Notifications of Environmental Quality Limits Exceedances

Notification No.: 258s ver 1

Date of Notification: 8 December 2017

Works Inspected: Data collected from water sampling works on 4 December 2017 and the results were issued on 8 December 2017

### Monitoring Location: Water Quality Monitoring Station

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

Action &	Limit Level (A	L & LL) / N	leasured Level:			
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)
SS	SR5(N)	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day	<b>34.4</b> and 130% of upstream control station's suspended solids at the same tide of the same day	8.1	<u>36.3</u>
SS	IS10(N)	DA	(i.e. CS2(A): 25.78 x 120% = <b>30.9</b> for mid ebb; CS(Mf)5: 10.42 x 120% = <b>12.5</b> for mid flood)	(i.e. CS2(A): 25.78 x 130% = <b>33.5</b> for mid ebb; CS(Mf)5: 10.42 x 130% = <b>13.5</b> for mid flood)	9.1	30.4

Notes:

DA means depth average. 1)

2) Bold Italic means AL exceedances.

3) Bold Italic with underline means LL exceedances.

# Possible reasons for Action and Limit Level Non-compliance:

On 4 December 2017, a Limit Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide, and an Action Level exceedance of suspended solid was recorded at station IS10(N) during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to the contract works due to the following reasons:

Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.

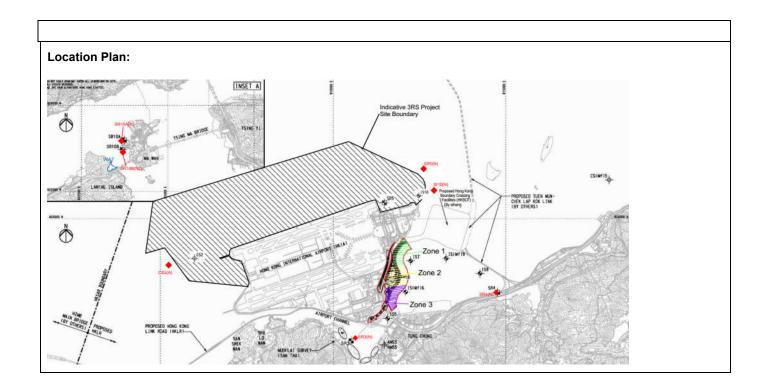
2.	The ranges of sus	pended solid at stations	s SR5 and IS10 during	g the baseline monitoring	g are shown as below:
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Station	Range	of Suspended Mid-Ebb Tid	( 0 )	Range of Suspended Solid (mg/L) Mid-Flood Tide		
SR5	6.7	to	16.5	6.5	to	31.2
IS10	6.1	to	20.2	7.2	to	16.0

The measured value for mid-flood tide at stations SR5(N) and IS10(N) was above the range of suspended solid for mid-flood tide during baseline monitoring.

- During sampling exercise, water was observed moderate at station SR5(N) and turbid at station IS10(N). There was no marine transportation near stations SR5(N) and IS10(N) during sampling period and no marine works were conducted near monitoring stations SR5(N) and IS10(N) which are located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the 4. monitoring results. As such, the exceedances of suspended solid level are considered to be attributed to other external factors such as sea condition, rather than the contract works.

# Actions taken/ to be taken:



Reviewed by	: Willie Wong	Title :	Deputy ET Leader
	My	Date :	22 December 2017
Copied to	: Supervising Officer, IEC, EPD, Contractor, I	ENPO	

Notifications of Environmental Quality Limits Exceedances

Notification No.: 259s ver 1

Date of Notification: 15 December 2017

Works Inspected: Data collected from water sampling works on 6 December 2017 and the results were issued on 13 December 2017

#### Monitoring Location: Water Quality Monitoring Station

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

Action &	Action & Limit Level (AL & LL) / Measured Level:								
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)			
SS	SR5(N)	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 23.62 x 120% = 28.3 for mid ebb; CS(Mf)5: 10.63 x 120% = 12.8 for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 23.62 x 130% = <b>30.7</b> for mid ebb; CS(Mf)5: 10.63 x 130% = <b>13.8</b> for mid flood)	8.9	26.5			

Notes:

- 1) DA means depth average.
- 2) Bold Italic means AL exceedances.
- 3) **Bold Italic with underline** means LL exceedances.

