**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.: 015

**Date of Notification:** 7 November 2012

**Works Inspected:** Data collected from water sampling works on 1 November 2012 and results were issued on 2 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.7 x 120% =**12.8** for mid flood on 1-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.7 x 130% =**13.9** for mid flood on 1-Nov-2012) | 17.8 | ***13.2*** |
| TURB | IS(Mf)6 | DA | | | 17.5 | ***12.9*** |
| TURB | IS7 | DA | | | 5.3 | ***16.5*** |
| TURB | IS8 | DA | | | 13.8 | ***23.1*** |
| TURB | IS(Mf)9 | DA | | | 7.6 | ***18.8*** |
| TURB | SR4 | DA | | | 11.4 | ***25.0*** |
| TURB | SR10B | DA | | | 7.4 | ***13.0*** |

Notes: ***Bold Italic*** means AL exceedance
***Bold Italic with underline*** means LL exceedance

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

On 1 November 2012, exceedances of the AL at stations IS5, IS(Mf)6 and SR10B and exceedances of LL at stations IS7, IS8, IS(Mf)9 and SR4 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 reason:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 and SR10B during the baseline monitoring are shown as below:

| Station | Range of Turbidity(NTU) | | |
|---|---|---|---|
| IS5 | 5.3 | to | 20.9 |
| IS(Mf)6 | 5.3 | to | 20.9 |
| IS7 | 5.0 | to | 19.4 |
| IS8 | 4.5 | to | 24.5 |
| IS(Mf)9 | 3.4 | to | 22.6 |
| SR4 | 5.0 | to | 20.6 |
| SR10B | 1.7 | to | 13.2 |

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 and SR10B were within the ranges of turbidity during baseline monitoring. SR4 is located at the upstream of the contact site area during the mid-flood tide. The high level of SS is not likely to be caused by the contract construction activities

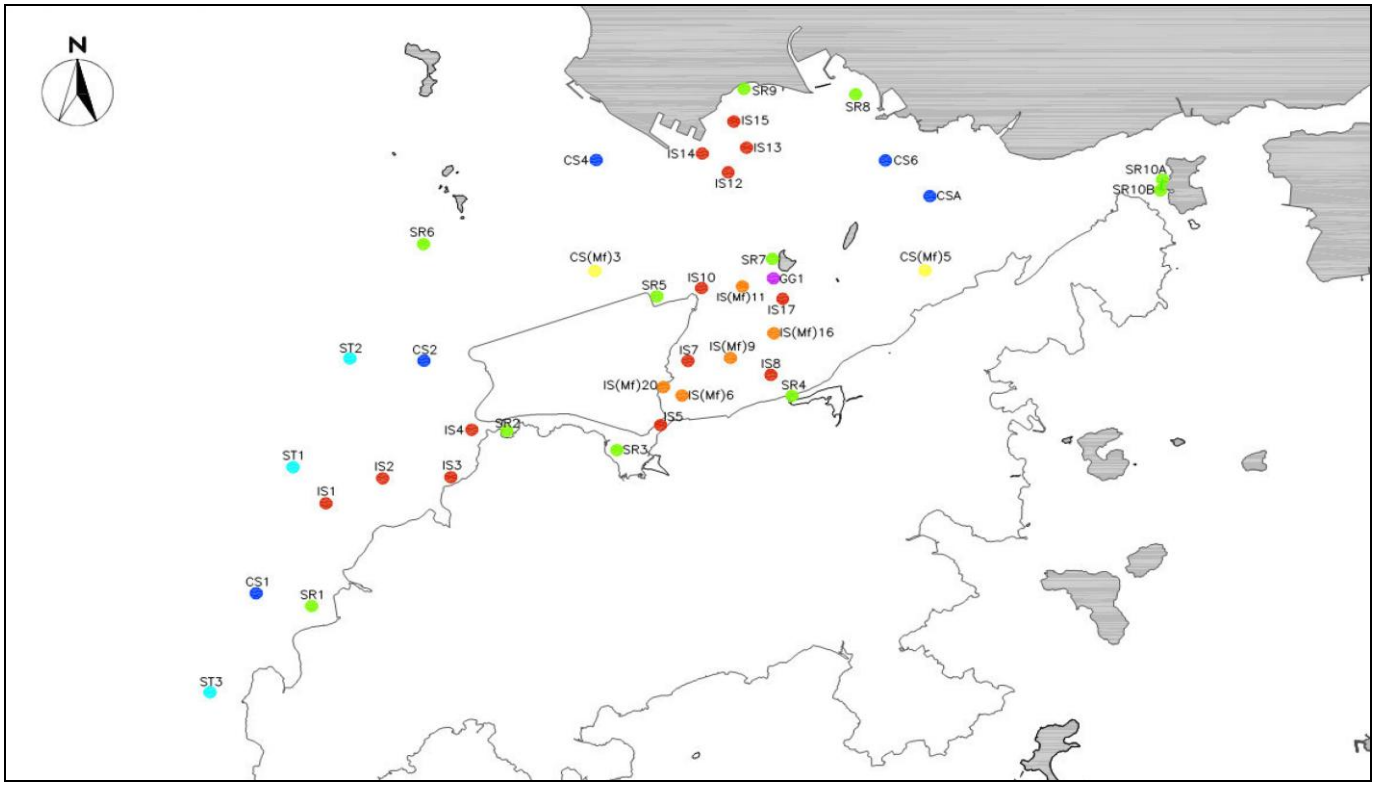
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity level is considered to be attributed to other external factors, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 7 November 2012

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**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.: 016a

**Date of Notification:** 20 November 2012

**Works Inspected:** Data collected from water sampling works on 5 November 2012 and the results were issued on 6 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 7.6 x 120% =**9.1** for mid flood on 5-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 7.55 x 130% =**9.8** for mid flood on 5-Nov-2012) | 13.8 | ***13.5*** |
| TURB | IS(Mf)6 | DA | | | 6.6 | ***13.9*** |
| TURB | SR3 | DA | | | 6.9 | ***11.2*** |

Notes: ***Bold Italic*** means AL exceedance
***Bold Italic with underline*** means LL exceedance

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

On 5 November 2012, exceedances of the LL at stations IS5, IS(Mf)6 and SR3 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 reason:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6 and SR3 during the baseline monitoring are shown as below:

| Station | Range of Turbidity(NTU) Mid-Flood Tide | | |
|---|---|---|---|
| IS5 | 5.7 | to | 21.4 |
| IS(Mf)6 | 5.3 | to | 20.9 |
| SR3 | 7.7 | to | 19.7 |

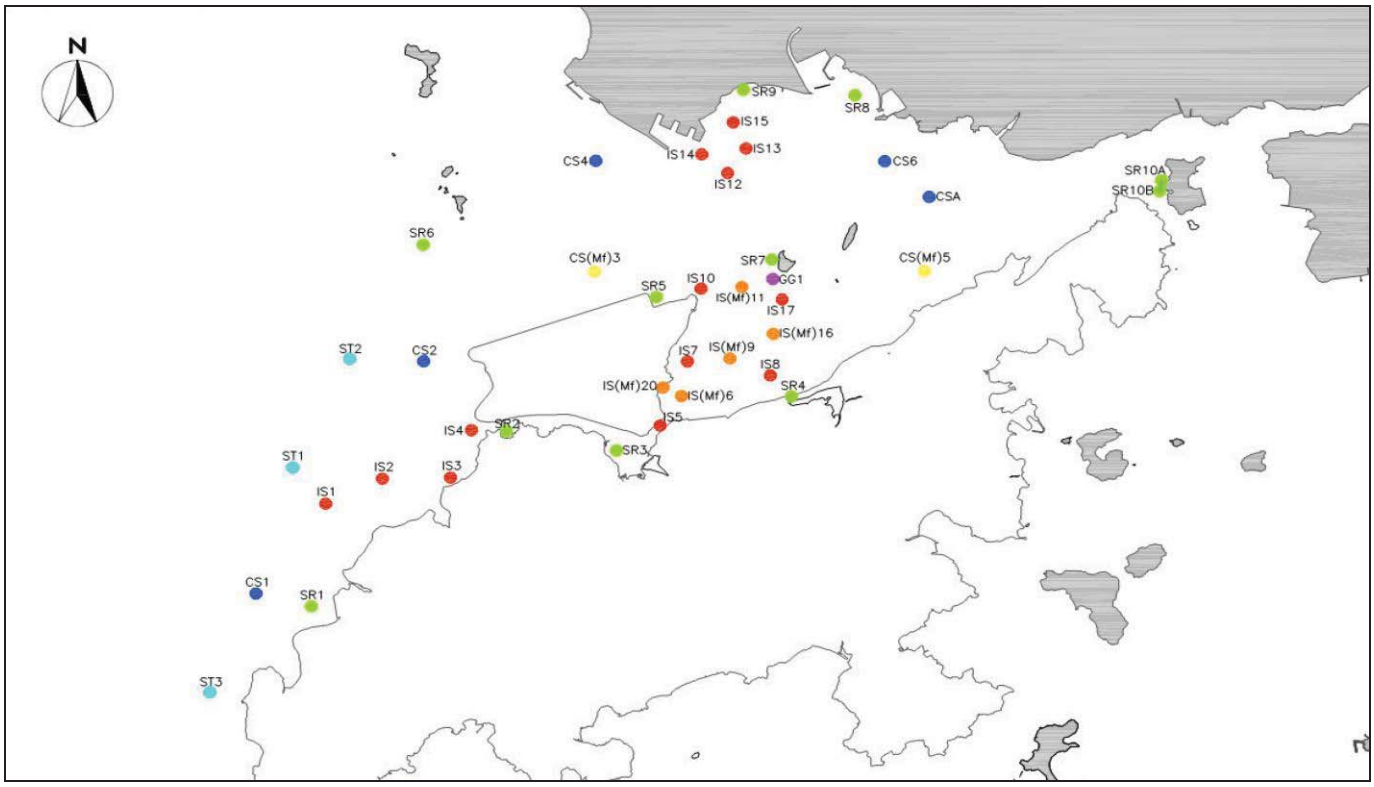
   The measured values during mid-flood tide at stations IS5, IS(Mf)6 and SR3 were within the ranges of turbidity during baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity level is considered to be attributed to other external factors, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 20 November 2012

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**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.: 018

**Date of Notification:** 16 November 2012

**Works Inspected:** Data collected from water sampling works on 1 November 2012 and the test report was issued on 8 November 2012

**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 | IS8 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.58 x 120% =**21.1** mg/L for mid flood on 1-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.58 x 130% =**22.9**mg/L for mid flood on 1-Nov-2012) | 15.5 | ***<u>30.5</u>*** |
| SS | IS(Mf)9 | DA | | | 9.3 | ***22.7*** |
| SS | SR4 | DA | | | 14.3 | ***<u>31.6</u>*** |

Notes:
DA means depth average.
***Bold Italic*** means AL exceedances.
***<u>Bold Italic with underline</u>*** means LL exceedances.

