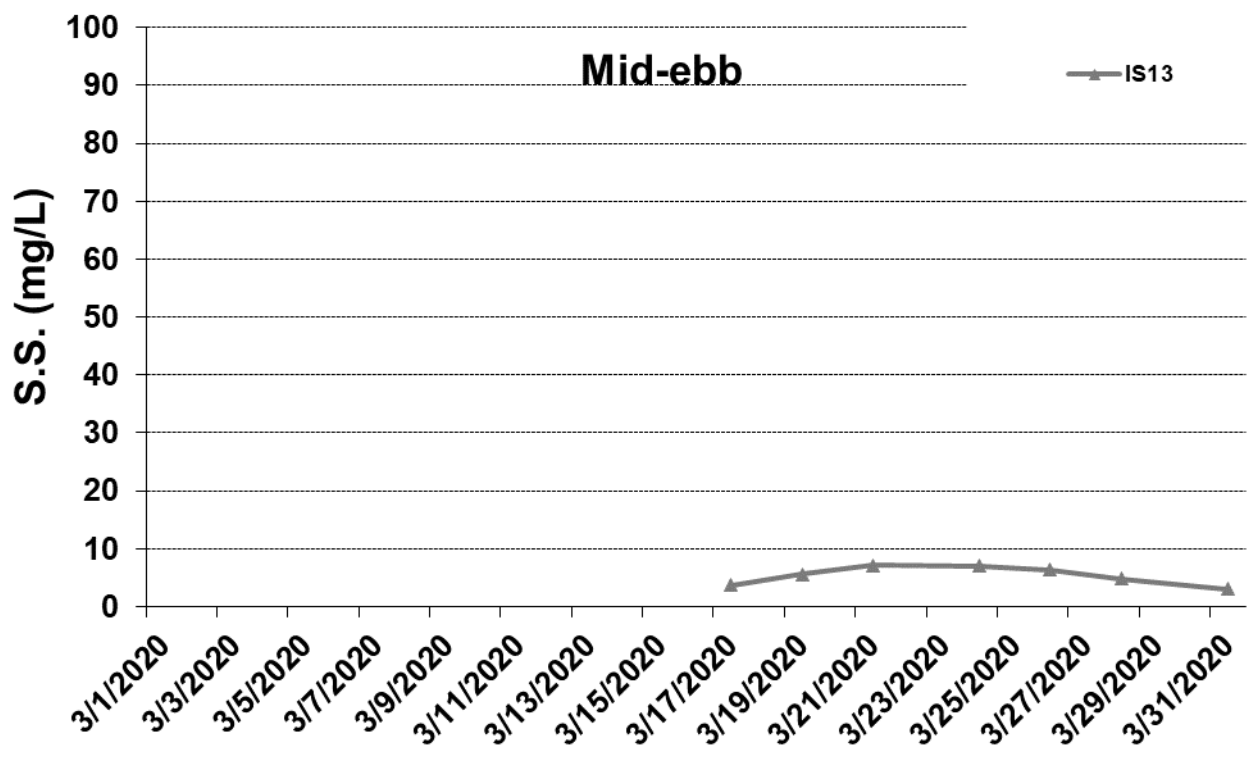


Figure J78 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS13. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



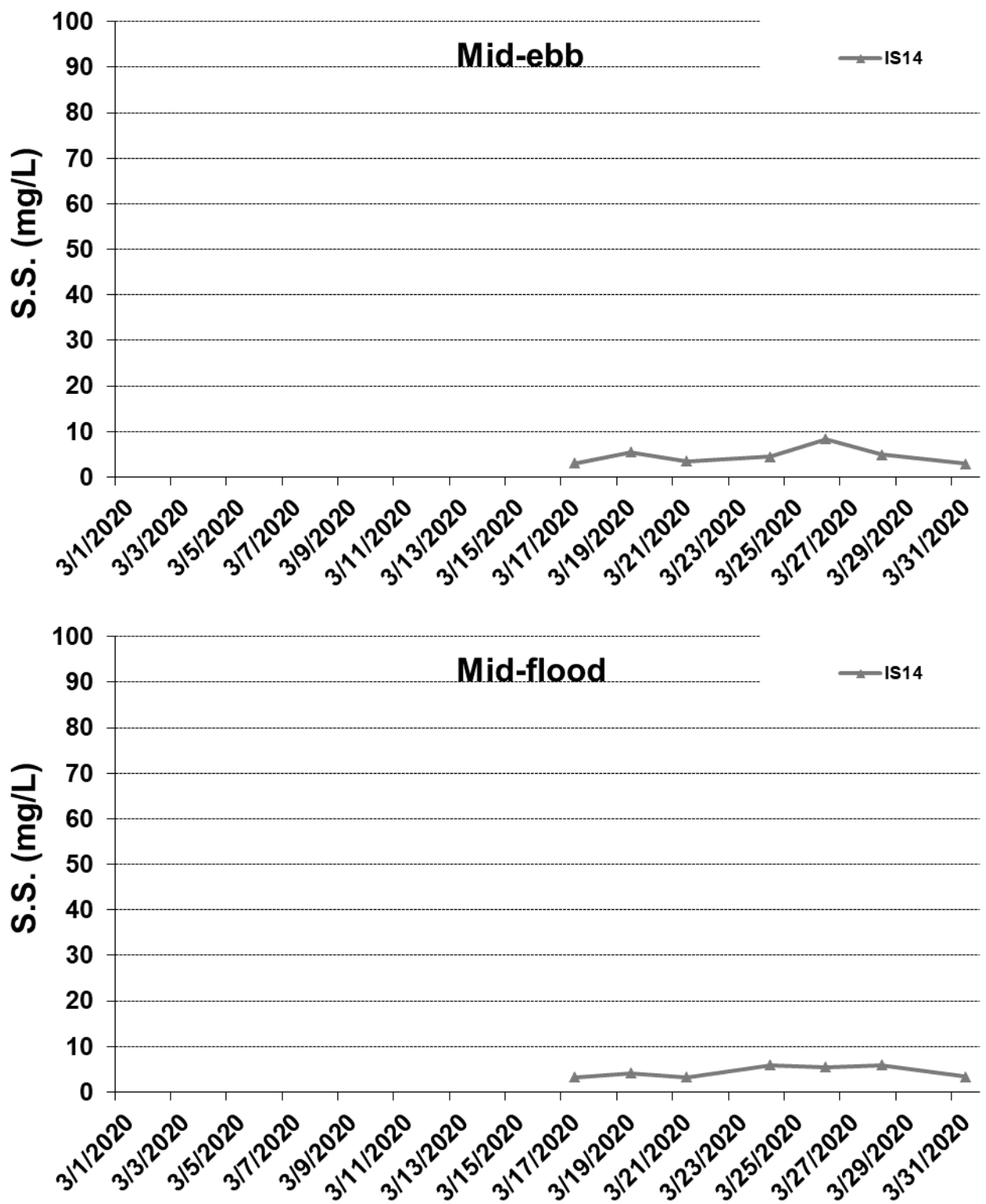


Figure J79 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS14. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



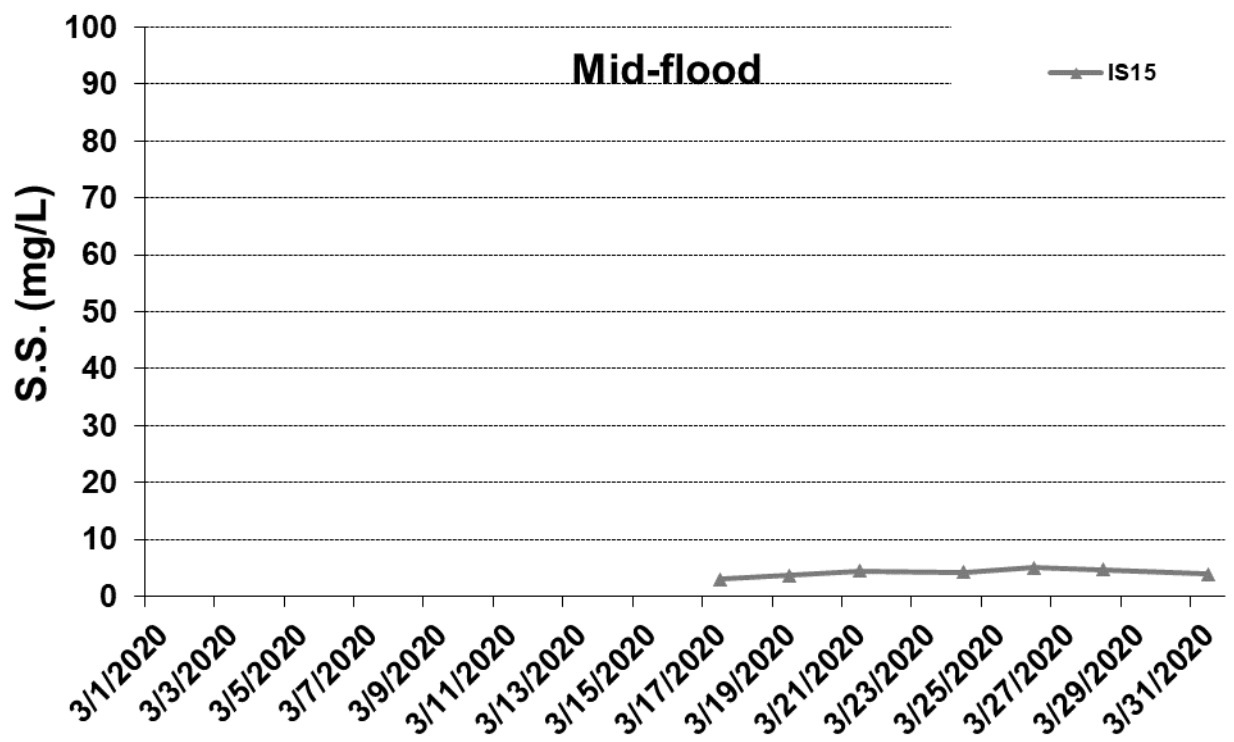
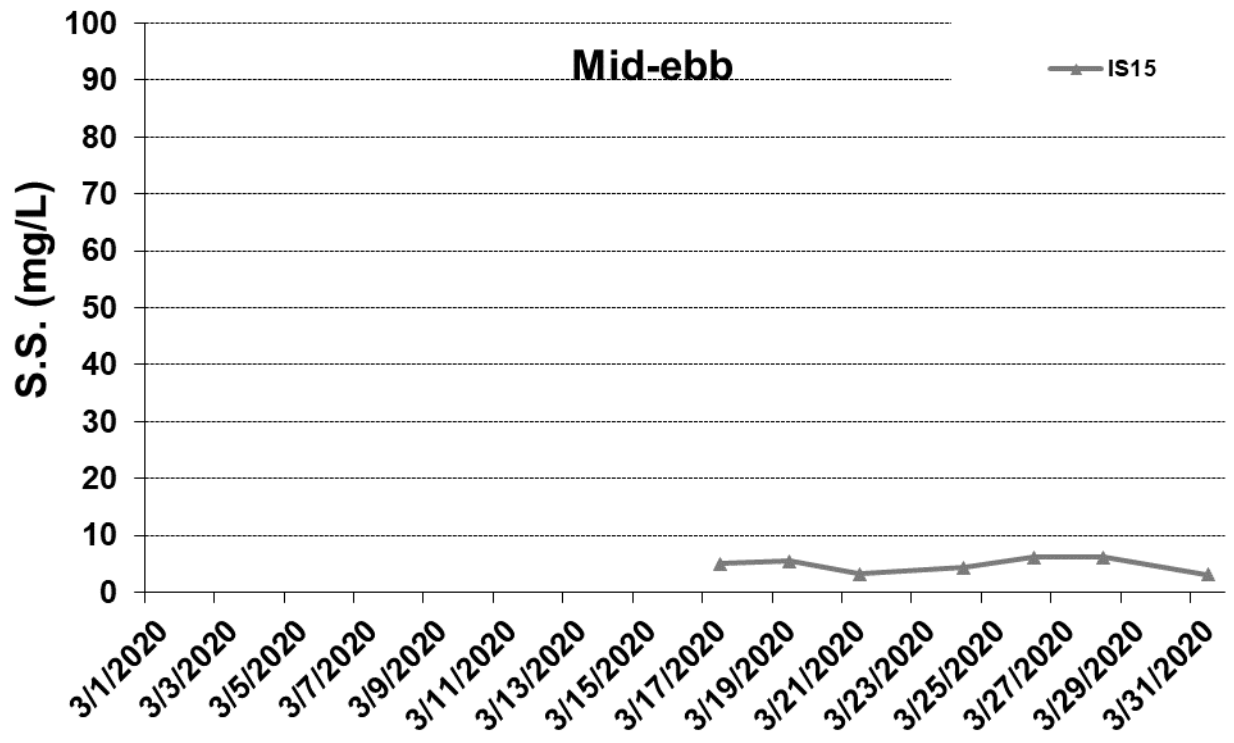


Figure J80 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS15. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



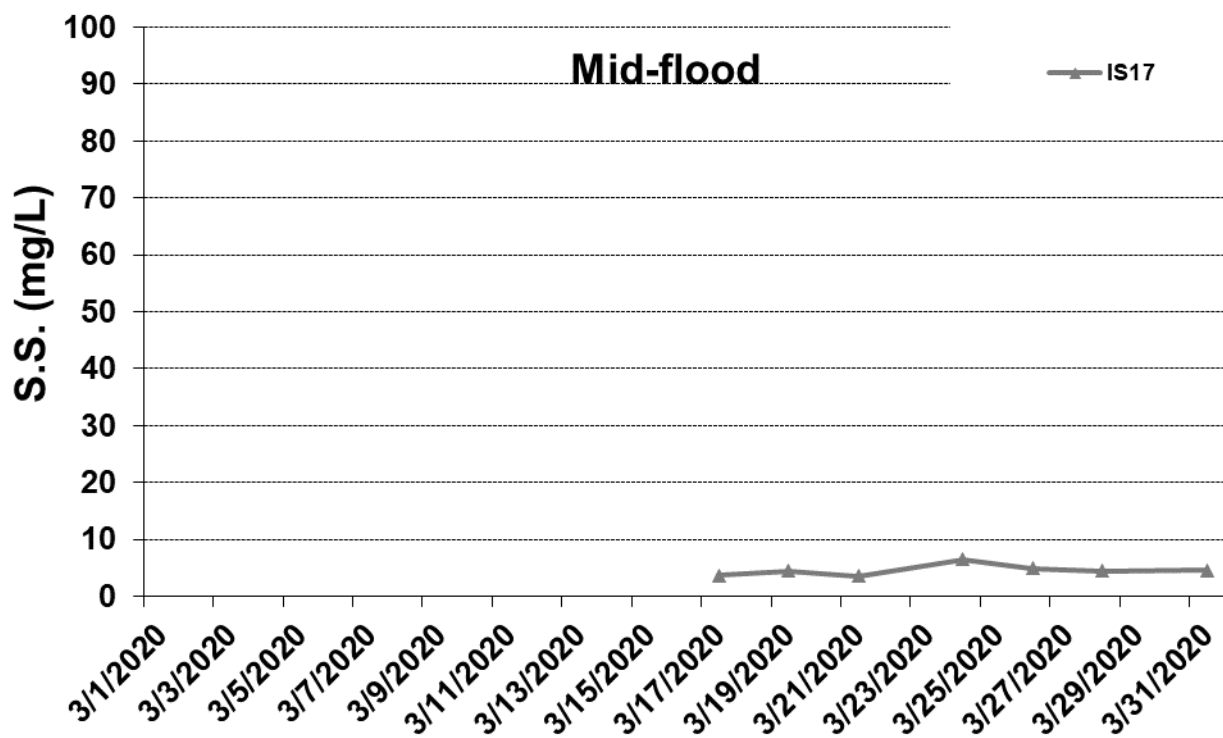
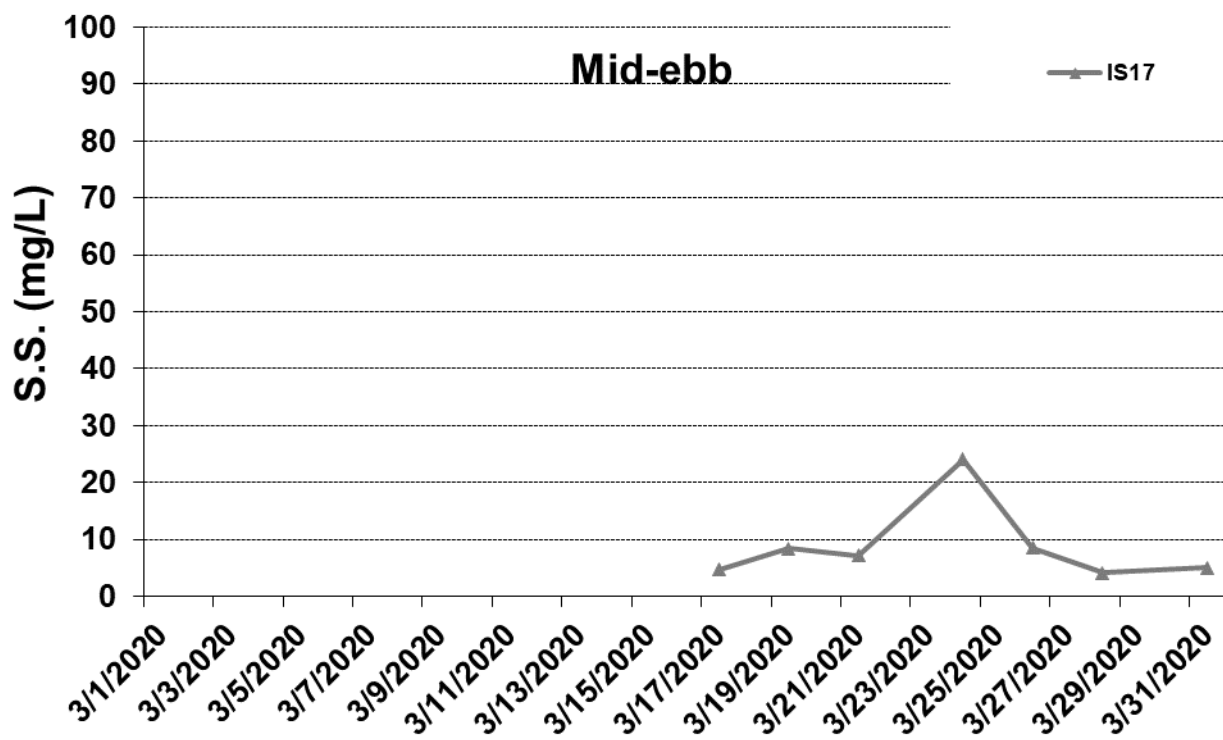


Figure J81 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS17. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



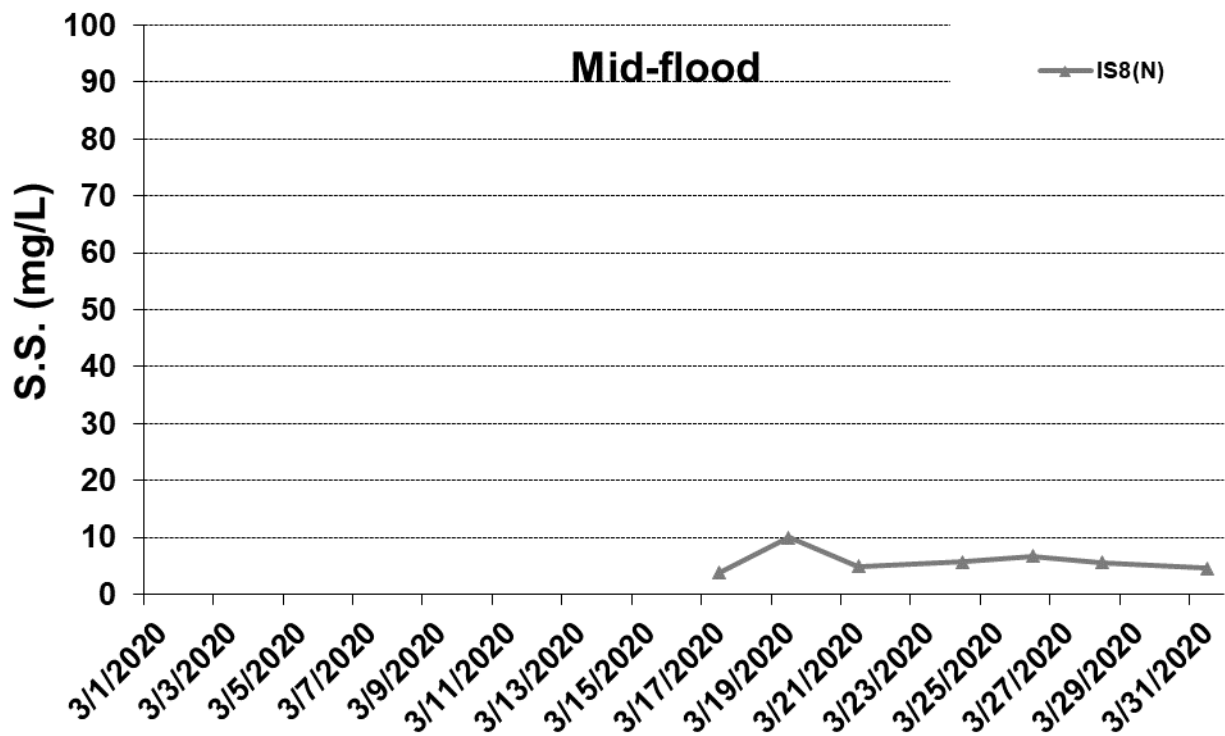
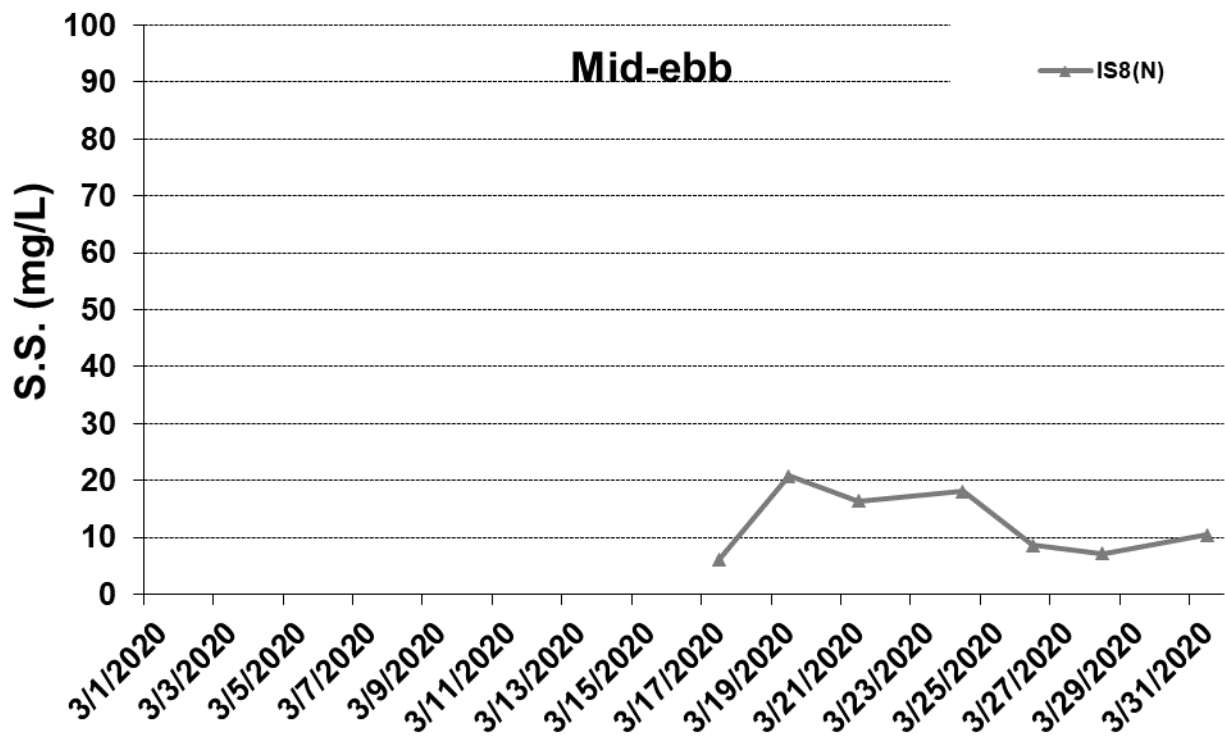


Figure J82 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



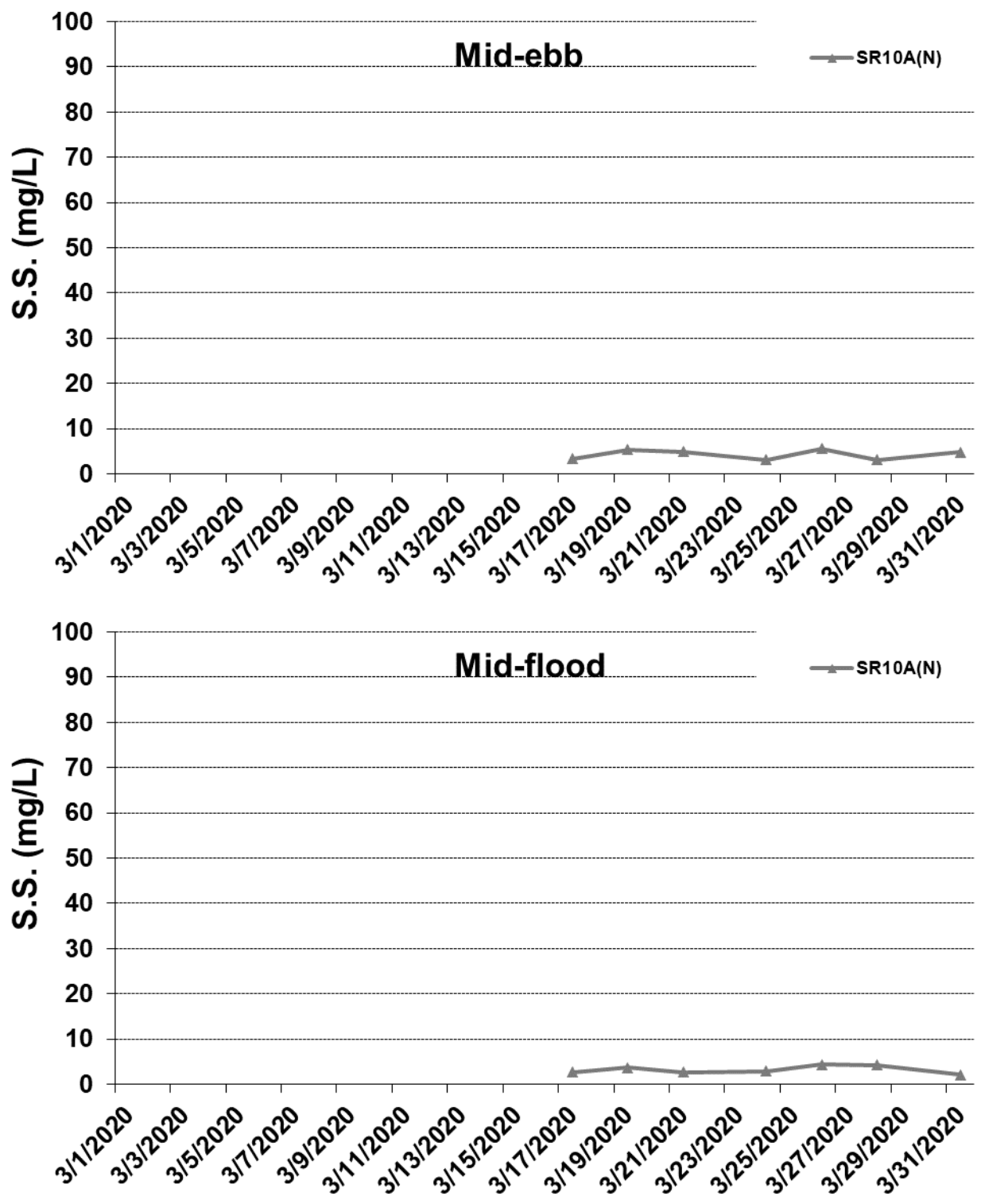


Figure J83 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR10A(N). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



