

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.: 152

Date of Notification: 28 October 2013

Works Inspected: Data collected from water sampling works on 16 October 2013 and the test report was issued on 23 October 2013.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (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	IS(Mf)9	DA	<b>23.5</b> and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 5.07 x 120% = <b>6.1</b> mg/L for mid ebb) AND CS(Mf)5: 4.80 x 120% = <b>5.8</b> mg/L for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 5.07 x 130% = <b>6.6</b> mg/L for mid ebb) AND CS(Mf)5: 4.80 x 130% = <b>6.2</b> mg/L for mid flood)	16.5	<b><u>34.8</u></b>

Notes:

DA means depth average.

**Bold Italic** means AL exceedances.

**Bold Italic with underline** means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 16 October 2013, a LL exceedance at station IS(Mf) 9 was recorded during mid-flood tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Filling works at Zone 1, stone column installation at Zone 2 and unloading of fill materials on stone platform at Zone 3A were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS(Mf) 9 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
IS(Mf)9	5.5 to 20.1	7.3 to 26

The measured value at station IS(Mf) 9 was above the range of suspended solid during baseline monitoring for mid-flood tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results as water quality mitigation measures were implemented as recommended in the EIA Report.

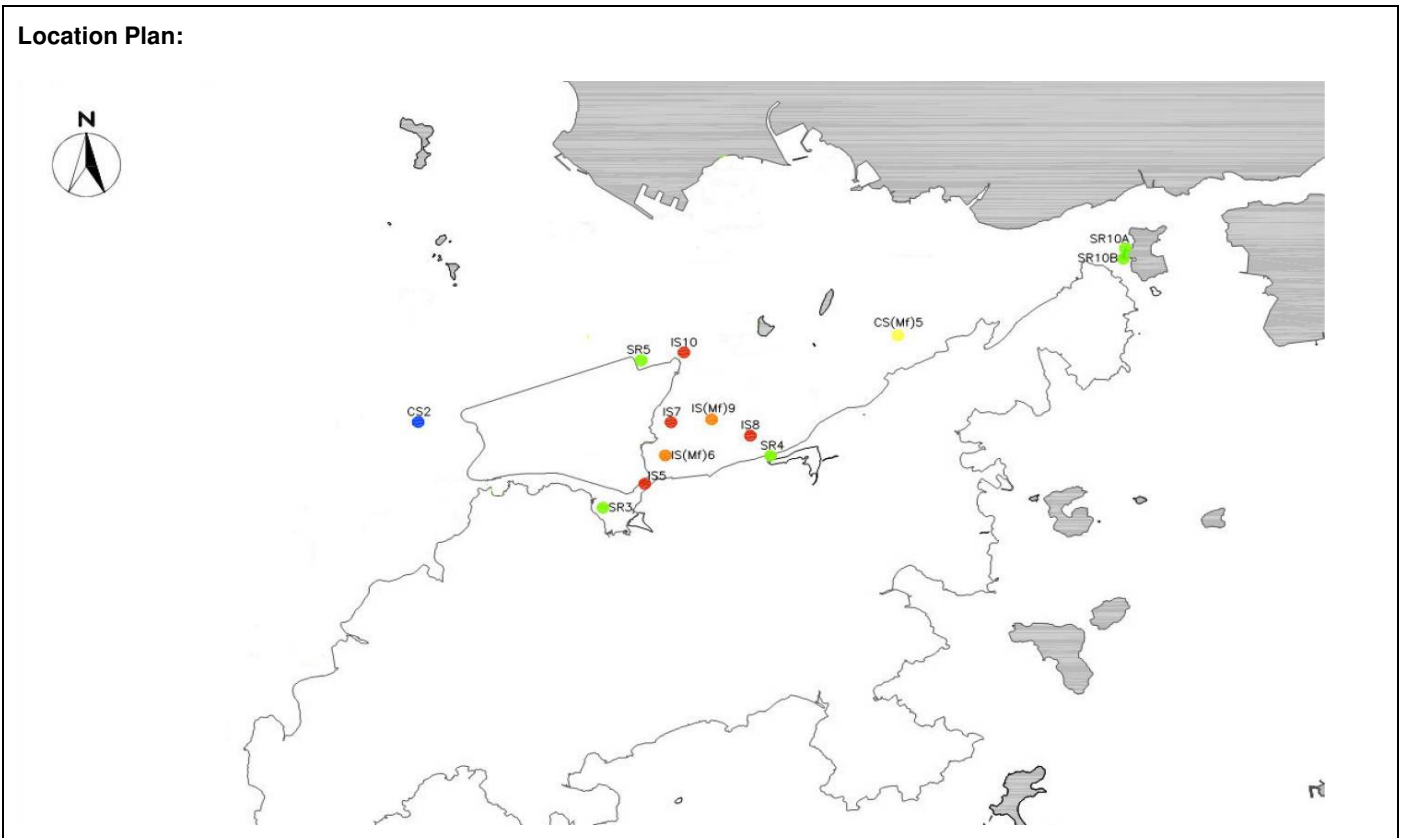
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.