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

On 1 November 2012, exceedance of the AL at station IS(Mf)9 and exceedances of LL at stations IS8 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. The geotextile installation work and rock filling were being carried out within the silt curtains during the sampling period.
2. The ranges of suspended solid at stations IS8, IS(Mf)9 and SR4 during the baseline monitoring are shown as below:

| Station | Range of Suspended Solid (mg/L) | | |
|---|---|---|---|
| IS8 | 5.8 | to | 31.3 |
| IS(Mf)9 | 7.3 | to | 26.0 |
| SR4 | 5.6 | to | 24.5 |

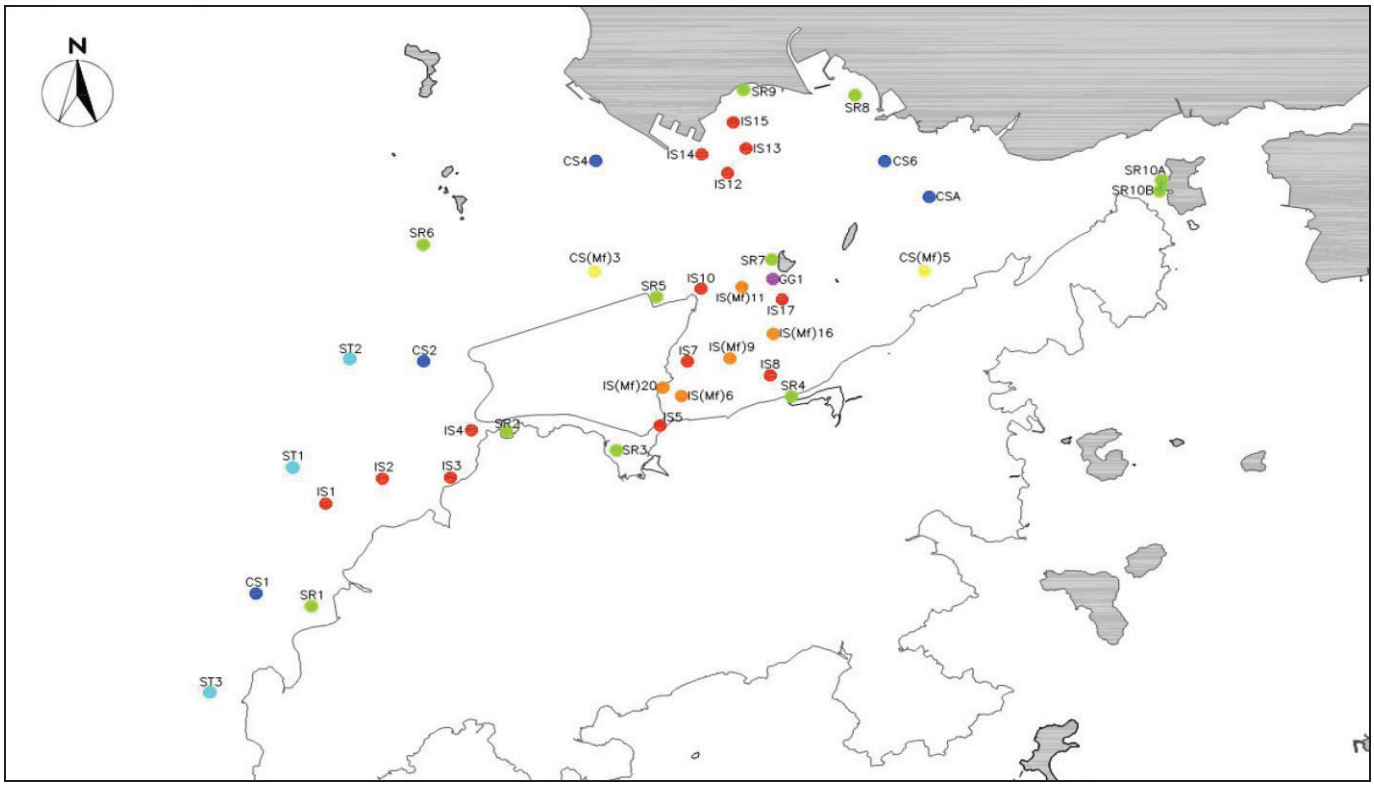
   The measured values during mid-flood tide at stations IS8 and IS(Mf)9 were within the ranges of suspended solid during baseline monitoring. SR4 is located at the upstream of the contact site area during the mid-flood tide. The high level of SS is not likely due to the contract construction activities.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contact works.

**Actions taken/ to be taken:**

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

**Location Plan:**




Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

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**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.: 019

**Date of Notification:** 16 November 2012

**Works Inspected:** Data collected from water sampling works on 3 November 2012 and the test report was issued on 9 November 2012

**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)6 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.83 x 120% =**21.4** mg/L for mid flood on 3-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.83 x 130% =**23.2**mg/L for mid flood on 3-Nov-2012) | 13.8 | ***27.7*** |

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 3 November 2012, exceedance of the LL at station IS(Mf)6 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station IS(Mf)6 during the baseline monitoring is shown as below:

| Station | Range of Suspended Solid (mg/L) | | |
|---|---|---|---|
| IS(Mf)6 | 8.5 | to | 35.0 |

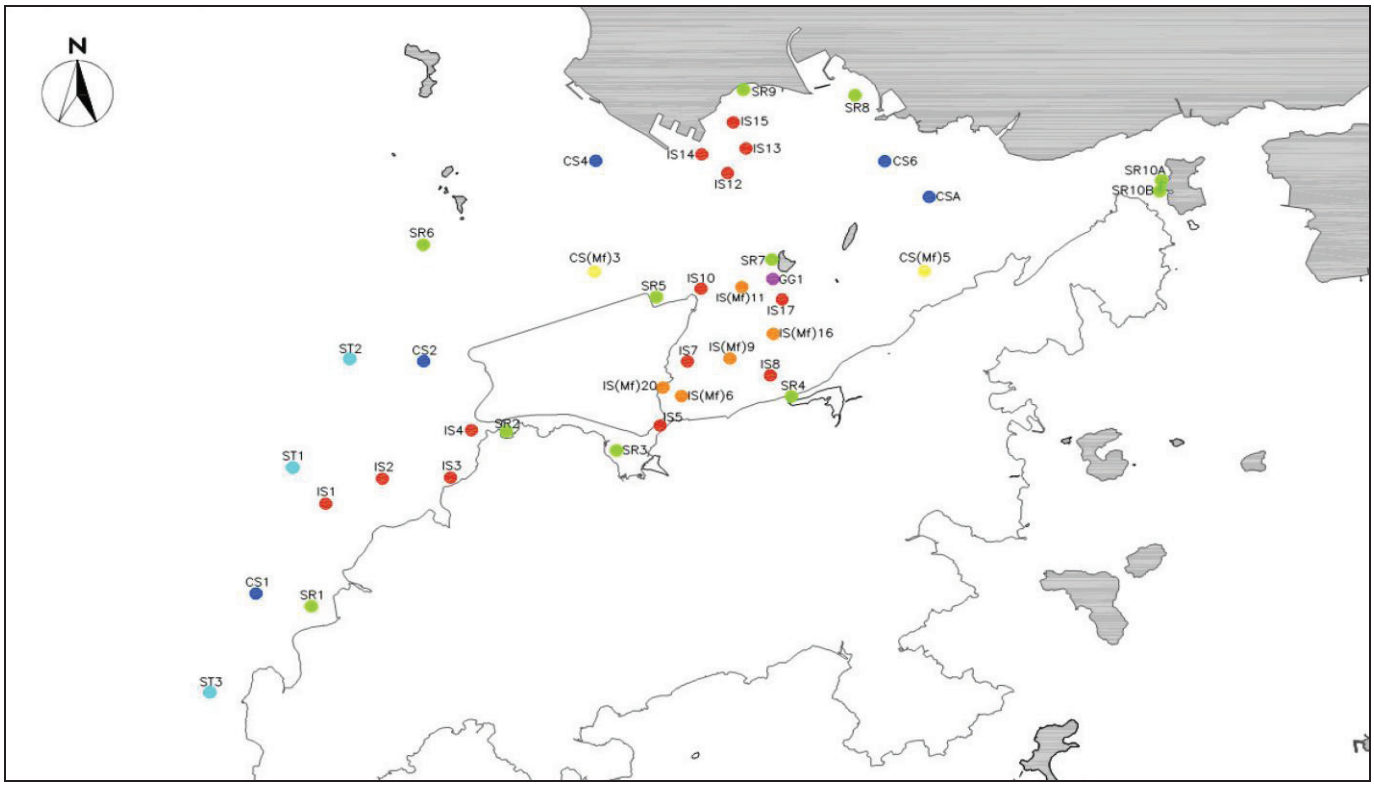
   The measured values during mid-flood tide at station IS(Mf)6 was within the range of suspended solid during the baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contact works.

**Actions taken/ to be taken:**

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

**Location Plan:**




Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

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**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.: 020

**Date of Notification:** 16 November 2012

**Works Inspected:** Data collected from water sampling works on 5 November 2012 and the test report was issued on 12 November 2012

**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 | IS5 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.50 x 120% =**13.8** mg/L for mid flood on 5-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.50 x 130% =**15.0**mg/L for mid flood on 5-Nov-2012) | 14.5 | ***15.8*** |

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 November 2012, exceedance of the LL at station IS5 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station IS5 during the baseline monitoring is shown as below:

| Station | Range of Suspended Solid (mg/L) | | |
|---|---|---|---|
| IS5 | 7.0 | to | 23.7 |

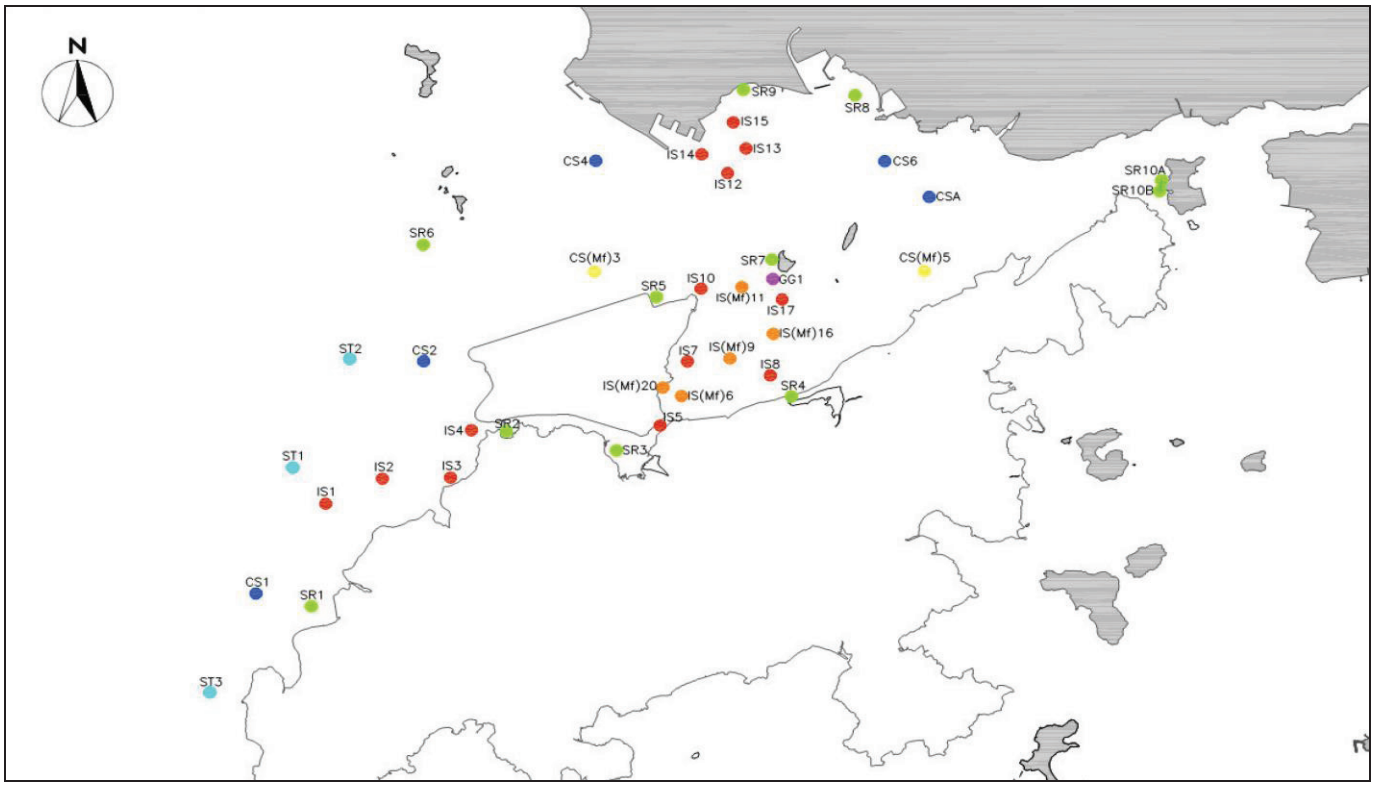
   The measured values during mid-flood tide at station IS5 was within the range of suspended solid during the baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contact works.