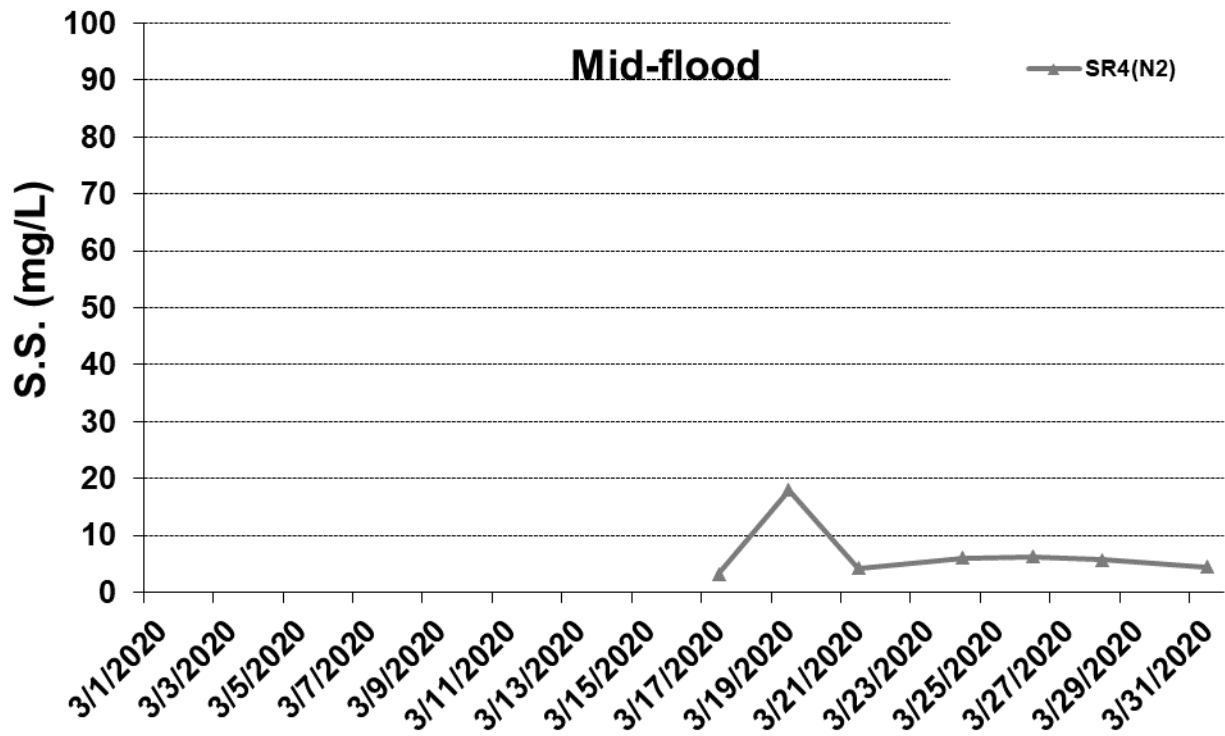
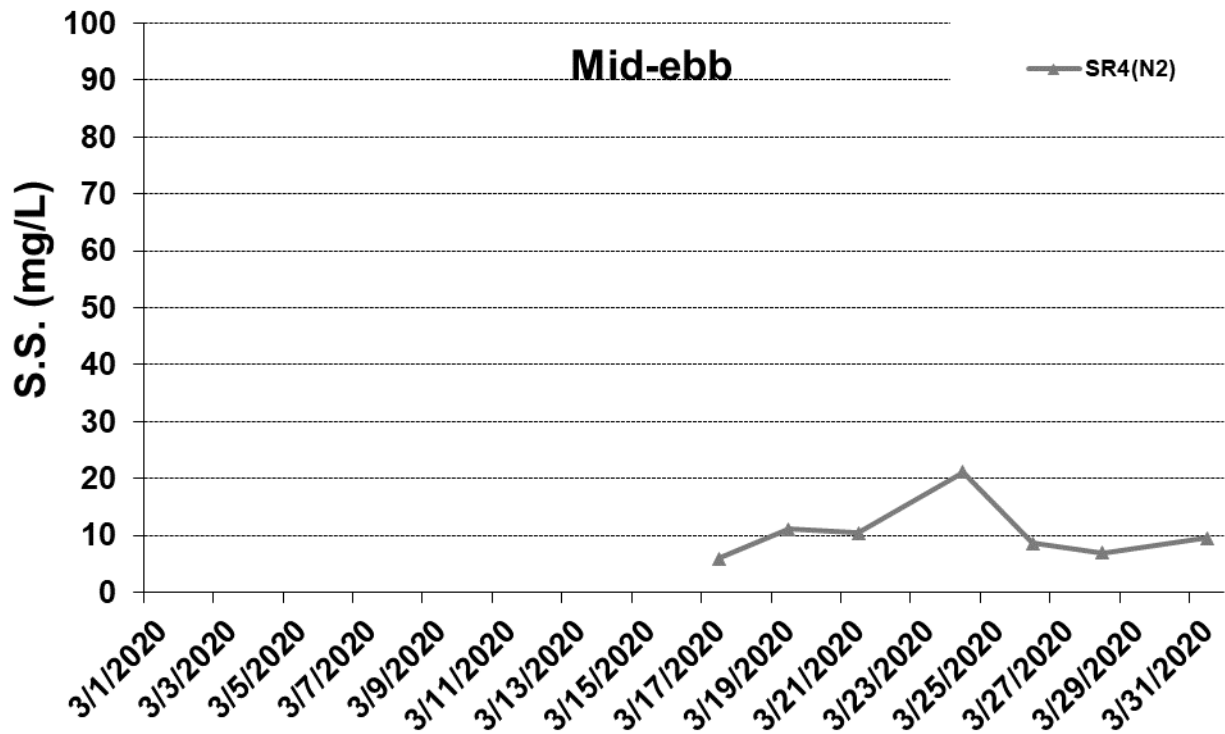


Figure J84 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



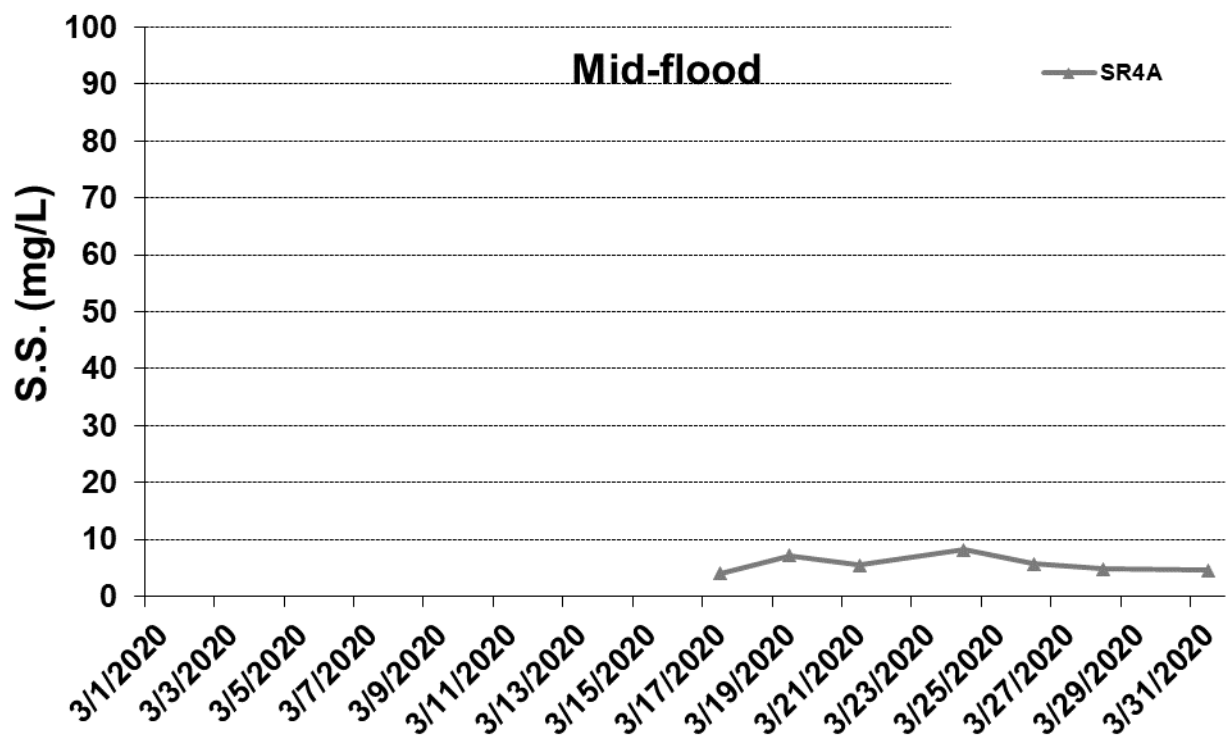
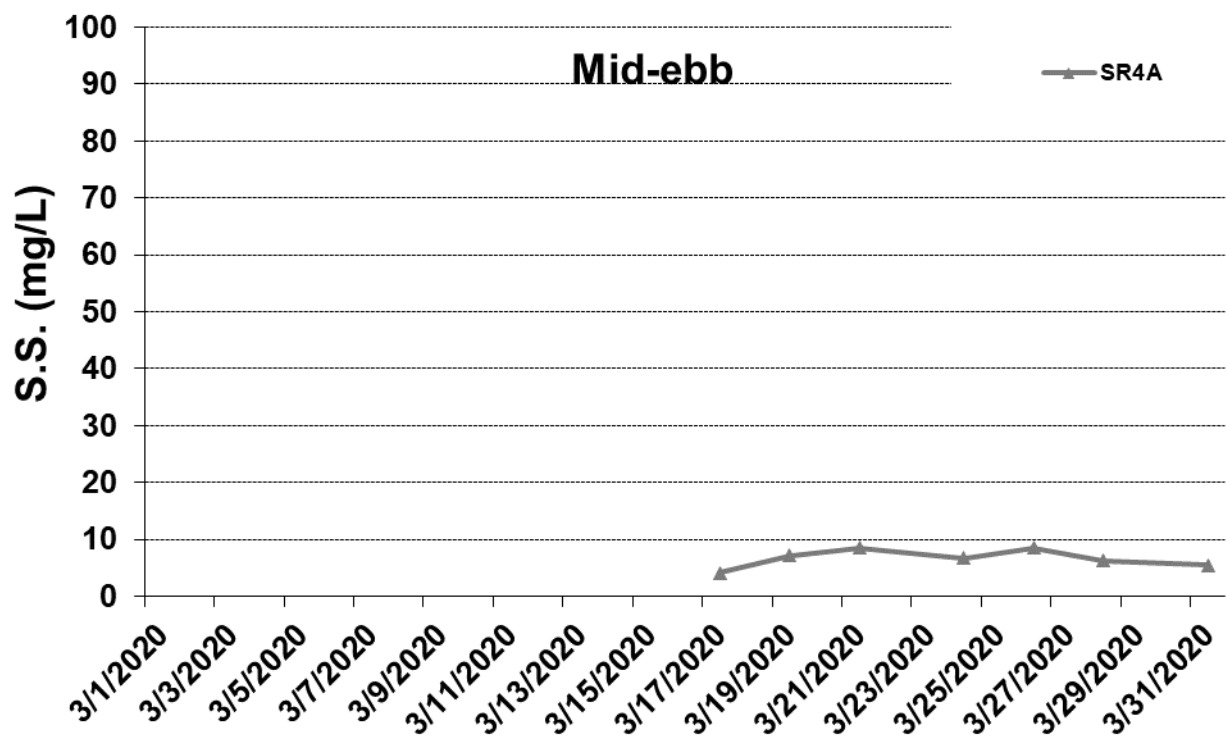


Figure J85 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR4A. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



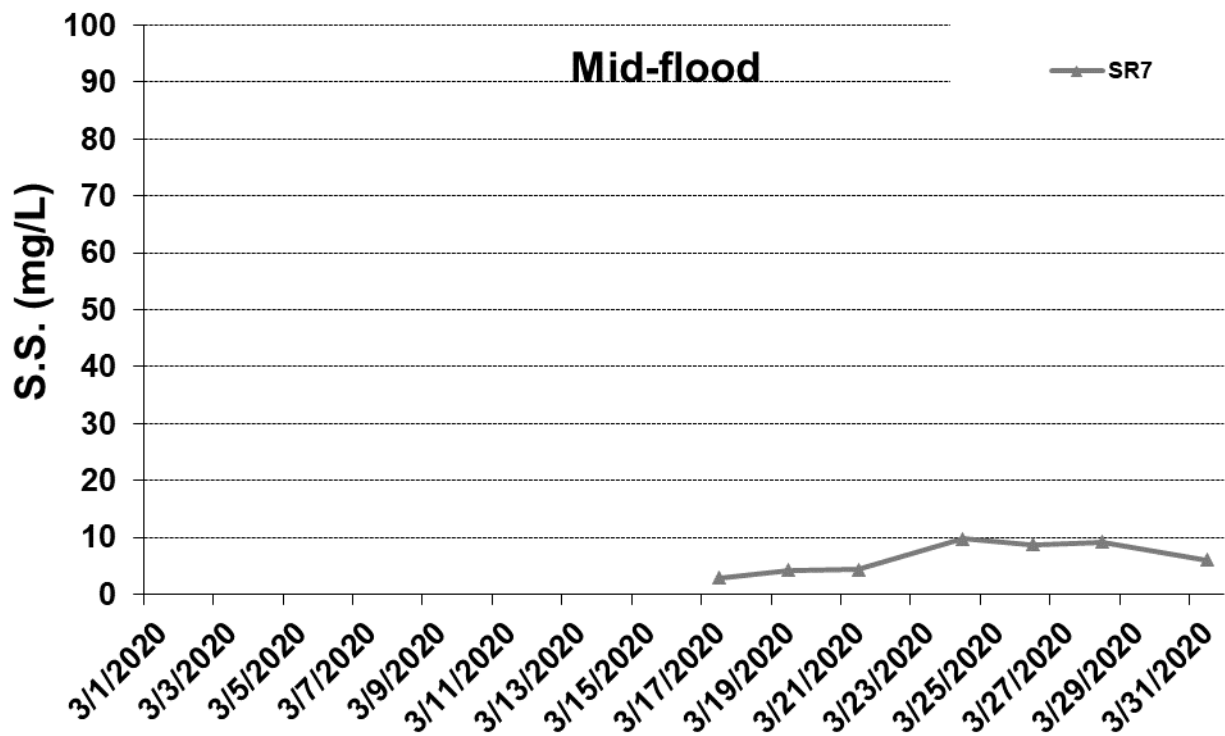
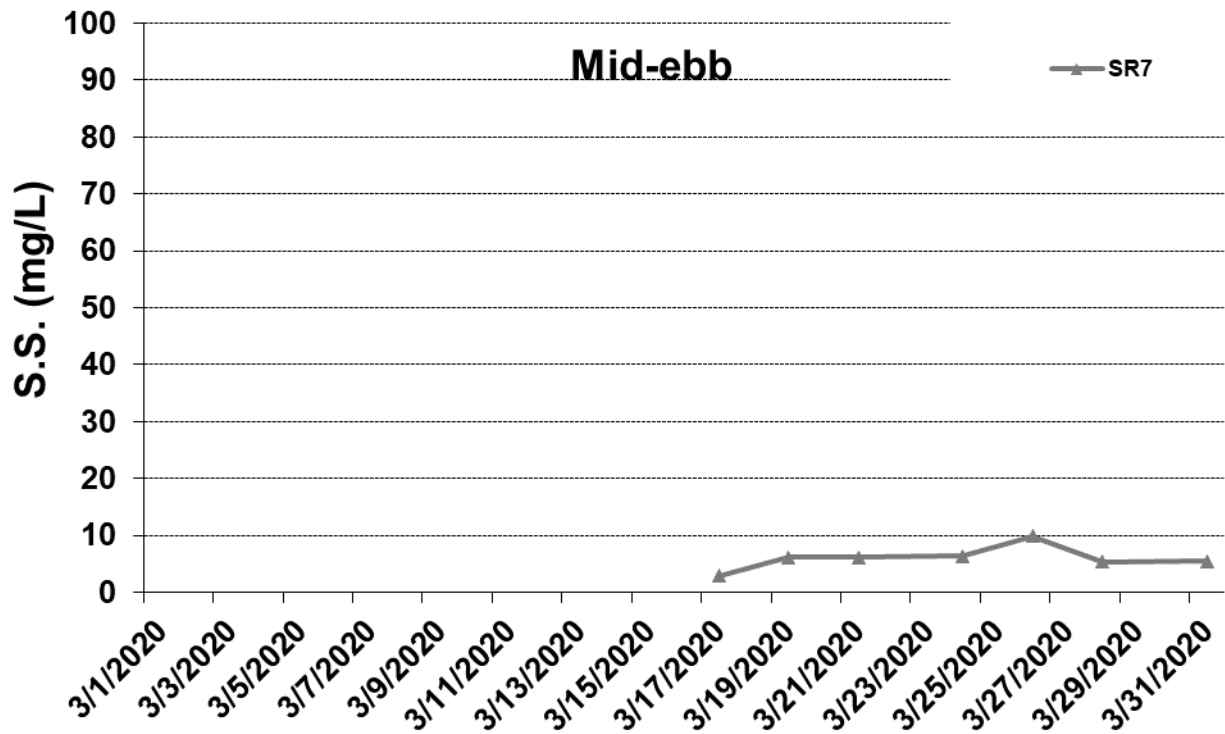


Figure J86 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR7. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



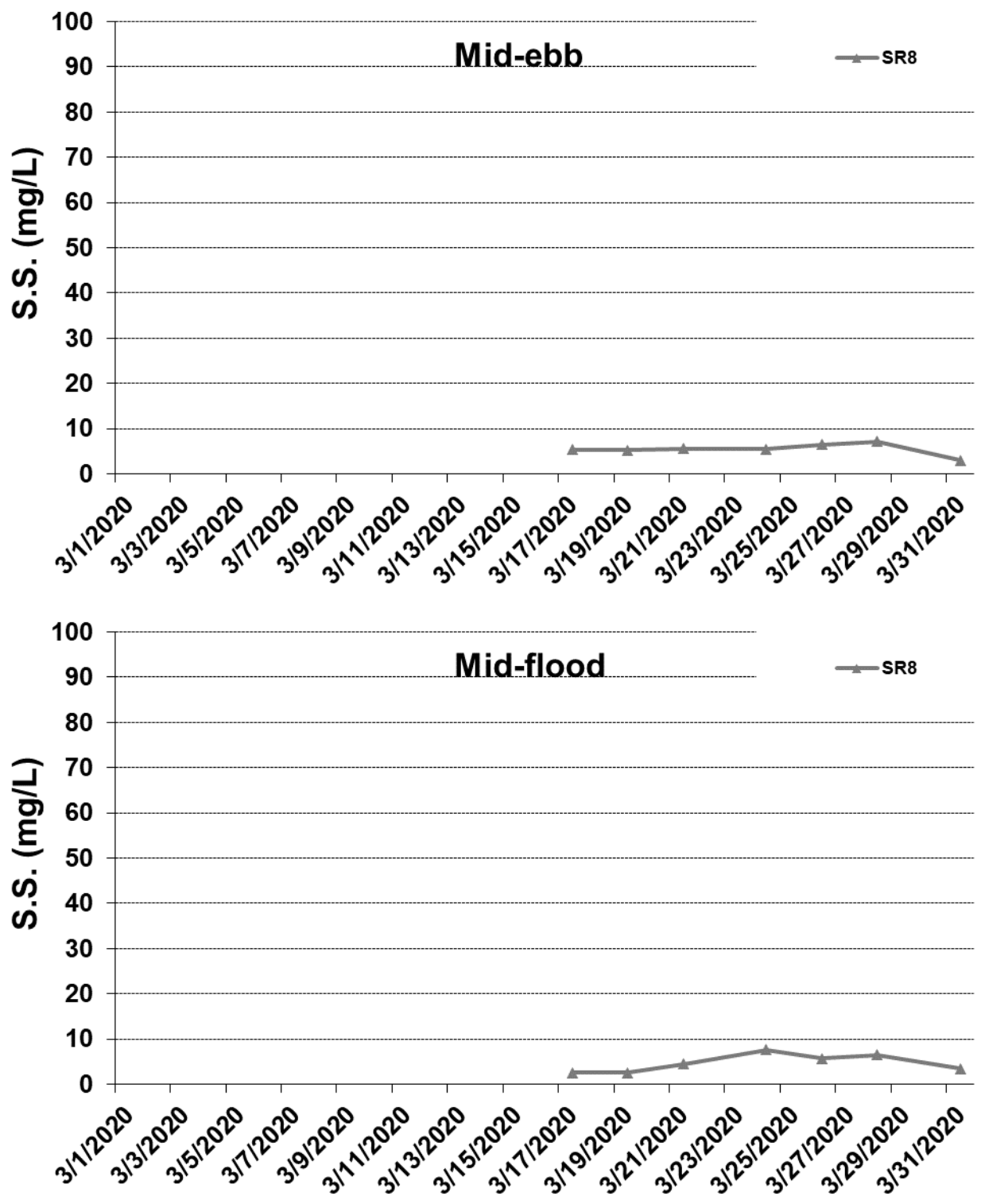


Figure J87 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR8. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



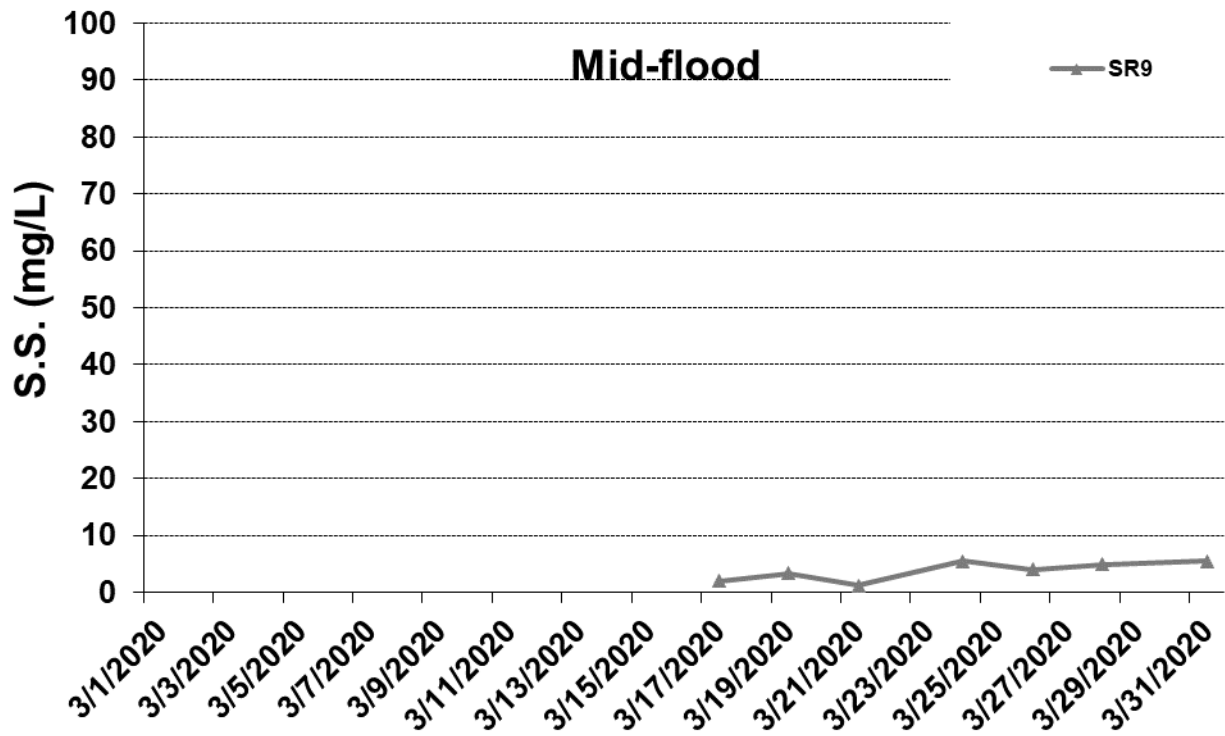
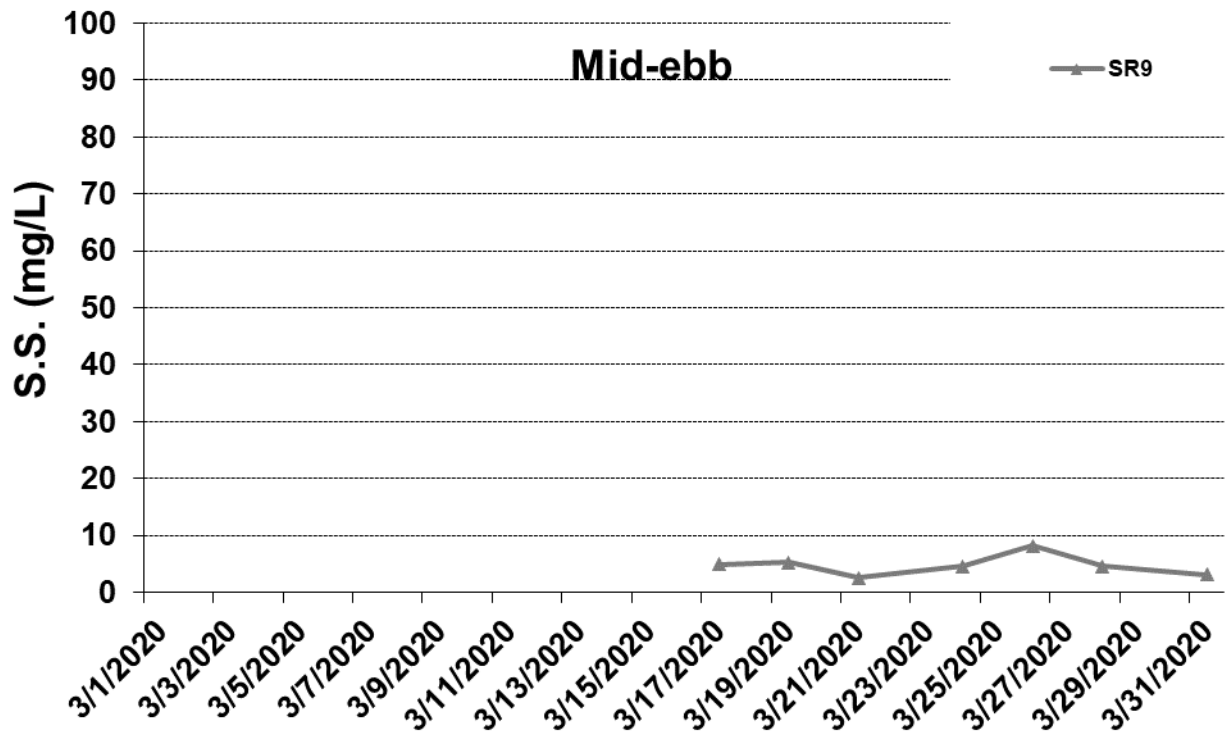


Figure J88 Post Construction Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 17 March 2020 and 31 March 2020 at SR9. The weather conditions during the monitoring period varied mostly from sunny to rainy. No marine works was carried out in the reporting period.



