

**Date of Notification:** 5 September 2017 **Date of Investigation Report:** 6 October 2017

**Works Inspected:** Data collected from water sampling works on 1 September 2017 and the results were issued on 4 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

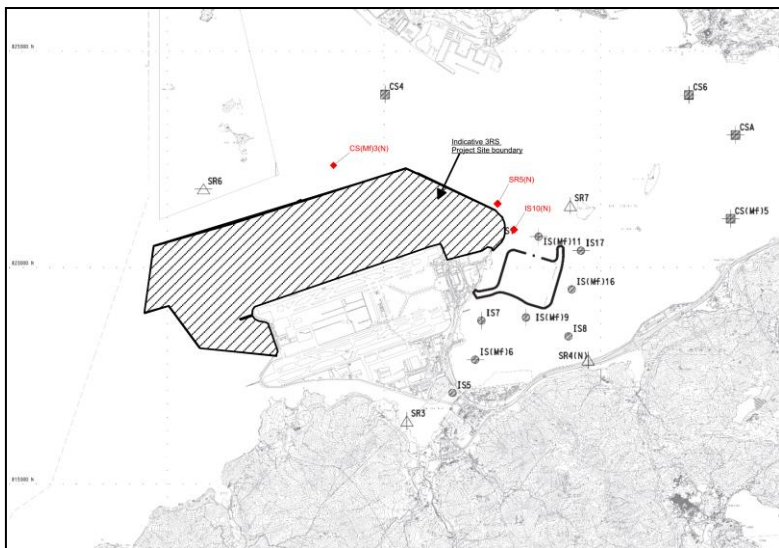
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.4</b>	<b>4.4</b>
DO	IS10(N)	Bottom			<b>4.5</b>	<b>4.5</b>
DO	IS(Mf)11	Bottom			<b>4.6</b>	<b>4.5</b>
DO	IS17	Bottom			<b>4.5</b>	5.2
DO	SR5(N)	Bottom			<b>4.5</b>	4.7

Notes:  
 AL means Action Level.  
 LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.

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

On 1 September 2017, five AL exceedances of DO recorded at IS5, IS10(N), IS(Mf)11, IS17 and SR5(N) were recorded during mid-ebb tide and three AL exceedances of DO recorded at IS5, IS10(N) and IS(Mf)11 were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 1 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedance was not related the Contract.

**Actions taken/ to be taken:**  
 As the exceedance was not related to the Contract, no immediate action are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader  

Date : 6 October 2017

Copied to: Contractor and Engineer Representative

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170906DO\_TURB\_v3

**Date of Notification:** 11 September 2017 **Date of Investigation Report:** 9 October 2017

**Works Inspected:** Data collected from water sampling works on 6 September 2017 and the results were issued on 11 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

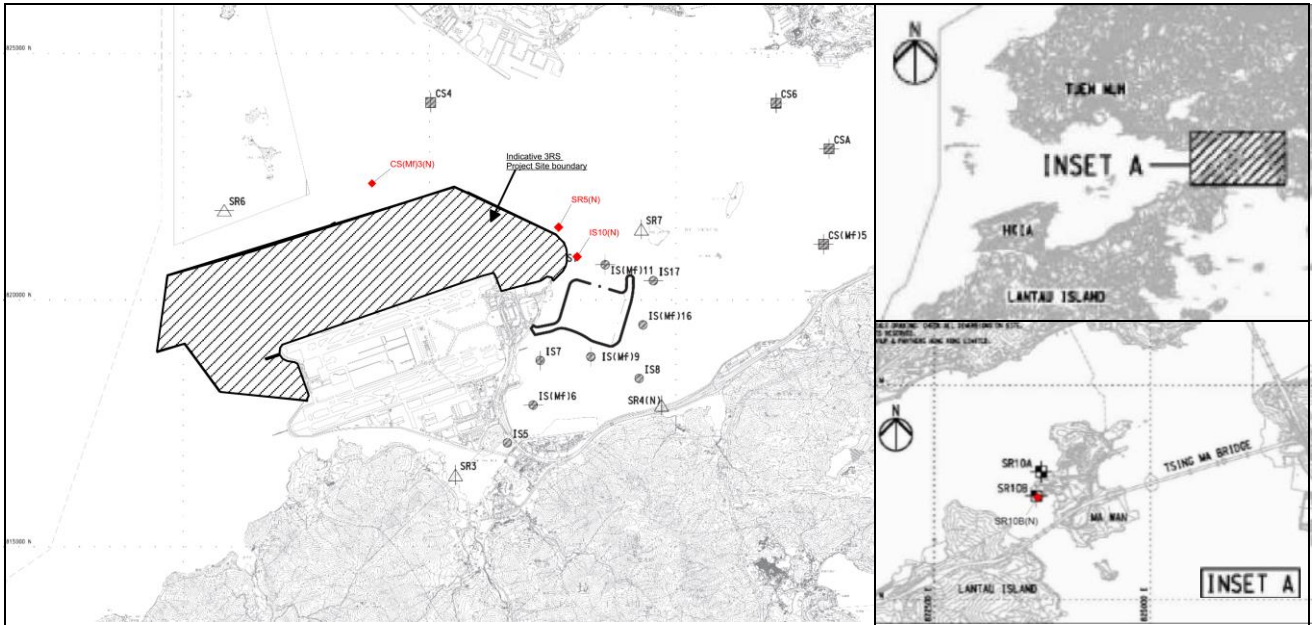
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS17	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.6</b>	4.9
	SR6	Surface and Middle			5.7	<b>4.8</b>
	SR10A	Surface and Middle			<b>4.9</b>	<b>4.6</b>
		Bottom			4.8	<b>4.5</b>
	SR10B(N)	Surface and Middle			<b>4.8</b>	<b>4.6</b>
		Bottom			4.8	<b>4.5</b>
PARAM	STATION	DEPTH	AL (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS(Mf)11	Depth Average	27.5 and 120% (i.e. 17.6 for mid-ebb/18.7 for mid-flood) of upstream control station's turbidity at the same tide of the same day	47.0 and 130% (i.e. 19.0 for mid-ebb/20.2 for mid-flood) of upstream control station's turbidity at the same tide of the same day	14.6	<b>27.9</b>

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

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


On 6 September 2017, one AL exceedance of DO recorded at IS17 was recorded during mid-ebb tide, three AL exceedances of DO recorded at SR6, SR10A, and SR10B(N) were recorded during mid-flood tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-ebb tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide and one AL exceedance of TURB recorded at IS(Mf)11 was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 6 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau  


Title : ET Leader

Date : 9 October 2017

Copied to : Contractor and Engineer Representative

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge  
 Hong Kong Boundary Crossing Facilities – Passenger Clearance Building  
 Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170906SS\_v1