**Actions taken/ to be taken:**

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

**Location Plan:**




Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

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**

**Notifications of Environmental Quality Limits Exceedances** Notification No.: 021

**Date of Notification:** 16 November 2012

**Works Inspected:** Data collected from water sampling works on 8 November 2012 and the results were issued on 9 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.35 x 120% =**6.4** for mid flood on 5-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.35 x 130% =**7.0** for mid flood on 5-Nov-2012) | 3.7 | ***8.3*** |
| TURB | IS(Mf)6 | DA | | | 4.8 | ***9.9*** |
| TURB | IS7 | DA | | | 6.8 | ***7.9*** |
| TURB | IS8 | DA | | | 6.8 | ***6.9*** |
| TURB | SR3 | DA | | | 2.1 | ***12.0*** |
| TURB | SR4 | DA | | | 4.8 | ***16.7*** |

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 8 November 2012, exceedance of the AL at station IS8 and exceedances of LL at stations IS5, IS(Mf)6, IS7, SR3 and SR4 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 reason:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, SR3 and SR4 during the baseline monitoring are shown as below

| Station | Range of Turbidity(NTU) | | |
|---|---|---|---|
| IS5 | 5.7 | to | 21.4 |
| IS(Mf)6 | 5.3 | to | 20.9 |
| IS7 | 5.0 | to | 19.4 |
| IS8 | 4.5 | to | 24.5 |
| SR3 | 7.7 | to | 19.7 |
| SR4 | 5.0 | to | 20.6 |

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, SR3 and SR4 were within the ranges of turbidity during baseline monitoring.

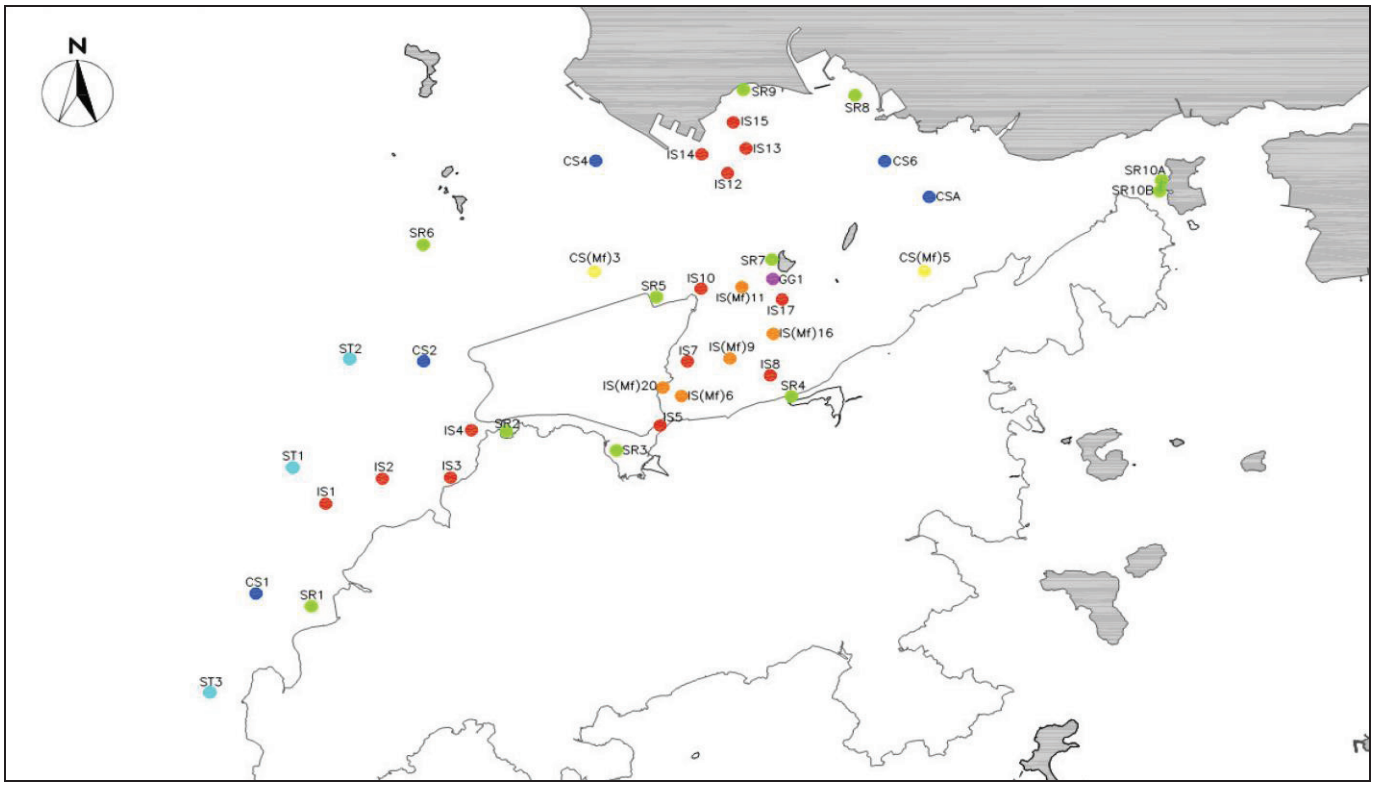
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

**Actions taken/ to be taken:**

As the turbidity 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 : 16 November 2012

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**

**Notifications of Environmental Quality Limits Exceedances** Notification No.: 022

**Date of Notification:** 19 November 2012

**Works Inspected:** Data collected from water sampling works on 8 November 2012 and the test report was issued on 16 November 2012

**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 | IS5 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 4.60 x 120% =**5.5** mg/L for mid flood on 8-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 4.60 x 130% =**6.0**mg/L for mid flood on 8-Nov-2012) | 5.1 | ***6.9*** |
| SS | IS(Mf)6 | DA | | | 6.1 | ***7.9*** |
| SS | IS8 | DA | | | 7.1 | ***6.3*** |
| SS | SR3 | DA | | | 4.7 | ***8.7*** |
| SS | SR4 | DA | | | 6.5 | ***16.0*** |

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 8 November 2012, exceedances of the LL at stations IS5, IS(Mf)6, IS8, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of suspended solid at stations IS5, IS(Mf)6, IS8, SR3 and SR4 during the baseline monitoring are shown as below

| Station | Range of Suspended Solid(mg/L) | | |
|---|---|---|---|
| IS5 | 7.0 | to | 23.7 |
| IS(Mf)6 | 8.5 | to | 35.0 |
| IS8 | 5.8 | to | 31.3 |
| SR3 | 7.6 | to | 28.0 |
| SR4 | 5.6 | to | 24.5 |

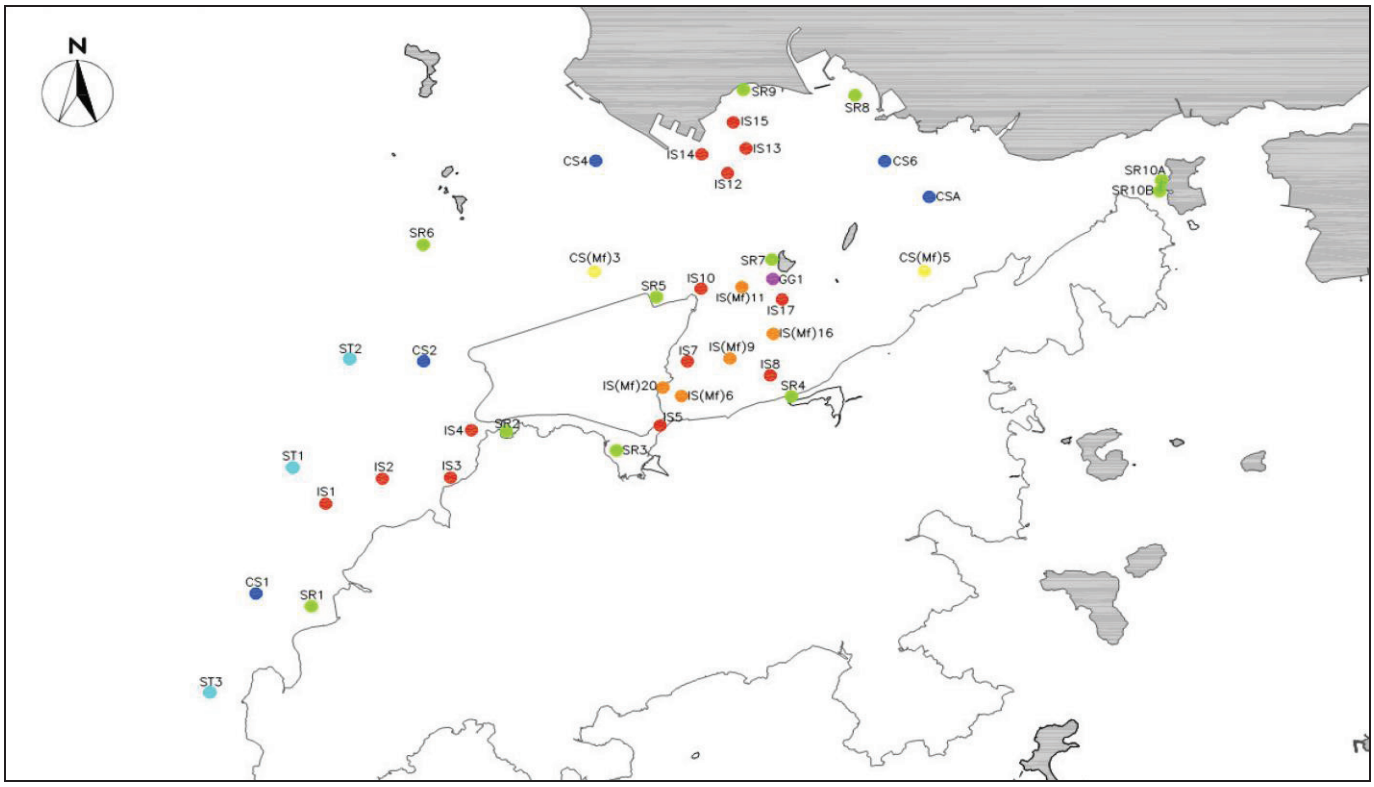
   The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS8, SR3 and SR4 were within the ranges of suspended solid during the baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

**Actions taken/ to be taken:**

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

**Location Plan:**




Reviewed by : Claudine Lee

Title : ET Leader

Date : 19 November 2012

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**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.: 023

**Date of Notification:** 19 November 2012

**Works Inspected:** Data collected from water sampling works on 10 November 2012 and the test report was issued on 19 November 2012

**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 | SR3 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.12 x 120% =**7.3** mg/L for mid flood on 10-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.12 x 130% =**8.0**mg/L for mid flood on 10-Nov-2012) | 3.7 | ***13.0*** |

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 10 November 2012, exceedance of the LL at station SR3 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station SR3 during the baseline monitoring is shown as below

| Station | Range of Suspended Solid(mg/L) | | |
|---|---|---|---|
| SR3 | 7.6 | to | 28.0 |

The measured value during mid-flood tide at station SR3 was within the range of suspended solid during the baseline monitoring.

