

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.: 199

Date of Notification: 19 December 2014

Works Inspected: Data collected from water sampling works on 5 December 2014 and the test report was issued on 12 December 2014.

Monitoring Location: Water Quality Monitoring Stations

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	IS(Mf)9	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 7.88 x 120% = 9.5 mg/L for mid ebb) AND CS(Mf)5: 7.73 x 120% = 9.3 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 7.88 x 130% = 10.2 mg/L for mid ebb) AND CS(Mf)5: 7.73 x 130% = 10.1 mg/L for mid flood)	<u>45.5</u>	9.5

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 5 December 2014, a LL exceedance of suspended solid at station IS(Mf)9 was recorded during the mid-ebb tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction works at Zones 1 and 2 were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations 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 26.0

The measured value at station IS(Mf)9 was above the range of suspended solid during baseline monitoring for the mid-ebb tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

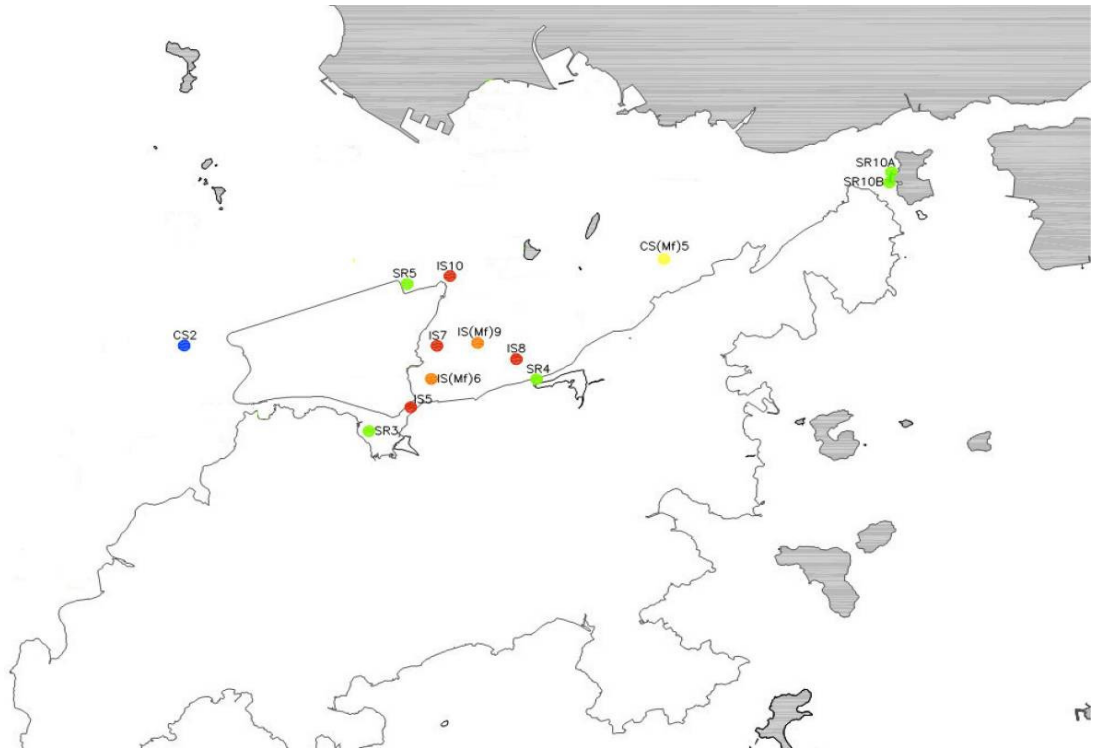
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels recorded at these stations 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 : 19 December 2014