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
17-03-20	Mid-Ebb	CS4	Cloudy	Rough	18:26	18.0	Surface	1.0	1	20.8	7.9	29.3	8.4	111.9	1.9	3.1	8.0	2.0	3.7
									2	21.0	7.9	28.7	8.6	114.0	1.8	3.1			
							Middle	9.0	1	20.4	7.9	30.8	7.4	97.7	2.1	3.2			
									2	20.5	7.9	30.3	7.6	100.6	1.7	3.3			
							Bottom	17.0	1	20.3	7.9	31.2	7.3	97.0	2.2	4.6			
									2	20.3	7.9	31.3	7.2	95.7	2.4	4.6			
		CS6	Cloudy	Moderate	19:37	9.7	Surface	1.0	1	20.5	8.0	30.7	8.0	106.8	1.4	2.7	7.8	1.8	3.4
									2	20.5	8.0	30.8	8.0	106.4	1.3	2.8			
							Middle	4.9	1	20.3	8.0	31.2	7.6	100.8	2.0	3.2			
									2	20.3	8.0	31.1	7.6	100.5	1.6	3.0			
							Bottom	8.7	1	20.4	8.0	31.1	7.6	101.0	2.0	4.1			
									2	20.3	8.0	31.2	7.6	100.4	2.5	4.7			
		CS(Mf)3(N)	Cloudy	Rough	18:14	6.5	Surface	1.0	1	20.8	7.9	29.4	8.4	111.9	2.7	4.0	8.3	4.4	3.6
									2	20.8	7.9	29.5	8.4	111.5	3.2	4.0			
							Middle	3.3	1	20.6	7.9	30.1	8.3	110.5	4.5	3.6			
									2	20.5	7.8	30.4	8.2	109.4	5.5	3.7			
							Bottom	5.5	1	20.6	7.9	30.3	8.3	110.4	4.8	3.3			
									2	20.4	7.8	30.9	8.1	107.8	5.8	3.0			
		CS(Mf)5	Fine	Moderate	19:19	13.3	Surface	1.0	1	20.5	8.1	31.7	7.9	106.2	1.9	2.0	7.6	2.9	2.6
									2	20.5	8.1	31.6	8.0	106.4	1.8	2.5			
							Middle	6.7	1	20.3	8.1	32.5	7.2	95.8	2.7	2.7			
									2	20.3	8.1	32.4	7.2	95.9	2.7	2.5			
							Bottom	12.3	1	20.1	8.1	32.9	7.2	96.0	3.9	2.8			
									2	20.1	8.1	32.9	7.2	95.9	4.1	3.0			
		IS8(N)	Fine	Calm	18:19	4.2	Surface	1.0	1	20.8	8.2	30.9	8.0	106.6	6.7	6.0	8.0	7.3	6.0
									2	20.8	8.2	30.9	8.0	106.9	6.8	5.9			
							Bottom	3.2	1	20.8	8.2	30.9	7.9	105.9	7.9	6.2			
									2	20.8	8.2	30.9	7.9	106.0	7.8	6.0			
		IS12	Cloudy	Rough	18:49	14.2	Surface	1.0	1	20.5	8.0	30.4	7.9	104.5	1.3	3.4	7.8	1.7	2.6
									2	20.5	8.0	30.5	7.8	103.3	1.3	3.0			
							Middle	7.1	1	20.4	7.9	30.8	7.7	102.0	1.4	2.5			
									2	20.3	7.9	31.0	7.6	100.8	1.6	2.6			
							Bottom	13.2	1	20.1	7.9	31.7	7.2	95.5	2.5	2.2			
									2	20.2	8.0	31.6	7.2	95.7	2.2	2.0			
		IS13	Cloudy	Moderate	18:56	10.6	Surface	1.0	1	20.5	8.0	30.5	7.9	104.7	2.0	4.0	7.7	3.2	3.7
									2	20.5	8.0	30.6	7.8	103.0	2.1	3.9			
							Middle	5.3	1	20.3	8.0	31.1	7.4	98.8	3.5	3.9			
									2	20.4	8.0	31.0	7.7	101.8	3.0	3.6			
							Bottom	9.6	1	20.4	8.0	30.9	7.4	98.1	4.3	3.6			
									2	20.3	8.0	31.4	7.3	96.9	4.3	3.4			
		IS14	Cloudy	Rough	18:42	14.3	Surface	1.0	1	20.6	8.0	30.3	8.1	107.1	1.5	2.3	8.0	2.5	3.0
									2	20.6	8.0	30.3	8.0	106.4	1.4	2.6			
							Middle	7.2	1	20.4	7.9	30.9	7.9	104.6	2.9	3.0			
									2	20.5	7.9	30.7	7.9	104.3	2.6	3.0			
							Bottom	13.3	1	20.3	8.0	31.2	7.4	98.4	3.2	3.8			
									2	20.2	7.9	31.5	7.3	97.1	3.1	3.5			
		IS15	Cloudy	Moderate	19:03	10.1	Surface	1.0	1	20.4	8.0	30.8	7.3	97.4	2.9	5.9	7.3	3.2	5.0
									2	20.4	8.0	30.8	7.4	98.0	2.9	6.2			
							Middle	5.1	1	20.3	8.0	31.2	7.2	96.1	3.1	5.0			
									2	20.3	8.0	31.1	7.2	96.3	3.2	4.6			
							Bottom	9.1	1	20.2	8.0	31.5	7.2	95.4	3.4	4.4			
									2	20.2	8.0	31.5	7.1	95.0	3.4	4.0			
		IS17	Fine	Moderate	18:46	11.2	Surface	1.0	1	20.6	8.1	31.3	7.8	104.0	3.5	4.1	7.5	4.8	4.7
									2	20.6	8.1	31.3	7.8	104.1	3.4	4.3			
							Middle	5.6	1	20.4	8.1	32.0	7.2	96.2	4.9	4.9			
									2	20.4	8.1	32.0	7.2	96.3	4.8	4.9			
							Bottom	10.2	1	20.4	8.1	32.2	7.2	96.7	5.9	5.1			
									2	20.4	8.1	32.2	7.2	96.5	6.0	4.9			
		IS(Mf)9	Fine	Calm	18:15	3.3	Surface	1.0	1	21.0	8.1	31.0	8.4	113.0	4.4	7.0	8.4	4.5	7.7
									2	21.0	8.1	31.0	8.4	113.1	4.4	6.8			
							Bottom	2.3	1	21.0	8.1	31.0	8.2	110.6	4.5	8.8			
									2	21.0	8.1	31.0	8.3	110.8	4.5	8.2			
		IS(Mf)11	Fine	Moderate	18:52	12.6	Surface	1.0	1	20.6	8.1	31.3	7.8	104.6	2.3	2.8	7.7	2.9	3.3
									2	20.6	8.1	31.3	7.9	105.0	2.2	2.9			
							Middle	6.3	1	20.5	8.1	31.6	7.6	101.5	2.4	3.4			
									2	20.5	8.1	31.5	7.6	101.4	2.4	3.3			
							Bottom	11.6	1	20.4	8.1	32.1	7.4	99.1	3.9	3.7			
									2	20.4	8.1	32.1	7.4	98.6	4.0	3.6			
		IS(Mf)16	Fine	Calm	18:40	5.8	Surface	1.0	1	20.7	8.1	31.2	8.0	106.5	4.2	5.3	8.0	3.7	5.1
									2	20.7	8.1	31.1	8.0	106.8	4.4	5.3			
							Bottom	4.8	1	20.5	8.1	31.8	7.6	101.1	3.2	4.8			
									2	20.5	8.1	31.9	7.5	100.8	3.1	5.1			
		SR4(N2)	Fine	Calm	18:23	3.2	Surface	1.0	1	20.8	8.2	30.9	8.1	108.2	5.7	5.7	8.1	5.8	6.0
									2	20.8	8.2	30.9	8.1	108.6	5.7	5.9			
							Bottom	2.2	1	20.8	8.2	30.9	8.0	106.9	5.9	6.2			
									2	20.8	8.2	30.9	8.0	107.0	5.9	6.1			
		SR4A	Fine	Calm	18:27	4.8	Surface	1.0	1	20.7	8.1	31.1	7.7	102.5	3.6	3.8	7.7	3.7	4.2
									2	20.7	8.1	31.0	7.7	102.9	3.6	4.1			
							Bottom	3.8	1	20.6	8.1	31.3	7.6	101.5	3.8	4.3			
									2	20.6	8.1	31.3	7.6	101.5	3.8	4.5			

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
		SR7	Fine	Moderate	18:59	4.8	Surface	1.0	1	20.6	8.1	31.5	7.5	100.4	4.1	3.2	7.5	4.7	2.9					
									2	20.6	8.1	31.4	7.5	100.7	3.6	3.0								
							Bottom	3.8	1	20.5	8.1	31.6	7.5	100.3	5.3	2.6				7.5				
									2	20.5	8.1	31.6	7.5	100.2	5.6	2.8								
							Surface	1.0	1	20.5	8.0	30.6	7.5	99.6	8.0	4.9				7.5				
									2	20.6	8.0	30.5	7.5	100.1	7.0	4.9								
		Bottom	2.4	1	20.6	8.0	30.6	7.5	99.9	9.1	5.5	7.5												
				2	20.5	8.0	30.7	7.5	100.0	10.9	6.1													
		SR8	Cloudy	Moderate	19:26	3.4	Surface	1.0	1	20.5	8.0	30.6	7.7	102.3	3.1	5.1	7.6	3.6	4.9					
									2	20.4	8.0	30.7	7.4	97.9	3.7	5.5								
							Bottom	2.1	1	20.5	8.0	30.6	7.4	98.6	3.7	4.3	7.4							
									2	20.4	8.0	30.9	7.4	99.0	3.8	4.8								
							Surface	1.0	1	20.3	8.1	32.6	7.6	101.9	1.6	3.1	7.6							
									2	20.3	8.1	32.6	7.6	102.0	1.5	3.0								
		Middle	9.0	1	20.2	8.1	32.7	7.5	99.9	2.2	3.1	7.6												
				2	20.2	8.1	32.7	7.5	100.0	2.2	3.3													
		Bottom	17.0	1	20.2	8.1	32.8	7.4	98.9	3.4	3.5	7.4												
				2	20.2	8.1	32.8	7.4	98.8	2.9	3.9													
		SR9	Cloudy	Moderate	19:10	3.1	Surface	1.0	1	20.5	8.0	30.5	7.7	102.3	3.1	5.1	7.6	3.6	4.9					
									2	20.4	8.0	30.7	7.4	97.9	3.7	5.5								
Bottom	2.1						1	20.5	8.0	30.6	7.4	98.6	3.7	4.3	7.4									
							2	20.4	8.0	30.9	7.4	99.0	3.8	4.8										
Surface	1.0						1	20.3	8.1	32.6	7.6	101.9	1.6	3.1	7.6									
							2	20.3	8.1	32.6	7.6	102.0	1.5	3.0										
Middle	9.0	1	20.2	8.1	32.7	7.5	99.9	2.2	3.1	7.6														
		2	20.2	8.1	32.7	7.5	100.0	2.2	3.3															
Bottom	17.0	1	20.2	8.1	32.8	7.4	98.9	3.4	3.5	7.4														
		2	20.2	8.1	32.8	7.4	98.8	2.9	3.9															
SR10A(N)	Fine	Moderate	19:48	18.0	Surface	1.0	1	20.3	8.1	32.6	7.6	101.9	1.6	3.1	7.6	2.3	3.3							
							2	20.3	8.1	32.6	7.6	102.0	1.5	3.0										
					Middle	9.0	1	20.2	8.1	32.7	7.5	99.9	2.2	3.1	7.6									
							2	20.2	8.1	32.7	7.5	100.0	2.2	3.3										
					Bottom	17.0	1	20.2	8.1	32.8	7.4	98.9	3.4	3.5	7.4									
							2	20.2	8.1	32.8	7.4	98.8	2.9	3.9										
17-03-20	Mid-Flood	CS4	Cloudy	Rough	7:06	18.6	Surface	1.0	1	20.6	8.0	29.9	7.9	104.2	2.7	3.8	7.6	3.4	4.1					
									2	20.6	8.0	29.9	7.9	104.2	2.6	3.7								
							Middle	9.3	1	20.4	8.0	30.7	7.3	97.3	3.5	4.1				7.3				
									2	20.5	8.0	30.6	7.3	97.4	3.4	4.1								
							Bottom	17.6	1	20.4	8.0	30.8	7.3	97.1	3.9	4.6				7.3				
									2	20.4	8.0	31.0	7.3	96.9	4.5	4.4								
		CS6	Cloudy	Rough	5:44	9.2	Surface	1.0	1	20.5	7.9	30.4	7.6	100.3	2.0	6.7	7.5	2.9	5.4					
									2	20.5	7.9	30.3	7.6	101.4	1.8	6.6								
							Middle	4.6	1	20.4	7.9	30.8	7.4	98.5	3.1	4.8	7.4							
									2	20.5	7.9	30.5	7.5	99.6	2.8	5.2								
							Bottom	8.2	1	20.4	7.9	31.0	7.4	98.7	3.8	4.7	7.4							
									2	20.4	7.9	31.0	7.3	97.2	3.7	4.4								
		CS(Mf)3(N)	Cloudy	Rough	7:21	6.8	Surface	1.0	1	21.0	8.0	28.1	8.1	107.4	3.1	5.8	8.1	4.1	5.0					
									2	21.0	8.0	28.0	8.1	106.9	3.2	5.7								
							Middle	3.4	1	20.9	8.0	28.6	8.0	106.1	4.1	4.6	7.9							
									2	20.9	8.0	28.4	8.0	105.6	3.9	4.9								
							Bottom	5.8	1	20.8	8.0	29.2	8.0	105.3	4.7	4.5	7.9							
									2	20.7	8.0	29.5	7.8	103.6	5.6	4.6								
		CS(Mf)5	Fine	Moderate	5:55	13.0	Surface	1.0	1	20.4	8.1	31.7	7.4	98.7	2.4	2.4	7.4	2.7	2.8					
									2	20.4	8.1	31.6	7.4	99.0	2.5	2.5								
Middle	6.5						1	20.3	8.1	32.4	7.3	97.6	2.4	2.6	7.3									
							2	20.3	8.1	32.4	7.3	97.6	2.4	2.7										
Bottom	12.0						1	20.3	8.1	32.4	7.3	97.5	3.4	3.2	7.3									
							2	20.3	8.1	32.4	7.3	97.4	3.3	3.3										
IS8(N)	Fine	Calm	6:57	4.0	Surface	1.0	1	20.7	8.2	30.8	7.8	104.3	3.8	6.2	7.8	3.8	6.5							
							2	20.7	8.2	30.8	7.8	104.4	3.8	6.5										
					Bottom	3.0	1	20.7	8.2	30.8	7.8	104.1	3.7	6.9	7.8									
							2	20.7	8.2	30.8	7.8	104.1	3.7	6.5										
					IS12	Cloudy	Moderate	6:40	14.3	Surface	1.0	1	20.5	7.9	30.4			7.5	99.8	2.5	3.9	7.5	2.7	3.5
												2	20.5	7.9	30.4			7.6	100.5	2.4	4.3			
Middle	7.2	1	20.5	7.9						30.6	7.3	97.6	2.4	3.3	7.2									
		2	20.5	7.9						30.4	7.5	99.7	2.5	3.4										
Bottom	13.3	1	20.3	7.9						31.2	7.2	95.7	3.4	3.2	7.2									
		2	20.4	7.9						31.0	7.2	96.1	3.2	3.1										
IS13	Cloudy	Moderate	6:34	10.6	Surface	1.0	1	20.5	7.9	30.3	7.6	101.4	2.1	3.0	7.6	2.9	4.2							
							2	20.5	7.9	30.3	7.7	101.5	2.3	3.3										
					Middle	5.3	1	20.5	7.9	30.4	7.6	101.1	3.2	3.4	7.6									
							2	20.5	7.9	30.4	7.6	101.1	3.0	3.9										
					Bottom	9.6	1	20.5	7.9	30.4	7.6	101.2	3.4	5.7	7.6									
							2	20.5	7.9	30.4	7.6	101.2	3.4	6.0										
IS14	Cloudy	Rough	6:48	14.8	Surface	1.0	1	20.6	8.0	30.3	7.6	100.6	2.5	4.4	7.5	3.2	3.9							
							2	20.6	7.9	30.3	7.6	100.8	2.6	4.2										
					Middle	7.4	1	20.5	7.9	30.5	7.4	98.3	2.8	3.9	7.2									
							2	20.5	7.9	30.5	7.4	97.9	2.8	3.9										
					Bottom	13.8	1	20.4	7.9	30.9	7.2	95.7	4.3	3.6	7.2									
							2	20.3	7.9	31.1	7.2	96.0	4.4	3.5										
IS15	Cloudy	Moderate	6:26	10.1	Surface	1.0	1	20.5	7.9	30.2	7.7	101.9	1.9	2.7	7.7	3.0	4.4							
							2	20.5	7.9	30.2	7.7	102.1	1.8	3.0										
					Middle	5.1	1	20.5	7.9	30.3	7.7	101.7	3.2	4.0	7.7									
							2	20.5	7.9	30.4	7.6	101.1	3.0	4.0										
					Bottom	9.1	1	20.5	7.9	30.3	7.7	102.1	4.2	6.0	7.7									
							2	20.6	7.9	30.4	7.6	101.0	3.9	6.6										
IS17	Fine	Moderate	6:29	11.0	Surface	1.0	1	20.6	8.1	30.9	7.8	103.8	2.8	2.8	7.7	3.6	3.3							
							2	20.6	8.1	30.9	7.8	104.0	2.8	2.9										
					Middle	5.5	1	20.6	8.1	31.2	7.6	101.8	2.5	3.1	7.6									
							2	20.6	8.1	31.2	7.6	101.9	2.6	3.2										
					Bottom	10.0	1	20.5	8.1	31.6	7.6	101.0	5.5	3.7	7.6									
							2	20.5	8.1	31.6	7.5	100.7	5.5	4.1										
IS(Mf)9	Fine	Calm	7:04	3.0	Surface	1.0	1	20.8	8.2	30.8	8.0	106.4	4.2	7.3	8.0	4.3	6.7							
							2	20.8	8.2	30.8	8.0	106.4	4.2	7.9										
					Bottom	2.0	1	20.7	8.2	30.8	7.9	105.3	4.3	5.9	7.9									
							2	20.7	8.2	30.8	7.9	105.5	4.3	5.7										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
		IS(M)11	Fine	Moderate	6:22	12.4	Surface	1.0	1	20.7	8.1	30.9	7.8	104.1	3.0	4.8	7.7	3.8	3.5	
								2	2	20.7	8.1	30.9	7.8	104.2	3.0	4.2				
								6.2	1	20.7	8.1	31.3	7.6	102.0	3.8	3.5				
									2	20.7	8.1	31.3	7.6	101.9	3.8	3.2				
								11.4	1	20.6	8.1	31.5	7.5	100.0	4.6	2.6				
									2	20.6	8.1	31.5	7.5	100.0	4.5	2.7				
		IS(M)16	Fine	Calm	6:36	5.7	Surface	1.0	1	20.6	8.1	30.9	7.9	104.8	3.6	5.0	7.9	5.5	4.5	
								2	2	20.6	8.1	30.9	7.9	104.9	3.5	4.7				
								4.7	1	20.6	8.1	30.9	7.8	104.1	7.7	4.3				
									2	20.6	8.1	30.9	7.8	104.2	7.3	3.9				
								Surface	1.0	1	20.6	8.1	30.9	7.8	103.9	3.1				3.4
									2	20.6	8.1	30.9	7.8	103.9	3.0	3.6				
		SR4(N2)	Fine	Calm	6:52	3.1	Bottom	2.1	1	20.6	8.1	30.9	7.8	103.5	3.3	5.1	7.8	3.2	4.3	
								2	2	20.6	8.1	30.9	7.8	103.6	3.3	5.1				
								Surface	1.0	1	20.6	8.0	31.0	7.6	101.3	3.9				3.3
									2	20.6	8.1	31.0	7.6	101.5	3.7	3.4				
								3.3	1	20.7	8.0	31.1	7.6	101.7	4.2	4.4				
									2	20.7	8.0	31.1	7.6	101.6	4.1	4.8				
		SR4A	Fine	Calm	6:44	4.3	Surface	1.0	1	20.6	8.1	31.0	7.6	101.9	2.9	3.3	7.6	4.0	4.0	
								2	2	20.6	8.1	31.0	7.6	101.9	2.9	3.5				
								Bottom	3.3	1	20.7	8.0	31.1	7.6	101.7	4.2				4.4
									2	20.7	8.0	31.1	7.6	101.6	4.1	4.8				
								Surface	1.0	1	20.6	8.1	31.0	7.6	101.9	2.9				3.3
									2	20.6	8.1	31.0	7.6	101.9	2.9	3.8				
SR7	Fine	Calm	6:15	4.5	Bottom	3.5	1	20.5	8.1	31.0	7.6	101.9	2.9	3.8	7.6	2.9	3.7			
						2	2	20.5	8.1	31.0	7.6	101.9	2.9	4.2						
						Surface	1.0	1	20.5	7.9	30.2	7.6	100.9	2.5				4.5		
							2	20.5	7.9	30.1	7.6	101.0	2.6	4.6						
						2.6	1	20.5	7.9	30.2	7.6	100.8	2.8	4.1						
							2	20.5	7.9	30.2	7.6	100.9	2.5	4.1						
SR8	Cloudy	Moderate	6:01	3.6	Surface	1.0	1	20.5	7.9	30.2	7.6	100.9	2.5	4.5	7.6	2.6	4.3			
						2	2	20.5	7.9	30.1	7.6	101.0	2.6	4.6						
						Bottom	2.6	1	20.5	7.9	30.2	7.6	100.8	2.8				4.1		
							2	20.5	7.9	30.2	7.6	100.9	2.5	4.1						
						Surface	1.0	1	20.6	7.9	30.4	7.8	103.0	1.9				3.0		
							2	20.6	7.9	30.4	7.7	102.7	2.0	2.9						
SR9	Cloudy	Moderate	6:17	3.2	Bottom	2.2	1	20.6	7.9	30.4	7.7	102.8	2.0	4.4	7.8	2.0	3.7			
						2	2	20.6	7.9	30.4	7.7	102.7	2.0	4.3						
						Surface	1.0	1	20.3	8.0	32.4	7.2	95.7	2.5				4.4		
							2	20.3	8.0	32.5	7.1	95.7	2.6	4.0						
						8.7	1	20.2	7.9	32.8	7.1	95.5	2.6	3.4						
							2	20.2	7.9	32.8	7.1	95.5	2.7	3.2						
SR10A(N)	Fine	Calm	5:19	17.3	Bottom	16.3	1	20.1	7.9	33.0	7.1	95.1	2.9	2.5	7.1	2.7	3.4			
						2	2	20.1	7.9	33.0	7.1	95.1	2.9	2.7						