As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

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

**Location Plan:**



Reviewed by : Claudine Lee  


Title : ET Leader

Date : 28 October 2013

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

**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.: 153 (ver1)

Date of Notification: 13 November 2013

**Works Inspected:** Data collected from water sampling works on 18 October 2013 and the test report was issued on 25 October 2013.

**Monitoring Location:** Water Quality Monitoring Stations

**Parameter:** Dissolved Oxygen (DO)/ Suspended Solids (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	IS7	DA	<b>23.5</b> and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.28 x 120% = <b>5.1</b> mg/L for mid ebb) AND CS(Mf)5: 3.13 x 120% = <b>3.8</b> mg/L for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.28 x 130% = <b>5.6</b> mg/L for mid ebb) AND CS(Mf)5: 3.13 x 130% = <b>4.1</b> mg/L for mid flood)	7.5	<b>24.1</b>

Notes:

DA means depth average.

***Bold Italic*** means AL exceedances.

***Bold Italic with underline*** means LL exceedances.

**Possible reason for Action or Limit Level Non-compliance:**

On 18 October 2013, an AL exceedance at station IS7 was recorded during mid-flood tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

- Stone column works/installation, filling and leveling of stone platform at Zone 2, stone column installation, sand filling, transfer of fill material, filling and leveling of stone platform at Zone 3A, and fill material transfer between barges at Zone 3C. Silt curtains are installed enclosing the filling activities and silt curtains are fully maintained throughout the works as recommended in the EIA Report. In addition, cover was placed between barges during transfer of fill material at Zone 3C.
- The ranges of suspended solid at station IS7 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
IS7	6.1 to 21	7.8 to 34

The measured value at station IS7 was within the range of suspended solid during baseline monitoring for mid-flood tide.

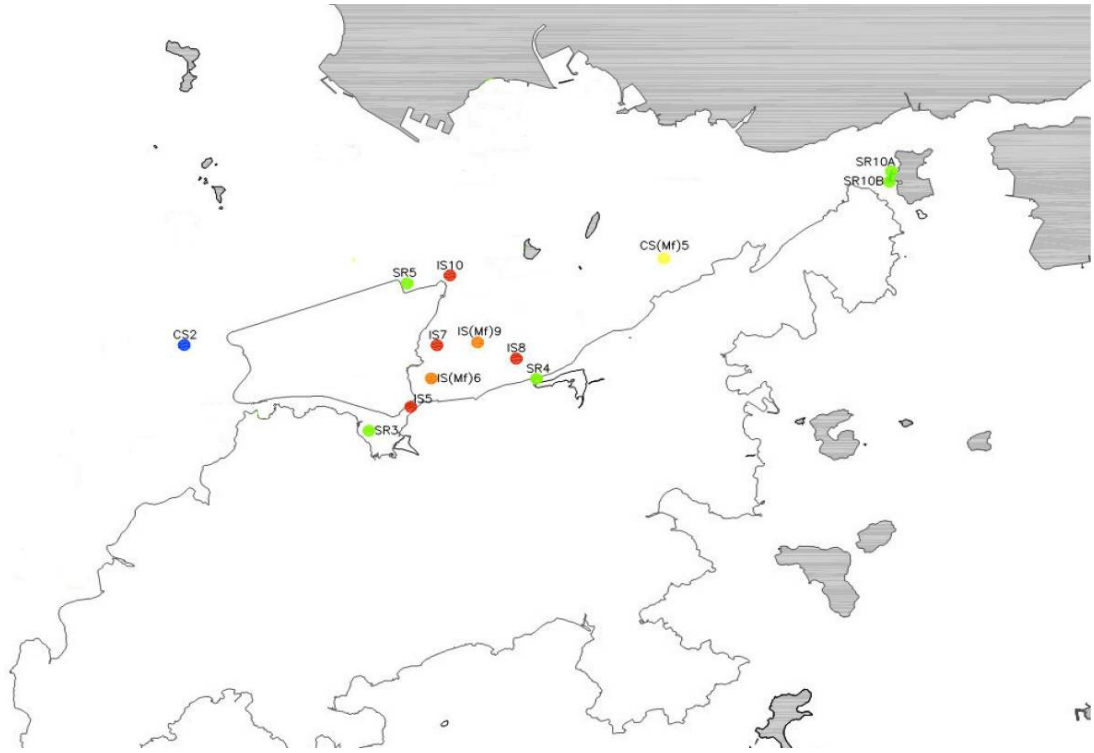
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contract works.