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.: 200
Date of Notification: 12 January 2015					
Works Inspected: 24-hr TSP monitoring was undertaken on 16 December 2014 and the test report was issued on 23 December 2014.					
Monitoring Location: AMS6 – Dragonair Building (AMS6)					
Parameter: 24-hour TSP monitoring					
Action & Limit Level (AL & LL) / Measured Level:					
<u>PARAMETER</u>	<u>STATION</u>	<u>AL ($\mu\text{g}/\text{m}^3$)</u>	<u>LL ($\mu\text{g}/\text{m}^3$)</u>	<u>MEASURED LEVEL, $\mu\text{g}/\text{m}^3$</u>	
24-hr TSP (8:00 – 8:00 hours)	Dragonair Building (AMS6)	173	260	<i>218</i>	
Notes: <i>Bold Italic</i> means AL exceedance <i><u>Bold Italic with underline</u></i> means LL exceedance					
Possible reason for Action or Limit Level Non-compliance: An Action Level exceedance of 24-hr TSP level was recorded at AMS6, Dragonair Building, on 16 December 2014. According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period: <u>Zone 1</u> - Seawall construction. <u>Zone 2</u> - Seawall construction; and - Transfer of fill material. <u>Zone 3A</u> - Transfer of fill material. The Air Quality Health Index recorded by EPD at the Tung Chung station during the sampling period ranged from 4 (moderate) to 6 (moderate). According to information provided by the Contractor, fill materials were sprayed with water to maintain the entire surface wet before loading and unloading and haul roads/dusty surfaces were also sprayed with water. In addition, the measured 24-hour TSP level at AMS6 was $133 \mu\text{g}/\text{m}^3$ on 22 December 2014 which was below the action and limit levels. Therefore, the exceedance might be caused by the other factors and is unlikely to be related to construction activities of the Contract.					
Actions taken/ to be taken: As the 24-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. However, the Contractor is reminded to implement dust control measures throughout the construction phase.					

Reviewed by : Claudine Lee Title : ET Leader

 Date : 12 January 2015

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



Chek Lap Kok Ferry Pier
赤鱗角碼頭

Hong Kong International Airport
香港國際機場

AMS6

Zone 1
區域 1

Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

Scenic Hill
觀景山

Tung Chung Pier
東涌碼頭

Tung Chung New Town
東涌新市鎮



環境保護署

噪音管制監督

Environmental Protection Department Noise Control Authority

圖例 Legend



Zone 1
區域 1



Zone 2
區域 2



Zone 3A
區域 3A



Zone 3B
區域 3B



Zone 3C
區域 3C

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.: 201

Date of Notification: 2 February 2015

Works Inspected: Data collected from water sampling works on 12 January 2015 and the test report was issued on 19 January 2015.

Monitoring Location: Water Quality Monitoring Stations

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	IS(Mf)9	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 5.73 x 120% = 6.9 mg/L for mid ebb) AND CS(Mf)5: 3.53 x 120% = 4.2 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 5.73 x 130% = 7.5 mg/L for mid ebb) AND CS(Mf)5: 3.53 x 130% = 4.6 mg/L for mid flood)	4.7	24.4

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 12 January 2015, an AL exceedance of suspended solid at station IS(Mf)9 was recorded during the mid-flood tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction works at Zones 1 and 2 were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations 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 26.0

The measured value at station IS(Mf)9 was below the range of suspended solid during baseline monitoring for the mid-flood tide. There was no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