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
19-03-20	Mid-Ebb	CS4	Cloudy	Moderate	10:45	18.2	Surface	1.0	1	20.8	8.0	27.0	7.6	99.0	4.6	5.3	7.4	3.2	6.5			
									2	20.8	8.0	27.0	7.6	99.1	4.6	5.2						
							Middle	9.1	1	20.4	8.0	30.7	7.2	94.9	2.0	6.5						
									2	20.4	8.0	30.7	7.2	94.9	2.0	6.2						
							Bottom	17.2	1	20.3	8.0	31.1	7.1	94.4	2.9	7.5						
									2	20.3	8.0	31.2	7.1	94.1	3.0	8.0						
		CS6	Cloudy	Moderate	9:28	9.8	Surface	1.0	1	20.5	7.9	30.4	7.4	97.8	2.3	6.0	7.3	2.6	6.3			
									2	20.5	7.9	30.4	7.4	97.9	2.3	6.0						
							Middle	4.9	1	20.2	7.9	31.1	7.2	94.9	2.2	6.1						
									2	20.2	7.9	31.0	7.2	95.0	2.2	6.4						
							Bottom	8.8	1	20.1	7.9	31.7	7.0	93.5	3.3	6.8						
									2	20.1	7.9	31.7	7.0	93.5	3.2	6.6						
		CS(Mf)3(N)	Cloudy	Moderate	10:57	7.2	Surface	1.0	1	20.6	8.1	27.0	7.7	100.5	4.8	4.6	7.7	9.9	5.5			
									2	20.6	8.1	27.0	7.7	100.6	4.5	5.1						
							Middle	3.6	1	20.4	8.1	29.9	7.6	100.5	7.4	5.8						
									2	20.5	8.1	29.8	7.6	100.4	6.9	5.7						
							Bottom	6.2	1	20.4	8.1	30.1	7.6	100.4	16.1	6.1						
									2	20.4	8.1	30.1	7.6	100.4	19.9	5.4						
		CS(Mf)5	Fine	Moderate	10:08	13.6	Surface	1.0	1	20.5	8.1	31.5	7.2	95.8	2.8	4.6	7.1	3.6	5.2			
									2	20.5	8.1	31.4	7.2	96.3	2.8	4.9						
							Middle	6.8	1	20.2	8.1	32.6	7.0	93.6	3.9	5.4						
									2	20.2	8.1	32.6	7.0	93.6	4.0	5.2						
							Bottom	12.6	1	20.2	8.1	32.6	7.1	95.1	3.9	5.4						
									2	20.2	8.1	32.6	7.1	95.0	3.9	5.6						
		IS8(N)	Fine	Calm	11:13	4.1	Surface	1.0	1	20.6	8.2	30.9	7.4	98.5	16.4	19.6	7.4	16.4	20.8			
									2	20.6	8.2	30.9	7.4	98.5	16.4	19.9						
							Bottom	3.1	1	20.6	8.2	30.9	7.4	98.7	16.3	21.5						
									2	20.6	8.2	30.9	7.4	98.6	16.3	22.0						
							Surface	1.0	1	20.5	7.9	30.4	7.2	95.5	2.1	6.6				7.1	2.3	6.0
									2	20.5	7.9	30.4	7.2	95.5	2.1	6.9						
		Middle	7.4	1	20.3	8.0	31.0	7.0	93.5	2.4	5.8											
				2	20.3	8.0	31.0	7.1	93.6	2.4	6.2											
		Bottom	13.8	1	20.1	8.0	31.5	7.0	92.8	2.5	5.3											
				2	20.1	8.0	31.5	7.0	92.8	2.4	5.0											
		IS13	Cloudy	Moderate	10:14	10.8	Surface	1.0	1	20.4	7.9	30.6	7.2	95.5	2.4	5.1	7.1	3.2	5.6			
									2	20.4	7.9	30.6	7.2	95.5	2.4	5.2						
							Middle	5.4	1	20.2	7.9	31.3	7.0	93.3	3.1	5.5						
									2	20.2	7.9	31.2	7.0	93.3	3.0	5.6						
							Bottom	9.8	1	20.2	7.9	31.5	7.0	93.3	4.3	6.1						
									2	20.2	7.9	31.5	7.0	93.3	4.1	6.0						
		IS14	Cloudy	Moderate	10:29	14.7	Surface	1.0	1	20.6	8.0	27.9	7.3	95.7	3.0	6.3	7.2	3.6	5.5			
									2	20.6	8.0	27.9	7.3	95.8	3.0	6.2						
							Middle	7.4	1	20.3	8.0	31.0	7.0	93.1	3.2	5.9						
									2	20.3	8.0	30.9	7.0	93.2	3.2	5.6						
							Bottom	13.7	1	20.2	8.0	31.4	7.0	92.6	4.6	4.4						
									2	20.2	8.0	31.4	7.0	92.6	4.5	4.8						
		IS15	Cloudy	Moderate	10:09	10.2	Surface	1.0	1	20.5	7.9	30.3	7.3	97.5	2.0	4.5	7.3	2.3	5.5			
									2	20.5	7.9	30.3	7.4	97.6	1.9	4.2						
							Middle	5.1	1	20.4	7.9	30.6	7.2	95.9	2.5	5.5						
									2	20.4	7.9	30.5	7.2	95.9	2.5	5.7						
							Bottom	9.2	1	20.5	7.9	30.6	7.3	97.5	2.5	6.4						
									2	20.5	7.9	30.6	7.3	97.2	2.5	6.7						
		IS17	Fine	Moderate	10:45	11.0	Surface	1.0	1	20.5	8.1	31.4	7.1	95.4	4.2	7.9	7.1	4.4	8.4			
									2	20.5	8.1	31.4	7.2	95.4	4.4	7.6						
Middle	5.5						1	20.4	8.1	31.6	7.1	94.9	3.5	8.0								
							2	20.4	8.1	31.6	7.1	95.0	3.4	8.5								
Bottom	10.0						1	20.4	8.1	32.0	7.2	95.8	5.6	9.1								
							2	20.4	8.1	32.0	7.1	95.4	5.5	9.2								
IS(Mf)9	Fine	Calm	11:20	3.2	Surface	1.0	1	20.6	8.1	31.1	7.3	97.1	4.9	6.3	7.3	5.1	6.2					
							2	20.6	8.1	31.0	7.3	97.1	4.7	5.9								
					Bottom	2.2	1	20.6	8.1	31.1	7.3	97.4	5.4	6.3								
							2	20.6	8.1	31.1	7.3	97.2	5.4	6.1								
					Surface	1.0	1	20.6	8.1	31.0	7.3	97.4	4.2	6.6				7.3	5.4	5.9		
							2	20.6	8.1	30.9	7.3	97.9	4.0	6.7								
Middle	6.0	1	20.5	8.1	31.2	7.2	95.7	4.8	6.2													
		2	20.5	8.1	31.2	7.2	95.7	4.8	5.8													
Bottom	11.0	1	20.5	8.1	31.5	7.1	95.3	7.3	5.3													
		2	20.5	8.1	31.5	7.1	95.2	7.3	5.0													
IS(Mf)16	Fine	Calm	10:51	5.8	Surface	1.0	1	20.5	8.1	31.2	7.3	97.1	4.5	7.4	7.3	3.7	7.6					
							2	20.5	8.1	31.1	7.3	97.4	4.9	7.1								
					Bottom	4.8	1	20.4	8.1	31.6	7.2	96.4	2.7	7.6								
							2	20.4	8.1	31.6	7.2	96.3	2.7	8.1								
					Surface	1.0	1	20.6	8.1	30.8	7.4	98.5	12.8	11.6				7.4	14.0	11.1		
							2	20.6	8.1	30.8	7.4	98.5	12.8	11.3								
Bottom	2.0	1	20.6	8.1	30.8	7.4	98.5	15.4	10.4													
		2	20.6	8.1	30.8	7.4	98.4	15.1	10.9													
Surface	1.0	1	20.6	8.1	30.8	7.3	97.0	3.6	6.2	7.3	4.2	7.2										
		2	20.6	8.1	30.7	7.3	97.5	3.3	6.1													
Bottom	4.0	1	20.5	8.1	31.0	7.2	95.9	4.8	8.0													
		2	20.5	8.1	31.0	7.2	95.5	4.9	8.4													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
	Mid-Flood	SR7	Fine	Calm	10:32	4.8	Surface	1.0	1	20.6	8.1	31.0	7.3	98.0	3.4	6.7	7.4	3.4	6.2								
									2	20.6	8.1	31.0	7.4	98.1	3.4	6.4											
							Bottom	3.8	1	20.5	8.1	31.1	7.4	98.2	3.4	6.0				7.4							
									2	20.5	8.1	31.1	7.4	98.1	3.4	5.7											
							SR8	Cloudy	Moderate	9:43	3.5	Surface	1.0	1	20.5	7.9				30.5	7.2	95.4	5.8	6.6	7.2	6.1	5.3
														2	20.5	7.9				30.5	7.2	95.5	5.6	6.1			
		Bottom	2.5	1	20.5	7.9						30.5	7.2	95.4	6.7	4.3	7.2										
				2	20.5	7.9						30.5	7.2	95.4	6.4	4.2											
		SR9	Cloudy	Moderate	10:01	3.1	Surface	1.0	1	20.6	7.9	30.1	7.4	98.2	1.6	6.1	7.4	3.0	5.2								
									2	20.6	7.9	30.1	7.4	98.3	1.6	5.8											
							Bottom	2.1	1	20.4	7.9	30.2	7.5	99.7	4.3	4.6				7.5							
									2	20.6	7.9	30.1	7.4	98.2	4.6	4.3											
		SR10A(N)	Fine	Moderate	9:32	17.7	Surface	1.0	1	20.1	8.0	32.9	7.0	93.0	2.5	3.6	7.0	3.1	5.4								
									2	20.1	8.0	32.9	7.0	93.0	2.5	3.5											
							Middle	8.9	1	20.0	8.0	33.2	6.9	92.5	2.7	5.6				6.9							
									2	20.0	8.0	33.2	6.9	92.5	2.7	5.3											
							Bottom	16.7	1	20.0	8.0	33.2	6.9	92.4	4.0	7.3				6.9							
									2	20.0	8.0	33.2	6.9	92.3	4.1	7.1											
		19-03-20	Mid-Flood	CS4	Rainy	Moderate	13:59	18.4	Surface	1.0	1	20.5	7.9	29.7	7.2	94.7	3.8	3.6	7.1	4.2	4.6						
											2	20.5	7.9	29.6	7.2	95.0	3.6	3.7									
									Middle	9.2	1	20.4	7.9	30.7	7.0	92.7	4.5	4.7				6.9					
									2	20.4	7.9	30.6	7.0	92.8	4.7	4.4											
Bottom	17.4								1	20.2	7.8	31.3	6.9	91.7	4.3	5.5	6.9										
									2	20.2	7.8	31.3	6.9	91.5	4.4	5.7											
CS6	Rainy			Moderate	15:34	9.4	Surface	1.0	1	20.5	8.0	30.1	7.3	96.9	2.4	2.5	7.2	2.8	3.2								
									2	20.5	8.0	30.1	7.3	96.9	2.4	2.4											
							Middle	4.7	1	20.3	8.0	31.0	7.0	93.3	2.1	3.1				6.8							
									2	20.3	8.0	30.9	7.0	93.5	2.0	3.1											
							Bottom	8.4	1	20.2	8.0	31.4	6.8	90.4	3.9	4.2				6.8							
									2	20.2	8.0	31.5	6.8	90.5	3.9	4.0											
CS(Mf)3(N)	Rainy			Moderate	13:43	7.1	Surface	1.0	1	20.8	7.8	26.0	7.7	99.8	2.7	3.8	7.6	6.0	3.0								
									2	20.8	7.8	26.0	7.7	99.9	2.6	4.0											
							Middle	3.6	1	20.5	7.8	29.2	7.5	99.0	6.6	3.2				7.5							
									2	20.5	7.8	29.2	7.5	99.0	6.1	2.6											
							Bottom	6.1	1	20.5	7.8	29.7	7.5	98.7	9.2	2.3				7.5							
									2	20.5	7.8	29.7	7.5	98.8	9.0	2.2											
CS(Mf)5	Rainy			Moderate	15:03	12.8	Surface	1.0	1	20.6	8.1	30.9	7.3	97.6	2.3	2.7	7.3	2.6	3.6								
									2	20.6	8.1	30.8	7.4	97.9	2.4	2.6											
							Middle	6.4	1	20.5	8.1	31.5	7.2	96.5	2.0	3.9				7.1							
									2	20.5	8.1	31.6	7.2	96.5	2.0	3.7											
							Bottom	11.8	1	20.3	8.1	32.4	7.1	94.3	3.4	4.2				7.1							
									2	20.2	8.1	32.5	7.0	94.2	3.4	4.4											
IS8(N)	Rainy			Calm	13:45	3.7	Surface	1.0	1	20.6	8.1	30.9	7.2	96.0	9.7	6.2	7.2	10.0	6.8								
									2	20.6	8.1	30.9	7.2	95.9	9.6	6.4											
							Bottom	2.7	1	20.6	8.1	31.0	7.3	96.9	10.3	7.3				7.3							
									2	20.6	8.1	31.0	7.2	96.6	10.4	7.3											
							IS12	Rainy	Moderate	14:27	14.2	Surface	1.0	1	20.5	8.0				30.1	7.2	95.7	1.8	3.7	7.1	2.4	5.3
														2	20.5	8.0				30.1	7.2	95.8	1.8	4.0			
Middle	7.1			1	20.2	8.0						31.1	7.0	92.4	2.0	4.7	6.9										
				2	20.3	8.0						31.0	7.0	92.9	1.7	5.0											
Bottom	13.2			1	20.1	8.0						31.7	6.9	91.0	3.4	7.4	6.9										
				2	20.1	8.0						31.7	6.9	91.0	3.4	7.0											
IS13	Rainy			Moderate	14:39	10.7	Surface	1.0	1	20.5	8.0	30.6	7.2	95.5	2.0	4.7	7.2	3.6	4.4								
									2	20.5	8.0	30.5	7.2	95.6	2.0	5.0											
		Middle	5.4				1	20.4	8.0	30.8	7.1	93.7	3.2	4.5	6.8												
							2	20.4	8.0	30.8	7.1	93.8	3.0	4.8													
		Bottom	9.7				1	20.2	8.0	31.5	6.8	90.7	5.7	3.6	6.8												
							2	20.2	8.0	31.5	6.8	90.8	5.5	4.0													
IS14	Rainy	Moderate	14:18	14.6	Surface	1.0	1	20.4	7.9	30.5	7.1	94.0	2.2	4.7	7.0	4.1	5.0										
							2	20.4	7.9	30.4	7.1	94.2	2.2	4.9													
					Middle	7.3	1	20.2	7.9	31.2	6.9	91.9	4.1	5.1				6.9									
							2	20.3	7.9	31.1	6.9	92.0	3.9	5.0													
					Bottom	13.6	1	20.2	7.9	31.4	6.9	91.5	6.2	5.0				6.9									
							2	20.2	7.9	31.4	6.9	91.5	6.2	5.2													
IS15	Rainy	Moderate	14:46	10.4	Surface	1.0	1	20.5	8.0	30.3	7.2	95.3	2.0	3.9	7.1	3.7	4.5										
							2	20.5	8.0	30.3	7.2	95.5	2.0	4.1													
					Middle	5.2	1	20.2	8.0	31.3	7.0	92.5	5.5	4.1				7.0									
							2	20.2	8.0	31.3	7.0	92.5	5.2	4.5													
					Bottom	9.4	1	20.2	8.0	31.4	7.0	92.6	3.8	5.4				7.0									
							2	20.2	8.0	31.4	7.0	92.6	3.8	5.2													
IS17	Rainy	Moderate	14:10	10.8	Surface	1.0	1	20.6	8.1	30.6	7.3	97.0	3.4	6.8	7.2	4.4	5.8										
							2	20.7	8.1	30.3	7.3	97.4	3.4	6.4													
					Middle	5.4	1	20.5	8.1	31.4	7.1	94.8	3.7	5.9				7.1									
							2	20.5	8.1	31.4	7.1	95.2	3.3	5.5													
					Bottom	9.8	1	20.4	8.1	31.8	7.1	94.3	6.4	4.9				7.1									
							2	20.4	8.1	31.7	7.1	94.2	6.3	5.2													
IS(Mf)9	Rainy	Calm	13:41	3.1	Surface	1.0	1	20.6	8.1	31.1	7.1	95.2	9.0	6.3	7.1	9.3	6.9										
							2	20.6	8.1	31.1	7.1	95.2	7.5	6.0													
					Bottom	2.1	1	20.7	8.1	31.1	7.1	95.5	10.5	7.8				7.1									
							2	20.6	8.1	31.1	7.1	95.4	10.1	7.5													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
		IS(M)11	Rainy	Moderate	14:17	11.7	Surface	1.0	1	20.9	8.1	28.0	7.6	99.6	3.4	4.7	7.4	5.0	5.4
								2	2	21.0	8.1	27.7	7.6	100.1	3.2	4.9			
								5.9	1	20.6	8.1	30.6	7.2	95.2	5.0	5.6			
									2	20.6	8.1	30.3	7.2	95.6	4.7	5.9			
								10.7	1	20.4	8.1	31.7	7.1	94.4	6.8	5.7			
									2	20.4	8.1	31.7	7.1	94.3	6.7	5.8			
		IS(M)16	Rainy	Calm	14:03	5.2	Surface	1.0	1	20.6	8.1	31.1	7.3	97.5	4.5	6.8	7.3	5.0	6.2
								2	2	20.6	8.1	31.1	7.3	97.6	4.3	6.6			
								4.2	1	20.6	8.1	31.2	7.4	98.5	5.5	5.6			
									2	20.6	8.1	31.2	7.3	98.1	5.7	5.9			
								1.0	1	20.7	8.1	30.8	7.3	97.2	18.0	6.6			
									2	20.7	8.1	30.8	7.3	97.1	17.0	7.0			
		SR4(N2)	Rainy	Calm	13:51	3.1	Surface	1.0	1	20.7	8.1	30.8	7.3	97.6	18.5	7.3	7.3	18.0	7.1
								2	2	20.7	8.1	30.8	7.3	97.5	18.3	7.6			
								2.1	1	20.7	8.1	30.8	7.3	97.7	6.2	6.6			
									2	20.7	8.1	30.8	7.3	98.0	5.9	7.0			
								1.0	1	20.7	8.1	30.8	7.3	97.2	8.2	6.0			
									2	20.6	8.1	30.9	7.3	96.7	8.2	5.7			
		SR4A	Rainy	Calm	13:55	4.4	Surface	1.0	1	20.7	8.1	30.8	7.3	97.7	6.2	6.6	7.3	7.1	6.3
								2	2	20.7	8.1	30.8	7.3	98.0	5.9	7.0			
								3.4	1	20.6	8.1	30.9	7.3	97.2	8.2	6.0			
									2	20.6	8.1	30.9	7.3	96.7	8.2	5.7			
								1.0	1	20.7	8.1	29.7	7.3	96.9	4.1	4.1			
									2	20.7	8.1	29.6	7.3	97.1	4.1	4.0			
		SR7	Rainy	Moderate	14:41	4.6	Surface	1.0	1	20.6	8.1	30.4	7.3	96.8	4.3	3.8	7.3	4.2	3.9
								2	2	20.6	8.1	30.4	7.3	96.6	4.3	3.6			
								3.6	1	20.6	8.0	30.3	7.4	98.1	2.5	4.1			
									2	20.6	8.0	30.3	7.4	98.1	2.5	3.5			
								1.0	1	20.6	8.0	30.3	7.4	99.2	2.6	3.2			
									2	20.6	8.0	30.3	7.5	99.0	2.6	3.0			
		SR8	Rainy	Moderate	15:21	3.6	Surface	1.0	1	20.4	8.0	30.7	7.1	94.8	3.4	3.5	7.4	2.6	3.5
								2	2	20.4	8.0	30.7	7.1	94.7	3.4	3.4			
								2.6	1	20.4	8.0	30.7	7.2	95.3	3.3	2.5			
									2	20.4	8.0	30.7	7.2	95.2	3.2	2.8			
								1.0	1	20.3	8.1	32.4	7.0	93.7	2.2	3.5			
									2	20.3	8.1	32.3	7.0	94.0	2.1	3.3			
		SR9	Rainy	Moderate	14:57	3.2	Surface	1.0	1	20.1	8.1	32.9	6.9	91.8	3.4	3.7	7.1	3.3	3.1
								2	2	20.1	8.1	32.9	6.9	91.9	3.5	3.4			
								2.2	1	20.1	8.1	32.9	6.9	92.4	5.7	4.0			
									2	20.1	8.1	32.9	6.9	92.2	5.0	4.4			
								1.0	1	20.3	8.1	32.4	7.0	93.7	2.2	3.5			
									2	20.3	8.1	32.3	7.0	94.0	2.1	3.3			
		SR10A(N)	Rainy	Moderate	15:37	17.2	Surface	1.0	1	20.1	8.1	32.9	6.9	91.8	3.4	3.7	7.0	3.7	3.7
								2	2	20.1	8.1	32.9	6.9	91.9	3.5	3.4			
								8.6	1	20.1	8.1	32.9	6.9	92.4	5.7	4.0			
									2	20.1	8.1	32.9	6.9	92.2	5.0	4.4			
								16.2	1	20.1	8.1	32.9	6.9	92.4	5.7	4.0			
									2	20.1	8.1	32.9	6.9	92.2	5.0	4.4			