**Date of Notification:** 19 September 2017 **Date of Investigation Report:** 25 September 2017

**Works Inspected:** Data collected from water sampling works on 6 September 2017 and the results were issued on 15 September 2017

**Monitoring Location:** Water Quality Monitoring Station

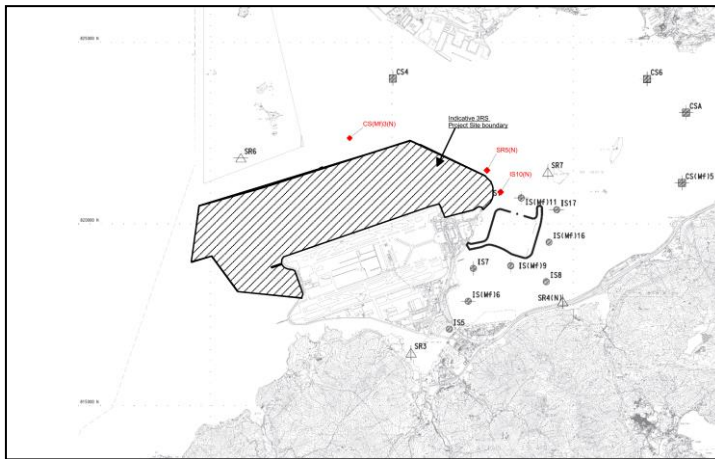
**Parameter:** Dissolved Oxygen (DO)/ Suspended Solid (SS)/ Turbidity (TURB)

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS8	Depth Average	23.5 and 120% (i.e. 11.3 for mid-ebb/14.1 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 12.3 for mid-ebb/15.3 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	8.1	<b>26.4</b>
	SR4(N)				9.4	<b>25.3</b>
	SR6				6.2	<b>23.6</b>

Notes:  
 AL means Action Level.  
 LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
 Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

**Possible reason for Action and Limit Level Non-compliance:**  
 On 6 September 2017, three AL exceedances of SS recorded at IS8,SR4(N) and SR6 were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 6 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**  
 As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader  
 Date : 25 September 2017

Copied to : Contractor and Engineer Representative

**Contract No. HY/2013/01 -  
 Hong Kong- Zhuhai- Macao Bridge  
 Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170908DO\_TURB\_v3

**Date of Notification:** 13 September 2017 **Date of Investigation Report:** 9 October 2017

**Works Inspected:** Data collected from water sampling works on 8 September 2017 and the results were issued on 12 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Surface and Middle	Surface and Middle 5.0  Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ)  Bottom 3.6	5.0	<b>4.9</b>
	IS7	Surface and Middle			<b>4.8</b>	5.1
		Bottom			<b>4.6</b>	5.2
	IS8	Surface and Middle			5.0	<b>4.9</b>
	IS(Mf)9	Surface and Middle			5.3	<b>4.8</b>
	IS10(N)	Surface and Middle			<b>4.9</b>	<b>4.7</b>
	IS(Mf)11	Surface and Middle			5.0	<b>4.7</b>
		Bottom			4.8	<b>4.6</b>
	IS(Mf)16	Surface and Middle			<b>4.6</b>	<b>4.9</b>
		Bottom			<b>4.3</b>	5.0
	IS17	Surface and Middle			<b>4.9</b>	<b>4.7</b>
		Bottom			<b>4.3</b>	<b>4.5</b>
	SR3	Surface and Middle			<b>4.7</b>	<b>4.9</b>
	SR4(N)	Surface and Middle			5.2	<b>4.9</b>
	SR5(N)	Surface and Middle			5.0	<b>4.8</b>
	SR6	Surface and Middle			<b>4.9</b>	<b>4.9</b>
SR7	Surface and Middle	5.1	<b>4.9</b>			
	Bottom	<b>4.9</b>	<b>4.3</b>			
SR10A	Surface and Middle	<b>4.9</b>	<b>4.3</b>			
	Bottom	4.8	<b>4.3</b>			
SR10B(N)	Surface and Middle	<b>4.8</b>	<b>4.7</b>			
PARAM	STATION	DEPTH	AL (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	Depth Average	27.5 and 120% (i.e. 20.2 for mid-ebb/13.7 for mid-flood) of upstream control station's turbidity at the same tide of the same day	47.0 and 130% (i.e. 21.9 for mid-ebb/14.9 for mid-flood) of upstream control station's turbidity at the same tide of the same day	<b>34.4</b>	6.6
	IS10(N)				25.2	<b>31.6</b>
	IS(Mf)11				17.8	<b>29.0</b>
	SR6				12.2	<b>35.3</b>

Notes:

AL means Action Level.

LL means Limit Level.

**Bold** means AL exceedances.

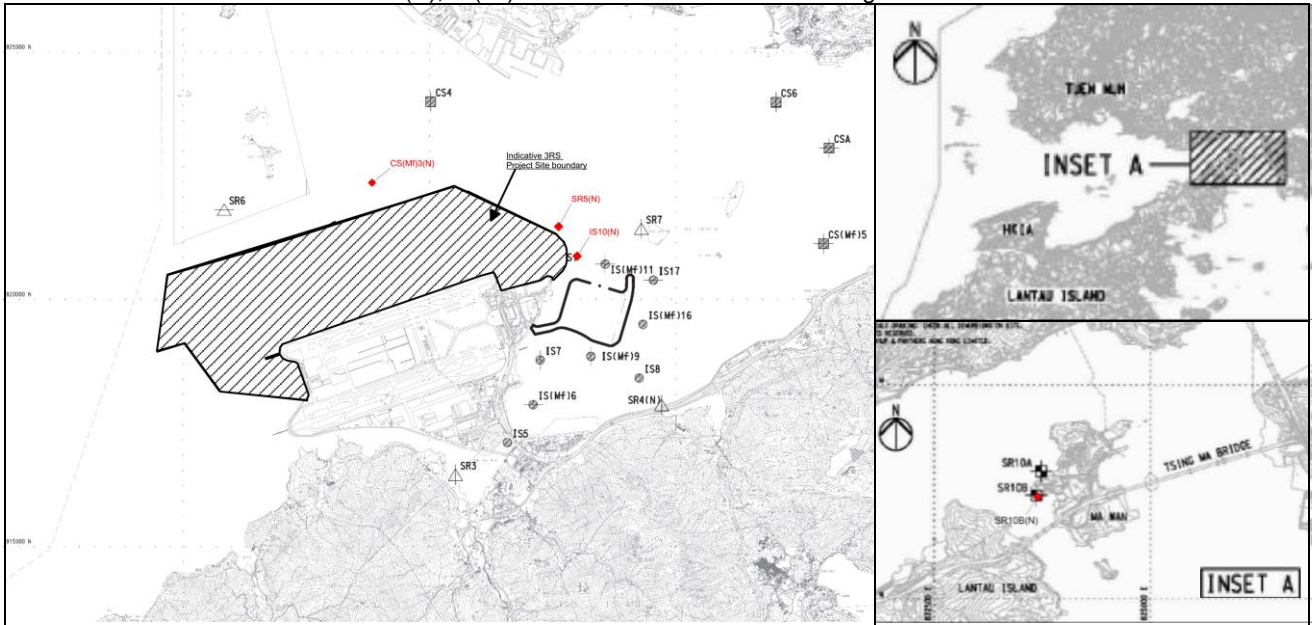
**Bold with underline** means LL exceedances.

Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4

Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

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

On 8 September 2017, nine AL exceedances of DO recorded at IS7, IS10(N), IS(Mf)16, IS17, SR3 and SR6 were recorded during mid-ebb tide, fifteen AL exceedances of DO recorded at IS5, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR3, SR4(N), SR5(N), SR6, SR7 and SR10A were recorded during mid-flood tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-ebb tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide, one AL exceedance of TURB recorded at IS5 was recorded during mid-ebb tide and three AL exceedances of TURB recorded at IS10(N), IS(Mf)11 and SR6 were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 8 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau

Title : ET Leader



Date : 9 October 2017

Copied to : Contractor and Engineer Representative

Date of Notification: 19 September 2017

Date of Investigation Report: 25 September 2017

Works Inspected: Data collected from water sampling works on 8 September 2017 and the results were issued on 18 September 2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS5	Depth Average	23.5 and 120% (i.e. 20.4 for mid-ebb/10.5 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 22.1 for mid-ebb/11.4 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	28.4	8.7
	IS10(N)				19.5	<b><u>35.5</u></b>
	IS(Mf)11				15.4	<b>33.2</b>

Notes:

AL means Action Level.

LL means Limit Level.

**Bold** means AL exceedances.

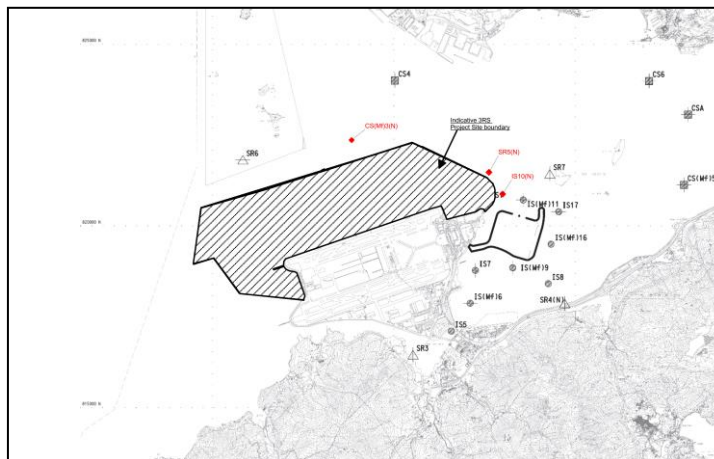
**Bold with underline** means LL exceedances.

Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4

Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

Possible reason for Action and Limit Level Non-compliance:

On 8 September 2017, one AL exceedance of SS recorded at IS5 was recorded during mid-ebb tide. One AL exceedance of SS recorded at IS(Mf)11 and one LL exceedance of SS at IS10(N) were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 8 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

Actions taken/ to be taken:

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau

Title : ET Leader

*Keith Chau*

Date : 25 September 2017

Copied to : Contractor and Engineer Representative

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170911DO\_v1

**Date of Notification:** 15 September 2017 **Date of Investigation Report:** 6 October 2017

**Works Inspected:** Data collected from water sampling works on 11 September 2017 and the results were issued on 14 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

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

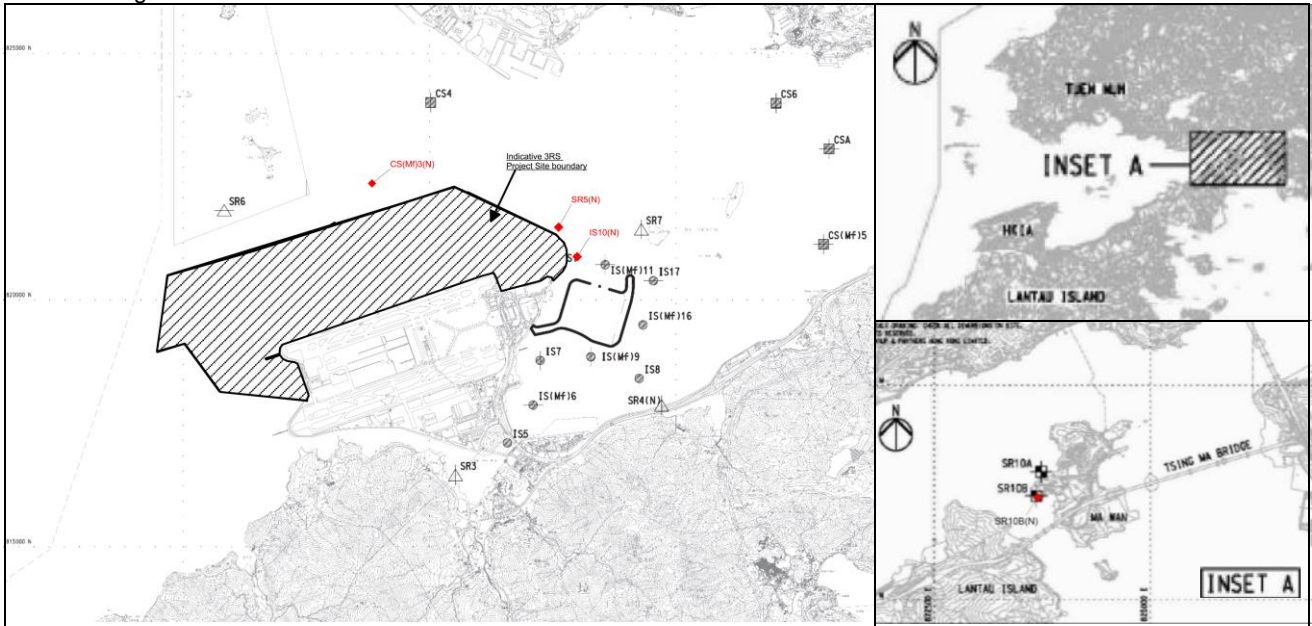
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS8	Surface and Middle	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	5.2	<b>4.8</b>
		Bottom			5.0	<b>4.6</b>
	IS(Mf)9	Surface and Middle			5.3	<b>4.8</b>
	IS10(N)	Surface and Middle			<b>4.9</b>	<b>4.6</b>
		Bottom			4.8	<b>4.4</b>
	IS(Mf)11	Surface and Middle			<b>4.9</b>	<b>4.6</b>
		Bottom			<b>4.6</b>	<b>4.5</b>
	IS(Mf)16	Surface and Middle			5.2	<b>4.7</b>
		Bottom			<b>4.3</b>	<b>4.6</b>
	IS17	Surface and Middle			<b>4.8</b>	<b>4.5</b>
		Bottom			<b>4.2</b>	<b>4.2</b>
	SR4(N)	Surface and Middle			5.3	<b>4.8</b>
	SR5(N)	Surface and Middle			<b>4.7</b>	<b>4.6</b>
		Bottom			<b>4.6</b>	<b>4.6</b>
	SR6	Surface and Middle			<b>4.7</b>	<b>4.7</b>
		Bottom			4.7	<b>4.6</b>
	SR7	Surface and Middle			<b>4.9</b>	<b>4.7</b>
	SR10A	Surface and Middle			5.2	<b>4.5</b>
		Bottom			5.1	<b>4.1</b>
	SR10B(N)	Surface and Middle			<b>4.8</b>	<b>4.2</b>
Bottom		<b>4.6</b>	<b>4.0</b>			