# Possible reasons for Action Level Non-compliance:

On 6 December 2017, an Action Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

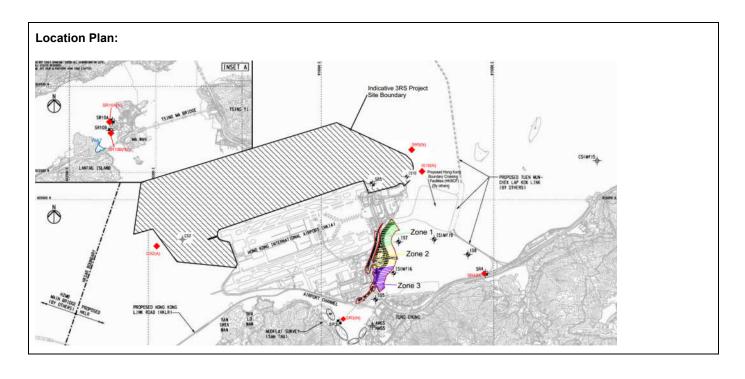
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station SR5 during the baseline monitoring are shown as below:

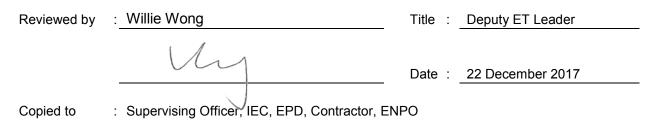
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide			of Suspended Mid-Flood T	
SR5	6.7	to	16.5	6.5	to	31.2

The measured value for mid-flood tide at station SR5(N) was within the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water was observed moderate at station SR5(N). There was no marine transportation near station SR5(N) during sampling period and no marine works were conducted near station SR5(N) which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:





Notifications of Environmental Quality Limits Exceedances

Notification No.: 260s ver 1

Date of Notification: 15 December 2017

Works Inspected: Data collected from water sampling works on 8 December 2017 and the results were issued on 13 December 2017

#### Monitoring Location: Water Quality Monitoring Station

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

Action &	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 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 39.45 x 120% = 47.3 for mid ebb; CS(Mf)5: 10.78 x 120% = 12.9 for mid flood)	34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 39.45 x 130% = 51.3 for mid ebb; CS(Mf)5: 10.78 x 130% = 14.0 for mid flood)	21.5	28.4			

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 8 December 2017, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

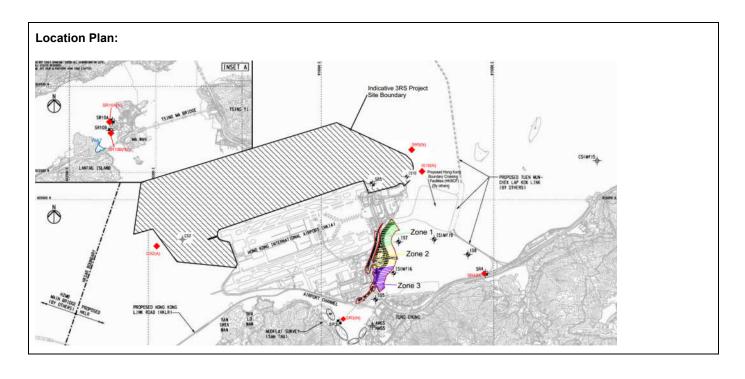
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

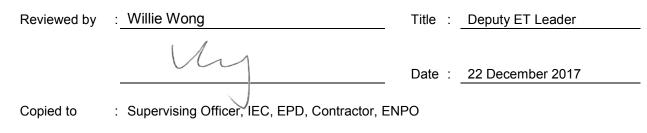
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS8	5.5	to	25.5	5.8	to	31.3	

The measured value for mid-flood tide at station IS8 was within the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water was observed moderate at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:





Notifications of Environmental Quality Limits Exceedances

Notification No.: 261s ver 0

Date of Notification: 20 December 2017

Works Inspected: Data collected from water sampling works on 13 December 2017 and the results were issued on 19 December 2017

### Monitoring Location: Water Quality Monitoring Station

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

Action &	Action & Limit Level (AL & LL) / Measured Level:								
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)			
SS	IS(Mf)9	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 8.12 x 120% = 9.7 for mid ebb; CS(Mf)5: 5.42 x 120% = 6.5 for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 8.12 x 130% = <b>10.6</b> for mid ebb; CS(Mf)5: 5.42 x 130% = <b>7.0</b> for mid flood)	10.7	26.5			

Notes:

- 1) DA means depth average.
- 2) Bold Italic means AL exceedances.
- 3) **Bold Italic with underline** means LL exceedances.