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
21-03-20	Mid-Ebb	CS4	Cloudy	Moderate	10:38	18.1	Surface	1.0	1	20.6	7.9	29.0	6.9	91.3	3.4	4.3	6.8	3.3	4.7
									2	20.5	7.9	29.5	6.9	90.6	3.0	5.4			
							Middle	9.1	1	20.3	7.9	30.7	6.7	88.9	3.2	4.1			
									2	20.3	7.9	30.7	6.7	88.7	3.4	5.0			
							Bottom	17.1	1	20.3	7.9	30.9	6.7	88.6	3.7	4.8			
									2	20.4	7.9	30.6	6.7	89.4	3.3	4.8			
		CS6	Cloudy	Moderate	11:50	9.3	Surface	1.0	1	20.5	8.1	30.4	6.9	91.5	1.8	2.4	6.9	1.5	3.1
									2	20.4	8.1	30.7	6.8	90.7	1.5	2.9			
							Middle	4.7	1	20.3	8.1	31.0	6.9	91.4	1.4	3.2			
									2	20.3	8.1	31.2	6.8	90.0	1.3	3.7			
							Bottom	8.3	1	20.3	8.1	31.2	6.9	92.2	1.3	3.4			
									2	20.2	8.1	31.4	6.8	90.1	1.4	2.8			
		CS(Mf)3(N)	Cloudy	Moderate	10:25	7.6	Surface	1.0	1	20.7	7.8	27.7	7.0	91.8	6.8	7.7	7.0	9.5	6.0
									2	20.8	7.8	26.8	7.0	91.9	7.0	7.8			
							Middle	3.8	1	20.6	7.8	28.5	7.0	92.2	8.8	5.9			
									2	20.6	7.8	28.7	7.0	91.6	8.9	5.5			
							Bottom	6.6	1	20.5	7.8	29.1	7.0	92.3	12.9	5.0			
									2	20.8	7.8	29.2	6.9	91.5	12.5	4.0			
		CS(Mf)5	Fine	Moderate	11:48	12.8	Surface	1.0	1	20.4	8.0	31.6	6.7	89.6	2.5	4.6	6.7	3.2	3.9
									2	20.6	8.0	31.3	6.8	90.2	2.4	3.9			
							Middle	6.4	1	20.2	8.0	32.3	6.7	88.8	3.0	4.2			
									2	20.2	8.0	32.4	6.6	88.5	3.0	4.0			
							Bottom	11.8	1	20.2	8.0	32.5	6.7	88.9	4.3	3.7			
									2	20.2	8.0	32.5	6.6	88.6	4.1	3.2			
		IS8(N)	Fine	Calm	10:28	3.7	Surface	1.0	1	20.8	8.1	30.7	6.8	90.3	10.2	13.6	6.8	9.5	16.4
									2	20.7	8.1	30.7	6.7	90.1	9.0	14.7			
							Bottom	2.7	1	20.8	8.2	30.7	6.8	90.7	10.2	19.6			
									2	20.7	8.1	30.7	6.8	90.2	8.4	17.6			
		IS12	Cloudy	Moderate	11:00	14.7	Surface	1.0	1	20.6	8.0	29.7	6.8	90.3	1.7	2.5	6.7	2.6	2.6
									2	20.5	8.0	30.1	6.8	89.4	2.1	2.7			
							Middle	7.4	1	20.2	8.0	31.0	6.7	88.4	2.7	2.5			
									2	20.2	8.0	31.1	6.6	88.0	2.8	3.4			
							Bottom	13.7	1	20.1	8.0	31.5	6.6	88.2	3.3	2.6			
									2	20.1	8.0	31.5	6.6	87.7	2.7	2.1			
		IS13	Cloudy	Moderate	11:07	10.1	Surface	1.0	1	20.3	8.0	30.9	6.7	88.2	5.3	7.6	6.7	6.1	7.2
									2	20.3	8.0	30.9	6.6	88.0	5.8	7.9			
							Middle	5.1	1	20.2	8.0	31.1	6.7	88.2	6.5	7.4			
									2	20.2	8.0	31.0	6.6	87.6	6.9	6.1			
							Bottom	9.1	1	20.2	8.0	31.2	6.7	88.5	5.8	7.4			
									2	20.2	8.0	31.0	6.6	87.5	6.0	6.7			
		IS14	Cloudy	Moderate	10:53	14.4	Surface	1.0	1	20.6	8.0	29.7	6.9	91.1	1.9	3.8	6.8	3.9	3.5
									2	20.4	8.0	30.4	6.7	89.1	2.3	3.4			
Middle	7.2						1	20.5	8.0	30.3	6.8	89.6	3.4	3.7					
							2	20.3	8.0	30.8	6.7	88.2	3.0	4.3					
Bottom	13.4						1	20.2	8.0	31.3	6.6	88.1	5.9	3.2					
							2	20.2	8.0	31.2	6.7	88.2	6.6	2.4					
IS15	Cloudy	Moderate	11:14	10.1	Surface	1.0	1	20.6	8.0	29.8	6.9	91.8	1.4	2.8	6.9	5.5	3.3		
							2	20.6	8.0	29.8	6.9	92.0	1.3	3.9					
					Middle	5.1	1	20.4	8.0	30.5	6.7	89.4	7.5	2.7					
							2	20.6	8.0	30.0	6.9	91.1	6.6	2.9					
					Bottom	9.1	1	20.4	8.0	30.7	6.7	89.3	8.7	3.6					
							2	20.4	8.0	30.6	6.8	89.7	7.5	3.6					
IS17	Fine	Moderate	11:08	10.6	Surface	1.0	1	20.6	8.0	30.8	6.8	90.0	4.3	7.1	6.8	4.1	7.2		
							2	20.6	8.0	30.7	6.8	90.0	3.9	6.4					
					Middle	5.3	1	20.4	8.0	31.2	6.7	89.3	4.2	7.5					
							2	20.4	8.0	31.2	6.7	89.2	5.0	7.4					
					Bottom	9.6	1	20.4	8.0	31.6	6.7	89.1	3.3	7.2					
							2	20.4	8.0	31.5	6.7	89.1	3.8	7.4					
IS(Mf)9	Fine	Calm	10:25	3.4	Surface	1.0	1	20.8	8.0	30.6	6.9	91.6	3.6	5.2	6.9	4.4	5.3		
							2	20.8	8.0	30.6	6.9	91.7	4.5	5.0					
					Bottom	2.4	1	20.7	8.1	30.7	6.9	91.8	5.0	5.7					
							2	20.7	8.0	30.7	6.8	91.4	4.5	5.1					
IS(Mf)11	Fine	Moderate	11:18	11.0	Surface	1.0	1	20.8	8.1	30.6	7.0	92.9	2.7	4.7	6.9	5.4	4.4		
							2	20.8	8.1	30.5	7.0	92.9	2.7	3.8					
					Middle	5.5	1	20.5	8.0	31.1	6.7	89.3	3.5	4.6					
							2	20.5	8.0	30.9	6.7	89.5	3.3	3.6					
					Bottom	10.0	1	20.4	8.0	31.4	6.7	88.8	9.3	5.1					
							2	20.4	8.0	31.4	6.7	88.8	10.7	4.8					
IS(Mf)16	Fine	Calm	11:01	5.8	Surface	1.0	1	20.6	8.0	30.6	6.8	91.2	6.1	7.6	6.9	5.2	9.5		
							2	20.6	8.0	30.6	6.9	91.4	6.0	8.3					
					Bottom	4.8	1	20.4	8.0	31.3	6.7	89.5	4.3	11.1					
							2	20.4	8.0	31.2	6.7	89.9	4.2	10.9					
SR4(N2)	Fine	Calm	10:37	4.6	Surface	1.0	1	20.6	8.0	30.7	6.7	89.1	8.3	9.7	6.7	8.6	10.5		
							2	20.6	8.0	30.7	6.6	88.5	7.5	9.3					
					Bottom	3.6	1	20.6	8.0	30.8	6.8	90.5	9.8	11.4					
							2	20.6	8.0	30.7	6.7	88.7	8.6	11.5					
SR4A	Fine	Calm	10:42	4.1	Surface	1.0	1	20.6	8.0	30.7	6.6	87.7	7.5	8.4	6.6	8.3	8.5		
							2	20.6	8.0	30.7	6.6	88.0	7.2	8.5					
					Bottom	3.1	1	20.6	8.0	30.8	6.6	87.6	9.6	8.7					
							2	20.6	8.0	30.7	6.6	88.0	9.0	8.4					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
		SR7	Fine	Moderate	11:27	4.5	Surface	1.0	1	20.5	8.1	30.9	6.8	91.0	3.0	5.2	6.9	3.0	6.1	
									2	20.6	8.1	30.7	6.9	91.3	2.9	6.3				
							Bottom	3.5	1	20.5	8.1	31.0	6.9	91.2	3.1	6.6				
									2	20.5	8.1	31.0	6.8	90.4	3.1	6.3				
							Surface	1.0	1	20.6	8.0	30.1	7.0	92.3	5.0	6.0				
									2	20.6	8.0	30.1	6.9	91.8	4.3	5.6				
		SR8	Cloudy	Moderate	11:37	3.4	Surface	1.0	1	20.6	8.0	30.1	7.0	6.9	91.6	4.9	5.1	7.0	4.7	5.6
									2	20.6	8.0	30.1	7.0	92.9	4.5	5.6				
							Bottom	2.4	1	20.6	8.0	30.1	7.0	91.6	4.9	5.1				
									2	20.6	8.0	30.1	6.9	91.6	4.9	5.1				
							Surface	1.0	1	20.7	8.0	29.6	7.0	92.6	1.1	2.5				
									2	20.6	8.0	29.7	6.9	91.9	1.3	2.5				
		SR9	Cloudy	Moderate	11:22	3.3	Surface	1.0	1	20.7	8.0	29.6	7.0	6.9	92.7	1.3	2.7	7.0	1.2	2.6
									2	20.6	8.0	29.7	6.9	91.9	1.3	2.5				
							Bottom	2.3	1	20.7	8.0	29.7	7.0	92.7	1.3	2.7				
									2	20.7	8.0	29.7	6.9	92.1	1.1	2.5				
							Surface	1.0	1	20.4	8.0	32.0	6.8	90.6	1.8	6.4				
									2	20.3	8.0	32.0	6.8	90.5	1.8	5.0				
		SR10A(N)	Fine	Moderate	12:16	16.0	Middle	8.0	1	20.2	8.1	32.5	6.7	89.5	2.2	4.7	6.8	2.1	4.9	
									2	20.2	8.0	32.4	6.7	89.4	2.0	4.1				
Bottom	15.0						1	20.2	8.1	32.5	6.7	89.6	2.5	4.9						
							2	20.2	8.0	32.4	6.7	89.6	2.0	4.5						
Surface	1.0						1	20.6	8.0	29.2	6.9	91.5	2.5	8.9						
							2	20.5	8.0	29.6	6.9	90.5	2.6	9.1						
21-03-20	Mid-Flood	CS4	Cloudy	Moderate	7:13	18.4	Middle	9.2	1	20.4	8.0	30.5	6.7	89.3	4.0	8.1	6.8	4.8	8.4	
									2	20.3	8.0	30.5	6.7	89.0	4.6	8.3				
							Bottom	17.4	1	20.3	8.0	30.7	6.8	89.6	7.9	8.0				
									2	20.3	8.0	30.6	6.8	89.7	6.9	8.2				
							Surface	1.0	1	20.5	7.9	29.7	7.0	92.0	2.4	4.8				
									2	20.5	7.9	29.9	6.9	91.1	2.6	5.5				
		CS6	Cloudy	Moderate	5:54	9.0	Middle	4.5	1	20.5	7.9	29.8	6.9	91.7	3.3	4.8	6.9	3.4	5.3	
									2	20.5	7.9	30.1	6.9	90.9	3.2	5.9				
							Bottom	8.0	1	20.5	7.9	30.1	6.9	91.9	4.4	5.6				
									2	20.5	7.9	30.0	6.9	91.3	4.5	5.4				
							Surface	1.0	1	20.8	8.0	26.6	7.0	91.8	7.0	4.7				
									2	20.8	8.0	26.7	7.0	91.8	7.4	4.1				
		CS(Mf)3(N)	Cloudy	Moderate	7:28	7.1	Middle	3.6	1	20.8	8.0	27.1	7.0	91.9	8.0	4.4	7.0	8.1	4.5	
									2	20.8	8.0	27.5	7.0	91.7	8.7	4.5				
							Bottom	6.1	1	20.8	8.0	28.2	7.0	92.0	9.4	4.1				
									2	20.8	8.0	27.0	7.0	91.8	7.8	5.2				
							Surface	1.0	1	20.5	8.1	30.7	6.9	91.6	2.4	3.4				
									2	20.5	8.1	30.7	6.9	91.6	2.3	4.4				
		CS(Mf)5	Fine	Moderate	6:04	12.5	Middle	6.3	1	20.4	8.1	31.4	6.8	90.2	2.7	2.6	6.9	3.5	3.7	
									2	20.5	8.1	31.4	6.8	90.2	2.6	3.5				
Bottom	11.5						1	20.3	8.1	32.0	6.7	89.5	5.8	4.5						
							2	20.3	8.1	32.0	6.7	89.5	5.4	3.5						
Surface	1.0						1	20.6	8.1	30.6	6.9	91.4	4.0	7.1						
							2	20.6	8.1	30.6	6.8	91.2	4.5	6.2						
IS8(N)	Fine	Calm	7:17	4.3	Bottom	3.3	1	20.6	8.1	30.7	6.9	91.8	5.8	5.1	6.9	4.9	6.0			
							2	20.6	8.1	30.6	6.8	90.9	5.4	5.7						
					Surface	1.0	1	20.4	7.9	30.1	6.8	90.5	3.2	5.3						
							2	20.4	7.9	30.1	6.8	90.4	3.2	4.6						
					Middle	7.2	1	20.4	7.9	30.2	6.8	90.2	3.9	4.9						
							2	20.4	7.9	30.3	6.8	89.8	4.5	5.7						
IS12	Cloudy	Moderate	6:46	14.4	Bottom	13.4	1	20.4	7.9	30.4	6.8	90.1	5.5	5.6	6.8	4.3	5.5			
							2	20.4	7.9	30.4	6.8	89.6	5.4	6.6						
					Surface	1.0	1	20.6	7.9	29.4	7.0	91.9	2.2	3.8						
							2	20.6	7.9	29.4	6.9	91.5	2.3	3.7						
					Middle	5.1	1	20.4	7.9	30.1	6.9	90.7	3.7	3.9						
							2	20.4	7.9	30.4	6.8	89.9	4.1	4.0						
IS13	Cloudy	Moderate	6:40	10.2	Bottom	9.2	1	20.4	7.9	30.7	6.9	90.9	6.4	3.8	6.9	4.1	3.9			
							2	20.4	7.9	30.5	6.8	90.3	6.1	4.0						
					Surface	1.0	1	20.6	8.0	29.4	6.9	91.2	2.3	4.8						
							2	20.6	8.0	29.5	6.9	90.7	2.5	4.2						
					Middle	7.4	1	20.6	8.0	29.5	6.9	91.3	3.5	4.7						
							2	20.6	8.0	29.7	6.8	90.6	3.2	4.6						
IS14	Cloudy	Moderate	6:58	14.8	Bottom	13.8	1	20.6	8.0	29.8	7.0	92.0	4.5	3.5	6.9	3.3	4.3			
							2	20.6	8.0	29.9	6.8	90.5	3.6	4.1						
					Surface	1.0	1	20.5	7.9	30.1	6.9	91.3	2.0	3.7						
							2	20.5	7.9	30.1	6.9	91.0	2.0	4.2						
					Middle	4.9	1	20.5	7.9	30.3	6.9	91.5	5.2	2.8						
							2	20.5	7.9	30.3	6.8	90.8	5.4	3.6						
IS15	Cloudy	Moderate	6:32	9.8	Bottom	8.8	1	20.5	7.9	30.4	6.9	91.9	6.0	3.8	6.9	4.4	3.7			
							2	20.5	7.9	30.3	6.8	90.7	5.9	3.8						
					Surface	1.0	1	20.6	8.1	30.3	7.0	92.6	2.6	5.1						
							2	20.6	8.1	30.3	6.9	92.1	2.6	4.5						
					Middle	4.6	1	20.5	8.1	30.7	6.8	90.7	3.3	4.6						
							2	20.5	8.1	30.7	6.8	90.4	3.4	5.0						
IS17	Fine	Moderate	6:44	9.1	Bottom	8.1	1	20.5	8.1	31.0	6.8	90.5	4.9	5.2	6.9	3.6	4.9			
							2	20.5	8.1	31.0	6.8	90.8	4.5	5.2						
					Surface	1.0	1	20.6	8.1	30.3	7.0	92.6	2.6	5.1						
							2	20.6	8.1	30.3	6.9	92.1	2.6	4.5						
					Middle	4.6	1	20.5	8.1	30.7	6.8	90.7	3.3	4.6						
							2	20.5	8.1	30.7	6.8	90.4	3.4	5.0						
IS(Mf)9	Fine	Calm	7:24	2.9	Middle	1.5	1	20.6	8.1	30.7	6.9	91.5	4.9	8.3	6.9	4.9	8.0			
							2	20.6	8.1	30.7	6.9	91.4	4.8	7.6						

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
		IS(M)11	Fine	Moderate	6:33	10.9	Surface	1.0	1	20.7	8.1	30.3	6.9	92.1	4.6	5.8	6.9	7.4	6.5
								2	2	20.7	8.1	30.2	6.9	92.4	3.8	5.5			
								5.5	1	20.7	8.1	30.5	6.8	91.3	8.1	7.1			
									2	20.7	8.1	30.5	6.8	91.3	7.1	6.5			
								9.9	1	20.6	8.1	30.8	6.8	91.0	10.6	7.2			
									2	20.7	8.1	30.7	6.8	90.9	10.1	6.8			
		IS(M)16	Fine	Calm	6:52	5.4	Surface	1.0	1	20.6	8.1	30.5	6.9	91.9	3.0	4.7	6.9	4.0	4.2
								2	2	20.6	8.1	30.4	6.9	92.1	2.9	3.3			
								4.4	1	20.6	8.1	30.9	6.7	89.9	5.2	5.2			
									2	20.6	8.1	30.9	6.7	89.8	4.8	3.7			
								Surface	1	20.6	8.1	30.7	6.7	88.8	3.8	5.1			
									2	20.7	8.1	30.6	6.6	88.0	4.6	4.9			
		SR4(N2)	Fine	Calm	7:10	4.0	Bottom	3.0	1	20.6	8.1	30.9	6.6	88.1	4.6	4.3	6.7	4.3	4.9
								2	2	20.6	8.1	30.7	6.7	88.7	4.0	5.1			
								Surface	1	20.7	8.1	30.5	6.7	89.2	4.1	3.8			
									2	20.7	8.1	30.5	6.7	88.8	3.4	4.9			
								3.4	1	20.6	8.1	30.9	6.7	89.2	7.8	5.1			
									2	20.6	8.1	30.8	6.7	88.6	6.7	6.0			
		SR7	Fine	Calm	6:25	3.7	Surface	1.0	1	20.6	8.1	30.2	7.0	92.8	4.1	3.9	7.0	4.4	3.3
								2	2	20.6	8.1	30.2	7.0	92.5	4.4	3.3			
								2.7	1	20.6	8.1	30.3	7.0	93.3	4.9	3.2			
									2	20.6	8.1	30.2	7.0	92.6	4.1	2.8			
								Surface	1	20.6	7.8	29.8	6.9	91.3	5.0	4.5			
									2	20.6	7.8	29.8	6.9	91.1	4.3	3.9			
		SR8	Cloudy	Moderate	6:07	3.4	Bottom	2.4	1	20.6	7.8	29.9	6.9	91.5	4.6	5.0	6.9	4.5	4.8
								2	2	20.6	7.8	29.9	6.9	91.2	4.1	5.7			
								Surface	1	20.6	7.9	30.1	6.9	91.1	1.2	2.5			
									2	20.6	7.9	29.9	6.9	91.7	1.1	2.4			
								2.2	1	20.6	7.9	30.2	6.9	91.6	1.4	3.7			
									2	20.6	7.9	30.0	6.9	91.1	1.2	2.4			
SR9	Cloudy	Moderate	6:24	3.2	Surface	1.0	1	20.6	7.9	30.1	6.9	91.1	1.2	2.5	6.9	1.2	2.8		
						2	2	20.6	7.9	29.9	6.9	91.7	1.1	2.4					
						Bottom	1	20.6	7.9	30.2	6.9	91.6	1.4	3.7					
							2	20.6	7.9	30.0	6.9	91.1	1.2	2.4					
						Surface	1	20.5	8.0	31.0	6.9	91.6	1.7	2.5					
							2	20.5	8.0	31.0	6.9	91.7	1.8	3.1					
SR10A(N)	Fine	Moderate	5:33	16.2	Middle	8.1	1	20.3	8.0	31.9	6.8	90.1	2.8	3.1	6.8	2.7	2.9		
						2	2	20.3	8.0	32.0	6.7	89.6	2.8	3.1					
						Bottom	1	20.2	8.0	32.4	6.7	89.4	3.6	3.0					
							2	20.2	8.0	32.4	6.7	89.2	3.2	2.7					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
24-03-20	Mid-Ebb	CS4	Cloudy	Moderate	11:53	18.3	Surface	1.0	1	22.1	8.0	25.5	7.4	98.0	4.9	4.6	7.3	5.4	6.0			
									2	23.3	7.9	25.4	7.2	97.5	5.0	4.6						
							Middle	9.2	1	22.4	8.0	25.3	7.4	98.4	5.4	5.5						
									2	23.3	7.9	25.3	7.2	97.9	6.0	5.9						
							Bottom	17.3	1	22.4	8.0	25.7	7.4	98.9	5.4	7.5						
									2	23.3	8.0	25.9	7.2	98.2	5.4	7.7						
		CS6	Cloudy	Moderate	13:00	9.7	Surface	1.0	1	26.0	8.0	27.4	7.1	102.3	4.7	4.7	7.1	4.4	3.7			
									2	27.1	8.0	27.3	7.0	102.2	4.5	4.6						
							Middle	4.9	1	22.1	8.1	28.7	7.3	98.2	4.2	3.6						
									2	23.2	8.0	28.6	7.1	97.9	4.3	3.6						
							Bottom	8.7	1	22.0	8.1	28.8	7.3	98.4	4.7	3.0						
									2	23.1	8.0	28.8	7.1	98.1	4.2	2.6						
		CS(Mf)3(N)	Cloudy	Moderate	11:44	6.9	Surface	1.0	1	22.0	8.0	25.1	7.3	97.0	8.3	5.1	7.2	6.5	5.0			
									2	23.1	7.9	25.0	7.2	96.4	8.1	5.1						
							Middle	3.5	1	22.3	8.0	24.7	7.3	96.3	6.2	5.0						
									2	23.3	7.9	24.7	7.1	95.9	6.0	4.9						
							Bottom	5.9	1	22.3	8.0	25.4	7.4	99.1	5.1	5.0						
									2	23.4	8.0	25.1	7.3	98.7	5.5	4.9						
		CS(Mf)5	Fine	Moderate	12:30	11.2	Surface	1.0	1	22.4	8.1	28.4	7.1	95.9	3.8	6.7	7.0	3.1	4.9			
									2	22.4	8.0	27.7	7.0	94.6	3.4	6.5						
							Middle	5.6	1	21.7	8.2	29.6	7.0	94.2	2.6	4.2						
									2	21.6	8.1	28.8	6.9	92.9	2.5	4.5						
							Bottom	10.2	1	21.5	8.2	30.3	6.9	93.9	3.1	3.6						
									2	21.5	8.1	29.6	6.9	92.4	3.2	3.9						
		IS8(N)	Fine	Calm	11:57	3.5	Surface	1.0	1	22.7	8.2	28.0	7.0	95.9	13.3	18.5	7.0	12.3	18.1			
									2	22.7	8.0	27.3	7.0	94.6	13.1	18.7						
							Bottom	2.5	1	22.8	8.2	28.0	7.0	96.0	12.0	17.7						
									2	22.8	8.0	27.3	7.0	94.8	10.8	17.4						
							Surface	1.0	1	25.8	8.0	26.7	7.1	101.7	4.4	5.4				7.1	5.6	5.9
									2	27.0	7.9	26.5	6.9	100.4	4.4	5.5						
		Middle	7.4	1	21.3	8.0	28.2	7.3	96.5	6.3	6.0											
				2	22.4	8.0	28.1	7.0	95.6	6.1	6.0											
		Bottom	13.8	1	21.6	8.0	28.4	7.3	97.5	6.5	6.1											
				2	22.7	8.0	28.5	7.1	96.5	5.8	6.1											
		IS13	Cloudy	Moderate	12:20	10.7	Surface	1.0	1	24.7	8.0	27.3	7.1	99.9	8.0	7.9	7.1	6.1	7.0			
									2	26.0	8.0	27.1	7.0	99.8	7.2	8.4						
							Middle	5.4	1	21.1	8.0	29.1	7.2	95.9	5.8	7.0						
									2	22.3	8.0	28.9	7.0	95.0	5.4	6.8						
							Bottom	9.7	1	21.2	8.1	29.0	7.3	96.7	5.6	5.9						
									2	22.4	8.0	28.7	7.0	95.9	4.7	6.0						
		IS14	Cloudy	Moderate	12:08	14.4	Surface	1.0	1	25.7	8.0	26.6	7.1	101.0	6.5	4.7	7.0	6.8	4.5			
									2	27.0	7.9	26.6	6.9	100.5	5.4	5.0						
							Middle	7.2	1	21.1	8.0	28.7	7.2	95.7	8.1	4.6						
									2	22.6	8.0	28.3	6.9	94.3	6.6	4.6						
							Bottom	13.4	1	22.2	8.0	28.5	7.2	97.7	9.3	3.9						
									2	23.0	8.0	28.5	7.1	97.2	5.1	4.3						
		IS15	Cloudy	Moderate	12:26	10.3	Surface	1.0	1	23.9	8.0	27.6	7.2	100.2	6.0	4.2	7.2	6.1	4.4			
									2	24.0	8.0	27.7	7.2	100.7	6.4	4.1						
							Middle	5.2	1	21.4	8.0	28.0	7.3	96.6	6.4	4.2						
									2	22.6	8.0	27.8	7.1	96.3	7.8	4.4						
							Bottom	9.3	1	21.4	8.1	28.3	7.3	96.9	4.5	4.9						
									2	22.6	8.0	28.1	7.1	96.6	5.6	4.5						
		IS17	Fine	Rough	12:41	10.4	Surface	1.0	1	21.6	8.1	29.4	6.9	93.4	18.6	28.8	6.9	17.3	24.0			
									2	21.5	8.0	28.7	6.9	92.1	18.3	28.3						
							Bottom	9.4	1	21.5	8.1	29.4	6.9	92.6	16.8	19.8						
									2	21.5	8.0	28.7	6.8	91.2	15.3	19.1						
							Surface	1.0	1	22.7	8.2	27.9	7.1	97.0	3.9	6.6				7.1	5.9	8.8
									2	22.7	8.0	27.2	7.1	95.7	4.3	7.1						
		Bottom	2.1	1	22.6	8.2	28.0	7.1	96.5	8.0	10.4											
				2	22.5	8.0	27.3	7.0	95.2	7.5	10.9											
		Surface	1.0	1	22.5	8.1	27.6	7.2	96.8	4.5	6.0	7.1	5.5	7.9								
				2	22.4	8.0	26.9	7.1	95.5	4.6	6.2											
		Middle	5.5	1	21.8	8.1	28.4	7.0	94.1	4.9	8.5											
				2	21.8	8.0	27.7	6.9	92.9	5.0	8.1											
		Bottom	10.0	1	21.6	8.1	29.3	6.9	93.4	6.6	9.2											
				2	21.6	8.0	28.5	6.9	92.0	7.1	9.1											
		IS(Mf)16	Fine	Moderate	12:30	5.6	Surface	1.0	1	22.6	8.2	27.9	7.1	97.1	4.6	7.3	7.1	7.0	10.6			
									2	22.6	8.0	27.2	7.1	95.6	4.7	7.4						
							Bottom	4.6	1	22.3	8.1	28.2	7.0	95.2	9.6	13.8						
									2	22.3	8.0	27.5	7.0	93.9	9.1	13.8						
							Surface	1.0	1	22.5	8.1	27.6	7.2	96.9	11.1	16.3				7.2	13.7	21.2
									2	22.4	7.9	26.9	7.1	95.6	11.5	16.8						
		Bottom	2.9	1	22.7	8.2	27.8	7.1	96.2	16.3	25.4											
				2	22.7	8.0	27.0	7.0	95.0	15.7	26.1											
		Surface	1.0	1	22.2	8.1	27.5	7.2	96.2	3.8	5.8	7.2	5.5	6.7								
				2	22.1	8.0	26.8	7.1	94.9	4.3	5.7											
		Bottom	3.2	1	22.3	8.1	27.7	7.2	96.7	7.1	7.6											
				2	22.2	8.0	27.0	7.1	95.3	6.8	7.7											

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
		SR7	Fine	Moderate	12:10	4.7	Surface	1.0	1	22.4	8.1	28.4	7.1	96.3	3.2	4.3	7.1	3.9	6.4	
									2	22.4	7.9	27.7	7.0	95.1	3.3	4.5				
							Bottom	3.7	1	22.0	8.1	28.8	7.0	94.7	4.6	8.1				7.0
									2	21.9	7.9	28.1	6.9	93.3	4.4	8.6				
		SR8	Cloudy	Moderate	12:49	3.5	Surface	1.0	1	22.9	8.0	28.2	7.2	98.6	4.4	5.7	7.2	4.5	5.5	
									2	23.8	8.0	28.1	7.1	98.5	4.9	5.7				
							Bottom	2.5	1	22.0	8.1	28.9	7.3	98.0	4.1	5.1	7.2			
									2	22.9	8.0	28.8	7.1	97.0	4.6	5.3				
		SR9	Cloudy	Moderate	12:33	3.2	Surface	1.0	1	21.7	8.0	27.8	7.3	97.3	9.5	5.5	7.2	9.1	4.6	
									2	22.9	8.0	27.7	7.1	96.9	8.9	6.0				
							Bottom	2.2	1	22.1	8.0	28.2	7.3	98.1	9.2	3.5	7.2			
									2	23.1	8.0	28.1	7.1	97.6	8.6	3.3				
		SR10A(N)	Fine	Moderate	14:00	16.1	Surface	1.0	1	22.6	8.2	29.0	7.0	96.2	1.8	2.6	7.0	2.6	3.2	
									2	22.6	8.1	28.3	7.0	95.0	2.2	2.7				
							Middle	8.1	1	21.7	8.2	30.1	7.0	94.2	1.9	2.9				
									2	21.7	8.1	29.3	6.9	92.7	2.3	3.1				
							Bottom	15.1	1	21.7	8.2	30.8	6.9	94.1	3.9	3.9				
									2	21.6	8.1	30.0	6.9	92.6	3.4	3.7	6.9			
24-03-20	Mid-Flood	CS4	Cloudy	Moderate	8:02	18.6	Surface	1.0	1	20.7	8.1	27.6	7.3	95.9	5.1	6.4	7.3	4.9	5.7	
									2	21.8	8.0	27.4	7.1	95.0	4.2	6.3				
							Middle	9.3	1	20.6	8.1	27.1	7.4	96.2	5.2	5.6				
									2	21.8	8.0	26.9	7.2	95.3	4.4	5.4				
							Bottom	17.6	1	20.6	8.1	28.0	7.3	96.0	5.8	5.0				
				2	21.8	8.0	27.8	7.1	95.1	4.8	5.4	7.2								
		CS6	Cloudy	Moderate	6:37	9.7	Surface	1.0	1	20.5	7.9	28.1	7.2	94.2	5.5	7.6	7.1	6.6	6.6	
									2	21.6	7.8	28.0	7.0	93.7	5.9	7.3				
							Middle	4.9	1	20.5	7.9	28.1	7.2	94.0	5.4	6.8				
									2	21.6	7.8	28.0	7.0	93.4	4.7	6.2				
							Bottom	8.7	1	20.5	7.9	28.0	7.2	93.8	8.7	5.5				
				2	21.7	7.8	27.9	7.0	93.5	9.3	5.9	7.1								
		CS(Mf)3(N)	Cloudy	Moderate	8:15	7.3	Surface	1.0	1	20.9	8.1	25.7	7.4	96.1	6.7	14.0	7.3	6.5	12.2	
									2	22.0	8.0	25.6	7.2	95.2	6.8	14.3				
							Middle	3.7	1	20.8	8.1	25.8	7.4	96.2	6.6	12.9				
									2	22.0	8.0	25.7	7.2	95.3	5.9	12.9				
							Bottom	6.3	1	20.8	8.1	26.8	7.4	96.0	6.8	9.2				
				2	21.9	8.0	26.6	7.2	95.2	6.0	9.7	7.3								
		CS(Mf)5	Cloudy	Moderate	6:44	11.5	Surface	1.0	1	21.5	8.1	28.2	7.1	94.4	3.3	8.7	7.0	3.8	7.5	
									2	21.5	8.0	27.5	7.0	93.1	3.5	8.4				
							Middle	5.8	1	21.3	8.1	29.6	6.9	92.6	3.7	7.2				
									2	21.2	8.0	28.8	6.8	91.2	3.7	7.5				
							Bottom	10.5	1	21.3	8.1	29.5	7.0	93.5	4.4	6.6				
				2	21.2	8.0	28.8	6.9	91.9	4.0	6.4	7.0								
		IS8(N)	Fine	Calm	7:57	3.7	Surface	1.0	1	21.8	8.2	27.6	7.1	95.1	5.6	7.8	7.1	5.7	7.2	
									2	21.8	8.0	26.9	7.0	93.8	5.4	7.4				
							Bottom	2.7	1	21.8	8.2	27.7	7.1	94.8	6.2	6.9				
				2	21.8	8.0	27.0	7.0	93.6	5.7	6.8	7.1								
		IS12	Cloudy	Moderate	7:31	14.6	Surface	1.0	1	20.5	8.1	28.3	7.3	95.3	6.3	5.1	7.2	8.1	5.4	
									2	21.7	8.0	28.2	7.1	94.7	5.4	5.1				
							Middle	7.3	1	20.5	8.1	28.0	7.2	94.4	9.1	5.2				
									2	21.7	8.0	27.8	7.0	93.5	9.5	5.6				
							Bottom	13.6	1	20.5	8.1	28.4	7.3	95.4	10.0	5.9				
				2	21.6	8.0	28.3	7.0	94.3	8.0	5.7	7.2								
		IS13	Cloudy	Moderate	7:24	10.6	Surface	1.0	1	20.6	8.0	27.5	7.2	93.9	4.9	8.1	7.2	5.2	8.8	
									2	21.7	8.0	27.3	7.0	92.9	5.4	7.9				
							Middle	5.3	1	20.5	8.1	27.5	7.3	94.8	6.1	8.9				
									2	21.7	8.0	27.2	7.1	93.8	5.4	9.0				
							Bottom	9.6	1	20.5	8.1	27.6	7.3	95.8	4.8	9.3				
				2	21.6	8.0	27.5	7.1	94.8	4.7	9.5	7.2								
		IS14	Cloudy	Moderate	7:48	10.7	Surface	1.0	1	20.5	8.0	27.4	7.3	95.1	4.7	5.5	7.2	5.9	6.2	
									2	21.7	8.0	27.2	7.1	94.3	4.3	5.4				
							Middle	5.4	1	20.6	8.0	27.2	7.2	93.7	4.6	6.4				
									2	21.8	8.0	27.0	7.0	93.1	4.9	6.5				
Bottom	9.7						1	20.6	8.1	27.2	7.3	95.6	8.9	6.6						
		2	21.8	8.0	27.0	7.1	94.5	8.0	6.5	7.2										
IS15	Cloudy	Moderate	7:16	10.3	Surface	1.0	1	20.5	8.0	28.2	7.2	94.0	4.1	3.9	7.1	4.2	4.2			
							2	21.7	8.0	28.1	7.0	93.1	3.8	3.9						
					Middle	5.2	1	20.5	8.0	28.2	7.2	94.6	4.8	4.3						
							2	21.6	8.0	28.1	7.0	93.7	4.2	4.4						
					Bottom	9.3	1	20.5	8.0	27.9	7.3	95.0	4.5	4.5						
		2	21.6	8.0	27.8	7.1	94.1	4.0	4.2	7.2										
IS17	Cloudy	Rough	7:21	10.3	Surface	1.0	1	21.7	8.1	27.4	7.2	95.7	4.3	7.2	7.2	6.4	9.2			
							2	21.7	8.0	26.7	7.1	94.2	4.3	7.0						
					Middle	5.2	1	21.7	8.1	27.4	7.2	95.5	4.3	7.7						
							2	21.7	8.0	26.7	7.1	94.0	4.2	7.7						
					Bottom	9.3	1	21.5	8.1	28.8	6.9	92.9	11.1	12.8						
		2	21.4	8.0	28.1	6.9	91.4	10.4	12.6	6.9										
IS(Mf)9	Fine	Calm	8:06	3.2	Surface	1.0	1	21.8	8.2	27.7	7.1	95.4	8.2	15.2	7.1	8.1	13.3			
							2	21.8	8.0	27.0	7.1	94.2	8.1	15.5						
					Bottom	2.2	1	21.8	8.2	27.8	7.1	94.6	8.1	11.5						
							2	21.8	8.1	27.1	7.0	93.4	7.9	10.8						

