

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 Notification No.: 233 ver 2

Date of Notification: 22 February 2017

Works Inspected: Data collected from water sampling works on 15 February 2017 and the results were issued on 22 February 2017

Monitoring Location: Water Quality Monitoring Station

Parameter: Dissolved Oxygen (DO)/Suspended Solid (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR10B	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18 x 120% = 15.8 for mid ebb AND CS(Mf)5: 8.73 x 120% = 10.5 for mid flood)	34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18x 130% = 17.1 for mid ebb AND CS(Mf)5: 8.73 x 130% = 11.3 for mid flood)	27.8	18.1

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action and Limit Level Non-compliance:

On 15 February 2017, an Action Level exceedance of suspended solid was recorded at station SR10B during mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Removal of surcharge, box culvert construction at Zones 1 and 2, drilling of pipe pile at Zone 1, seawall construction at Zones 2 and 3A, and transportation of fill material on land at Zone 3A were carried out within the properly aligned silt curtain as recommended in the EIA Report.
2. Stockpiling of public fill materials was conducted on land at Work Area 7 (WA7). If there was suspended sediment plume at WA7 during mid-ebb tide, suspended solid will be generally carried to the downstream of work area instead of to the upstream (i.e. station SR10B). On the other hand, no muddy runoff was observed during the sampling exercise and bunding covered with geotextile has been constructed as control measures to prevent site runoff entering into marine water.
3. The ranges of suspended solid at station SR10B during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide	
SR10B	3.1	to 30.8	5.7	to 26.7

The measured value for mid-ebb tide at station SR10B was within the range of suspended solid for mid-ebb tide during baseline monitoring.

4. No marine transportation of fill material under this contract was conducted on that day.
5. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. No marine works were conducted near monitoring station SR10B.
6. No leakage of turbid water or any abnormality or malpractice for all contract works was observed during the sampling exercise.

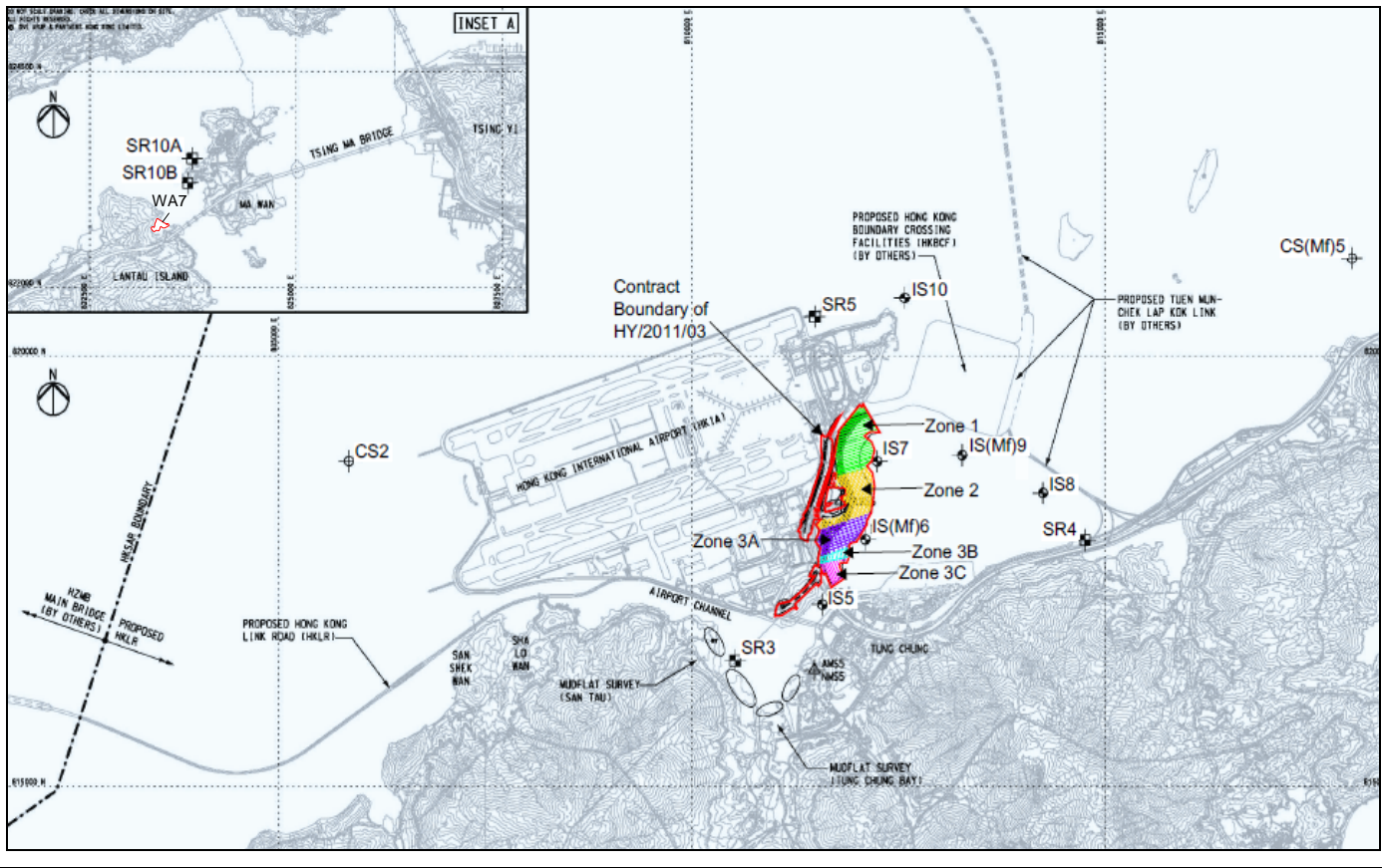
As such, the exceedance of suspended solid levels is considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria was not related to the contract works, no immediate actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained

throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 10 March 2017

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

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