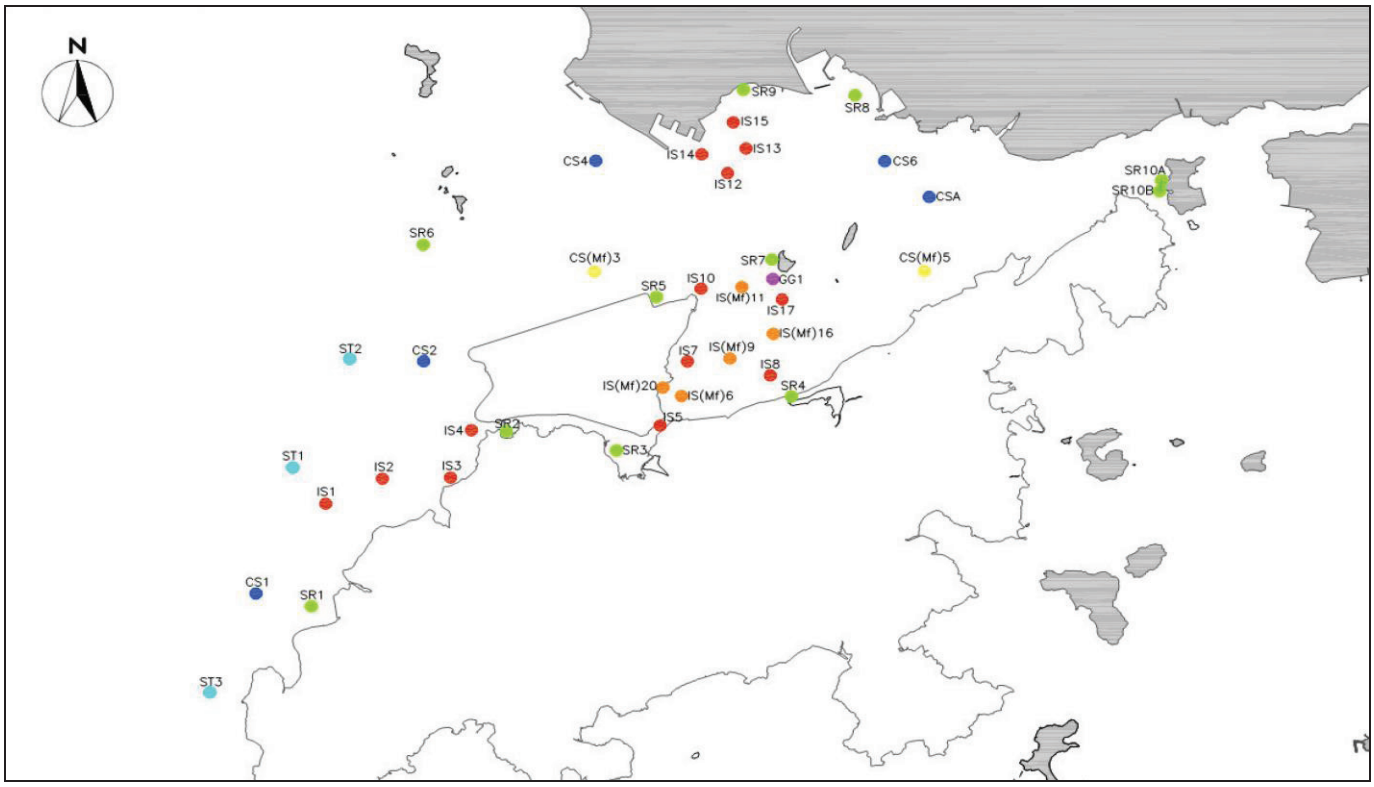
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contact works.

**Actions taken/ to be taken:**

As the suspended solid level recorded beyond the water quality criteria was not related to contact works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 19 November 2012

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**

**Notifications of Environmental Quality Limits Exceedances** Notification No.: 024

**Date of Notification:** 22 November 2012

**Works Inspected:** Data collected from water sampling works on 16 November 2012 and the results were issued on 17 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS(Mf)6 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.10 x 120% =**12.1** for mid flood on 16-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.10 x 130% =**13.1** for mid flood on 16-Nov-2012) | 18.9 | ***25.3*** |
| TURB | IS7 | DA | | | 13.1 | ***26.9*** |
| TURB | IS8 | DA | | | 14.0 | ***25.8*** |
| TURB | IS(Mf)9 | DA | | | 9.9 | ***17.2*** |
| TURB | SR4 | DA | | | 16.1 | ***24.7*** |
| TURB | SR10A | DA | | | 9.1 | ***13.4*** |
| TURB | SR10B | DA | | | 13.3 | ***12.6*** |

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 16 November 2012, exceedance of the AL at station SR10B and exceedances of LL at stations IS(Mf)6, IS7, IS8, IS(Mf)9, SR4 and SR10A 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 reason:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of turbidity at stations IS(Mf)6, IS7, IS8, IS(Mf)9, SR4. SR10A and SR10B during the baseline monitoring are shown as below

| Station | Range of Turbidity(NTU) Mid-Flood Tide | | |
|---|---|---|---|
| IS(Mf)6 | 5.3 | to | 20.9 |
| IS7 | 5.0 | to | 19.4 |
| IS8 | 4.5 | to | 24.5 |
| IS(Mf)9 | 3.4 | to | 22.6 |
| SR4 | 5.0 | to | 20.6 |
| SR10A | 1.9 | to | 13.0 |
| SR10B | 1.7 | to | 13.2 |

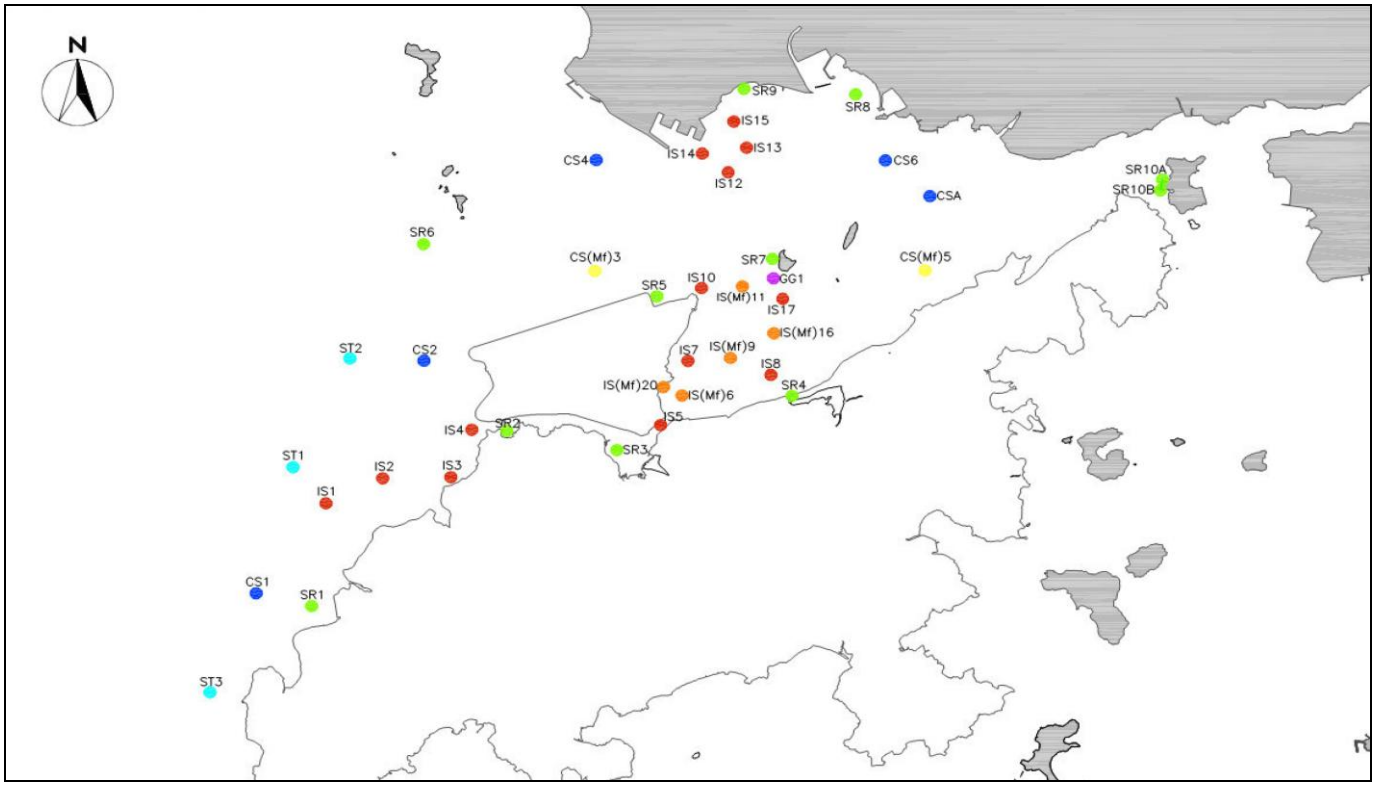
   The measured values during mid-flood tide at stations IS(Mf)9, SR4 and SR10B were within the ranges of turbidity during baseline monitoring.
3. Moderate waves were observed during the monitoring period at impact monitoring stations.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 22 November 2012

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**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.: 025

**Date of Notification:** 22 November 2012

**Works Inspected:** Data collected from water sampling works on 14 November 2012 and the test report was issued on 21 November 2012

**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 | SR4 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 28.52 x 120% =**34.2** mg/L for mid flood on 14-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 28.52 x 130% =**37.1**mg/L for mid flood on 14-Nov-2012) | 9.3 | ***25.7*** |

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 14 November 2012, exceedance of the AL at station SR4 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. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station SR4 during the baseline monitoring is shown as below

| Station | Range of Suspended Solid (mg/L) Mid-Flood Tide | | |
|---|---|---|---|
| SR4 | 5.6 | to | 24.5 |

The measured value during mid-flood tide at station SR4 was similar to the maximum value of suspended solid level recorded during the baseline monitoring and lower than the measured value of 28.52 mg/L at control station CS(Mf)5 during the same sampling period.

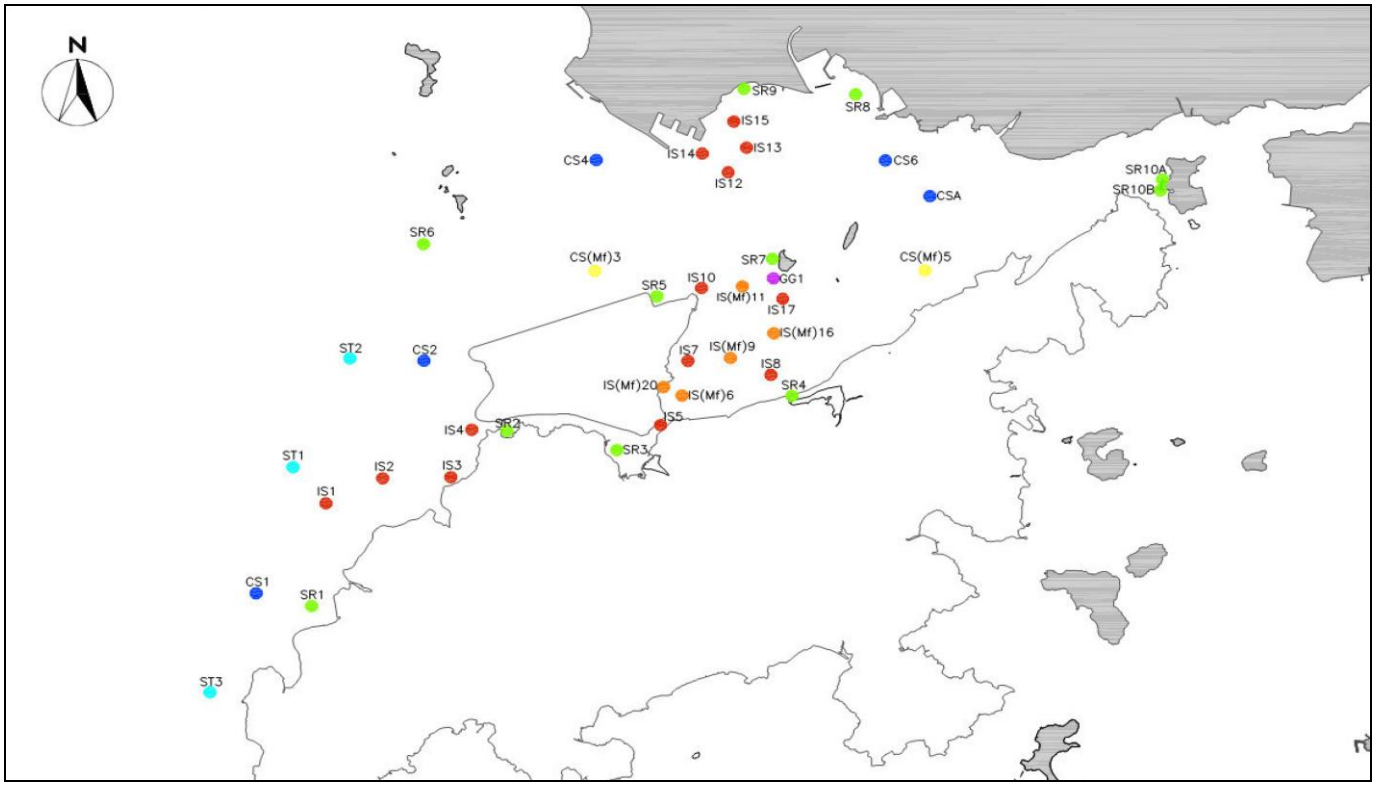
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 22 November 2012