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged											
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)									
		IS(M)11	Cloudy	Rough	7:10	11.1	Surface	1.0	1	21.8	8.1	26.5	7.2	95.8	4.5	7.2	7.1	8.6	12.6									
								2	2	21.8	8.1	25.8	7.1	94.4	4.3	6.6												
								5.6	1	21.8	8.1	27.6	7.1	94.4	8.6	12.7												
									2	21.7	8.1	26.9	7.0	93.0	8.2	12.1												
								10.1	1	21.6	8.1	28.3	7.0	93.7	13.4	18.9												
									2	21.6	8.1	27.6	6.9	92.3	12.7	18.3												
		IS(M)16	Fine	Moderate	7:29	5.2	Surface	1.0	1	21.9	8.2	27.7	7.1	95.6	5.8	10.7	7.1	6.5	10.3									
								2	2	21.8	8.0	27.0	7.1	94.3	5.7	10.4												
								4.2	1	21.8	8.1	27.7	7.1	95.2	7.4	10.2												
									2	21.8	8.0	27.0	7.0	93.8	7.1	9.8												
								Surface	1	21.7	8.2	27.8	7.1	94.4	5.5	7.7												
									2	21.7	8.0	27.1	7.0	93.1	5.0	7.9												
		SR4(N2)	Fine	Calm	7:50	4.0	Bottom	3.0	1	22.0	8.2	28.2	6.9	93.4	7.0	8.4	7.1	6.1	8.2									
								2	2	21.9	8.1	27.5	6.9	92.0	6.7	8.6												
								Surface	1	21.8	8.2	27.4	7.1	95.4	5.5	6.6												
									2	21.7	8.1	26.7	7.1	93.9	5.7	6.3												
								Bottom	1	21.8	8.1	27.7	7.1	95.0	10.8	12.7												
									2	21.7	7.9	27.1	7.0	93.5	10.5	12.9												
		SR4A	Fine	Calm	7:42	4.4	Surface	1.0	1	21.8	8.2	27.4	7.1	95.4	5.5	6.6	7.1	8.1	9.6									
								2	2	21.7	8.1	26.7	7.1	93.9	5.7	6.3												
								Bottom	1	21.8	8.1	27.7	7.1	95.0	10.8	12.7												
									2	21.7	7.9	27.1	7.0	93.5	10.5	12.9												
								SR7	Cloudy	Moderate	7:03	4.8	Surface	1.0	1	21.6				8.1	26.9	7.2	95.4	4.8	9.0	7.2	9.8	16.7
														2	2	21.6				8.0	26.2	7.1	94.0	4.7	9.5			
		Bottom	1	21.6	8.1	27.8	7.1							94.3	15.2	23.9												
			2	21.5	8.0	27.1	7.0							93.0	14.5	24.5												
		SR8	Cloudy	Moderate	6:53	3.6	Surface							1.0	1	20.4	8.0	28.2	7.1	93.0	10.2	4.5	7.0	7.6	5.5			
														2	2	21.6	7.9	28.1	6.9	92.5	9.8	5.0						
								Bottom	1	20.4	8.0	28.2	7.1	92.7	5.5	6.0												
									2	21.6	7.9	28.1	6.9	92.1	5.0	6.3												
								SR9	Cloudy	Moderate	7:08	3.3	Surface	1.0	1	20.5	8.0	27.9	7.2	94.1	4.3	6.1				7.1	5.4	5.6
														2	2	21.7	8.0	27.7	7.0	93.3	3.7	6.7						
		Bottom	1	20.5	8.0	27.9	7.4							96.5	6.8	4.8												
			2	21.6	8.0	27.8	7.2							95.7	6.9	4.8												
		SR10A(N)	Cloudy	Moderate	6:12	15.4	Surface							1.0	1	21.7	8.0	28.1	7.1	94.7	2.0	4.5	7.0	2.9	4.9			
														2	2	21.6	8.0	27.4	7.0	93.6	2.4	4.7						
								Middle	1	21.5	7.9	28.6	7.0	93.4	2.8	4.7												
									2	21.5	7.7	27.8	6.9	92.3	2.9	4.9												
								Bottom	1	21.2	7.8	30.2	6.8	91.7	3.7	5.3												
									2	21.2	7.7	29.4	6.8	90.6	3.7	5.3												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
26-03-20	Mid-Ebb	CS4	Cloudy	Moderate	12:46	18.7	Surface	1.0	1	22.3	8.1	27.3	7.1	95.8	6.4	6.0	7.2	6.9	5.2
									2	22.4	8.1	27.0	7.1	96.3	5.9	5.6			
							Middle	9.4	1	22.3	8.1	26.9	7.2	95.7	7.6	5.1			
									2	22.4	8.1	26.6	7.2	96.2	6.7	4.9			
							Bottom	17.7	1	22.3	8.1	27.1	7.1	95.7	6.7	4.8			
									2	22.4	8.1	26.8	7.1	96.0	8.3	4.8			
		CS6	Cloudy	Moderate	13:51	9.7	Surface	1.0	1	22.6	8.1	27.3	7.3	98.6	4.7	5.3	7.3	4.4	4.3
									2	22.7	8.2	27.0	7.3	99.2	5.1	5.4			
							Middle	4.9	1	22.6	8.1	27.4	7.2	97.7	4.4	4.5			
									2	22.7	8.2	27.1	7.3	98.5	3.7	4.4			
							Bottom	8.7	1	22.6	8.1	27.8	7.2	97.9	4.5	3.3			
									2	22.7	8.2	27.5	7.3	98.6	3.7	2.9			
		CS(Mf)3(N)	Cloudy	Moderate	12:34	6.8	Surface	1.0	1	22.5	8.1	25.4	7.2	95.6	4.1	5.9	7.2	4.8	5.3
									2	22.5	8.1	25.2	7.2	96.1	4.5	5.6			
							Middle	3.4	1	22.5	8.1	25.5	7.2	95.6	4.1	5.7			
									2	22.5	8.1	25.2	7.2	96.0	3.8	5.5			
							Bottom	5.8	1	22.4	8.1	25.6	7.2	95.6	6.5	4.6			
									2	22.5	8.1	25.2	7.2	95.8	6.0	4.2			
		CS(Mf)5	Cloudy	Moderate	13:50	12.5	Surface	1.0	1	22.1	8.0	28.8	6.6	89.8	4.6	8.5	6.6	5.2	8.1
									2	22.1	8.1	27.9	6.7	89.6	4.3	8.9			
							Middle	6.3	1	21.6	8.0	29.8	6.5	87.4	5.1	7.8			
									2	21.4	8.1	29.5	6.5	87.4	4.6	7.8			
							Bottom	11.5	1	21.5	8.0	30.4	6.5	87.8	6.4	7.8			
									2	22.4	8.1	29.6	6.7	91.9	5.9	7.7			
		IS8(N)	Cloudy	Calm	12:43	4.0	Surface	1.0	1	22.3	8.0	27.8	6.8	91.9	8.5	9.1	6.9	8.4	8.6
									2	22.3	8.1	26.8	6.9	92.7	7.8	9.0			
							Bottom	3.0	1	22.3	8.0	27.7	6.9	93.1	8.7	8.3			
									2	22.3	8.1	26.8	7.1	95.3	8.6	8.1			
		IS12	Cloudy	Moderate	13:04	14.6	Surface	1.0	1	22.5	8.1	26.6	7.3	98.0	9.3	7.2	7.3	8.8	6.6
									2	22.6	8.1	26.3	7.3	98.8	7.5	7.0			
							Middle	7.3	1	22.5	8.1	26.7	7.3	98.0	11.4	6.7			
									2	22.6	8.1	26.4	7.3	98.6	10.5	6.7			
							Bottom	13.6	1	22.5	8.1	26.5	7.3	98.3	7.2	6.1			
									2	22.6	8.1	26.2	7.3	98.9	6.6	6.1			
		IS13	Cloudy	Moderate	13:09	10.6	Surface	1.0	1	22.2	8.1	28.0	7.2	96.3	5.9	7.9	7.2	5.7	6.3
									2	22.3	8.1	27.7	7.2	97.0	5.7	7.2			
							Middle	5.3	1	22.2	8.1	28.0	7.1	96.0	5.8	6.2			
									2	22.3	8.1	27.7	7.2	96.7	5.3	6.0			
							Bottom	9.6	1	22.2	8.1	28.1	7.1	96.1	5.9	5.5			
									2	22.3	8.1	27.8	7.2	96.8	5.3	5.1			
		IS14	Cloudy	Moderate	12:57	14.7	Surface	1.0	1	22.3	8.1	27.0	7.3	98.0	10.7	7.2	7.2	7.1	8.4
									2	22.5	8.1	26.7	7.3	98.6	10.1	7.5			
							Middle	7.4	1	22.3	8.1	27.1	7.1	95.4	6.0	8.4			
									2	22.4	8.1	26.8	7.1	95.9	5.7	8.0			
							Bottom	13.7	1	22.2	8.1	27.3	7.1	95.4	5.0	9.7			
									2	22.3	8.1	27.0	7.1	95.7	4.9	9.4			
		IS15	Cloudy	Moderate	13:16	10.2	Surface	1.0	1	22.2	8.1	28.5	7.1	96.0	4.9	4.6	7.2	5.7	6.2
									2	22.3	8.1	28.1	7.1	96.7	4.9	4.8			
							Middle	5.1	1	22.2	8.1	28.5	7.2	96.6	5.9	6.4			
									2	22.4	8.1	28.1	7.2	97.4	5.2	6.2			
							Bottom	9.2	1	22.3	8.1	28.4	7.2	97.0	7.2	7.3			
									2	22.4	8.2	28.1	7.2	97.5	6.1	7.6			
		IS17	Cloudy	Moderate	13:14	7.6	Surface	1.0	1	22.3	8.0	28.1	6.8	91.6	5.3	7.4	6.6	7.3	8.5
									2	22.0	8.1	27.7	6.6	88.7	5.0	7.8			
							Middle	3.8	1	22.0	8.0	28.6	6.6	88.9	7.6	8.4			
									2	21.7	8.1	28.5	6.5	87.3	7.7	8.8			
							Bottom	6.6	1	21.7	8.0	29.4	6.5	87.6	9.0	9.6			
									2	22.2	8.1	27.5	6.7	89.9	9.3	9.1			
		IS(Mf)9	Cloudy	Calm	12:35	3.6	Surface	1.0	1	22.3	8.0	28.1	6.6	89.7	6.1	9.7	6.7	7.1	8.8
									2	22.2	8.1	27.2	6.7	89.6	5.9	9.1			
							Bottom	2.6	1	22.1	8.0	28.2	6.6	88.9	8.4	7.9			
									2	22.1	8.1	27.4	6.6	88.1	8.1	8.5			
		IS(Mf)11	Cloudy	Moderate	13:23	10.6	Surface	1.0	1	22.4	8.0	26.7	6.8	91.0	6.2	7.8	6.7	7.7	9.8
									2	22.1	8.1	26.9	6.7	89.6	5.9	7.6			
							Middle	5.3	1	22.2	8.0	27.8	6.7	89.7	5.9	10.1			
									2	21.7	8.1	28.3	6.5	86.6	5.7	10.3			
							Bottom	9.6	1	21.7	8.0	29.2	6.5	87.0	11.2	11.1			
									2	22.3	8.1	27.2	6.8	91.5	11.5	11.6			
		IS(Mf)16	Cloudy	Moderate	13:07	5.6	Surface	1.0	1	22.3	8.0	28.4	6.7	90.2	6.8	8.8	6.7	7.2	7.9
									2	22.1	8.1	27.7	6.7	90.5	7.0	8.5			
							Bottom	4.6	1	22.1	8.0	28.6	6.8	91.3	7.5	7.2			
									2	22.2	8.1	26.8	6.8	90.5	7.5	7.0			
		SR4(N2)	Cloudy	Calm	12:51	3.9	Surface	1.0	1	22.3	8.0	27.6	6.8	92.1	7.0	9.3	6.8	7.5	8.6
									2	22.3	8.1	26.9	6.8	91.8	6.7	9.2			
							Bottom	2.9	1	22.3	8.0	27.7	6.9	92.6	8.1	7.8			
									2	22.3	8.1	27.0	6.8	91.6	8.1	8.0			
		SR4A	Cloudy	Calm	12:57	4.5	Surface	1.0	1	22.2	8.0	27.7	6.7	90.6	5.4	10.0	6.7	6.8	8.6
									2	22.2	8.1	27.0	6.7	90.5	5.5	10.4			
							Bottom	3.5	1	22.2	8.0	27.8	6.8	91.2	8.1	6.9			
									2	22.2	8.1	26.8	6.8	91.8	8.0	6.9			

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
		SR7	Cloudy	Moderate	13:31	3.4	Surface	1.0	1	22.4	8.0	26.5	6.9	92.2	5.5	7.9	6.9	5.7	9.9								
									2	22.2	8.1	26.2	6.9	92.0	5.2	8.0											
							Bottom	2.4	1	22.3	8.0	27.0	6.9	92.5	6.1	12.1				6.9							
									2	22.3	8.1	25.9	6.8	90.8	6.1	11.6											
							SR8	Cloudy	Moderate	13:40	3.4	Surface	1.0	1	22.4	8.1				28.4	7.1	96.8	5.7	5.4	7.2	7.0	6.5
														2	22.6	8.2				28.1	7.2	97.4	5.3	5.3			
		Bottom	2.4	1	22.5	8.1						28.5	7.2	97.2	8.1	7.5	7.2										
				2	22.6	8.2						28.1	7.2	97.7	8.8	7.8											
		SR9	Cloudy	Moderate	13:21	3.1	Surface	1.0	1	22.4	8.1	28.2	7.2	98.0	7.7	6.8	7.3	7.9	8.2								
									2	22.4	8.2	28.0	7.3	98.3	7.7	6.5											
							Bottom	2.1	1	22.6	8.1	28.1	7.3	98.6	7.5	9.7				7.3							
									2	22.7	8.2	27.9	7.3	98.7	8.6	9.9											
		SR10A(N)	Cloudy	Moderate	14:17	16.0	Surface	1.0	1	22.1	8.0	29.2	6.7	91.2	3.0	6.9	6.6	3.3	5.5								
									2	22.0	8.2	28.3	6.8	91.3	3.0	6.6											
							Middle	8.0	1	21.5	8.0	30.6	6.5	88.2	3.4	5.9				6.6							
									2	21.5	8.2	29.7	6.5	88.0	3.5	5.3											
							Bottom	15.0	1	21.5	8.0	30.7	6.6	88.7	3.7	4.1				6.6							
									2	21.4	8.2	29.8	6.6	88.3	3.1	4.4											
		26-03-20	Mid-Flood	CS4	Rainy	Moderate	8:14	18.4	Surface	1.0	1	22.1	8.1	26.8	7.2	95.8	9.9	8.5	7.2	7.8	7.6						
											2	22.3	8.1	26.5	7.2	96.1	10.4	9.1									
Middle	9.2								1	22.1	8.1	26.9	7.2	95.7	7.6	7.3	7.2										
									2	22.3	8.1	26.6	7.2	96.1	7.4	7.4											
Bottom	17.4								1	22.1	8.1	26.9	7.2	96.1	5.7	7.0	7.2										
									2	22.3	8.1	26.6	7.2	96.5	5.5	6.5											
CS6	Rainy			Moderate	7:12	9.7	Surface	1.0	1	21.9	8.0	27.7	7.1	94.8	6.4	10.6	7.2	7.5	8.9								
									2	22.0	8.0	27.4	7.1	95.4	7.4	10.6											
							Middle	4.9	1	21.9	8.0	27.7	7.2	95.8	7.7	8.8				7.2							
									2	22.1	8.0	27.4	7.2	96.4	6.7	8.5											
							Bottom	8.7	1	21.9	8.0	27.6	7.2	96.2	8.8	7.6				7.2							
									2	22.1	8.0	27.3	7.2	96.8	7.9	7.2											
CS(Mf)3(N)	Rainy			Moderate	8:27	7.3	Surface	1.0	1	22.1	8.1	26.8	7.2	95.3	7.8	7.2	7.2	7.0	6.4								
									2	22.3	8.1	26.3	7.2	95.8	7.5	7.3											
							Middle	3.7	1	22.1	8.1	26.5	7.1	94.5	6.9	6.4				7.2							
									2	22.3	8.1	26.2	7.1	94.8	6.9	6.3											
							Bottom	6.3	1	22.1	8.1	26.5	7.2	95.5	6.4	5.6				7.2							
									2	22.3	8.1	26.2	7.2	95.8	6.4	5.5											
CS(Mf)5	Cloudy			Moderate	7:21	12.3	Surface	1.0	1	22.0	8.0	28.0	6.6	89.2	4.5	5.0	6.6	5.7	6.0								
									2	21.9	8.0	27.1	6.7	89.2	4.2	5.2											
		Middle	6.2				1	21.9	8.0	28.4	6.5	87.7	4.3	6.2	6.4												
							2	21.7	8.0	28.2	6.5	87.2	4.0	6.3													
		Bottom	11.3				1	21.4	8.0	30.7	6.3	85.6	8.2	6.4	6.4												
							2	21.3	8.0	29.8	6.4	85.5	8.9	6.7													
IS8(N)	Cloudy	Calm	8:36	4.1	Surface	1.0	1	22.1	8.0	27.6	6.8	91.5	6.7	8.4	6.8	6.7	7.3										
							2	22.1	8.0	26.7	6.8	91.2	6.7	8.3													
					Bottom	3.1	1	22.1	8.0	27.6	6.9	93.0	6.9	6.4				6.9									
							2	22.1	8.0	26.8	6.9	92.3	6.5	6.2													
					IS12	Rainy	Moderate	7:55	14.9	Surface	1.0	1	21.9	8.1				27.7	7.1	94.3	6.4	10.4	7.1	6.1	8.7		
												2	22.0	8.1				27.4	7.1	94.8	7.1	10.2					
Middle	7.5	1	21.9	8.1						27.7	7.1	94.3	6.6	8.0	7.1												
		2	22.0	8.1						27.5	7.1	94.8	5.8	8.5													
Bottom	13.9	1	21.9	8.1						27.8	7.1	94.4	6.0	7.6	7.1												
		2	22.0	8.1						27.4	7.1	94.9	4.9	7.4													
IS13	Rainy	Moderate	7:49	10.7	Surface	1.0	1	21.9	8.1	27.8	7.1	94.6	5.8	7.8	7.1	5.8	6.8										
							2	22.0	8.1	27.4	7.1	95.1	4.9	7.9													
					Middle	5.4	1	21.9	8.1	27.9	7.0	94.2	6.2	7.1				7.1									
							2	22.0	8.1	27.6	7.1	94.6	6.4	6.6													
					Bottom	9.7	1	21.9	8.1	28.0	7.1	95.0	5.5	5.7				7.1									
							2	22.0	8.1	27.6	7.1	95.4	6.2	5.4													
IS14	Rainy	Moderate	8:01	14.5	Surface	1.0	1	21.9	8.1	27.8	7.1	94.3	5.1	8.3	7.1	5.4	6.8										
							2	22.0	8.1	27.4	7.1	94.9	4.3	8.5													
					Middle	7.3	1	21.9	8.1	27.9	7.1	94.4	5.8	6.4				7.2									
							2	22.0	8.1	27.6	7.1	95.0	5.7	6.8													
					Bottom	13.5	1	21.9	8.1	27.8	7.1	95.5	5.7	5.0				7.1									
							2	22.0	8.1	27.5	7.2	96.0	6.0	5.6													
IS15	Rainy	Moderate	7:44	10.1	Surface	1.0	1	21.8	8.1	27.8	7.0	93.7	5.2	8.0	7.0	5.0	7.5										
							2	21.9	8.1	27.5	7.0	94.3	6.4	7.8													
					Middle	5.1	1	21.8	8.1	28.7	7.0	94.0	4.7	7.5				7.1									
							2	21.9	8.1	28.3	7.0	94.4	4.8	7.4													
					Bottom	9.1	1	21.8	8.1	28.6	7.1	94.8	4.4	7.0				6.8									
							2	22.0	8.1	28.3	7.1	95.3	4.6	7.0													
IS17	Cloudy	Moderate	8:01	7.6	Surface	1.0	1	22.1	8.0	27.3	6.8	91.6	4.2	8.4	6.8	4.9	7.8										
							2	22.1	8.0	26.4	6.9	91.5	3.9	8.0													
					Middle	3.8	1	22.1	8.0	27.8	6.7	90.5	5.2	8.0				6.8									
							2	22.1	8.0	26.9	6.8	90.5	5.2	7.6													
					Bottom	6.6	1	22.1	8.0	27.8	6.8	90.9	5.7	7.5				6.8									
							2	22.0	8.0	26.9	6.8	90.8	5.3	7.0													
IS(Mf)9	Cloudy	Calm	8:43	3.4	Surface	1.0	1	22.1	8.0	27.9	6.7	90.8	8.1	8.8	6.8	8.4	9.6										
							2	22.1	8.1	27.1	6.8	90.7	8.3	9.0													
					Bottom	2.4	1	22.1	8.0	28.0	6.8	92.0	8.3	10.7				6.8									
							2	22.1	8.1	27.2	6.8	91.4	8.7	10.0													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
		IS(M)11	Cloudy	Moderate	7:50	10.9	Surface	1.0	1	22.2	8.0	27.2	6.8	91.1	5.7	9.6	6.8	8.6	8.0
								2	2	22.1	8.0	26.4	6.8	91.1	5.6	9.3			
								5.5	1	22.2	8.0	27.7	6.7	90.5	9.8	7.3			
									2	22.1	8.0	26.9	6.8	90.5	8.9	7.4			
								9.9	1	22.1	8.0	28.5	6.7	90.2	10.6	7.0			
									2	22.0	8.0	27.6	6.7	89.8	10.9	7.1			
		IS(M)16	Cloudy	Moderate	8:09	5.4	Surface	1.0	1	22.2	8.0	27.7	6.7	90.7	5.0	6.2	6.8	5.1	6.6
								2	2	22.1	8.0	26.8	6.8	90.7	4.7	6.7			
								4.4	1	22.1	8.0	28.1	6.7	90.2	5.4	6.7			
									2	22.0	8.0	27.2	6.7	90.1	5.3	6.8			
		SR4(N2)	Cloudy	Calm	8:29	3.8	Surface	1.0	1	22.1	8.0	27.7	6.7	90.4	5.7	9.5	6.8	6.3	9.2
								2	2	22.1	8.0	26.9	6.8	90.4	5.3	9.9			
								2.8	1	22.1	8.0	28.2	6.6	88.8	7.2	8.8			
									2	22.1	8.0	27.3	6.6	88.5	7.0	8.5			
		SR4A	Cloudy	Calm	8:22	4.4	Surface	1.0	1	22.1	8.0	27.7	6.7	89.5	6.2	10.3	6.7	5.7	9.3
								2	2	22.1	8.0	26.9	6.7	89.5	6.1	10.3			
								3.4	1	22.3	8.0	28.1	6.5	88.4	5.4	8.1			
									2	22.2	8.0	27.3	6.6	88.3	4.9	8.5			
		SR7	Cloudy	Moderate	7:41	4.3	Surface	1.0	1	22.1	8.0	27.3	6.8	90.7	6.0	6.7	6.8	8.7	8.2
								2	2	22.0	8.0	26.4	6.8	90.6	6.0	6.2			
								3.3	1	22.0	8.0	27.8	6.8	91.3	11.3	9.9			
									2	22.0	8.0	26.9	6.8	90.9	11.6	9.8			
		SR8	Rainy	Moderate	7:24	3.6	Surface	1.0	1	21.8	8.0	28.4	7.0	93.6	6.4	8.5	7.0	5.7	8.0
								2	2	21.9	8.1	28.1	7.0	93.9	5.9	8.0			
2.6	1							21.8	8.0	28.4	7.0	94.0	5.6	7.5					
	2							21.9	8.1	28.1	7.0	94.4	4.9	7.8					
SR9	Rainy	Moderate	7:38	3.3	Surface	1.0	1	21.8	8.0	28.9	7.0	93.7	4.0	4.9	7.0	4.0	4.4		
						2	2	21.9	8.1	28.6	7.0	94.1	3.3	5.0					
						2.3	1	21.8	8.1	28.9	7.1	94.7	4.5	3.8					
							2	22.0	8.1	28.6	7.1	95.2	4.2	3.7					
SR10A(N)	Cloudy	Moderate	6:49	16.4	Surface	1.0	1	22.0	7.9	28.4	6.6	89.0	4.0	7.4	6.6	4.4	6.4		
						2	2	21.9	7.9	27.6	6.7	89.3	4.8	7.6					
						8.2	1	21.7	7.9	29.3	6.5	87.6	4.3	6.6					
							2	21.7	7.9	28.4	6.5	87.4	3.7	6.3					
						15.4	1	21.6	7.9	30.0	6.4	87.0	4.9	5.4					
							2	21.5	7.9	29.1	6.5	87.0	4.5	4.9					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
28-03-20	Mid-Ebb	CS4	Rainy	Moderate	13:44	18.2	Surface	1.0	1	22.7	8.1	24.2	7.2	95.4	4.1	4.6	7.3	5.8	5.0								
									2	21.5	8.1	24.5	7.3	95.0	4.1	3.6											
							Middle	9.1	1	22.7	8.1	24.2	7.2	95.6	4.8	4.2											
									2	21.4	8.1	24.7	7.3	95.6	4.8	5.1											
							Bottom	17.2	1	22.3	8.1	24.5	7.2	95.1	8.3	6.5											
									2	21.2	8.1	24.8	7.3	94.8	8.7	6.2											
		CS6	Cloudy	Moderate	14:46	9.6	Surface	1.0	1	22.5	8.1	25.9	7.3	97.1	7.2	5.8	7.3	7.4	4.5								
									2	21.3	8.1	26.2	7.3	96.6	7.4	4.9											
							Middle	4.8	1	22.5	8.1	26.3	7.2	97.3	4.9	3.6											
									2	21.3	8.1	26.6	7.3	96.8	5.9	4.5											
							Bottom	8.6	1	22.5	8.1	25.8	7.3	98.0	9.0	3.5											
									2	21.3	8.1	26.1	7.4	97.4	9.7	4.4											
		CS(Mf)3(N)	Rainy	Moderate	13:33	6.5	Surface	1.0	1	22.6	8.0	22.7	7.2	95.3	5.2	4.8	7.3	5.3	5.4								
									2	21.5	8.1	23.0	7.3	94.9	5.3	5.3											
							Middle	3.3	1	22.6	8.0	22.8	7.2	95.3	4.8	5.2											
									2	21.4	8.1	23.1	7.3	94.8	5.5	5.0											
							Bottom	5.5	1	22.5	8.0	22.7	7.2	95.2	5.6	6.6											
									2	21.4	8.1	23.0	7.3	94.9	5.6	5.7											
		CS(Mf)5	Cloudy	Moderate	14:44	12.8	Surface	1.0	1	22.4	8.0	25.8	6.7	89.4	3.7	5.0	6.6	6.0	5.1								
									2	22.4	8.0	26.7	6.6	89.2	4.2	4.6											
							Middle	6.4	1	22.0	8.0	27.6	6.5	86.8	6.8	4.5											
									2	22.0	8.0	28.5	6.4	86.9	6.9	5.1											
							Bottom	11.8	1	21.6	8.0	29.9	6.3	85.6	7.0	5.2											
									2	21.7	8.0	30.9	6.3	86.1	7.1	6.2											
		IS8(N)	Rainy	Calm	13:41	3.9	Surface	1.0	1	22.8	8.0	26.4	6.7	90.7	9.6	7.2	6.7	8.9	7.1								
									2	22.9	8.0	27.3	6.7	90.6	9.3	8.3											
							Bottom	2.9	1	22.8	8.0	26.6	6.6	90.0	8.5	6.6											
									2	22.9	8.0	27.5	6.6	90.0	8.2	6.4											
		IS12	Rainy	Moderate	14:01	14.6	Surface	1.0	1	22.5	8.1	25.9	7.1	95.7	4.2	4.5	7.3	6.2	5.7								
									2	21.4	8.1	26.2	7.2	95.3	4.8	5.2											
							Middle	7.3	1	22.3	8.1	25.8	7.5	100.0	5.2	5.3											
									2	21.4	8.1	26.3	7.2	95.3	6.2	6.0											
							Bottom	13.6	1	22.3	8.1	25.8	7.5	100.0	8.2	6.1											
									2	21.1	8.1	26.2	7.6	99.5	8.8	6.8											
		IS13	Rainy	Moderate	14:07	10.7	Surface	1.0	1	22.3	8.1	27.4	7.1	95.8	4.6	5.7	7.2	5.1	4.8								
									2	21.2	8.1	27.8	7.2	95.2	4.5	4.8											
							Middle	5.4	1	22.3	8.1	27.4	7.1	95.7	5.4	4.1											
									2	21.2	8.1	27.8	7.2	95.3	4.8	5.1											
							Bottom	9.7	1	22.3	8.1	27.0	7.2	96.6	5.9	4.0											
									2	21.2	8.1	27.3	7.3	96.4	5.1	4.9											
		IS14	Rainy	Moderate	13:56	14.5	Surface	1.0	1	22.4	8.1	26.8	7.1	95.3	4.6	4.9	7.2	6.1	4.9								
									2	21.3	8.1	27.1	7.2	94.8	5.3	4.1											
							Middle	7.3	1	22.3	8.1	26.1	7.1	95.4	4.7	4.4											
									2	21.2	8.1	26.5	7.2	94.9	5.1	5.4											
							Bottom	13.5	1	22.3	8.1	26.8	7.2	97.0	8.1	5.8											
									2	21.1	8.1	27.0	7.4	96.8	8.7	4.9											
		IS15	Rainy	Moderate	14:13	10.4	Surface	1.0	1	22.4	8.1	27.8	7.0	95.1	5.5	6.9	7.1	4.9	6.2								
									2	21.2	8.1	28.2	7.1	94.6	5.0	6.0											
							Middle	5.2	1	22.4	8.1	27.8	7.0	95.1	4.7	6.0											
									2	21.2	8.1	28.2	7.1	94.5	5.2	6.5											
							Bottom	9.4	1	22.4	8.1	27.7	7.0	95.0	4.0	6.2											
									2	21.2	8.1	28.1	7.1	94.6	5.0	5.6											
		IS17	Rainy	Calm	14:09	7.5	Surface	1.0	1	22.6	8.0	23.6	6.8	89.7	5.8	2.7	6.6	8.6	4.1								
									2	22.6	8.0	24.4	6.7	89.8	6.0	3.0											
							Middle	3.8	1	22.1	8.0	27.1	6.5	86.9	10.8	3.0											
									2	22.2	8.0	28.0	6.4	86.9	10.3	4.0											
							Bottom	6.5	1	22.0	8.0	28.0	6.4	86.1	9.5	6.4											
									2	22.1	8.0	28.9	6.4	86.2	9.4	5.7											
		IS(Mf)9	Rainy	Calm	13:33	2.9	Middle	1.5	1	22.7	7.8	26.6	6.5	87.8	6.4	7.2	6.5	6.4	7.5								
									2	22.7	8.0	27.4	6.5	87.7	6.4	7.7											
		IS(Mf)11	Cloudy	Moderate	14:19	10.9	Surface	1.0	1	22.7	8.0	22.0	6.9	90.7	3.0	5.6	6.7	6.0	4.7								
									2	22.8	8.0	22.8	6.8	90.6	3.5	5.3											
							Middle	5.5	1	22.5	8.0	25.4	6.6	88.6	8.2	4.4											
									2	22.6	8.0	26.2	6.6	88.6	8.3	5.3											
							Bottom	9.9	1	22.1	8.0	27.5	6.4	86.4	6.2	4.1											
									2	22.2	8.0	28.4	6.4	86.7	6.5	3.4											
		IS(Mf)16	Rainy	Calm	14:03	5.8	Surface	1.0	1	22.5	8.0	26.8	6.5	88.1	7.6	4.7	6.5	10.1	5.4								
									2	22.6	8.0	27.7	6.5	88.1	7.9	4.4											
							Bottom	4.8	1	22.4	8.0	27.3	6.5	87.0	12.4	6.1											
									2	22.4	8.0	28.1	6.4	87.0	12.6	6.5											
							SR4(N2)	Rainy	Calm	13:48	4.0	Surface	1.0	1	22.7	8.0				25.8	6.7	89.7	7.6	6.7	6.7	11.2	6.9
									2	22.7	8.0	26.6	6.6	89.7	7.3	6.0											
		Bottom	3.0	1	22.7	8.0	25.9	6.6	89.2	15.5	8.0																
				2	22.8	8.0	26.8	6.6	89.1	14.3	7.0																
		SR4A	Rainy	Calm	13:52	4.4	Surface	1.0	1	22.7	8.0	25.5	6.8	91.6	3.0	6.3	6.8	3.4	6.3								
				2	22.8	8.0	26.3	6.8	91.6	3.5	6.3																
		Bottom	3.4	1	22.7	8.0	25.6	6.7	89.8	3.3	6.2																
				2	22.7	8.0	26.4	6.7	89.8	3.8	6.3																