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA



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

On 11 September 2017, eleven AL exceedances of DO recorded at IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR5(N), SR6, SR7 and SR10B(N) were recorded during mid-ebb tide, nineteen AL exceedances of DO recorded at IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR4(N), SR5(N), SR6, SR10A and SR10B(N) were recorded during mid-flood tide. One LL exceedance of DO recorded at SR10B(N) was recorded during mid-ebb tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 11 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader



Date : 6 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170913DO\_v1

**Date of Notification:** 19 September 2017 **Date of Investigation Report:** 6 October 2017

**Works Inspected:** Data collected from water sampling works on 13 September 2017 and the results were issued on 18 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

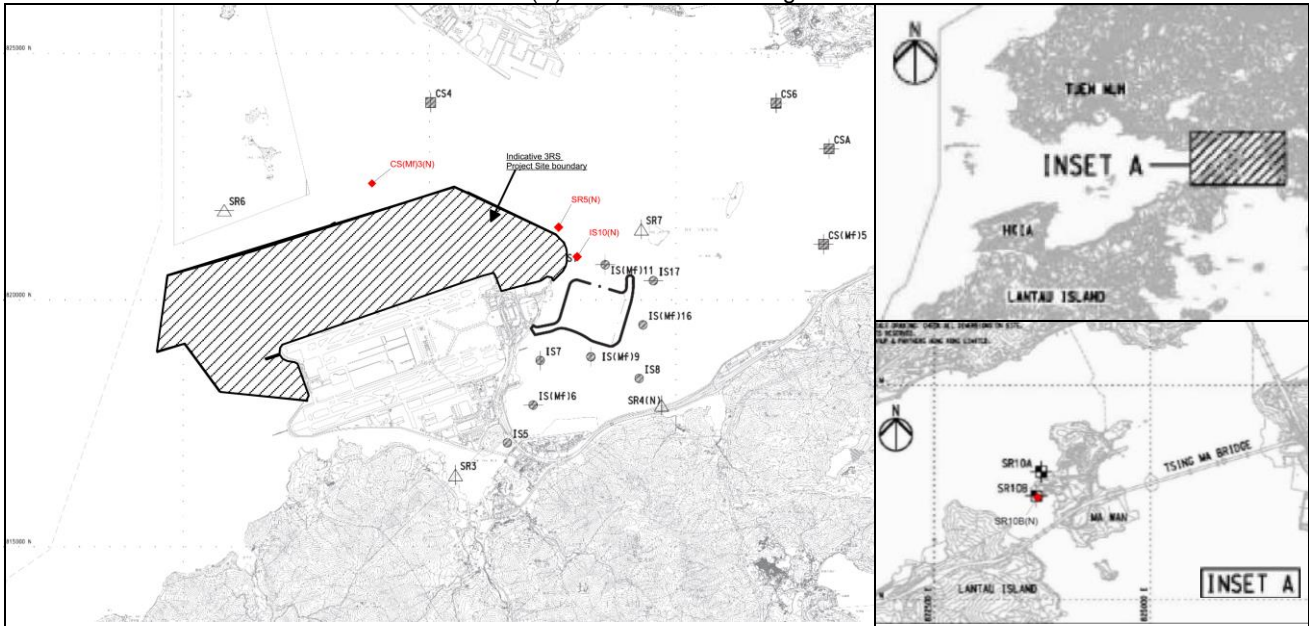
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.1</b>	<b>4.1</b>
	IS(Mf)9	Bottom			6.5	<b>4.2</b>
	IS10(N)	Surface and Middle			<b>4.7</b>	5.0
	IS(Mf)11	Surface and Middle			5.1	<b>4.9</b>
	IS(Mf)16	Bottom			<b>4.1</b>	<b>4.2</b>
	IS17	Surface and Middle			5.0	<b>4.9</b>
		Bottom			<b>3.8</b>	<b>4.1</b>
	SR5(N)	Surface and Middle			<b>4.8</b>	5.5
	SR10A	Surface and Middle			<b>4.9</b>	<b>4.4</b>
		Bottom			5.2	<b>3.9</b>
	SR10B(N)	Surface and Middle			5.2	<b>4.4</b>
		Bottom			5.4	<b>4.1</b>

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

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

On 13 September 2017, five AL exceedances of DO recorded at IS5, IS10(N), IS(Mf)16, IS17 and SR5(N) were recorded during mid-ebb tide, eight AL exceedances of DO recorded at IS5, IS(Mf)9, IS(Mf)11, IS(Mf)16, IS17, SR10A and SR10B(N) were recorded during mid-flood tide. One LL exceedance of DO recorded at SR10A was recorded during mid-ebb tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 13 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

*Keith* Date : 6 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

**Date of Notification:** 21 September 2017 **Date of Investigation Report:** 12 October 2017

**Works Inspected:** Data collected from water sampling works on 15 September 2017 and the results were issued on 19 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