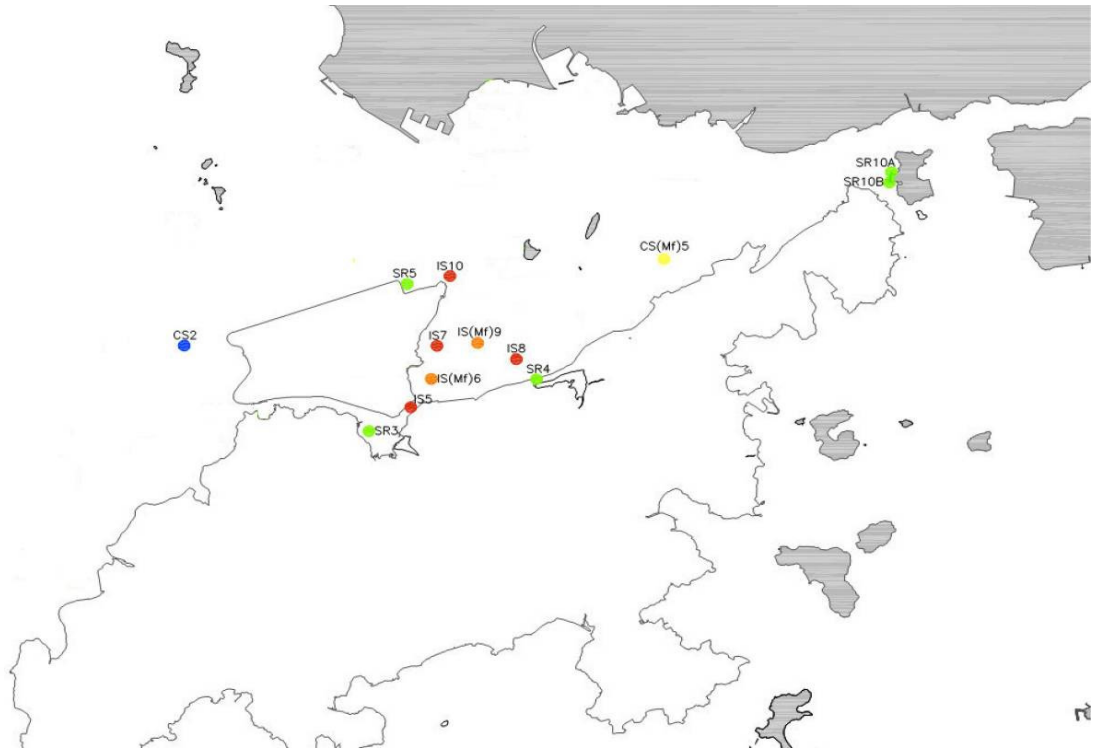
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels recorded at this station 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 : 2 February 2015

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.: 202
Date of Notification: 10 February 2015					
Works Inspected: 24-hr TSP monitoring was undertaken on 21 January 2015 and the test report was issued on 29 January 2015.					
Monitoring Location: AMS5 – Ma Wan Chung Village					
Parameter: 24-hour TSP monitoring					
Action & Limit Level (AL & LL) / Measured Level:					
<u>PARAMETER</u>	<u>STATION</u>	<u>AL ($\mu\text{g}/\text{m}^3$)</u>	<u>LL ($\mu\text{g}/\text{m}^3$)</u>	<u>MEASURED LEVEL, $\mu\text{g}/\text{m}^3$</u>	
24-hr TSP (8:00 – 8:00 hours)	Ma Wan Chung Village (AMS5)	164	260	189	
Notes: <i>Bold Italic</i> means AL exceedance <i><u>Bold Italic with underline</u></i> means LL exceedance					
Possible reason for Action or Limit Level Non-compliance: An Action Level exceedance of 24-hr TSP level was recorded at AMS5, Ma Wan Chung Village, on 21 January 2015. According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period: <u>Zone 1</u> - Seawall construction works <u>Zone 3A</u> - Seawall construction works The general weather condition at Tung Chun was foggy during the dust sampling period. The Air Quality Health Index recorded by EPD at the Tung Chung station during the sampling period ranged from 4 (moderate) to 10+ (serious). The measured 24-hour TSP level at AMS5 was $57 \mu\text{g}/\text{m}^3$ on 27 January 2015 which was below the action and limit levels. Therefore, it is considered that the exceedance on 21 January 2015 was not related to the construction activities of the Contract and was caused by poor weather condition.					
Actions taken/ to be taken: As the 24-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. However, the Contractor is reminded to implement dust control measures throughout the construction phase.					