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
		SR7	Cloudy	Moderate	14:27	4.3	Surface	1.0	1	22.6	8.0	24.2	6.7	89.3	4.1	6.3	6.7	4.6	5.4		
									2	22.6	8.0	25.0	6.7	89.3	4.4	5.6					
							Bottom	3.3	1	22.5	8.0	25.1	6.6	88.2	4.9	4.7					
									2	22.5	8.0	26.0	6.6	88.3	5.1	4.8					
		SR8	Cloudy	Moderate	14:35	3.4	Surface	1.0	1	22.5	8.1	27.5	7.1	96.5	4.6	7.6	7.2	5.1	7.2		
									2	21.4	8.1	27.9	7.2	95.9	4.9	8.5					
							Bottom	2.4	1	22.6	8.1	27.4	7.3	98.9	5.3	6.3					
									2	21.4	8.1	27.8	7.4	98.2	5.4	6.4					
		SR9	Cloudy	Moderate	14:19	3.2	Surface	1.0	1	22.5	8.1	27.6	7.1	95.6	10.7	5.3	7.1	11.6	4.5		
									2	21.3	8.1	28.0	7.1	94.8	10.8	4.7					
							Bottom	2.2	1	22.5	8.1	27.5	7.2	97.6	12.4	4.1					
									2	21.2	8.1	27.8	7.5	98.6	12.4	4.0					
		SR10A(N)	Cloudy	Moderate	15:10	15.6	Surface	1.0	1	22.3	8.0	27.7	6.7	90.5	2.5	1.9	6.6	3.6	3.1		
									2	22.3	8.0	28.6	6.7	90.5	3.0	2.9					
							Middle	7.8	1	22.0	8.0	28.5	6.5	88.3	3.6	2.7					
									2	22.1	8.0	29.4	6.5	88.3	4.1	2.8					
							Bottom	14.6	1	22.1	8.0	28.6	6.5	87.3	3.9	4.5					
									2	22.1	8.0	29.7	6.4	87.7	4.3	3.7					
		28-03-20	Mid-Flood	CS4	Cloudy	Moderate	8:48	18.6	Surface	1.0	1	22.8	8.1	24.2	7.1	95.0	4.2	6.0	7.2	5.5	5.6
											2	21.7	8.1	24.5	7.2	94.7	5.0	6.9			
Middle	9.3								1	22.8	8.1	24.5	7.1	94.8	5.4	5.8					
									2	21.7	8.1	24.7	7.2	94.4	5.2	4.9					
Bottom	17.6								1	22.8	8.1	24.5	7.2	95.8	6.3	5.5					
									2	21.7	8.1	24.8	7.3	95.5	6.8	4.7					
CS6	Cloudy			Moderate	7:44	9.7	Surface	1.0	1	22.5	8.1	26.6	7.1	95.0	5.3	7.1	7.2	7.0	6.4		
									2	21.4	8.0	26.8	7.2	94.6	5.5	6.8					
							Middle	4.9	1	22.5	8.0	26.5	7.1	95.0	9.1	6.5					
									2	21.4	7.9	26.8	7.2	94.6	7.7	5.6					
CS(Mf)3(N)	Cloudy			Moderate	8:59	6.8	Surface	1.0	1	22.8	8.1	23.5	7.3	96.6	6.1	13.5	7.4	8.0	22.5		
									2	21.7	8.1	23.8	7.4	96.3	6.9	11.6					
							Middle	3.4	1	22.8	8.1	24.1	7.3	97.0	9.3	11.7					
									2	21.7	8.1	24.4	7.4	96.4	9.5	13.9					
CS(Mf)5	Cloudy			Moderate	7:54	12.7	Surface	1.0	1	22.4	8.0	25.8	6.7	89.0	4.1	5.3	6.5	5.8	4.7		
									2	22.5	8.0	26.6	6.6	88.8	4.4	5.1					
							Middle	6.4	1	22.0	8.0	28.1	6.4	86.7	4.4	4.5					
									2	22.1	8.0	28.9	6.4	86.7	4.7	4.1					
IS8(N)	Cloudy			Calm	9:01	3.8	Surface	1.0	1	22.5	8.0	25.5	6.8	90.5	4.9	7.2	6.8	5.6	6.9		
									2	22.6	8.0	26.3	6.7	90.4	5.2	7.6					
		Bottom	2.8				1	22.5	8.0	25.6	6.7	90.1	5.7	6.0							
							2	22.6	8.0	26.4	6.7	90.1	6.5	6.6							
IS12	Cloudy	Moderate	8:30	14.8	Surface	1.0	1	22.4	8.1	26.9	7.0	94.8	5.7	5.2	7.1	6.2	5.0				
							2	21.3	8.1	27.2	7.1	94.4	5.3	4.4							
					Middle	7.4	1	22.4	8.1	26.9	7.1	95.0	4.4	4.5							
							2	21.3	8.1	27.2	7.1	94.4	5.1	4.1							
IS13	Cloudy	Moderate	8:25	10.8	Surface	1.0	1	22.5	8.1	26.7	7.0	93.9	4.5	5.2	7.1	5.7	5.6				
							2	21.4	8.1	27.0	7.1	93.6	4.6	5.6							
					Middle	5.4	1	22.5	8.1	26.7	7.0	94.3	7.1	5.0							
							2	21.4	8.1	27.0	7.1	94.0	5.9	5.9							
IS14	Cloudy	Moderate	8:35	14.7	Surface	1.0	1	22.5	8.1	27.2	7.0	94.9	5.2	5.5	7.1	5.9	5.8				
							2	21.4	8.1	27.5	7.1	94.5	6.0	6.0							
					Middle	7.4	1	22.5	8.1	27.2	7.0	95.1	4.8	5.7							
							2	21.4	8.1	27.5	7.1	94.6	4.8	5.1							
IS15	Cloudy	Moderate	8:19	10.4	Surface	1.0	1	22.6	8.1	27.8	7.1	95.8	4.0	4.5	7.1	4.6	5.0				
							2	21.4	8.1	27.5	7.2	95.1	7.4	5.7							
					Middle	5.2	1	22.3	8.1	28.2	7.0	94.3	3.9	5.5							
							2	21.2	8.1	28.5	7.1	94.1	3.9	4.9							
IS17	Cloudy	Moderate	8:31	7.4	Surface	1.0	1	22.5	8.0	25.8	6.7	89.4	4.0	4.7	6.6	4.5	4.0				
							2	22.6	8.0	26.6	6.6	89.4	4.5	5.6							
					Middle	3.7	1	22.4	8.0	26.2	6.6	88.7	4.1	3.0							
							2	22.5	8.0	27.1	6.6	88.6	4.6	4.0							
IS(Mf)9	Cloudy	Calm	9:09	2.7	Surface	1.0	1	22.5	8.0	25.8	6.7	89.4	4.0	4.7	6.6	9.0	6.3				
							2	22.4	8.0	26.2	6.7	89.4	9.1	6.2							
									2	22.5	8.0	27.1	6.6	89.4	8.9	6.4					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
		IS(M)11	Cloudy	Moderate	8:23	10.8	Surface	1.0	1	22.5	8.0	25.4	6.7	89.4	5.5	6.2	6.6	9.2	5.5
									2	22.6	8.0	26.2	6.6	89.5	5.7	5.3			
							Middle	5.4	1	22.4	8.0	26.4	6.6	88.1	9.2	6.0			
									2	22.5	8.0	27.3	6.5	88.2	9.3	5.9			
							Bottom	9.8	1	22.3	8.0	27.0	6.5	87.7	12.1	4.8			
									2	22.4	8.0	27.9	6.5	88.2	13.1	4.9			
		IS(M)16	Cloudy	Moderate	8:39	5.6	Surface	1.0	1	22.5	8.0	26.0	6.7	89.5	3.8	6.4	6.7	4.2	5.5
									2	22.5	8.0	26.8	6.6	89.5	4.3	6.9			
							Bottom	4.6	1	22.3	8.0	26.6	6.6	88.4	4.2	4.2			
									2	22.4	8.0	27.5	6.6	88.6	4.6	4.6			
		SR4(N2)	Cloudy	Calm	8:55	3.9	Surface	1.0	1	22.5	8.0	26.0	6.7	89.3	5.7	7.0	6.7	5.7	6.9
									2	22.6	8.0	26.9	6.6	89.4	5.8	6.5			
							Bottom	2.9	1	22.5	8.0	26.1	6.6	89.1	5.6	7.2			
									2	22.6	8.0	26.9	6.6	89.3	5.8	7.0			
		SR4A	Cloudy	Calm	8:50	4.2	Surface	1.0	1	22.5	8.0	26.1	6.6	88.2	4.6	6.5	6.6	4.9	6.2
									2	22.6	8.0	27.0	6.5	88.2	4.8	6.2			
							Bottom	3.2	1	22.5	8.0	26.2	6.6	88.1	4.9	6.0			
									2	22.5	8.0	27.0	6.5	88.3	5.1	6.0			
		SR7	Cloudy	Moderate	8:15	4.2	Surface	1.0	1	22.4	8.0	25.6	6.6	88.6	6.3	5.7	6.6	9.2	5.9
									2	22.5	8.0	26.4	6.6	88.7	6.3	6.5			
							Bottom	3.2	1	22.3	8.0	26.6	6.5	87.7	11.9	5.2			
									2	22.4	8.0	27.5	6.5	87.8	12.4	6.1			
		SR8	Cloudy	Moderate	7:59	3.4	Surface	1.0	1	22.6	8.1	26.8	7.1	95.8	6.6	3.1	7.2	6.5	3.5
									2	21.5	8.0	27.2	7.2	95.3	6.3	2.7			
Bottom	2.4						1	22.4	8.1	27.6	7.0	94.5	6.2	3.6					
							2	21.3	8.0	27.9	7.1	94.2	6.9	4.4					
SR9	Cloudy	Moderate	8:13	3.3	Surface	1.0	1	22.5	8.1	27.7	7.0	95.0	5.0	7.6	7.1	5.0	6.9		
							2	21.4	8.0	28.0	7.1	94.5	6.2	7.9					
					Bottom	2.3	1	22.5	8.1	28.0	6.9	94.0	4.3	5.7					
							2	21.4	8.0	28.3	7.0	93.5	4.3	6.2					
SR10A(N)	Cloudy	Moderate	7:26	15.4	Surface	1.0	1	22.3	7.8	26.6	6.6	88.6	2.9	4.1	6.6	4.2	3.4		
							2	22.3	8.0	27.5	6.6	88.6	3.3	3.1					
					Middle	7.7	1	22.0	7.8	28.0	6.5	87.5	3.4	3.4					
							2	22.1	8.0	28.9	6.5	87.5	4.1	3.3					
					Bottom	14.4	1	21.8	7.8	28.8	6.4	86.7	5.7	2.9					
							2	21.9	8.0	29.8	6.4	86.8	5.9	3.7					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
31-03-20	Mid-Ebb	CS4	Rainy	Moderate	15:50	18.6	Surface	1.0	1	21.6	8.2	24.4	7.1	93.4	4.0	6.1	7.2	5.3	5.6
									2	20.4	8.1	24.7	7.3	93.3	4.0	7.1			
							Middle	9.3	1	21.7	8.1	25.3	7.1	93.6	4.2	4.4			
									2	20.6	8.1	25.6	7.2	93.6	4.2	5.3			
							Bottom	17.6	1	21.7	8.1	25.6	7.1	94.3	7.4	5.4			
									2	20.6	8.1	25.9	7.3	94.4	7.7	5.4			
		CS6	Rainy	Moderate	17:00	9.6	Surface	1.0	1	21.6	8.2	26.6	7.2	94.9	6.5	3.3	7.3	5.6	3.4
									2	20.5	8.1	26.9	7.3	94.5	7.0	2.5			
							Middle	4.8	1	21.6	8.2	26.6	7.2	95.1	3.9	3.7			
									2	20.5	8.1	26.9	7.3	94.7	3.4	2.8			
							Bottom	8.6	1	21.5	8.1	26.5	7.2	95.6	5.9	3.7			
									2	20.4	8.1	26.9	7.3	95.2	6.8	4.1			
		CS(Mf)3(N)	Rainy	Moderate	15:39	7.3	Surface	1.0	1	21.0	8.1	23.1	7.4	95.3	4.2	3.3	7.4	3.7	4.2
									2	20.0	8.1	23.3	7.5	95.2	4.2	3.9			
							Middle	3.7	1	20.7	8.1	22.1	7.3	92.4	3.0	4.0			
									2	19.5	8.1	22.4	7.5	92.6	3.4	4.9			
							Bottom	6.3	1	21.3	8.1	22.7	7.1	91.3	3.9	4.6			
									2	20.1	8.1	23.0	7.3	91.8	3.6	4.7			
		CS(Mf)5	Rainy	Moderate	16:57	12.1	Surface	1.0	1	21.7	8.0	25.3	6.9	90.6	3.3	4.0	6.7	3.8	5.1
									2	21.8	8.0	25.4	6.9	90.5	3.0	3.0			
							Middle	6.1	1	21.4	8.0	31.0	6.5	88.3	2.8	5.4			
									2	21.5	8.0	31.1	6.5	88.4	2.5	5.4			
							Bottom	11.1	1	21.4	8.0	31.8	6.5	88.0	5.3	6.0			
									2	21.4	8.0	31.8	6.5	88.3	5.8	7.0			
		IS8(N)	Rainy	Calm	15:48	4.4	Surface	1.0	1	21.7	7.8	25.1	6.5	86.2	7.7	9.4	6.6	7.2	10.4
									2	21.8	8.0	25.1	6.6	86.3	6.5	9.4			
							Bottom	3.4	1	21.7	7.8	27.6	6.5	86.1	7.8	11.7			
									2	21.8	8.0	27.6	6.5	86.7	6.7	11.0			
		IS12	Rainy	Moderate	16:10	14.7	Surface	1.0	1	21.6	8.2	25.4	7.2	95.0	5.0	2.0	7.3	5.0	4.0
									2	20.4	8.1	25.8	7.3	94.6	5.1	2.4			
							Middle	7.4	1	21.7	8.2	25.3	7.3	95.9	6.0	5.4			
									2	20.6	8.1	25.6	7.4	95.6	6.4	4.3			
							Bottom	13.7	1	21.6	8.2	25.5	7.3	96.7	3.7	4.5			
									2	20.5	8.1	25.8	7.5	96.4	4.0	5.3			
		IS13	Rainy	Moderate	16:16	10.7	Surface	1.0	1	21.6	8.2	26.6	7.2	94.8	3.4	2.3	7.3	3.8	3.0
									2	20.5	8.1	27.0	7.3	94.3	3.4	3.4			
							Middle	5.4	1	21.7	8.2	26.8	7.2	95.5	4.2	2.4			
									2	20.5	8.1	27.2	7.3	95.0	5.0	3.3			
							Bottom	9.7	1	21.6	8.2	26.6	7.3	96.7	3.2	2.9			
									2	20.5	8.1	26.9	7.4	96.7	3.5	3.9			
		IS14	Rainy	Moderate	16:03	14.5	Surface	1.0	1	21.6	8.2	24.7	7.2	94.5	3.7	3.0	7.3	3.8	3.0
									2	20.4	8.1	25.0	7.4	94.6	3.7	2.3			
							Middle	7.3	1	21.5	8.2	25.4	7.2	95.0	4.2	2.6			
									2	20.3	8.1	25.7	7.4	94.9	4.4	3.5			
							Bottom	13.5	1	21.6	8.2	25.4	7.2	94.4	3.6	2.8			
									2	20.5	8.1	25.7	7.3	94.2	3.4	3.6			
		IS15	Rainy	Moderate	16:23	10.4	Surface	1.0	1	21.6	8.2	26.4	7.2	95.5	6.2	2.3	7.3	4.4	3.1
									2	20.5	8.1	26.8	7.3	95.2	6.8	3.1			
							Middle	5.2	1	21.6	8.2	26.2	7.3	96.2	3.4	3.3			
									2	20.4	8.1	26.6	7.4	96.0	3.5	2.4			
							Bottom	9.4	1	21.5	8.2	27.4	7.3	96.9	3.2	3.8			
									2	20.4	8.1	27.7	7.4	96.9	3.0	3.5			
		IS17	Rainy	Moderate	16:18	6.9	Surface	1.0	1	21.7	7.9	24.3	6.9	90.2	3.5	4.4	6.8	4.5	5.0
									2	21.8	8.0	24.3	6.9	89.9	3.2	4.3			
							Middle	3.5	1	21.6	7.9	27.7	6.6	87.5	5.1	5.7			
									2	21.7	8.0	27.7	6.6	87.6	4.9	4.7			
							Bottom	5.9	1	21.6	7.9	29.2	6.5	87.7	5.4	5.3			
									2	21.6	8.0	29.2	6.5	87.9	5.1	5.8			
		IS(Mf)9	Rainy	Calm	15:40	3.2	Surface	1.0	1	21.8	7.8	24.4	6.9	90.7	4.4	5.5	6.9	3.9	5.0
									2	21.8	8.0	24.4	6.9	90.7	4.0	5.1			
							Bottom	2.2	1	21.8	7.8	24.7	6.8	89.5	3.8	4.6			
									2	21.8	8.0	24.8	6.8	89.2	3.2	4.7			
		IS(Mf)11	Rainy	Moderate	16:30	11.2	Surface	1.0	1	21.7	7.9	23.1	7.0	91.0	3.4	5.0	6.9	4.4	5.1
									2	21.8	8.0	23.1	7.0	91.0	3.0	5.4			
							Middle	5.6	1	21.7	7.9	24.4	6.8	89.1	5.5	4.8			
									2	21.8	8.0	24.5	6.8	89.0	4.5	5.0			
							Bottom	10.2	1	21.5	7.9	29.5	6.6	88.4	5.0	5.4			
									2	21.6	8.0	29.6	6.6	88.6	4.7	4.7			
		IS(Mf)16	Rainy	Calm	16:10	5.8	Surface	1.0	1	21.7	7.9	26.6	6.6	88.2	4.9	6.1	6.6	3.9	6.2
									2	21.8	8.0	26.7	6.6	88.3	4.6	6.5			
							Bottom	4.8	1	21.5	7.9	30.1	6.6	88.9	3.2	6.3			
									2	21.5	8.0	30.1	6.6	89.4	2.8	6.0			
		SR4(N2)	Rainy	Calm	15:54	4.1	Surface	1.0	1	21.7	7.8	25.4	6.3	83.6	6.9	10.5	6.3	6.7	9.5
									2	21.8	7.9	25.3	6.3	83.7	6.5	9.9			
							Bottom	3.1	1	21.8	7.8	26.4	6.4	84.6	7.4	8.9			
									2	21.8	7.9	26.4	6.4	84.7	6.1	8.7			
		SR4A	Rainy	Calm	15:59	4.9	Surface	1.0	1	21.8	7.9	25.7	6.5	85.8	4.7	6.0	6.5	5.3	5.5
									2	21.8	8.0	25.7	6.5	86.0	4.4	5.2			
							Bottom	3.9	1	21.7	7.9	27.4	6.5	86.0	6.7	5.8			
									2	21.8	8.0	27.4	6.5	86.7	5.5	4.8			