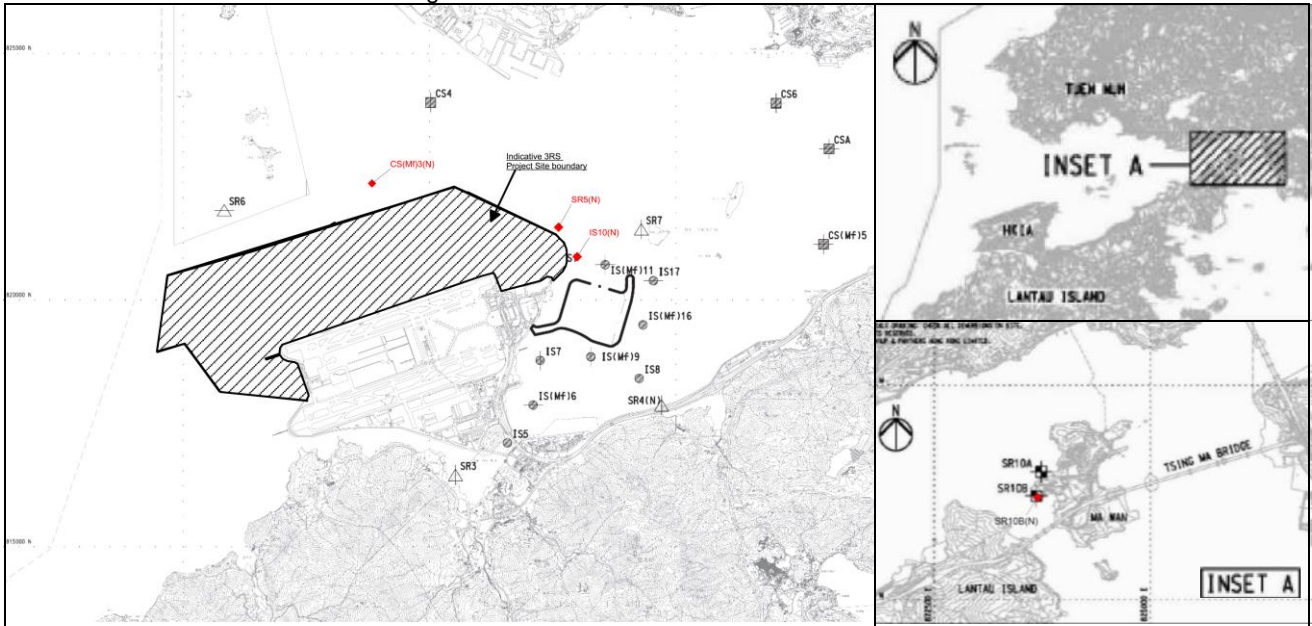
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS10(N)	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.2</b>	<b>4.5</b>
	IS(Mf)11	Surface and Middle			<b>4.1</b>	<b>4.7</b>
	IS17	Surface and Middle			<b>4.9</b>	5.7
		Bottom			<b>3.9</b>	4.7
	SR6	Surface and Middle			5.5	<b>4.8</b>
		Bottom			4.7	<b>4.5</b>
	SR10A	Surface and Middle			5.5	<b><u>4.7</u></b>
		Bottom			5.4	<b>3.9</b>
	SR10B(N)	Surface and Middle			5.4	<b><u>4.6</u></b>
		Bottom			5.0	<b>4.3</b>
TURB	IS8	Depth Average	27.5 and 120% (i.e. 19.6 for mid-ebb/15.4 for mid-flood) of upstream control station's turbidity at the same tide of the same day	47.0 and 130% (i.e. 21.2 for mid-ebb/16.7 for mid-flood) of upstream control station's turbidity at the same tide of the same day	10.6	<b><u>95.4*</u></b>

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA  
\*The muddy water was observed due to 3 fast boats were moving around near the monitoring location during measurement period.

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

On 15 September 2017, four AL exceedances of DO recorded at IS10(N), IS(Mf)11 and IS17 were recorded during mid-ebb tide, six AL exceedances of DO recorded at IS10(N), IS(Mf)11, SR6, SR10A and SR10B(N) were recorded during mid-flood tide and two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide. One AL exceedance of TURB recorded at IS8 was recorded during mid-flood tide.




As confirmed by the Contractor, there were no marine transportation and marine-based work on 15 September 2017. No site runoff within the Contract site has been observed. The muddy water was observed due to 3 fast boats were moving around near the monitoring station IS8 during measurement period. No observation photos were taken during measurement period.

Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader



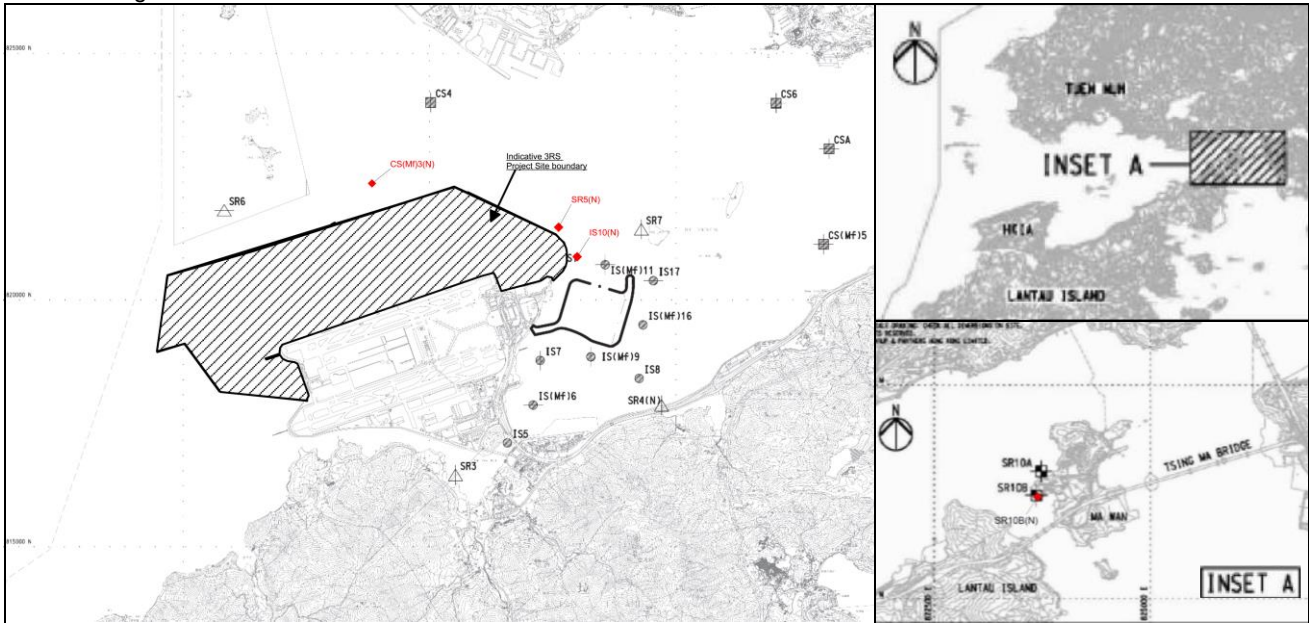
Date : 12 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