# Possible reasons for Action Level Non-compliance:

On 13 December 2017, an Action Level exceedance of suspended solid was recorded at station IS(Mf)9 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

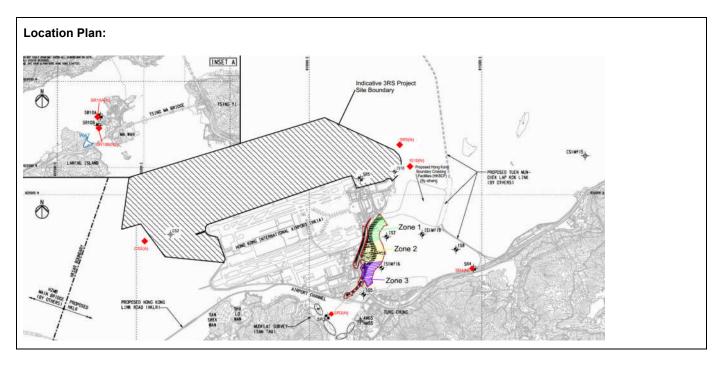
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS(Mf)9 during the baseline monitoring are shown as below:

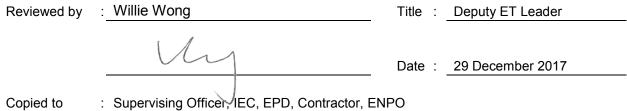
Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range	Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS(Mf)9	5.5	to	20.1	7.3	to	26.0	

The measured value for mid-flood tide at station IS(Mf)9 was slightly above the range of suspended solid for mid-flood tide during baseline monitoring.

- During sampling exercise, water was observed moderate at station IS(Mf)9. There was no marine transportation near station IS(Mf)9 and no marine works were conducted near monitoring station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:





Notifications of Environmental Quality Limits Exceedances

Notification No.: 262s ver 0

Date of Notification: 29 December 2017

Works Inspected: Data collected from water sampling works on 18 December 2017 and the results were issued on 27 December 2017

### Monitoring Location: Water Quality Monitoring Station

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

Action &	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 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 24.97 x 120% = 30.0 for mid ebb; CS(Mf)5: 13.23 x 120% = 15.9 for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 24.97 x 130% = <b>32.5</b> for mid ebb; CS(Mf)5: 13.23 x 130% = <b>17.2</b> for mid flood)	10.2	28.3			

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 18 December 2017, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

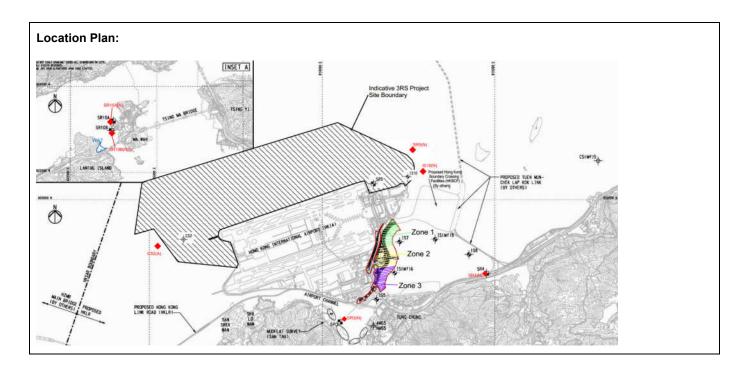
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

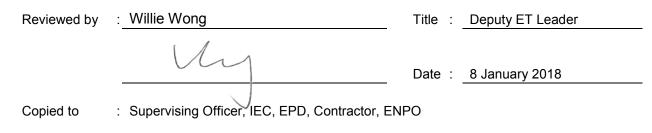
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS8	5.5	to	25.5	5.8	to	31.3	

The measured value for mid-flood tide at station IS8 was within the range of suspended solid for mid-flood tide during baseline monitoring.

- During sampling exercise, water was observed clear at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near monitoring station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:





### 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 Notif

Notification No.: 263s ver 0

Date of Notification: 2 January 2018

Works Inspected: Data collected from water sampling works on 20 December 2017 and the results were issued on 27 December 2017

#### Monitoring Location: Water Quality Monitoring Station

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

Action &	Action & Limit Level (AL & LL) / Measured Level:									
PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)				
SS	IS(Mf)9	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 9.23 x 120% = 11.1 for mid ebb; CS(Mf)5: 9.32 x 120% = 11.2 for mid flood)	<b>34.4</b> and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 9.23 x 130% = <b>12.0</b> for mid ebb; CS(Mf)5: 9.32 x 130% = <b>12.1</b> for mid flood)	7.7	26.3				

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 20 December 2017, an Action Level exceedance of suspended solid was recorded at station IS(Mf)9 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