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
		SR7	Rainy	Moderate	16:37	4.3	Surface	1.0	1	21.7	7.9	24.4	7.0	91.8	2.6	5.6	7.0	2.6	5.5		
									2	21.8	8.0	24.4	7.0	91.9	2.2	6.5					
							Bottom	3.3	1	21.8	7.9	24.8	7.0	91.8	2.9	4.4					
									2	21.8	8.0	24.8	7.0	92.0	2.5	5.4					
		SR8	Rainy	Moderate	16:45	3.4	Surface	1.0	1	21.6	8.2	24.4	7.4	97.1	4.6	3.4	7.5	3.2	3.0		
									2	20.4	8.1	24.7	7.5	96.7	3.7	2.3					
							Bottom	2.4	1	21.5	8.2	24.3	7.5	97.4	2.1	3.7					
									2	20.3	8.1	24.6	7.6	97.5	2.3	2.7					
		SR9	Rainy	Moderate	16:30	3.1	Surface	1.0	1	21.4	8.2	24.5	7.4	96.1	2.5	3.3	7.5	2.7	3.1		
									2	20.2	8.1	24.8	7.5	95.8	3.1	2.4					
							Bottom	2.1	1	21.3	8.2	26.4	7.3	96.5	2.8	3.0					
									2	20.2	8.1	26.7	7.5	97.2	2.3	3.7					
		SR10A(N)	Rainy	Moderate	17:23	16.8	Surface	1.0	1	21.7	7.9	25.5	7.0	91.8	3.2	5.4	6.9	3.2	4.9		
									2	21.8	8.0	25.6	7.0	91.9	2.9	6.5					
							Middle	8.4	1	21.6	8.0	27.1	6.8	90.7	3.3	4.9					
									2	21.7	8.0	27.1	6.8	90.8	2.9	4.0					
							Bottom	15.8	1	21.5	8.0	30.0	6.6	89.3	3.1	4.6					
									2	21.6	8.0	30.0	6.6	89.6	3.7	3.7					
		31-03-20	Mid-Flood	CS4	Rainy	Moderate	10:04	18.4	Surface	1.0	1	21.8	8.1	21.8	7.2	93.5	3.8	3.5	7.3	4.9	3.5
											2	20.7	8.1	22.1	7.3	93.1	3.7	4.1			
Middle	9.2								1	21.6	8.1	21.5	7.2	92.6	5.2	3.2					
									2	20.5	8.1	21.8	7.3	91.5	5.6	3.4					
Bottom	17.4								1	21.4	8.0	22.7	7.1	92.0	4.9	3.1					
									2	20.4	8.1	22.9	7.1	89.7	5.9	3.6					
CS6	Rainy			Moderate	8:58	9.7	Surface	1.0	1	21.8	8.0	22.2	7.4	96.0	4.2	3.4	7.5	4.0	4.0		
									2	20.6	7.9	22.5	7.5	95.6	4.6	4.2					
							Middle	4.9	1	21.7	8.0	22.2	7.4	96.0	3.9	3.6					
									2	20.6	7.9	22.4	7.5	95.5	3.9	4.6					
				Bottom	8.7	1	21.7	8.0	22.0	7.4	95.9	3.5	3.6								
						2	20.6	7.9	22.2	7.5	95.4	3.6	4.7								
CS(Mf)3(N)	Rainy			Moderate	10:17	7.1	Surface	1.0	1	21.7	8.1	21.4	7.4	95.6	3.1	5.9	7.5	5.3	4.8		
									2	20.6	8.1	21.6	7.5	95.1	3.6	5.0					
							Middle	3.6	1	21.7	8.1	21.1	7.5	95.9	4.2	5.3					
									2	20.6	8.1	21.4	7.6	95.4	4.9	4.3					
							Bottom	6.1	1	21.6	8.1	21.1	7.5	96.3	7.6	4.6					
									2	20.5	8.1	21.4	7.7	96.3	8.3	3.7					
CS(Mf)5	Rainy			Moderate	9:09	12.6	Surface	1.0	1	21.8	7.9	24.4	6.8	88.8	3.9	3.8	6.7	5.0	5.0		
									2	21.9	8.0	24.4	6.8	88.9	3.5	4.3					
		Middle	6.3				1	21.6	7.9	28.8	6.5	87.3	3.5	5.1							
							2	21.7	8.0	28.8	6.5	87.5	3.2	5.8							
		Bottom	11.6	1	21.4	7.9	31.2	6.6	89.3	8.7	5.8										
				2	21.5	8.0	31.2	6.6	90.1	7.3	5.0										
IS8(N)	Rainy	Calm	10:22	4.1	Surface	1.0	1	21.9	7.9	22.1	6.9	89.9	3.9	7.4	6.9	4.6	5.8				
							2	21.9	8.0	22.4	6.9	89.8	3.6	6.9							
					Bottom	3.1	1	21.8	7.9	23.9	6.9	90.3	5.9	4.9							
							2	21.9	8.0	23.7	6.9	90.5	5.1	3.9							
IS12	Rainy	Moderate	9:43	14.6	Surface	1.0	1	21.9	8.1	22.4	7.1	91.7	5.2	4.0	7.1	6.8	4.2				
							2	20.7	8.1	22.7	7.2	91.7	5.4	3.2							
					Middle	7.3	1	21.8	8.1	22.5	6.9	90.0	8.1	4.9							
							2	20.7	8.1	22.8	7.0	89.5	8.9	4.4							
					Bottom	13.6	1	21.4	8.0	22.9	6.5	83.8	6.2	4.5							
							2	20.6	8.0	23.0	6.4	81.6	6.7	4.4							
IS13	Rainy	Moderate	9:38	10.7	Surface	1.0	1	21.8	8.1	23.1	7.1	92.1	5.5	3.1	7.1	4.6	4.0				
							2	20.6	8.1	23.4	7.2	92.1	4.4	3.3							
					Middle	5.4	1	21.8	8.1	23.1	7.0	91.0	5.7	2.5							
							2	20.6	8.1	23.6	7.2	91.5	4.7	3.3							
					Bottom	9.7	1	21.5	7.9	24.2	6.7	87.0	3.6	6.2							
							2	20.4	8.0	24.5	6.6	84.9	3.6	5.3							
IS14	Rainy	Moderate	9:49	14.3	Surface	1.0	1	21.8	8.1	25.0	7.2	94.7	2.8	3.5	7.3	3.4	3.8				
							2	20.7	8.1	25.3	7.3	94.3	3.0	4.7							
					Middle	7.2	1	21.8	8.1	24.9	7.2	95.1	3.4	4.3							
							2	20.6	8.1	25.2	7.3	94.6	4.1	3.2							
					Bottom	13.3	1	21.8	8.1	24.1	7.3	95.3	3.4	3.7							
							2	20.6	8.1	24.4	7.4	95.0	3.7	3.6							
IS15	Rainy	Moderate	9:31	10.5	Surface	1.0	1	21.8	8.1	26.0	7.2	95.2	3.0	4.3	7.3	3.9	4.5				
							2	20.7	8.1	26.3	7.3	94.9	3.7	4.0							
					Middle	5.3	1	21.8	8.1	26.2	7.2	95.7	4.2	4.2							
							2	20.7	8.1	26.5	7.3	95.4	4.5	3.2							
					Bottom	9.5	1	21.8	8.1	26.0	7.2	95.8	3.9	6.1							
							2	20.7	8.1	26.3	7.4	95.8	3.8	5.1							
IS17	Rainy	Moderate	9:48	8.6	Surface	1.0	1	21.8	7.9	23.9	6.9	89.8	4.6	4.0	6.9	4.6	4.6				
							2	21.9	8.0	23.9	6.9	89.8	4.3	4.9							
					Middle	4.3	1	21.8	7.9	24.0	6.9	89.8	5.3	4.1							
							2	21.8	8.0	24.1	6.9	89.9	5.0	4.2							
					Bottom	7.6	1	21.7	7.9	28.4	6.7	89.2	4.2	5.6							
							2	21.7	8.0	28.5	6.7	90.0	4.1	5.0							
IS(Mf)9	Rainy	Calm	10:29	3.1	Surface	1.0	1	21.8	7.9	23.6	6.8	89.2	4.7	4.8	6.8	6.1	5.4				
							2	21.9	8.0	23.6	6.8	89.3	4.3	5.7							
					Bottom	2.1	1	21.8	7.9	25.0	6.7	88.4	7.4	5.4							
							2	21.9	8.0	25.0	6.7	88.5	7.8	5.6							

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
		IS(M)11	Rainy	Moderate	9:39	10.7	Surface	1.0	1	21.8	8.0	22.6	7.0	90.3	4.3	4.3	6.7	8.6	4.4
								2	2	21.9	8.0	22.6	6.9	90.3	4.0	4.2			
								5.4	1	21.5	8.0	29.8	6.4	86.5	11.4	4.4			
									2	21.6	8.0	29.8	6.4	86.8	10.4	4.2			
								9.7	1	21.5	7.9	29.9	6.5	87.2	11.5	4.8			
									2	21.6	8.0	29.9	6.5	87.8	10.1	4.5			
		IS(M)16	Rainy	Moderate	9:56	5.8	Surface	1.0	1	21.8	7.9	23.9	6.9	89.9	5.1	6.8	6.9	8.1	6.0
								2	2	21.9	8.0	23.9	6.9	90.0	4.9	5.8			
								4.8	1	21.8	7.9	25.5	6.7	88.2	11.8	6.1			
									2	21.9	8.0	25.5	6.7	88.5	10.7	5.3			
								Surface	1	21.8	7.9	23.1	6.9	89.8	4.6	4.4			
									2	21.9	8.0	23.2	6.9	90.0	4.3	4.1			
		SR4(N2)	Rainy	Calm	10:15	3.7	Bottom	2.7	1	21.6	7.9	23.5	7.1	91.8	4.7	5.8	6.9	4.5	4.8
								2	2	21.6	8.0	23.6	7.1	92.5	4.3	4.9			
								Surface	1	21.7	7.9	23.5	6.7	87.5	4.6	4.2			
									2	21.8	8.0	23.5	6.7	87.4	4.3	5.3			
								3.7	1	21.7	7.9	24.0	6.7	87.0	5.2	3.7			
									2	21.8	8.0	24.0	6.7	87.2	4.2	4.1			
		SR4A	Rainy	Calm	10:08	4.7	Surface	1.0	1	21.7	7.9	23.5	6.7	87.5	4.6	4.2	6.7	4.6	4.3
								2	2	21.8	8.0	23.5	6.7	87.4	4.3	5.3			
								Bottom	1	21.7	7.9	24.0	6.7	87.0	5.2	3.7			
									2	21.8	8.0	24.0	6.7	87.2	4.2	4.1			
								Surface	1	21.9	7.9	23.0	6.8	88.7	4.9	4.6			
									2	22.0	8.0	23.0	6.8	88.8	4.6	4.1			
		SR7	Rainy	Moderate	9:32	4.2	Bottom	3.2	1	21.7	7.9	28.0	6.7	89.1	8.0	3.2	6.8	6.0	3.6
								2	2	21.7	8.0	27.9	6.7	89.5	6.6	2.4			
								Surface	1	21.8	8.1	24.0	7.4	96.7	3.3	3.6			
									2	20.7	8.1	23.8	7.5	96.1	3.5	4.2			
								2.6	1	21.8	8.1	23.9	7.4	96.9	3.4	3.8			
									2	20.6	8.1	24.2	7.5	96.3	3.5	3.0			
		SR8	Rainy	Moderate	9:08	3.6	Surface	1.0	1	21.8	8.1	24.0	7.4	96.7	3.3	3.6	7.5	3.4	3.7
								2	2	20.7	8.1	23.8	7.5	96.1	3.5	4.2			
								Bottom	1	21.8	8.1	23.9	7.4	96.9	3.4	3.8			
									2	20.6	8.1	24.2	7.5	96.3	3.5	3.0			
								Surface	1	21.6	8.1	23.5	7.4	96.6	4.1	4.3			
									2	20.5	8.1	24.0	7.5	96.2	5.0	4.2			
		SR9	Rainy	Moderate	9:24	3.2	Bottom	2.2	1	21.6	8.1	25.6	7.6	99.4	6.4	4.2	7.5	5.5	4.3
								2	2	20.5	8.1	25.9	7.7	99.1	6.5	4.5			
								Surface	1	21.7	7.7	27.1	6.8	90.7	1.9	4.0			
									2	21.8	7.9	27.1	6.8	90.5	1.9	3.2			
								8.2	1	21.5	7.8	31.8	6.5	88.7	1.9	2.8			
									2	21.6	7.9	31.8	6.5	88.8	2.3	2.3			
		SR10A(N)	Rainy	Moderate	8:24	16.3	Bottom	15.3	1	21.4	7.7	33.5	6.5	89.2	2.4	2.7	6.7	2.1	2.9
								2	2	21.4	7.9	33.5	6.5	89.2	2.1	2.2			

Appendix K

Event and Action Plan

Event and Action Plan for Impact Air Monitoring

	Action			
	ET (a)	IEC (a)	SOR (a)	Contractor(s)
Action Level Exceedance				
	<ol style="list-style-type: none"> 1. Identify the source. 2. Repeat measurement to confirm finding. If two consecutive measurements exceed Action Level, the exceedance is then confirmed. 3. Inform the IEC and the SOR. 4. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. 5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. 6. Discuss with the IEC and the Contractor on remedial actions required. 7. If exceedance continues, arrange meeting with the IEC and the SOR. 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice 2. Amend working methods if appropriate 3. If the exceedance is confirmed to be Project related, submit proposals for remedial actions to IEC within 3 working days of notification 4. Implement the agreed proposals 5. Amend proposal if appropriate

	Action			
	ET (a)	IEC (a)	SOR (a)	Contractor(s)
Limit Level Exceedance				
	<ol style="list-style-type: none"> 1. Identify the source. 2. Repeat measurement to confirm finding. If two consecutive measurements exceed Limit Level, the exceedance is then confirmed. 3. Inform the IEC, the SOR, the DEP and the Contractor. 4. Investigate the cause of exceedance and check Contractor’s working procedures to determine possible mitigation to be implemented. 5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. 6. Carry out analysis of the Contractor’s working procedures to determine possible mitigation to be implemented. 7. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. 8. Assess effectiveness of the Contractor’s remedial actions and keep the IEC, the DEP and the SOR informed of the results. 9. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor’s working method. 3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. If the exceedance is confirmed to be Project related after investigation, in consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal if appropriate. 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.

Note: (a) ET – Environmental Team; IEC – Independent Environmental Checker; SOR – Supervising Officer’s Representative

Event / Action Plan for Impact Dolphin Monitoring

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

EVENT	ACTION			
	ET	IEC	SOR	Contractor
	3. Identify source(s) of impact; 4. Inform the IEC, SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, 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.	Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly.	proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures.	potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Note: ET – Environmental Team, IEC – Independent Environmental Checker, SOR – Supervising Officer’s Representative

Appendix L

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

Table L1 *Cumulative Statistics on Exceedances*

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since Contract commencement
1-hr TSP	Action	1	106
	Limit	0	12
24-hr TSP	Action	0	10
	Limit	0	4
Water Quality	Action	0	167
	Limit	0	19
Impact Dolphin Monitoring	Action	0	11
	Limit	0	18

Table L2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (March 2020)	0	0	0
Total No. received since Contract commencement	17	1	0

**Email
message**

**Environmental
Resources
Management**

To Ramboll Hong Kong, Limited (ENPO)

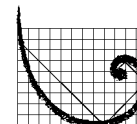
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 12 March 2020

2507, 25/F One Harbourfront
18 Tak Fung Street
Hung Hom, Kowloon
Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660



ERM

Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following
Log no.:

0212330_12March2020_1hrTSP_Station ASR5

One Action Level Exceedance was recorded on 12 March 2020.

Regards,

A handwritten signature in black ink that reads "Jasmine".

Dr Jasmine Ng
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
 TUEN MUN – CHEK LAP KOK LINK –
 NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
 Notification of Exceedance

Log No.	<u>Action Level Exceedance</u> 0212330_12March2020_1hrTSP_Station ASR5	
	[Total No. of Exceedances = 1]	
Date	13 March 2020 (Measured) 23 March 2020 (Laboratory results received by ERM)	
Monitoring Station	ASR5	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 ($356 \mu\text{g}/\text{m}^3$) during 0928 - 1028.	
Works Undertaken (at the time of monitoring event)	On 12 March 2020, Tunnel internal structure works were carried out on site.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to this Contract, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, only Tunnel internal structure works were carried out on site on 12 March 2020. • The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Contract site and associated works areas. • With reference to the recorded wind direction (ranged between 72° and 87°, blowing from a easterly direction) and wind speed (2.7 m/s) during the works period, Station ASR5 is located upstream to the construction works at the Tunnel, which is unlikely impacted by the construction works under this Project. <p>Based on the above, the exceedance is unlikely to be due to this Contract.</p>	

Actions Taken/ To Be Taken	The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Contract site throughout the construction period.
Remarks	The monitoring results, wind data and the locations of air quality monitoring stations are attached.

Air quality monitoring results on 12/3/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	8:49:00	1-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	9:51:00	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	10:53:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	8:37:00	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	9:39:00	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	10:41:00	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	8:03:00	1-hour TSP	19	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	9:05:00	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	10:07:00	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	8:26:00	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	9:28:00	1-hour TSP	356	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	10:30:00	1-hour TSP	221	ug/m3
TMCLKL	HY/2012/08	2020-03-12	AQMS1	Cloudy	11:55:00	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR1	Cloudy	11:43:00	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR10	Cloudy	11:09:00	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR5	Cloudy	11:32:00	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2020-03-12	ASR6	Cloudy	11:20:00	24-hour TSP	75	ug/m3

Action level exceedance

Limit level exceedance

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
20/03/12	0:00	2.2	38
20/03/12	1:00	2.7	63
20/03/12	2:00	4	91
20/03/12	3:00	3.6	74
20/03/12	4:00	2.7	79
20/03/12	5:00	2.7	73
20/03/12	6:00	2.2	70
20/03/12	7:00	2.7	61
20/03/12	8:00	2.2	72
20/03/12	9:00	2.7	72
20/03/12	10:00	2.7	87
20/03/12	11:00	2.2	76
20/03/12	12:00	1.8	70
20/03/12	13:00	0.9	36
20/03/12	14:00	0.9	99
20/03/12	15:00	0.9	60
20/03/12	16:00	1.3	39
20/03/12	17:00	1.3	49
20/03/12	18:00	1.3	56
20/03/12	19:00	1.3	56
20/03/12	20:00	0.9	39
20/03/12	21:00	1.3	34
20/03/12	22:00	0.9	41
20/03/12	23:00	1.3	29

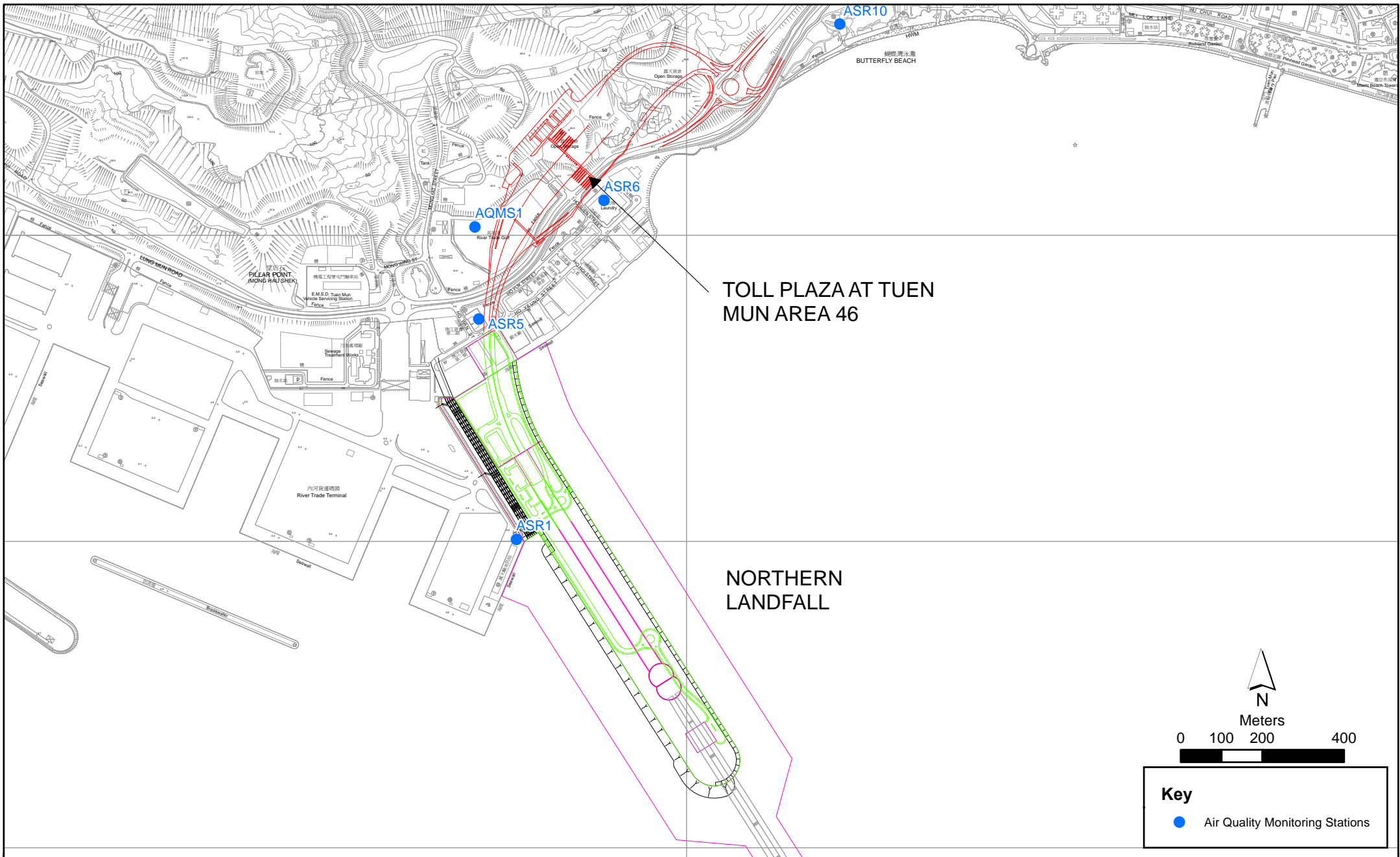


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

Site Location 地盤位置: Northern Landfall
Date 日期: 09 Mar 2020 to 至 15 Mar 2020

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45	✓	✓	✓	✓	✓	✓	✓
2	8:45 - 9:30	✓	✓	✓	✓	✓	✓	✓
3	9:30 - 10:15	✓	✓	✓	✓	✓	✓	✓
4	10:15 - 11:00	✓	✓	✓	✓	✓	✓	✓
5	11:00 - 11:45	✓	✓	✓	✓	✓	✓	✓
6	11:45 - 12:30	✓	✓	✓	✓	✓	✓	✓
7	12:30 - 13:15	✓	✓	✓	✓	✓	✓	✓
8	13:15 - 14:00	✓	✓	✓	✓	✓	✓	✓
9	14:00 - 14:45	✓	✓	✓	✓	✓	✓	✓
10	14:45 - 15:30	✓	✓	✓	✓	✓	✓	✓
11	15:30 - 16:45	✓	✓	✓	✓	✓	✓	✓
12	16:45 - 17:30	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認	子	子	子	子	子	子	子

Night shift 夜間工作 (if necessary 如需要)								
	17:30 - 19:00							
	19:00 - 20:30							
	20:30 - 22:00							
	22:00 - 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.15 條例, 在整個施工階段內, 許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

Appendix M

Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: HyD

Contract No. / Works Order No.: HY/2012/08

Monthly Summary Waste Flow Table for March 2020 [to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 3 decimal places.)

Month	Monthly Break-down of <u>Inert</u> Construction & Demolition Materials (i.e. Public Fill Materials)				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)
Sub-total	3008.822	0.000	336.902	889.467	1782.433
Jan-2020	174.69	0.000	0.000	0.000	174.69
Feb-2020	1.455	0.000	0.000	0.000	1.455
Mar-2020	3.252	0.000	0.000	0.000	3.252
Apr-2020					
May-2020					
Jun-2020					
Half Year Sub-total					
Jul-2020					
Aug-2020					
Sep-2020					
Oct-2020					
Nov-2020					
Dec-2020					
Project Total Quantities	3188.219	0.000	336.902	889.467	1961.83

Month	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly								
	Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	9890.77	9890.77	11.64	11.64	16.84	16.84	85.807	85.807	21.943
Jan-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
Feb-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.349
Mar-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.226
Apr-2020									
May-2020									
Jun-2020									
Half Year Sub-total									
Jul-2020									
Aug-2020									
Sep-2020									
Oct-2020									
Nov-2020									
Dec-2020									
Project Total Quantities	9890.77	9890.77	11.64	11.64	16.84	16.84	85.807	85.807	26.057

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*				
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)
3200.000	0.000	300.000	1000.000	2000.000

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*				
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 ton)
9500.00	15.00	15.00	80.00	30.000

- Notes:
- (1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).
 - (2) The waste flow table shall also include C&D materials to be imported for use at the Site.
 - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
 - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³. (**ER Part 8 Clause 8.8.5 (d) (ii)** refers).