<b>Contract No. HY/2013/01 -  Hong Kong- Zhuhai- Macao Bridge  Hong Kong Boundary Crossing Facilities – Passenger Clearance Building  Notifications of Environmental Quality Limits Exceedances</b>							Notification No.: 20170918DO_SS_v1
<b>Date of Notification:</b> 27 September 2017				<b>Date of Investigation Report:</b> 27 September 2017			
<b>Works Inspected:</b> Data collected from water sampling works on 18 September 2017 and the results were issued on 27 September 2017							
<b>Monitoring Location:</b> Water Quality Monitoring Station							
<b>Parameter:</b> Dissolved Oxygen (DO)/ Suspended Solid (SS)/ Turbidity (TURB)							
<b>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</b>							
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)	
DO	IS5	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.5</b>	5.8	
	IS10(N)	Bottom			<b>4.6</b>	5.0	
	IS(Mf)11	Bottom			<b>4.6</b>	5.0	
	IS(Mf)16	Bottom			<b>4.4</b>	5.0	
	SR6	Surface and Middle			<b>4.7</b>	<b>4.4</b>	
		Bottom			<b>4.5</b>	<b>4.3</b>	
	SR10A	Surface and Middle			5.5	<b><u>4.7</u></b>	
SR10B(N)	Surface and Middle	5.4	<b><u>4.9</u></b>				
SS	IS8	Depth Average	23.5 and 120% (i.e. 9.9 for mid-ebb/13.4 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 10.8 for mid-ebb/14.5 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	6.3	<b>25.0</b>	
Notes: AL means Action Level. LL means Limit Level. <b>Bold</b> means AL exceedances. <b>Bold with underline</b> means LL exceedances. Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA							

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


On 18 September 2017, six AL exceedances of DO recorded at IS5, IS10(N), IS(Mf)11, IS(Mf)16 and SR6 were recorded during mid-ebb tide, two AL exceedances of DO recorded at SR6 were recorded during mid-flood tide, two LL exceedances of DO recorded at SR10A and SR10B(N) were recorded during mid-flood tide and one AL exceedance of SS recorded at IS8 was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 18 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader  
  
Date : 27 September 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170920DO\_SS\_v1

**Date of Notification:** 25 September 2017 **Date of Investigation Report:** 11 October 2017

**Works Inspected:** Data collected from water sampling works on 20 September 2017 and the results were issued on 29 September 2017

**Monitoring Location:** Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	SR6	Surface and Middle	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	5.1	<b>4.5</b>
		Bottom			5.0	<b>4.6</b>
	SR10A	Surface and Middle			5.0	<b>4.5</b>
		Bottom			4.7	<b>4.5</b>
SR10B(N)	Surface and Middle	5.0	<b>4.5</b>			
SS	SR6	Depth Average	23.5 and 120% (i.e. 16.7 for mid-ebb/19.0 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 18.1 for mid-ebb/20.6 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	10.4	<b>25.4</b>

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA





Contract No. HY/2013/01 -

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Notifications of Environmental Quality Limits Exceedances

Notification No.: 20170922DO\_v1

Date of Notification: 27 September 2017

Date of Investigation Report: 11 October 2017

Works Inspected: Data collected from water sampling works on 22 September 2017 and the results were issued on 26 September 2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS8	Surface and Middle	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	5.2	<b>4.8</b>
	IS(Mf)9	Surface and Middle			5.3	<b>4.9</b>
	IS10(N)	Surface and Middle			<b>4.8</b>	<b>4.8</b>
		Bottom			<b>4.6</b>	4.8
	IS(Mf)11	Surface and Middle			<b>4.7</b>	<b>4.9</b>
	IS(Mf)16	Surface and Middle			5.1	<b>4.8</b>
	IS17	Surface and Middle			5.0	<b>4.8</b>
	SR3	Surface and Middle			<b>4.9</b>	5.0
	SR4(N)	Surface and Middle			5.2	<b>4.8</b>
	SR5(N)	Surface and Middle			<b>4.9</b>	<b>4.8</b>
	SR6	Surface and Middle			<b>4.8</b>	<b>4.8</b>
	SR7	Surface and Middle			5.0	<b>4.8</b>
	SR10A	Surface and Middle			<b>4.9</b>	<b>4.7</b>
	SR10B(N)	Surface and Middle			<b>4.8</b>	<b>4.6</b>
Bottom		4.9	<b>4.5</b>			

Notes:

AL means Action Level.

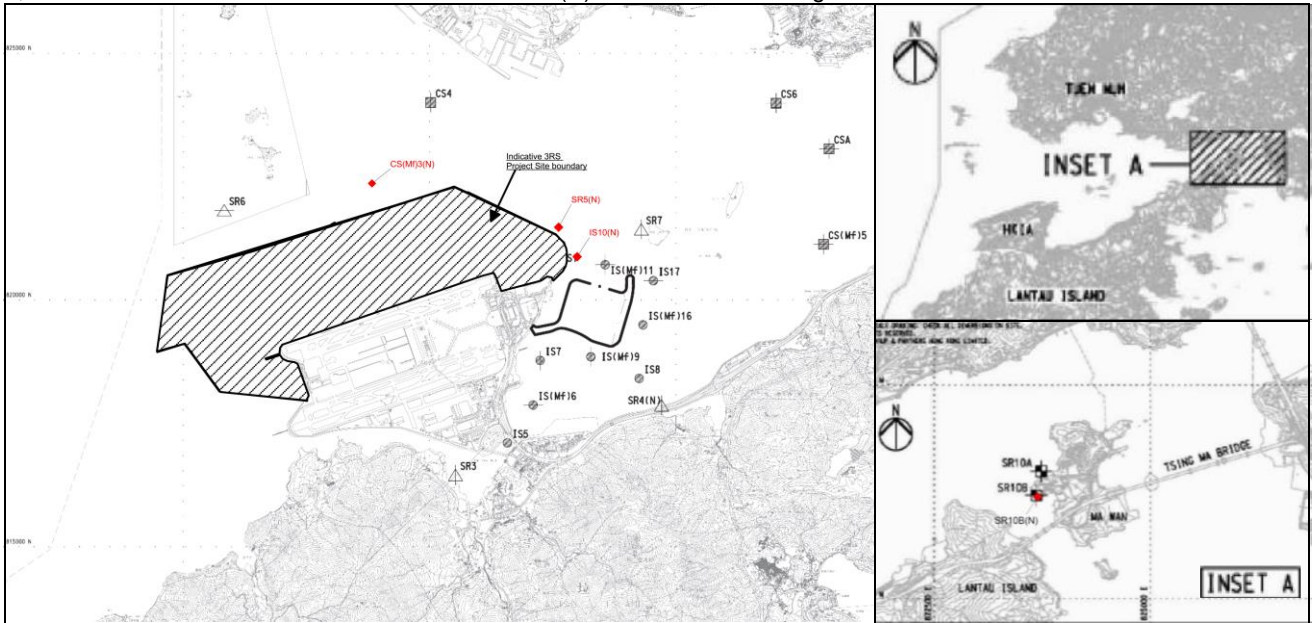
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

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

On 22 September 2017, six AL exceedances of DO at IS10(N), IS(Mf)11, SR3, SR5(N) and SR6 were recorded during mid-ebb tide, two LL exceedances of DO at SR10A and SR10B(N) were recorded during mid-ebb tide. Eleven AL exceedances of DO at IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17, SR4(N), SR5(N), SR6, SR7 and SR10B(N) were recorded during mid-flood tide, two LL exceedances of DO at SR10A and SR10B(N) were recorded during mid-flood tide.