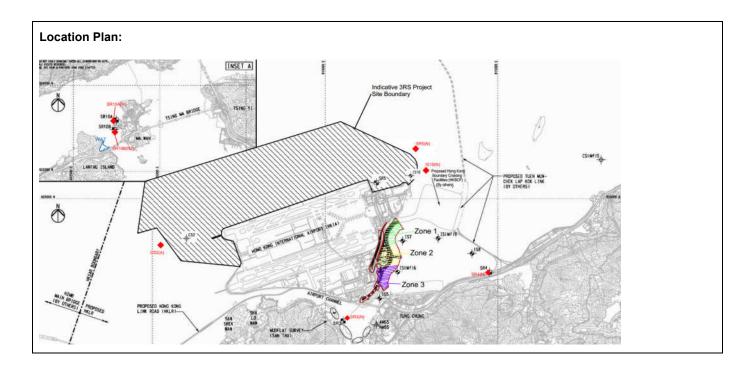
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS(Mf)9 during the baseline monitoring are shown as below:

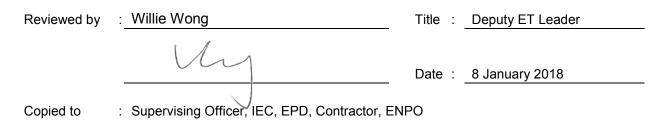
Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS(Mf)9	5.5	to	20.1	7.3	to	26	

The measured value for mid-flood tide at station IS(Mf)9 was slightly above the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water was observed clear at station IS(Mf)9. There was no marine transportation near station IS(Mf)9 during sampling period and no marine works were conducted near monitoring station IS(Mf)9 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:





#### 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.: 264 ver 0

Date of Notification: 2 January 2018 and 5 January 2018

Works Inspected: 24-hr TSP monitoring was undertaken on 19, 23 December 2017 and the test report was issued on 27 December 2017 and 3 January 2018 respectively

Monitoring Location: AMS6 – Dragon Air Building

Parameter: 24-hour TSP monitoring

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

PARAMETER	STATION	<u>AL (µg/m³)</u>	<u>LL (µg/m³)</u>	MEASURED LEVEL, µg/m <sup>3</sup>				
19 Dec 2017, 24-hr TSP (8:00 – 8:00 hours)	Dragonair Building (AMS6)	173	260	251				
23 Dec 2017, 24-hr TSP (8:00 – 8:00 hours)	Dragonair Building (AMS6)	173	260	253				
Notes: Bold Italic means AL exceedance								

Bold Italic with underline means LL exceedance

#### Possible reason for Action Level Non-compliance:

Action Level exceedances of 24-hr TSP level were recorded at AMS6 - Dragonair Building on 19 and 23 December 2017. respectively.

According to the information provided by the Contractor, fill materials excavation, road paving works and vehicle movement were undertaken at construction site S16 which is located near AMS6 during the sampling period.

The Air Quality Health Index recorded by EPD at the Tung Chung station ranged from 3 (low) to 5 (moderate) during the sampling period (8:00 hrs, 19 Dec 2017 to 8:00 hrs, 20 Dec 2017) and 3 (low) to 8 (very high) during the sampling period (8:00 hrs, 23 Dec 2017 to 8:00 hrs, 24 Dec 2017). According to information provided by the Contractor, water spraying was provided for fill materials to maintain the entire surface in a damp condition before excavation and haul roads were sprayed with water by water trucks regularly. During site observation on 20 and 28 December 2017, no fugitive dust emission was noted by ET at construction site near monitoring station AMS6. It was noted that no Action and Limit Level exceedances of 1-hr TSP were recorded at AMS6 in December 2017.

#### Actions taken/ to be taken:

Based on the investigation results, the Contractor has implemented the dust control measures throughout the construction phase. No fugitive dust emission was noted by ET on 20 and 28 December 2017 at construction site near monitoring station AMS6. The exceedances recorded at monitoring station AMS6 is unlikely related to the Contract. Due to power interruption and motor failure of High Volume Sampler, the 24-hr TSP monitoring at AMS6 on 29 December 2017 was cancelled. ET will continuously monitor 24-hr TSP level at AMS6 to ensure compliance with relevant criterial throughout the construction period. In the meantime, the Contractor is reminded to continuously implement dust control measures throughout the construction phase.