Reviewed by : Claudine Lee Title : ET Leader


Date : 10 February 2015

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



Chek Lap Kok Ferry Pier
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Zone 1
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Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

Scenic Hill
觀景山

Tung Chung Pier
東涌碼頭

AMS5

Tung Chung New Town
東涌新市鎮



環境保護署

噪音管制監督

Environmental Protection Department Noise Control Authority

圖例 Legend



Zone 1
區域 1

Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

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.: 203
Date of Notification: 10 February 2015					
Works Inspected: 24-hr TSP monitoring was undertaken on 21 January 2015 and the test report was issued on 29 January 2015.					
Monitoring Location: AMS6 – Dragon Air Building					
Parameter: 24-hour TSP monitoring					
Action & Limit Level (AL & LL) / Measured Level:					
<u>PARAMETER</u>	<u>STATION</u>	<u>AL ($\mu\text{g}/\text{m}^3$)</u>	<u>LL ($\mu\text{g}/\text{m}^3$)</u>	<u>MEASURED LEVEL, $\mu\text{g}/\text{m}^3$</u>	
24-hr TSP (8:00 – 8:00 hours)	Dragon Air Building (AMS6)	173	260	212	
Notes: <i>Bold Italic</i> means AL exceedance <i><u>Bold Italic with underline</u></i> means LL exceedance					
Possible reason for Action or Limit Level Non-compliance: An Action Level exceedance of 24-hr TSP level was recorded at AMS6, Dragon Air Building, on 21 January 2015. According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period: <u>Zone 1</u> - Seawall construction works <u>Zone 3A</u> - Seawall construction works					
The general weather condition at Tung Chun was foggy during the dust sampling period. The Air Quality Health Index recorded by EPD at the Tung Chung station during the sampling period ranged from 4 (moderate) to 10+ (serious). The measured 24-hour TSP level at AMS6 was $77 \mu\text{g}/\text{m}^3$ on 27 January 2015 which was below the action and limit levels. Therefore, it is considered that the exceedance on 21 January 2015 was not related to the construction activities of the Contract and was caused by poor weather condition.					
Actions taken/ to be taken: As the 24-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. However, the Contractor is reminded to implement dust control measures throughout the construction phase.					

Reviewed by : Claudine Lee Title : ET Leader


 Date : 10 February 2015

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



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AMS6

Zone 1
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區域 3A

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環境保護署

噪音管制監督

Environmental Protection Department Noise Control Authority

圖例 Legend



Zone 1
區域 1



Zone 2
區域 2



Zone 3A
區域 3A



Zone 3B
區域 3B



Zone 3C
區域 3C

**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.: 204

Date of Notification: 10 February 2015

Works Inspected: Data collected from water sampling works on 21 January 2015 and the test report was issued on 28 January 2015.

Monitoring Location: Water Quality Monitoring Stations

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	SR5	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 12.88 x 120% = 15.5 mg/L for mid ebb) AND CS(Mf)5: 7.3 x 120% = 8.8 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 12.88 x 130% = 16.7 mg/L for mid ebb) AND CS(Mf)5: 7.30 x 130% = 9.5 mg/L for mid flood)	9.6	29.2
SS	IS10	DA			9.2	28.6

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 21 January 2015, AL exceedances of suspended solid at stations SR5 and IS10 were recorded during the mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction works at Zones 1 and 3A were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations SR5 and IS10 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	
SR5	6.7	to	16.5	6.5 to 31.2
IS10	6.1	to	20.2	7.2 to 16