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**

**Notifications of Environmental Quality Limits Exceedances** Notification No.: 026

**Date of Notification:** 23 November 2012

**Works Inspected:** Data collected from water sampling works on 19 November 2012 and the results were issued on 21 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS7 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 15.65 x 120% =**18.8** for mid flood on 19-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 15.65 x 130% =**20.3** for mid flood on 19-Nov-2012) | 11.1 | ***26.3*** |
| TURB | SR4 | DA | | | 8.6 | ***22.9*** |

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 19 November 2012, exceedances of LL at stations IS7 and SR4 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 reason:

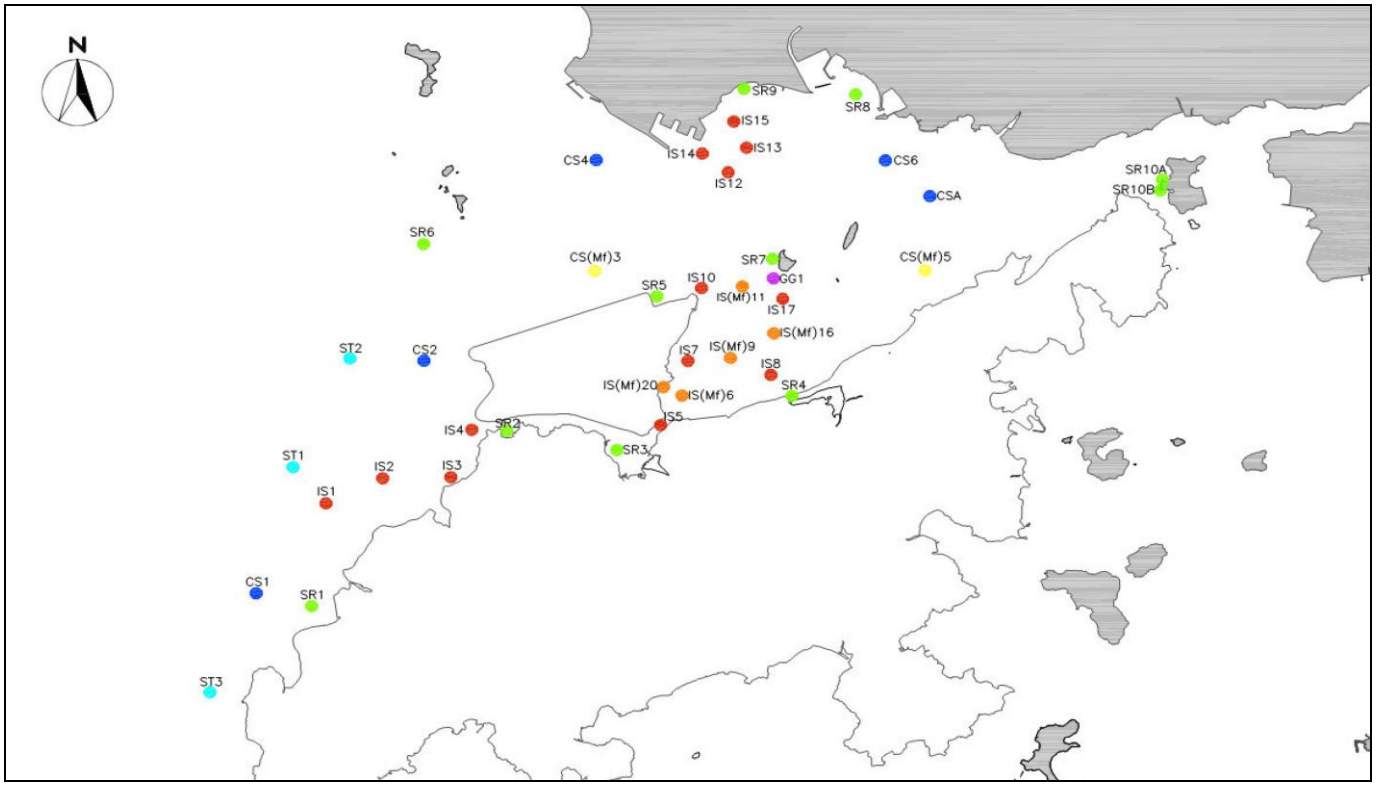
1. No marine works were carried out due to the low tide reason during the sampling period.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 23 November 2012

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**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.: 027

**Date of Notification:** 23 November 2012

**Works Inspected:** Data collected from water sampling works on 16 November 2012 and the test report was issued on 23 November 2012

**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 | IS5 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.72 x 120% =**10.5** mg/L for mid flood on 16-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.72 x 130% =**11.3**mg/L for mid flood on 16-Nov-2012) | 11.4 | ***11.6*** |
| SS | IS(Mf)6 | DA | | | 21.6 | ***26.9*** |
| SS | IS7 | DA | | | 15.9 | ***31.5*** |
| SS | IS8 | DA | | | 15.0 | ***36.0*** |
| SS | IS(Mf)9 | DA | | | 10.4 | ***17.7*** |
| SS | SR3 | DA | | | 9.7 | ***11.5*** |
| SS | SR4 | DA | | | 17.5 | ***30.9*** |
| SS | SR10A | DA | | | 10.3 | ***13.1*** |
| SS | SR10B | DA | | | 14.1 | ***15.8*** |

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 November 2012, exceedances of the LL at stations IS5, IS(Mf)6. IS7, IS8, IS(Mf)9, SR3, SR4 SR10A and SR10B were recorded during mid-flood tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at stations IS5, IS(Mf)6. IS7, IS8, IS(Mf)9, SR3, SR4 SR10A and SR10B during the baseline monitoring are shown as below

| Station | Range of Suspended Solid(mg/L) Mid-Flood Tide | | |
|---|---|---|---|
| IS5 | 7.0 | to | 23.7 |
| IS(Mf)6 | 8.5 | to | 35.0 |
| IS7 | 7.8 | to | 34.0 |
| IS8 | 5.8 | to | 31.3 |
| IS(Mf)9 | 7.3 | to | 26.0 |
| SR3 | 7.6 | to | 28.0 |
| SR4 | 5.6 | to | 24.5 |
| SR10A | 4.8 | to | 19.2 |
| SR10B | 5.7 | to | 26.7 |

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3, SR10A and SR10B were within the ranges of turbidity during baseline monitoring..

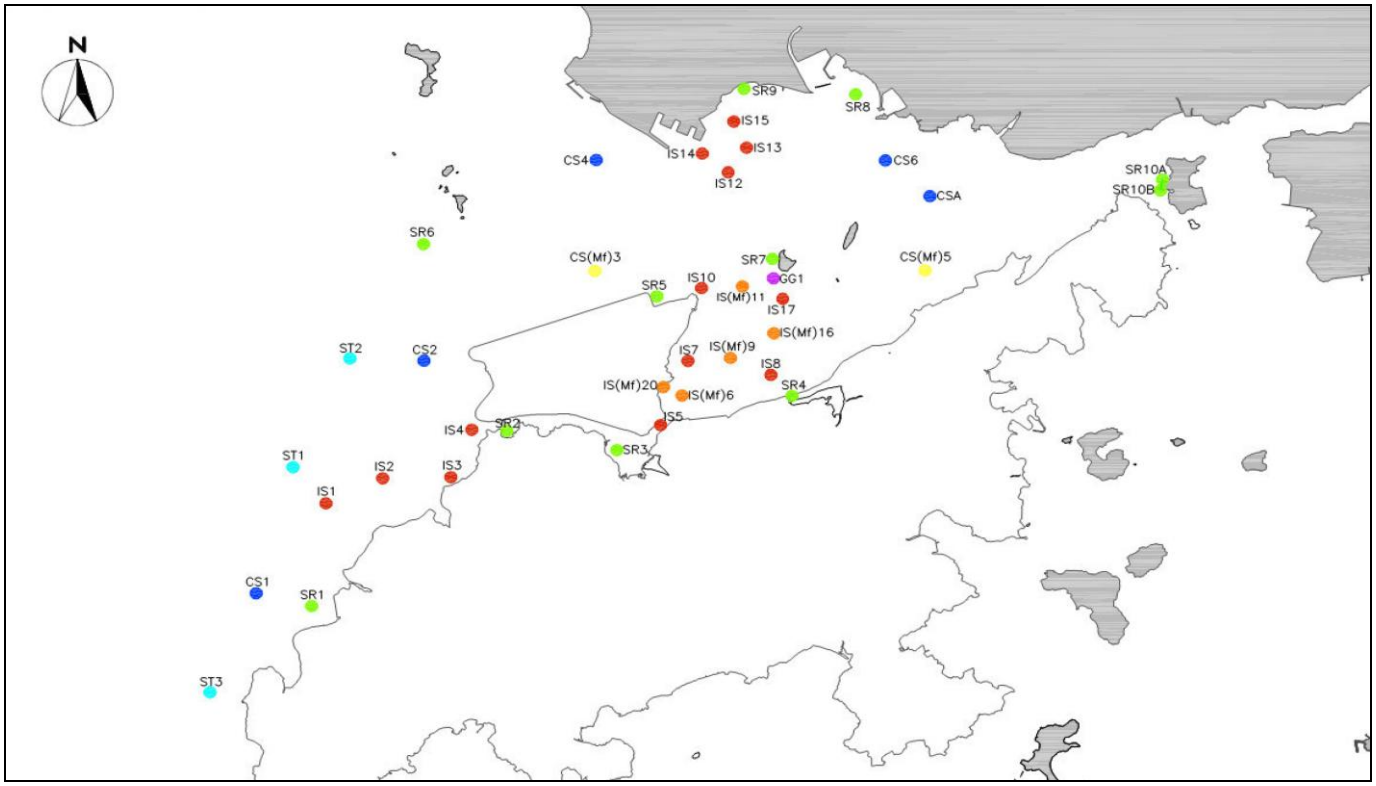
3. Moderate waves were observed during the monitoring period at impact monitoring stations.

As such, the suspended solid level 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee

Title : ET Leader

Date : 23 November 2012

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**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.: 028

**Date of Notification:** 28 November 2012

**Works Inspected:** Data collected from water sampling works on 24 November 2012 and the results were issued on 26 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 7.50 x 120% =**9.0** for mid ebb on 24-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 7.50 x 130% =**9.8** for mid ebb on 24-Nov-2012) | ***14.3*** | --* |
| TURB | IS(Mf)6 | DA | | | ***11.7*** | --* |
| TURB | IS10 | DA | | | ***11.5*** | --* |

Notes:
DA means depth average.
***Bold Italic*** means AL exceedances.
***Bold Italic with underline*** means LL exceedances.
* The monitoring for flood tide on 24/11 could not be conducted due to the breakdown of boats for water quality monitoring.