**Actions taken/ to be taken:**

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 13 November 2013

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

**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.: 154 (ver1)

Date of Notification: 13 November 2013

**Works Inspected:** Data collected from water sampling works on 25 October 2013 and the test report was issued on 1 November 2013.

**Monitoring Location:** Water Quality Monitoring Stations

**Parameter:** Dissolved Oxygen (DO)/ Suspended Solids (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	IS10	DA	<b>23.5</b> and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 14.20 x 120% = <b>17.0</b> mg/L for mid ebb) AND CS(Mf)5: 7.42 x 120% = <b>8.9</b> mg/L for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 14.20 x 130% = <b>18.5</b> mg/L for mid ebb) AND CS(Mf)5: 7.42 x 130% = <b>9.6</b> mg/L for mid flood)	17.5	<b><u>57.8</u></b>
SS	SR5	SS			18.4	<b><u>56.9</u></b>

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

**Possible reason for Action or Limit Level Non-compliance:**

On 25 October 2013, LL exceedances at stations IS10 and SR5 were recorded during mid-flood tide.

The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

- Filling and leveling of stone platform between Zone 1 and 2, stone column works and sand filling at Zone 2, stone column installation, fill material transfer and unloading of fill materials on stone platform at Zone 3A were carried within silt curtain as recommended in the EIA Report.
- The ranges of suspended solid at station IS10 and SR5 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	
IS10	6.1	to 20.2	7.2	to 16
SR5	6.7	to 16.5	6.5	to 31.2

The measured value at stations IS10 and SR5 were above the range of suspended solid during baseline monitoring for mid-flood tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

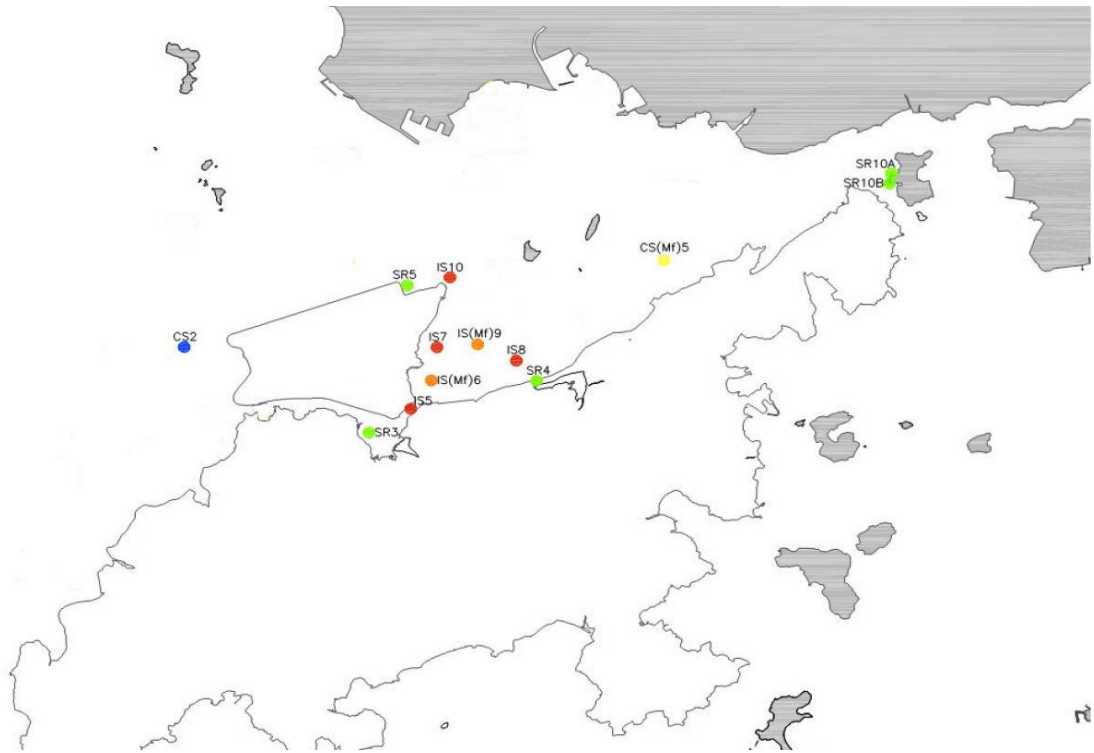
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contract works.

**Actions taken/ to be taken:**

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 13 November 2013

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