As confirmed by the Contractor, there were no marine transportation and marine-based work on 22 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

 Date : 11 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

**Contract No. HY/2013/01 - Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances** Notification No.: 20170925DO\_SS\_v1

**Date of Notification:** 3 October 2017 **Date of Investigation Report:** 11 October 2017

**Works Inspected:** Data collected from water sampling works on 25 September 2017 and the results were issued on 6 October 2017

**Monitoring Location:** Water Quality Monitoring Station

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

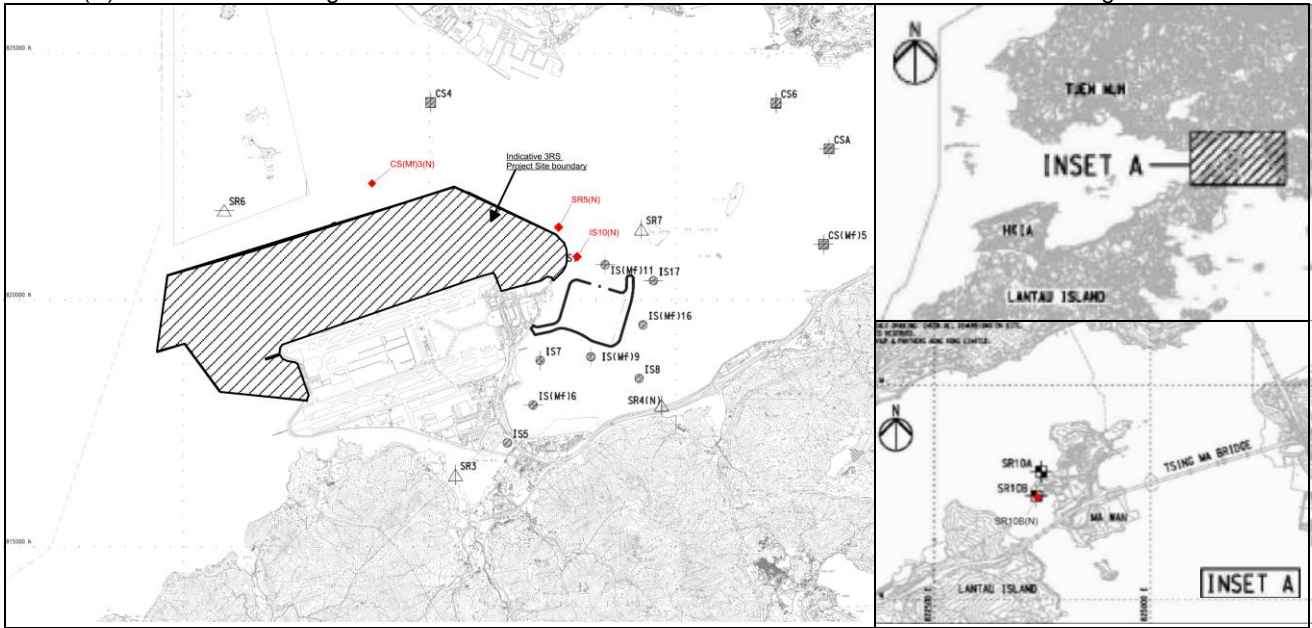
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	SR10B(N)	Surface and Middle	Surface and Middle 5.0	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	5.1	<b><u>4.7</u></b>
		Bottom	Bottom 4.7		5.0	<b>4.6</b>
SS	IS8	Depth Average	23.5 and 120% (i.e. 7.3 for mid-ebb/9.1 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 7.9 for mid-ebb/9.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	11.3	<b>30.4</b>

Notes:  
AL means Action Level.  
LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.  
Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4  
Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

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


On 25 September 2017, one AL exceedance of DO at SR10B(N) was recorded during mid-flood tide, one LL exceedance of DO at SR10B(N) was recorded during mid-flood tide and one AL exceedance of SS at IS8 was recorded during mid-flood tide..



As confirmed by the Contractor, there were no marine transportation and marine-based work on 25 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau  


Title : ET Leader

Date : 11 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

**Contract No. HY/2013/01 -**  
**Hong Kong- Zhuhai- Macao Bridge**  
**Hong Kong Boundary Crossing Facilities – Passenger Clearance Building**  
**Notifications of Environmental Quality Limits Exceedances**
Notification No.: 20170927DO\_v1

**Date of Notification:** 4 October 2017
 **Date of Investigation Report:** 10 October 2017

**Works Inspected:** Data collected from water sampling works on 27 September 2017 and the results were issued on 3 October 2017

**Monitoring Location:** Water Quality Monitoring Station

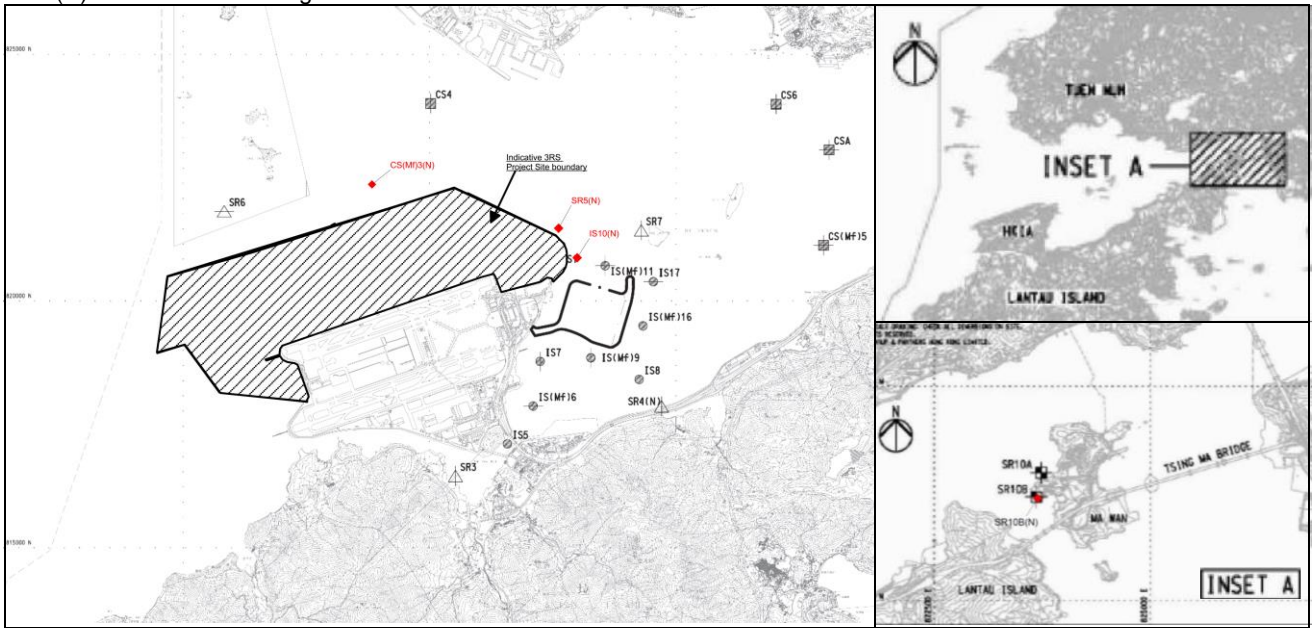
**Action & Limit Level (AL & LL) / Measured Level:**