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

On 24 November 2012, exceedances of LL at stations IS5, IS(Mf)6 and IS10 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. Silt curtains maintenance work was being carried out during the sampling period
2. The ranges of turbidity at stations IS5, IS(Mf)6 and IS10 during the baseline monitoring are shown as below

| Station | Range of Turbidity(NTU) Mid-Ebb Tide | | |
|---|---|---|---|
| IS5 | 5.8 | to | 19.2 |
| IS(Mf)6 | 3.3 | to | 21.7 |
| IS10 | 6.7 | to | 14.7 |

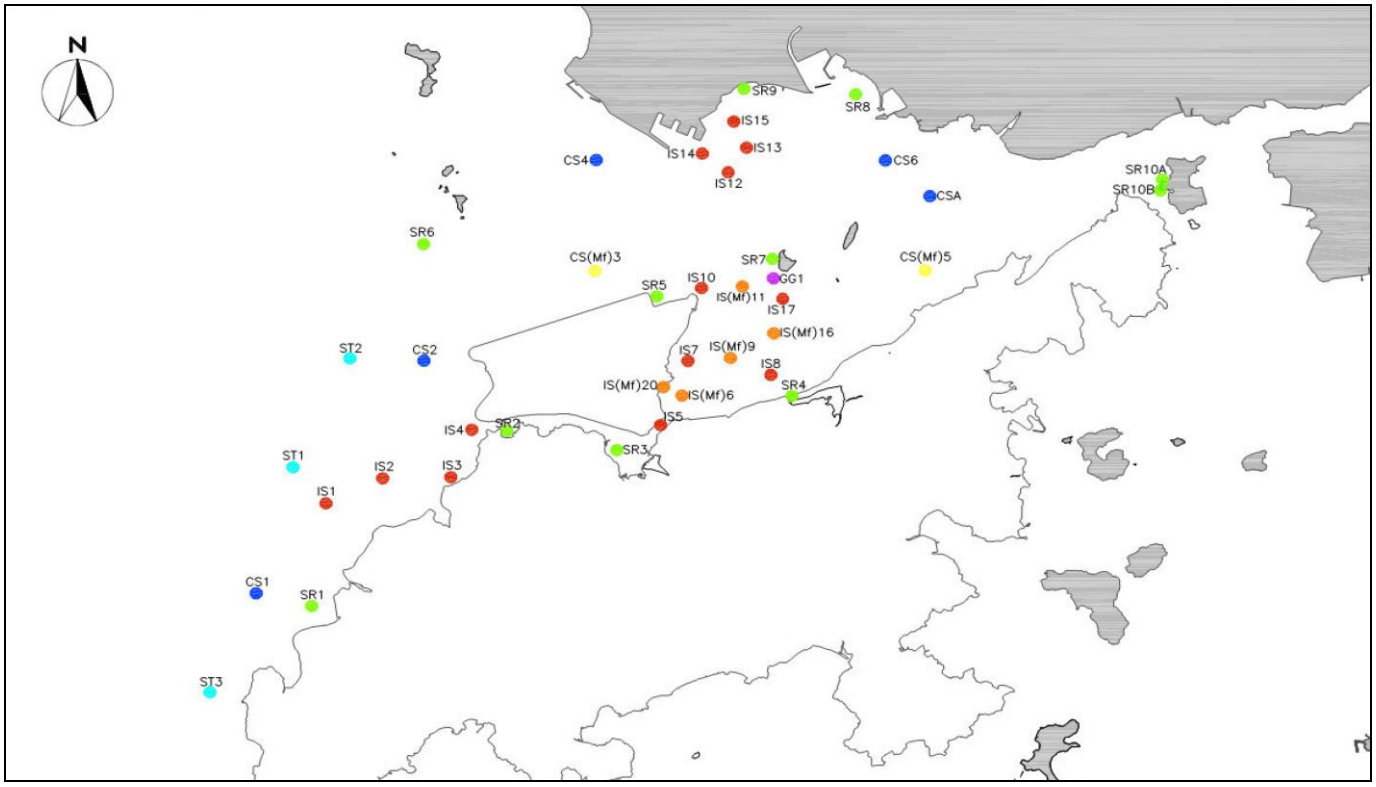
   The measured values during mid-ebb tide at stations IS5, IS(Mf)6 and IS10 were within the ranges of turbidity during baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 November 2012

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**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.: 029

**Date of Notification:** 28 November 2012

**Works Inspected:** Data collected from water sampling works on 19 November 2012 and the test report was issued on 26 November 2012

**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 | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.52 x 120% =**21.0** mg/L for mid flood on 19-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.52 x 130% =**22.8**mg/L for mid flood on 19-Nov-2012) | 12.3 | ***24.6*** |
| SS | SR4 | DA | | | 9.6 | ***26.5*** |

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 19 November 2012, exceedances of the LL at stations IS7 and SR4 were recorded during mid-flood tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

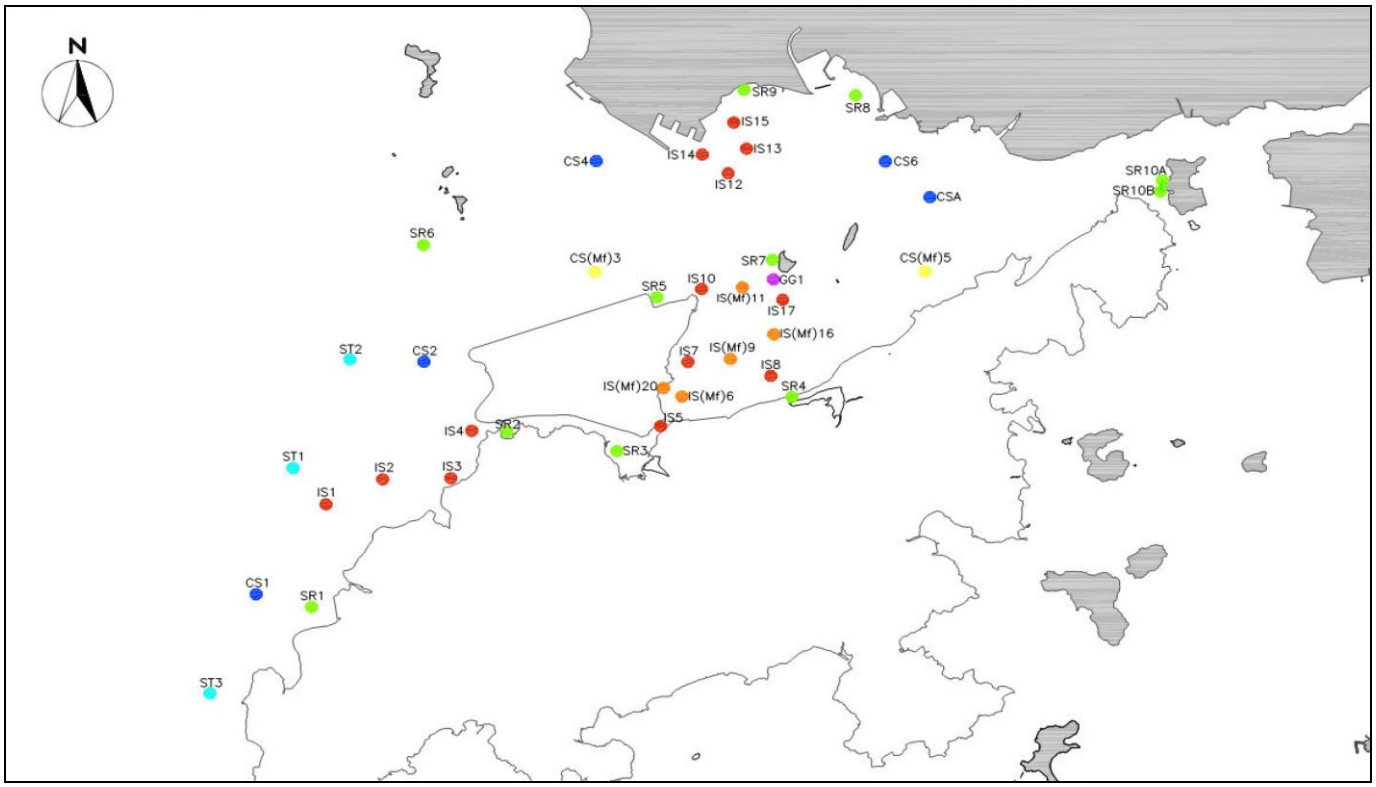
1. No marine works were carried out due to the low tide reason during the sampling period.

As such, the suspended solid level 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 28 November 2012

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**

**Notifications of Environmental Quality Limits Exceedances** Notification No.: 030

**Date of Notification:** 30 November 2012

**Works Inspected:** Data collected from water sampling works on 26 November 2012 and the results were issued on 27 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.05 x 120% =**12.1** for mid flood on 26-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.05 x 130% =**13.1** for mid flood on 26-Nov-2012) | 13.4 | ***15.4*** |
| TURB | IS(Mf)6 | DA | | | 25.7 | ***26.2*** |
| TURB | IS7 | DA | | | 19.3 | ***25.3*** |
| TURB | IS(Mf)9 | DA | | | 13.9 | ***13.8*** |
| TURB | SR3 | DA | | | 7.8 | ***15.0*** |
| TURB | SR4 | DA | | | 8.5 | ***17.7*** |

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 November 2012, exceedances of LL at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 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 reason:

1. No major marine works were carried out near the monitoring stations. Silt curtains maintenance work was being carried out during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below

| Station | **Range of Turbidity(NTU) Mid-Flood Tide** | | |
|---|---|---|---|
| IS5 | 5.7 | to | 21.4 |
| IS(Mf)6 | 5.3 | to | 20.9 |
| IS7 | 5.0 | to | 19.4 |
| IS(Mf)9 | 3.4 | to | 22.6 |
| SR3 | 7.7 | to | 19.7 |
| SR4 | 5.0 | to | 20.6 |

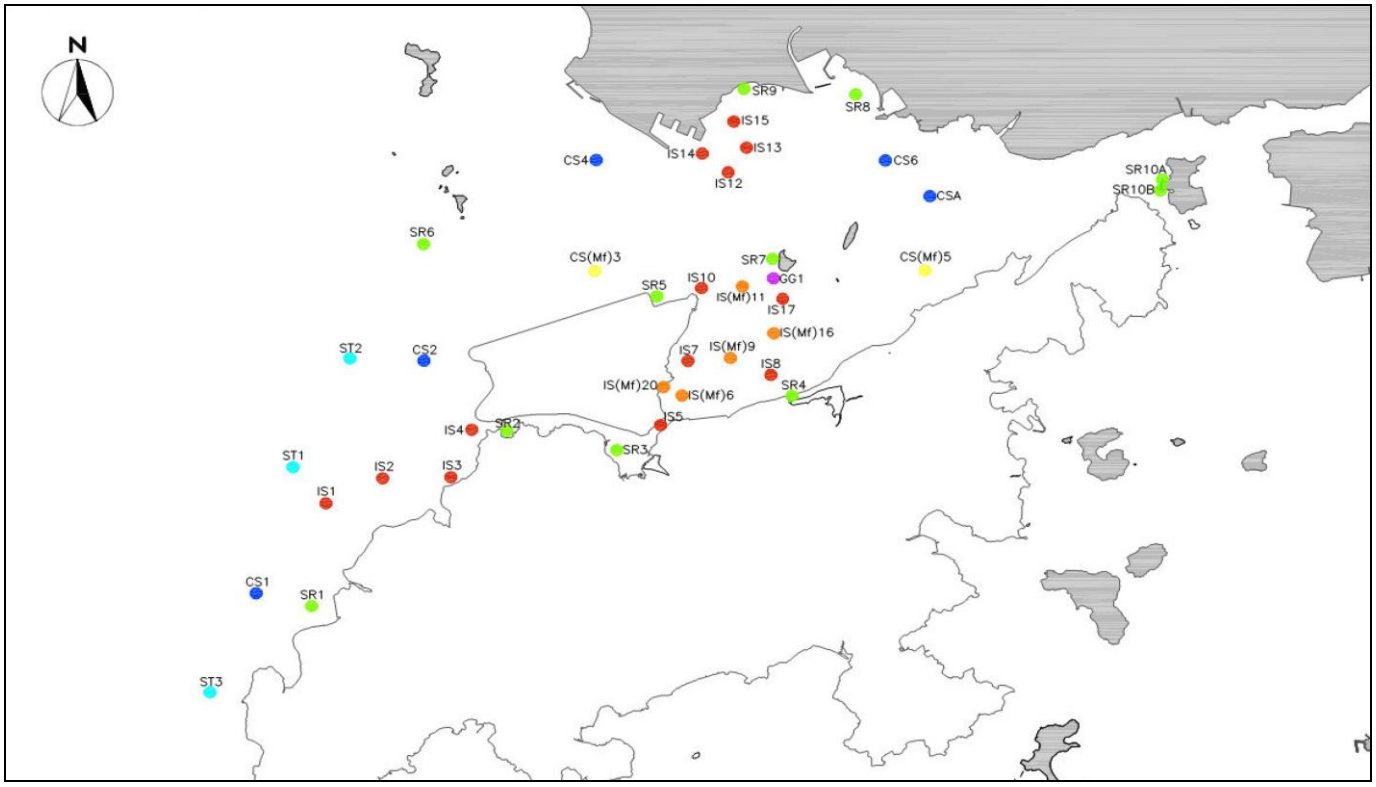
   The measured values during mid-flood tide at stations IS5, IS(Mf)9, SR3 and SR4 were within the ranges of turbidity during baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 30 November 2012

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**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.: 031

**Date of Notification:** 30 November 2012

**Works Inspected:** Data collected from water sampling works on 22 November 2012 and the test report was issued on 29 November 2012

**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 | IS5 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.08 x 120% =**9.7** mg/L for mid flood on 22-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.08 x 130% =**10.5** mg/L for mid flood on 22-Nov-2012) | 7.0 | ***14.5*** |

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 22 November 2012, exceedance of the AL at station IS5 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. No major marine works were carried out near the monitoring station. Silt curtains maintenance work was being carried out during the sampling period.
2. The range of suspended solid at station IS5 during the baseline monitoring is shown as below.

| Station | Range of Suspended Solid(mg/L) | | |
|---|---|---|---|
| IS5 | 7.0 | to | 23.7 |

The measured value during mid-flood tide at station IS5 was within the range of suspended solid level recorded during the baseline monitoring.