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

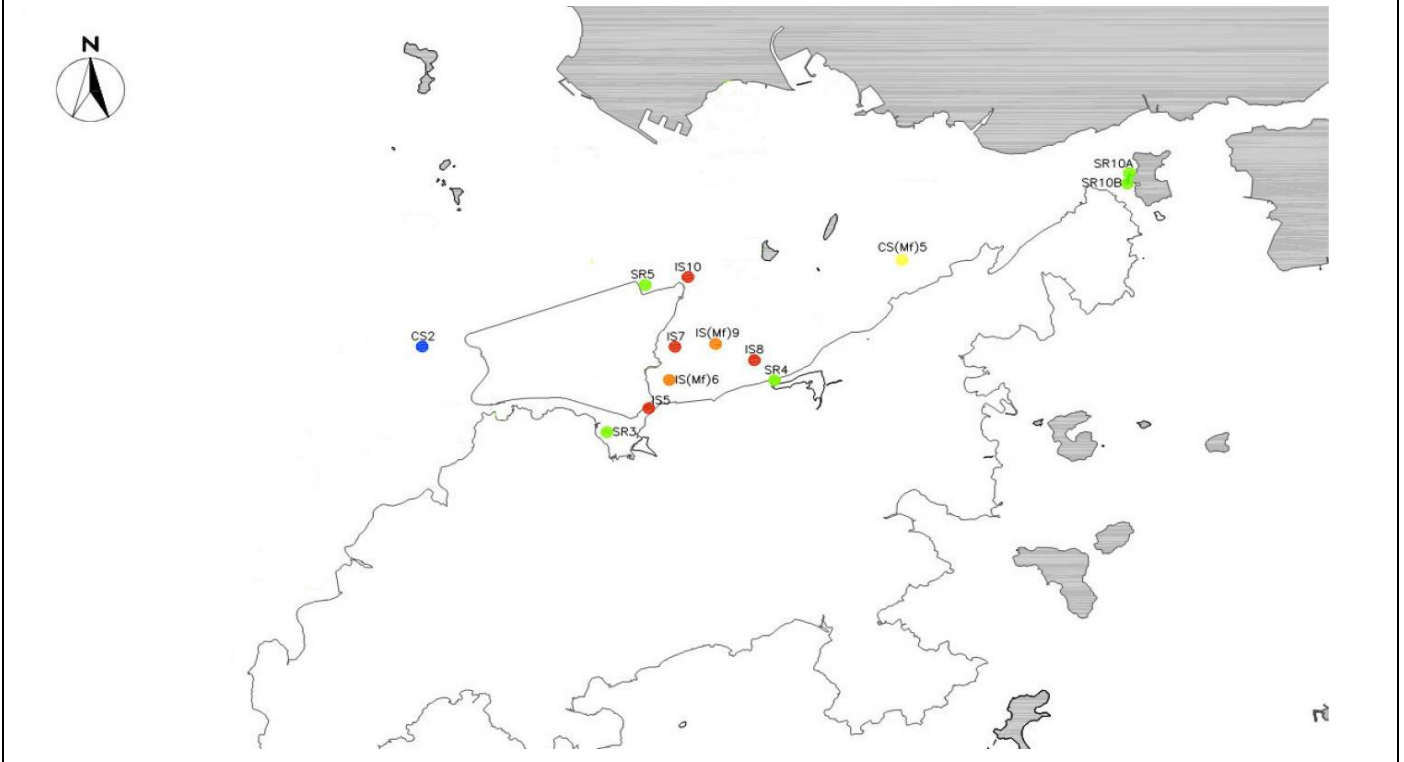
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels recorded at this station 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 : 10 February 2015

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.: 205

Date of Notification: 10 February 2015

Works Inspected: Data collected from water sampling works on 23 January 2015 and the test report was issued on 29 January 2015.

Monitoring Location: Water Quality Monitoring Stations

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	SR5	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 8.77 x 120% = 10.5 mg/L for mid ebb) AND CS(Mf)5: 5.95 x 120% = 7.1 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 8.77 x 130% = 11.4 mg/L for mid ebb) AND CS(Mf)5: 5.95 x 130% = 7.7 mg/L for mid flood)	10.5	25.7
SS	SR10A	DA			7.2	<u>35.1</u>

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 23 January 2015, an AL exceedance of suspended solid at station SR5 and a LL exceedance of suspended solid at station SR10A were recorded during the mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction works at Zones 1 and 2 were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations SR5 and SR10A 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
SR5	6.7 to 16.5	6.5 to 31.2
SR10A	3.6 to 17	4.8 to 19.2

The measured value at station SR5 was below the range of suspended solid during baseline monitoring for the mid-flood tide. The measured value at station SR10A was above the range of suspended solid during baseline monitoring for the mid-flood tide. However, there was no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