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS10(N)	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.6</b>	5.0
DO	IS17	Bottom			<b>4.6</b>	4.8
DO	SR5(N)	Bottom			<b>4.6</b>	5.0
DO	SR10A	Bottom			5.3	<b>4.6</b>
DO	SR10B(N)	Surface and Middle			5.0	<b><u>4.7</u></b>
		Bottom			<b>4.4</b>	<b>4.4</b>

**Notes:**  
 AL means Action Level.  
 LL means Limit Level.  
**Bold** means AL exceedances.  
**Bold with underline** means LL exceedances.

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

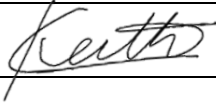
On 27 September 2017, four AL exceedances of DO at IS10(N), IS17, SR5(N) and SR10B(N) were recorded during mid-ebb tide. Two AL exceedance of DO at SR10A and SR10B(N) were recorded during mid-flood tide, one LL exceedance of DO at SR10B(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 27 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader  
 Date : 10 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO

Contract No. HY/2013/01 -

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Notifications of Environmental Quality Limits Exceedances

Notification No.: 20170929DO\_v3

Date of Notification: 9 October 2017

Date of Investigation Report: 17 October 2017

Works Inspected: Data collected from water sampling works on 29 September 2017 and the results were issued on 6 October 2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS5	Bottom	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<b>4.8</b>	<b>4.4</b>
	IS7	Bottom			<b>4.3</b>	15.0*
	IS8	Bottom			<b>4.4</b>	5.7
	IS10(N)	Surface and Middle			<b>4.8</b>	6.2
		Bottom			<b>4.2</b>	<b>4.2</b>
	IS(Mf)11	Bottom			<b>4.6</b>	<b>4.1</b>
	IS(Mf)16	Bottom			<b>4.4</b>	5.5
	IS17	Bottom			4.7	<b>4.2</b>
	SR5(N)	Bottom			<b>4.3</b>	<b>4.2</b>
SR10B(N)	Bottom	<b>4.5</b>	5.0			

Notes:

AL means Action Level.

LL means Limit Level.

**Bold** means AL exceedances.

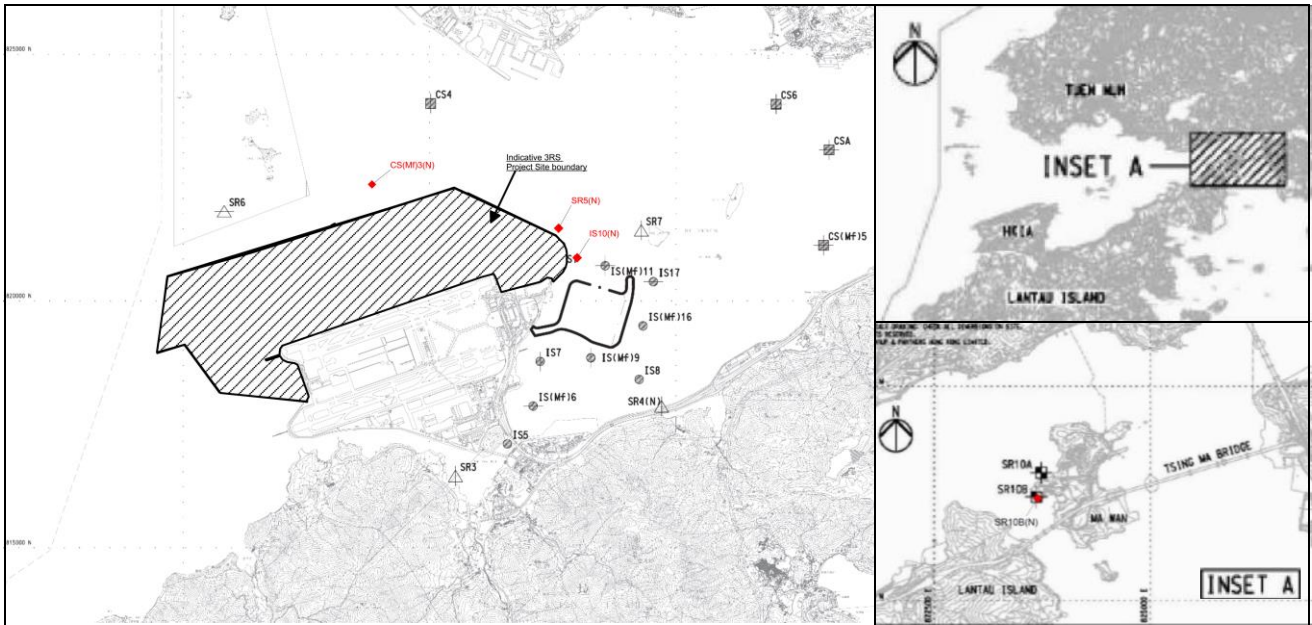
**Bold with underline** means LL exceedances.

\* Red tide was observed by water sampling team near WQM stations SR3, IS5, IS(Mf)6, IS7 and IS(Mf)6 during mid-flood tide on 29 September 2017.



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

On 29 September 2017, eight AL exceedances of DO at IS7, IS8, IS10(N), IS(Mf)11, IS(Mf)16, SR5(N) and SR10B(N) were recorded during mid-ebb tide. Five AL exceedance of DO at IS5, IS10(N), IS(Mf)11, IS17 and SR5(N) were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 29 September 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

**Actions taken/ to be taken:**

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

*Keith* Date : 17 October 2017

Copied to : Contractor, Engineer Representative and IEC/ENPO