

Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities Notifications of Environmental Quality Limits Exceedances <div>Notification No.: 307e</div>							
Date of Notification: 28 August 2024							
Works Inspected: Data collected from water sampling works on 21 August 2024 and the results were issued at 4:31 PM on 26 August 2024							
Monitoring Location: Water Quality Monitoring Stations (IS5, IS8(N), IS10(N), SR4(N3), SR5(N), SR10A(N), SR10B(N2) and IS(Mf)6)							
Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS) / Turbidity (TURB)							
Action & Limit Level (AL & LL) / Measured Level:							
PARAM	STATION	Level	Action Level (mg/L)	Limit Level (mg/L)	Measured At Mid-Ebb Tide (mg/L)		
DO (mg/L) (surface, middle and bottom)	IS5	Middle	Surface and Middle 5.0 (mg/L) Bottom 4.7 (mg/L)	Surface and Middle 4.2 except 5 for Fish Culture Zone Bottom 3.6(mg/L)	<i>5.0</i>		
		Surface			<i>5.0</i>		
DO (mg/L) (surface, middle and bottom)	IS8(N)	Surface			<i>5.0</i>		
(mg/L) (surface, middle and bottom)	IS10(N)	Surface			<i>4.9</i>		
		Middle			<i>4.9</i>		
DO (mg/L) (surface, middle and bottom)	SR4(N3)	Surface			<i>5.0</i>		
DO (mg/L) (surface, middle and bottom)	SR5(N)	Surface			<i>5.0</i>		
		Middle			<i>4.7, 4.8</i>		
		Bottom			<i>4.7</i>		
DO (mg/L) (surface, middle and bottom)	SR10A(N)	Middle			<i>4.9</i>		
DO (mg/L) (surface, middle and bottom)	SR10B(N2)	Middle			<i>5.0</i>		
DO (mg/L) (surface, middle and bottom)	IS(Mf)6	Surface			<i>5.0</i>		
Notes: DA means depth average. <i>Bold Italic</i> means AL exceedances. <i><u>Bold Italic with underline</u></i> means LL exceedances.							
Possible reason for Action or Limit Level Non-compliance: On 21 August 2024, exceedance of the AL at station IS5, IS8(N), IS10(N), SR4(N3), SR5(N), SR10A(N), SR10B(N2) and IS(Mf)6 were recorded during mid-ebb tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:							
1. No major marine works were carried out near the monitoring stations. Removal of temporary toe loading platform was being carried out within silt curtains within the limited shoreline area during the sampling period.							
2. The ranges of dissolved oxygen at stations IS5, IS8(N), IS10(N), SR4(N3), SR5(N), SR10A(N), SR10B(N2) and IS(Mf)6 during the baseline monitoring are shown as below.							
		Station	Range of Dissolved Oxygen Mid-Ebb Tide				
		IS5 (Surface)	5.2-10.6				
		IS5 (Middle)	3.8-8.6				
		IS8(N) (Surface)	4.9-8.6				
		IS10(N) (Surface)	5.1-7.3				

IS10(N) (Middle)	4.8-7.1
SR4(N3) (Surface)	4.5-7.4
SR5(N) (Surface)	5.1-7.3
SR5(N) (Middle)	6.8
SR5(N) (Bottom)	4.8-7.0
SR10A(N) (Middle)	4.8-8.3
SR10B(N2) (Middle)	5.5-6.4
IS(Mf)6 (Surface)	3.3-10.6

The measured DO levels during mid-ebb tide at stations IS5 (Middle), IS8(N), IS10(N) (Middle), SR4(N3), SR10A(N), and IS(Mf)6 were within the ranges of dissolved oxygen during baseline monitoring.

3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, natural fluctuation is considered to be attributed to low dissolved oxygen levels, rather than the contract works.

Actions taken/ to be taken:

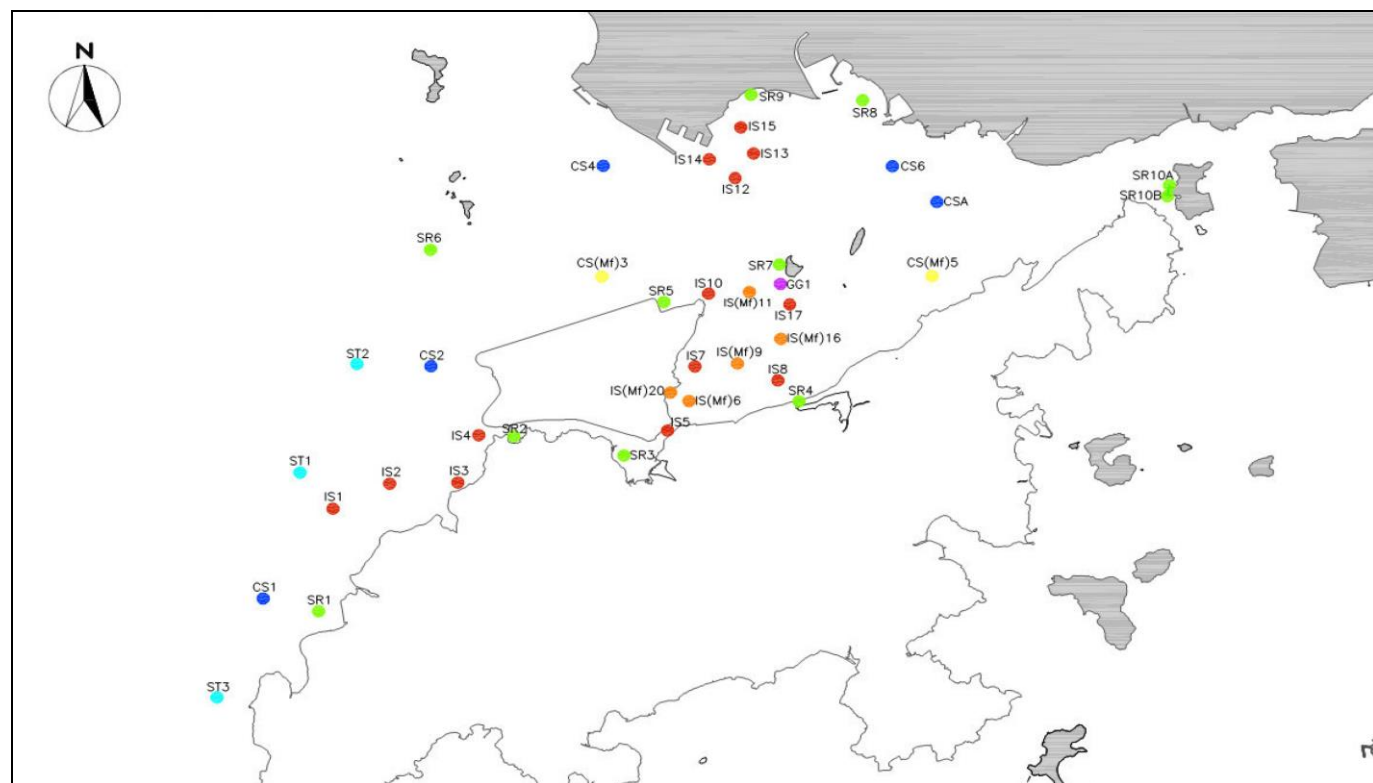
As the dissolved oxygen levels recorded beyond the water quality criteria were not related to contract works, no immediate actions are considered necessary.

Monitoring Photo Record





Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 28 August 2024

Copied to : Supervising Officer, IEC, EPD, Contractor

Contract No. HY/2011/03 -

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Investigation Report of Water Quality Exceedance(s)

Reporting Date	28 August 2024				
Date of Exceedance	21 August 2024				
Monitoring Location	Water Quality Monitoring Stations IS5, IS8(N), IS10(N), SR4(N3), SR5(N), SR10A(N), SR10B(N2) and IS(Mf)6				
Parameter	Dissolved Oxygen (DO)				
Action Levels	Surface and Middle: 5.0 (mg/L) Bottom 4.7 (mg/L)				
Limit Levels	Surface and Middle: 4.2 except 5 for Fish Culture Zone Bottom: 3.6(mg/L)				
Parameter	Station	Level	Action Level (mg/L)	Limit Level (mg/L)	Measured At Mid-Ebb Tide (mg/L)
DO (mg/L) (surface, middle and bottom)	IS5	Middle	Surface and Middle 5.0 (mg/L) Bottom 4.7 (mg/L)	Surface and Middle 4.2 except 5 for Fish Culture Zone Bottom 3.6(mg/L)	5.0
		Surface			5.0
DO (mg/L) (surface, middle and bottom)	IS8(N)	Surface			5.0
(mg/L) (surface, middle and bottom)	IS10(N)	Surface			4.9
		Middle			4.9
DO (mg/L) (surface, middle and bottom)	SR4(N3)	Surface			5.0
DO (mg/L) (surface, middle and bottom)	SR5(N)	Surface			5.0
		Middle			4.7, 4.8
		Bottom			4.7
DO (mg/L) (surface, middle and bottom)	SR10A(N)	Middle			4.9
DO (mg/L) (surface, middle and bottom)	SR10B(N2)	Middle			5.0
DO (mg/L) (surface, middle and bottom)	IS(Mf)6	Surface			5.0
Notes: DA means depth average. Bold Italic means AL exceedances. Bold Italic with underline means LL exceedances.					

Construction activities carried out during the investigation period:	According to the information provided by the Contractor, the construction works carried out within the site area include removal of temporary toe loading platform during the reporting month.
Possible reason for the exceedance	<p>According to observations during the on-site water quality measurement and site inspection during the reporting month, no project related construction activities was observed next to the water quality monitoring station with DO exceedances. Also, the measured DO levels during mid-ebb tide at stations IS5 (Middle), IS8(N), IS10(N) (Middle), SR4(N3), SR10A(N), and IS(Mf)6 were within the ranges of dissolved oxygen during baseline monitoring.</p> <p>Therefore, natural fluctuation is considered to be attributed to low dissolved oxygen levels, rather than the contract works.</p>
Action taken / to be taken	As the exceedance was non-project related, no further investigation and specific remedial measure(s) would be recommended.
Remarks	--

Site Observation Photos during Site Inspection on 23 August 2024





Water Quality Monitoring Photo Records on 21 August 2024





Summary of Notifications of Summons and Prosecutions

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