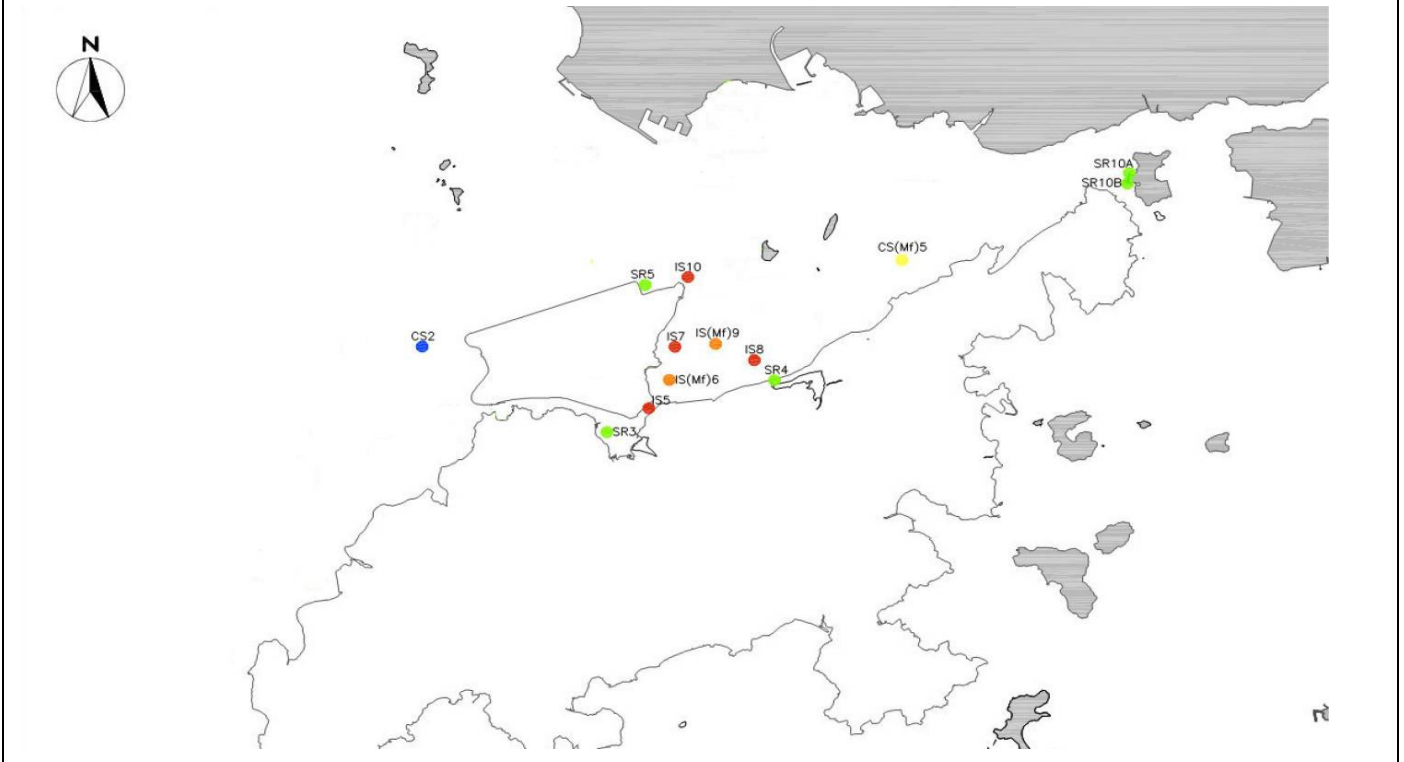
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels recorded at this station 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 : 10 February 2015

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.: 206

Date of Notification: 10 February 2015

Works Inspected: Data collected from water sampling works on 26 January 2015 and the test report was issued on 2 February 2015.

Monitoring Location: Water Quality Monitoring Stations

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	IS5	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.45 x 120% = 5.3 mg/L for mid ebb) AND CS(Mf)5: 3.22 x 120% = 3.9 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.45 x 130% = 5.8 mg/L for mid ebb) AND CS(Mf)5: 3.22 x 130% = 4.2 mg/L for mid flood)	25.8	9.6

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 26 January 2015, an AL exceedance of suspended solid at station IS5 was recorded during the mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction works at Zones 1 and 2 were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS5 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
IS5	8.1 to 25.7	7 to 23.7

The measured value at station IS5 was slightly above the range of suspended solid during baseline monitoring for the mid-ebb tide. However, there was no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