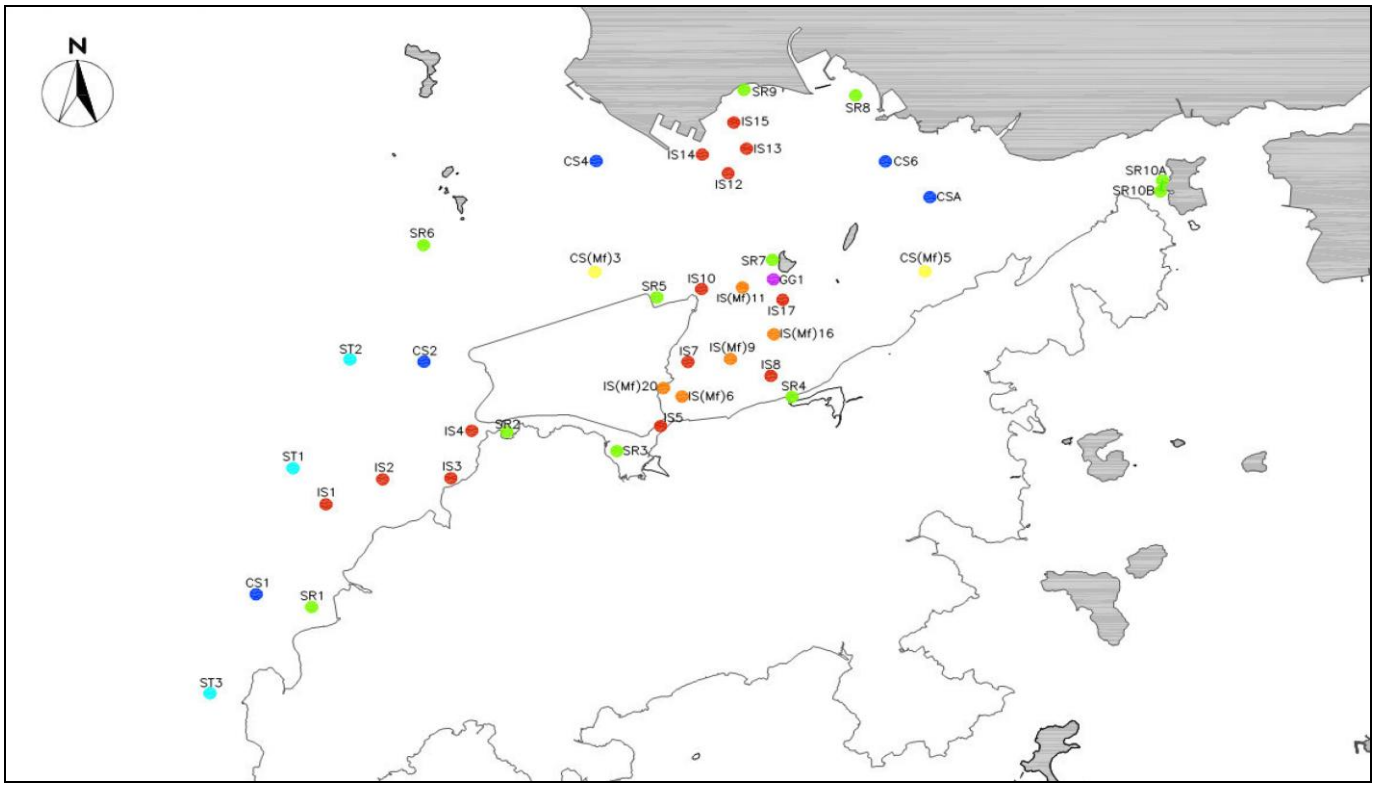
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 30 November 2012

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**
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 032

**Date of Notification:** 6 December 2012

**Works Inspected:** Data collected from water sampling works on 26 November 2012 and the test report was issued on 3 December 2012

**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 | IS5 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 9.18 x 120% =**11.0** mg/L for mid flood on 26-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 9.18 x 130% =**11.9** mg/L for mid flood on 26-Nov-2012) | 11.4 | ***15.0*** |
| SS | IS(Mf)6 | DA | | | 39.9 | ***28.5*** |
| SS | IS7 | DA | | | 14.9 | ***23.5*** |
| SS | IS(Mf)9 | DA | | | 24.4 | ***12.2*** |
| SS | SR3 | DA | | | 11.6 | ***11.8*** |
| SS | SR4 | DA | | | 9.5 | ***18.1*** |

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 November 2012, exceedances of the LL at station IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 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:

1. No major marine works were carried out near the monitoring stations. Silt curtains maintenance work was being carried out during the sampling period.
2. The ranges of suspended solid at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below.

| Station | Range of Suspended Solid(mg/L) Mid-Flood Tide | | |
|---|---|---|---|
| IS5 | 7.0 | to | 23.7 |
| IS(Mf)6 | 8.5 | to | 35.0 |
| IS7 | 7.8 | to | 34.0 |
| IS(Mf)9 | 7.3 | to | 26.0 |
| SR3 | 7.6 | to | 28.0 |
| SR4 | 5.6 | to | 24.5 |

The measured value during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 were within the ranges of suspended solid level recorded during the baseline monitoring.

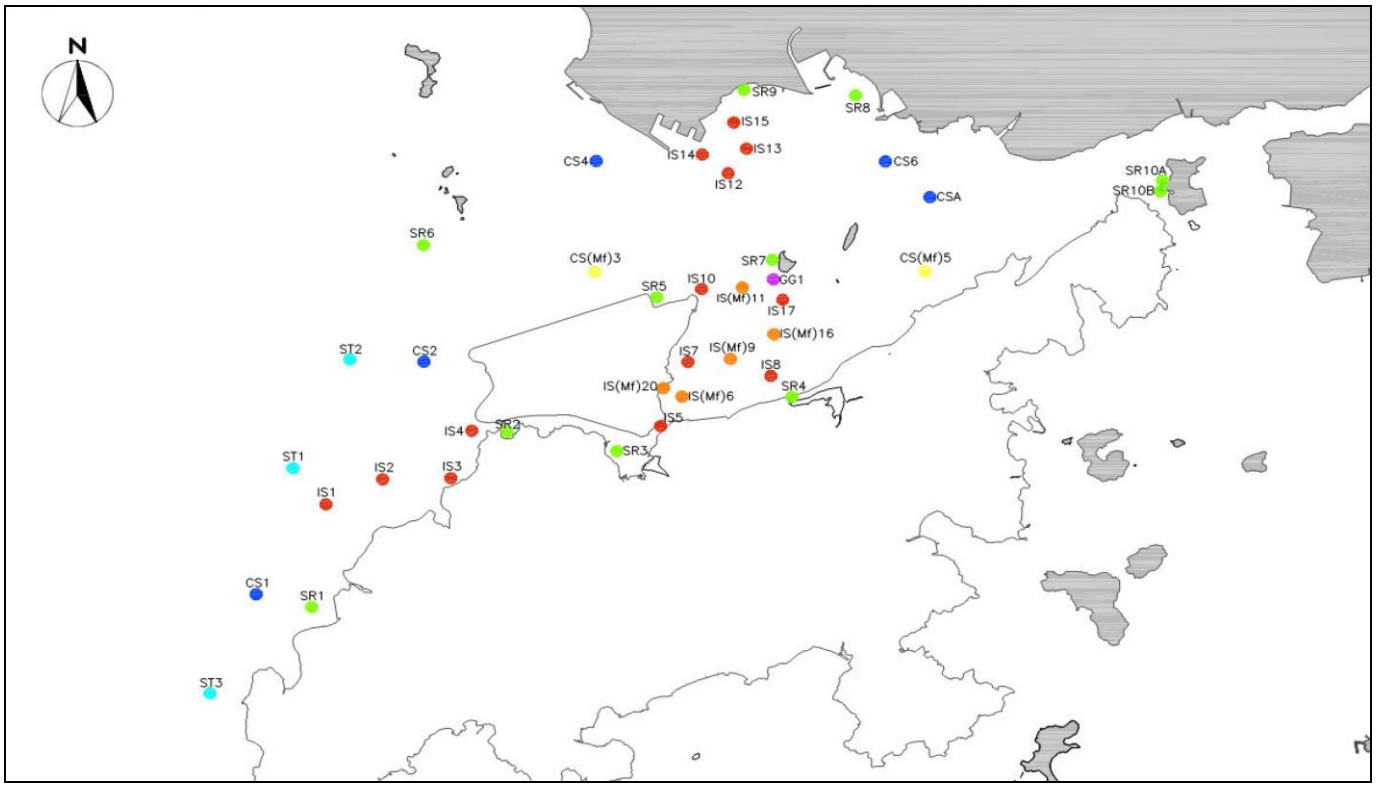
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid level is considered to be attributed to other external factors, 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 6 December 2012

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.: 033

**Date of Notification:** 6 December 2012

**Works Inspected:** Data collected from water sampling works on 29 November 2012 and the results were issued on 30 November 2012

**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 (NTU) | LL (NTU) | MEASURED AT MID-EBB TIDE (NTU) | MEASURED AT MID-FLOOD TIDE (NTU) |
|---|---|---|---|---|---|---|
| TURB | IS5 | DA | **27.5** or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 8.75 x 120% **=10.5** for mid ebb on 29-Nov-2012 AND CS(Mf)5: 13.17 x 120% **=15.8** for mid flood on 29-Nov-2012) | **47.0** or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 8.75 x 130% **=11.4** for mid ebb on 29-Nov-2012 AND CS(Mf)5: 13.17 x 130% **=17.1** for mid flood on 29-Nov-2012) | ***13.1*** | 9.3 |
| TURB | IS(Mf)6 | DA | | | ***13.8*** | ***17.1*** |
| TURB | IS7 | DA | | | ***12.2*** | 11.3 |
| TURB | IS8 | DA | | | ***10.8*** | ***20.5*** |
| TURB | IS(Mf)9 | DA | | | ***14.0*** | ***19.2*** |
| TURB | IS10 | DA | | | ***16.4*** | ***20.6*** |
| TURB | SR3 | DA | | | ***13.5*** | 10.3 |
| TURB | SR4 | DA | | | ***11.3*** | 15.7 |
| TURB | SR5 | DA | | | 10.1 | ***17.1*** |

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 29 November 2012, exceedances of AL at stations IS8 and SR4 and exceedances of LL at stations IS5, IS(Mf)6, IS7, IS(Mf)9, IS10 and SR3 were recorded during mid-ebb tide. The exceedances of AL at stations IS(Mf)6 and SR5 and exceedances of LL at stations IS8, IS(Mf)9 and IS10 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 reason:

1. No major marine works were carried out near the monitoring stations. The vessel maintenance work was being carried out during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, SR3, SR4 and SR5 during the baseline monitoring are shown as below

| Station | Range of Turbidity(NTU) Mid-Ebb Tide | | | Range of Turbidity(NTU) Mid-Flood Tide | | |
|---|---|---|---|---|---|---|
| IS5 | 5.8 | to | 19.2 | 5.7 | to | 21.4 |
| IS(Mf)6 | 3.3 | to | 21.7 | 5.3 | to | 20.9 |
| IS7 | 3.4 | to | 20.0 | 5.0 | to | 19.4 |
| IS8 | 4.0 | to | 12.2 | 4.5 | to | 24.5 |
| IS(Mf)9 | 2.7 | to | 17.0 | 3.4 | to | 22.6 |
| SR3 | 4.6 | to | 65.7 | 7.7 | to | 19.7 |
| SR4 | 5.2 | to | 18.9 | 5.0 | to | 20.6 |
| IS10 | 6.7 | to | 14.7 | 8.4 | to | 20.8 |
| SR5 | 5.2 | to | 12.4 | 7.1 | to | 30.9 |

   The measured values at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, SR3, SR4 and SR5 were within the ranges of turbidity during baseline monitoring.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

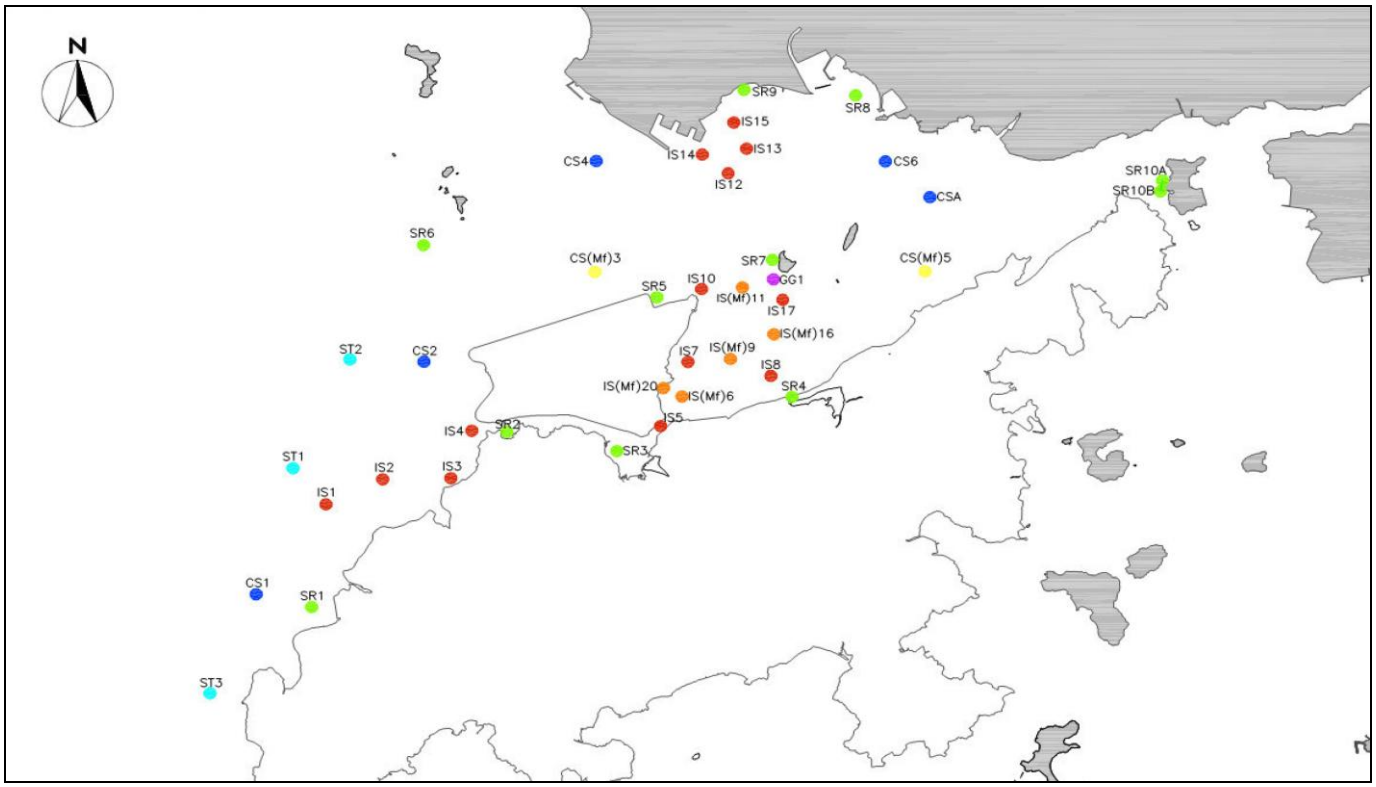
As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the

contract works.

**Actions taken/ to be taken:**

As the turbidity 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 : 6 December 2012

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.: 034

**Date of Notification:** 7 December 2012

**Works Inspected:** Data collected from water sampling works on 29 November 2012 and the test report was issued on 6 December 2012

**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)6 | DA | **23.5** or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 12.73 x 120% =**15.3** mg/L for mid flood on 26-Nov-2012) | **34.4** or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 12.73 x 130% =**16.6** mg/L for mid flood on 26-Nov-2012) | 13.1 | ***24.0*** |
| SS | IS8 | DA | | | 7.8 | ***22.8*** |
| SS | IS(Mf)9 | DA | | | 11.0 | ***19.5*** |
| SS | IS10 | DA | | | 12.9 | ***23.4*** |
| SS | SR4 | DA | | | 9.9 | ***15.9*** |
| SS | SR5 | DA | | | 7.4 | ***18.2*** |

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 29 November 2012, an exceedance of the AL at station SR4 and exceedances LL at stations IS(Mf)6, IS8, IS(Mf)9, 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:

1. No major marine works were carried out near the monitoring stations. Vessel maintenance work was being carried out during the sampling period.
2. The ranges of suspended solid at stations IS(Mf)6, IS8, IS(Mf)9, IS10, SR4 and SR5 during the baseline monitoring are shown as below.

| Station | Range of Suspended Solid(mg/L) Mid-Flood Tide | | |
|---|---|---|---|
| IS(Mf)6 | 8.5 | to | 35.0 |
| IS8 | 5.8 | to | 31.3 |
| IS(Mf)9 | 7.3 | to | 26.0 |
| IS10 | 7.2 | to | 16.0 |
| SR4 | 5.6 | to | 24.5 |
| SR5 | 6.5 | to | 31.2 |

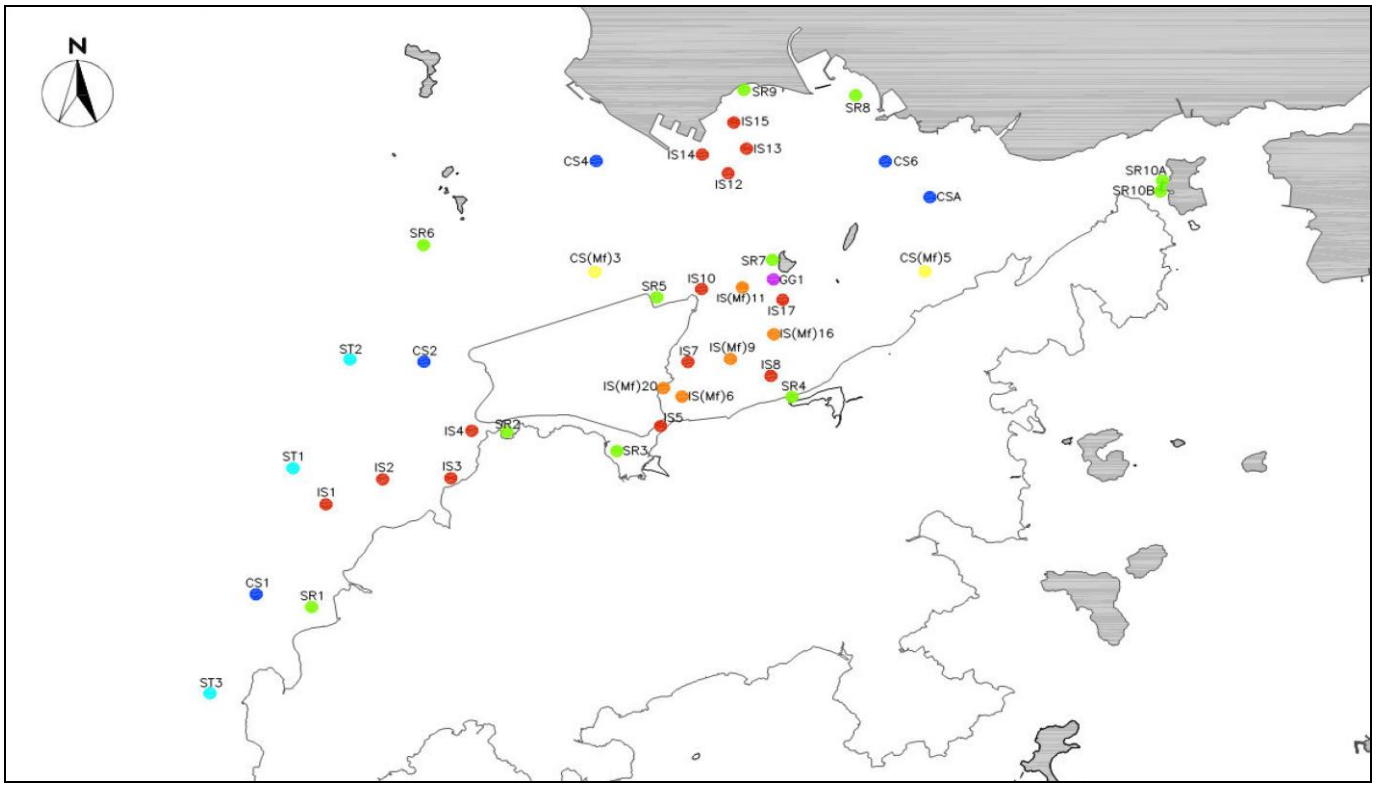
The measured value during mid-flood tide at stations IS(Mf)6, IS8, IS(Mf)9, SR4 and SR5 were within the ranges of suspended solid level recorded during the baseline monitoring..

As such, the suspended solid level is considered to be attributed to other external factors, 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 contract works, no immediate actions are considered necessary.

**Location Plan:**




Reviewed by : Claudine Lee Title : ET Leader

Date : 7 December 2012

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.: 035

**Date of Notification:** 7 December 2012

**Works Inspected:** Not Applicable

**Monitoring Location:** Not Applicable

**Parameter:** Noise

| **Action & Limit Levels** | | | **Measured Level** | |
|---|---|---|---|---|
| Time Period | Action Level | Limit Level | Time: | N/A (A noise complaint regarding the noise generated from power generator, engines from barges used for marine operation, cranes from the barges, engine from boats used for transportation of site staff and strong noise of metallic parts being thrown on the ground was received on 24 November 2012) |
| 07:00–19:00 hrs Normal weekday | 1 complaint | 75 dB(A) | $L_{eq(5min)}$ readings, dB(A) | |
| | | | $L_{eq(15min)}$ dB(A) (façade measurement) | |

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

According to the information provided by the Contractor, the construction works conducted on 24 November 2012 included removal of armour rock at zone 3C and rock filling at Zone 3B. A noise barrier has been provided for the generator since 21 November 2012. Noise shield has been installed for the engine and breaking system of a derrick barge to minimize the noise nuisance since 25 Nov 2012. According the information provided by the Contractor, construction activities undertaken on site on 24 November included breaking work for extending drainage using electric breaker (completed on 26 Nov), cleaning near site entrances and filling of cable manhole with sandbags. No metallic works were carried out during the date of complaint (24 November 2012).

**Actions taken/ to be taken:**

The Contractor has implemented mitigation measures to minimise the potential noise impacts. In addition, the Contractor has been reminded to enhance the maintenance of barges to avoid the generation of abnormal noise.

Reviewed by : Claudine Lee Title : ET Leader

Date : 7 December 2012

Copied to : Supervising Officer, IEC, EPD, Contractor