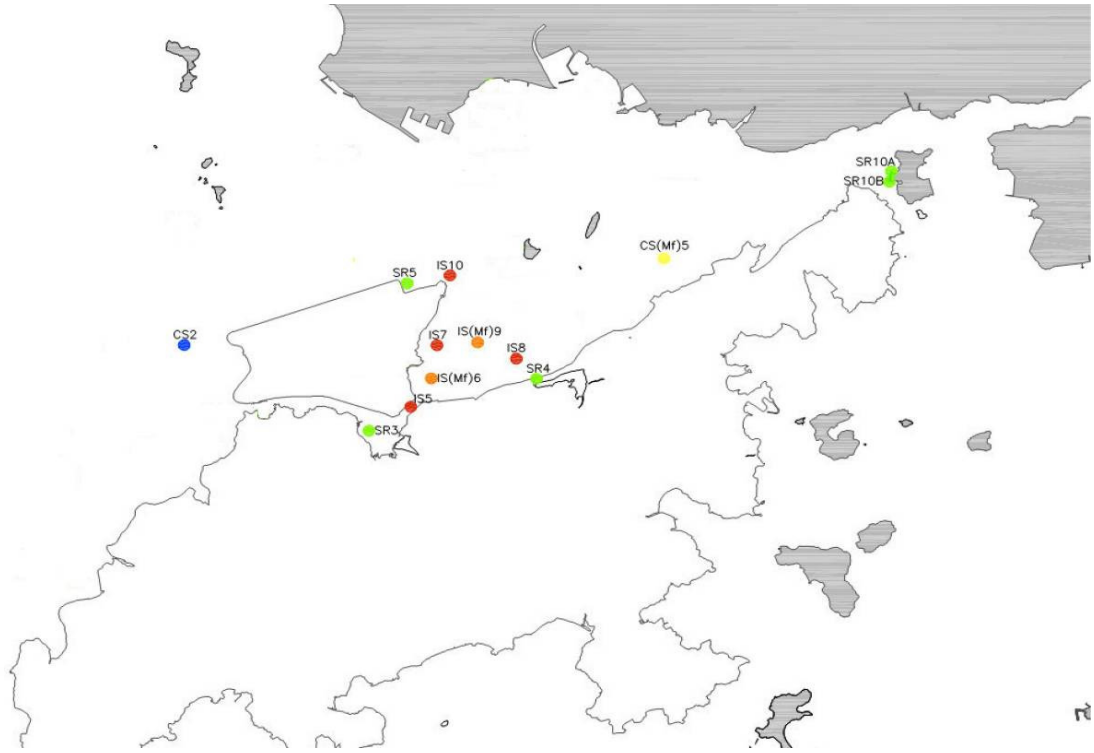
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels recorded at this station 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 : 10 February 2015

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.: 207 ver1

Date of Notification: 19 June 2015

Works Inspected: Not Applicable

Monitoring Location: NEL & NWL

Parameter: Ecology (Chinese White Dolphin Monitoring)

Action & Limit Levels		Monitoring Results
	North Lantau Social Cluster	
	Action Level (AL)	Limit Level (LL)
		The quarter of December 2014 - February 2015
Northeast Lantau (NEL)	STG < 4.2 & ANI < 15.4	<u>STG = 0; ANI = 0</u>
Northwest Lantau (NWL)	STG < 6.9 & ANI < 31.3	<u>STG = 2.91; ANI = 11.27</u>

Notes:

- STG means quarterly encounter rate of number of dolphin sightings.
- ANI means quarterly encounter rate of total number of dolphins.
- For North Lantau Social Cluster, AL will be triggered if either NEL or NWL falls below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.
- Bold Italic*** means AL exceedances.
- Bold Italic with underline*** means LL exceedances

Possible reason for Limit Level Non-compliance:

According to the contractor's information, the marine activities undertaken for HKLR03 during the quarter of December 2014 to February 2015 included reclamation, excavation of stone platform, surcharge activities, construction of seawall, temporary drainage diversion and ground investigation.

There is no evidence showing the current LL non-compliance directly related to the construction works of HKLR03 (where the amounts of working vessels for HKLR03 have been decreasing), although the generally increased amount of vessel traffic in NEL during the impact phase October 2012. It should also be noted that reclamation work under HKLR03 (adjoining the Airport Island) situates in waters which has rarely been used by dolphins in the past, and the working vessels under HKLR03 have been travelling from source to destination in accordance with the Marine Travel Route to minimize impacts on Chinese White Dolphin. In addition, the contractor will implement proactive mitigation measures such as avoiding anchoring at Marine Department's designated anchorage site – Sham Shui Kok Anchorage (near Brothers Island) as far as practicable.

Actions taken/ to be taken:

Inform the IEC, ER/SOR and Contractor

The ETL informed IEC, ENPO, SOR and Contractor via email on 4 March 2015.

Repeat statistical data analysis to confirm findings and check monitoring data:

A two-way ANOVA with repeated measures and unequal sample size was conducted to examine whether there were any significant differences in the average encounter rates between the baseline and impact monitoring periods. The two variables that were examined included the two periods (baseline and impact phases) and two locations (NEL and NWL).

For the comparison between the baseline period and the present quarter (ninth quarter of the impact phase), the p-value for the differences in average dolphin encounter rates of STG and ANI were 0.0059 and 0.0330 respectively. If the alpha value is set at 0.05, significant difference was detected between the baseline and present quarters in both encounter rates of STG and ANI.

For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. first nine quarters of the impact phase), the p-value for the differences in average dolphin encounter rates of STG and ANI were 0.0009 and 0.0003 respectively. Even if the alpha value is set at 0.01, significant difference was detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).

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:

The AFCD monitoring data during December 2014 to February 2015 has been reviewed by the dolphin specialist, and no dolphin was sighted from 103.64 km of survey effort on primary lines in NEL during the same quarter. This review has confirmed that the extremely low occurrence of dolphins reported by the HKLR03 monitoring survey in winter 2014-15 in NEL is accurate.

Identify source(s) of impact:

There is no evidence showing that the sources of impact directly related to the construction works of HKLR03 that may have affected the dolphin usage in the NEL region.

Recommendations/ mitigation measures/ actions if necessary:

Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary:

All dolphin protective measures are fully and properly implemented in accordance with the EM&A Manual. According to the Marine Travel Route Plan, if vessels are crossing along edge of the proposed marine park, the travelling speed will keep not exceeding 5 knots when crossing the edge of the proposed marine park. The Contractor will continue to provide training for skippers to ensure that their working vessels travel from source to destination to minimize impacts on Chinese White Dolphin and avoid anchoring at Marine Department's designated anchorage site - Sham Shui Kok Anchorage (near Brothers Island) as far as practicable. Also, it is recommended to complete the marine works of the Contract as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible.

A meeting was held on 27 April 2015 with attendance of ENPO, Resident Site Staff (RSS), Environmental Team (ET) and dolphin specialist for Contract No. HY/2010/02, RSS, ET, dolphin specialist and main Contractor for Contract No. HY/2011/03. The discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to HKLR03 Contract are summarized below.

It was concluded that the HZMB works is one of the contributing factors affecting the dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or individual marine contracts) cannot be quantified nor separate from the other stress factors.

It was reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures were fully implemented.

It was recommended that the marine works of HZMB projects should be completed as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible.

It was also recommended that the marine works footprint (e.g., reduce the size of peripheral silt curtain) and vessels for the marine works should be reduced as much as possible, and vessels idling / mooring in other part of the North Lantau shall be avoided whenever possible.

It was suggested that the protection measures (e.g., speed limit control) for the proposed Brothers Island Marine Park (BMP) shall be brought forward as soon as possible before its establishment so as to provide a better habitat for dolphin recovery. It was noted that under the Regular Marine Travel Route Plan, the contractors have committed to reduce the vessel speed in BMP.

Reviewed by : Claudine Lee Title : ET Leader


Copied to : Supervising Officer, ENPO, IEC, EPD, Contractor Date : 19 June 2015

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