Reviewed by

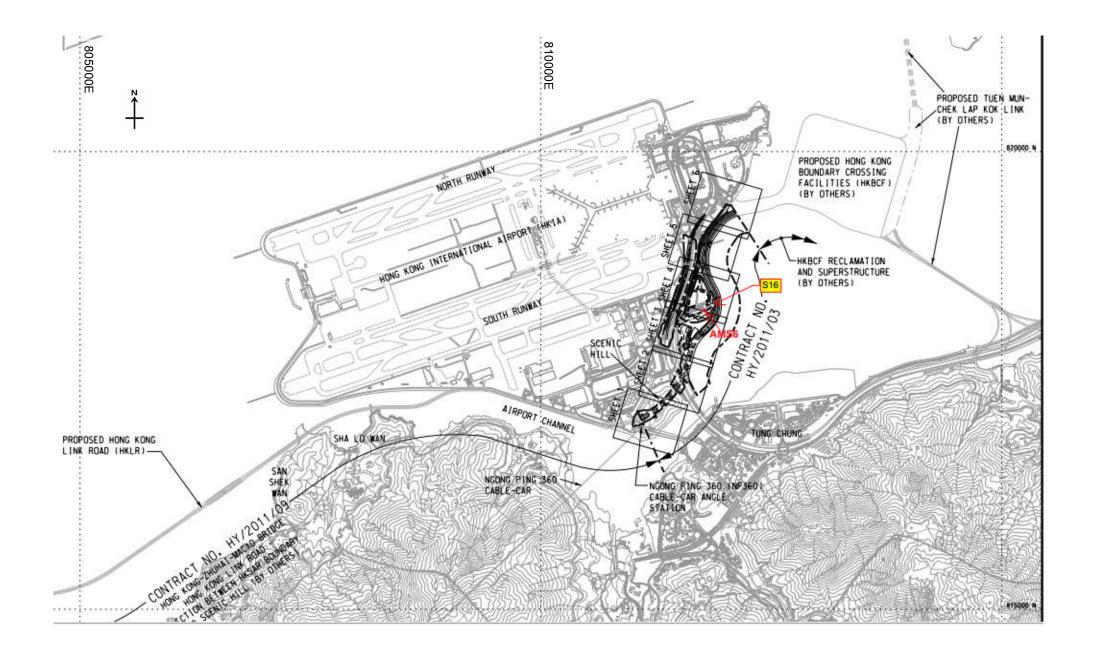
: Willie Wong

Title : Deputy ET Leader

Date: 8 January 2018

Copied to

: Supervising Officer, EC, EPD, Contractor, ENPO



Notifications of Environmental Quality Limits Exceedances

Notification No.: 265s ver 1

Date of Notification: 16 January 2018

**Works Inspected:** Data collected from water sampling works on 8 January 2018 and the results were issued on 15 January 2018

#### Monitoring Location: Water Quality Monitoring Station

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

#### Action & Limit Level (AL & LL) / Measured Level: MEASURED AT MID-MEASURED AT MID-PARAM STATION DEPTH AL (mg/L) LL (mg/L) EBB TIDE (mg/L) FLOOD TIDE (mg/L) 34.4 and 130% of 23.5 and 120% of upstream control upstream control station's station's suspended solids suspended solids at the same tide of at the same tide of the same day the same day IS8 24.9 11.4 SS DA (i.e. (i.e. CS2(A): (see note CS2(A): (see note 4) for mid ebb; 4) for mid ebb; CS(Mf)5: 7.13 x CS(Mf)5: 7.13x 120% = 8.6 for 130% = 9.3 for mid mid flood) flood)

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

3) Bold Italic with underline means LL exceedances.

4) Water quality monitoring was not conducted at station CS2(A) during mid ebb and mid flood tide on 8 January 2018 due to rough sea condition and safety concern.

# Possible reasons for Action Level Non-compliance:

On 8 January 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

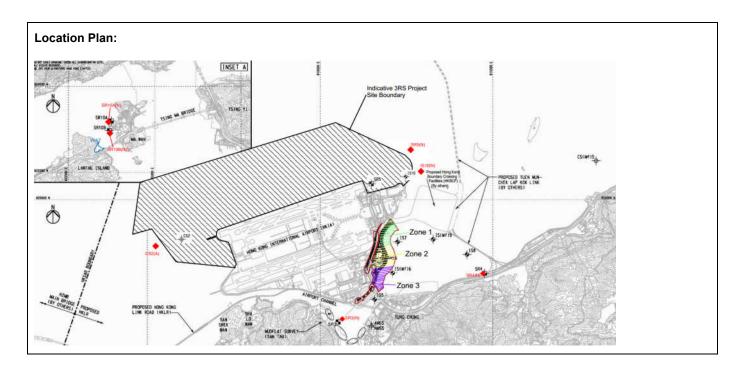
- 1. Seawall construction, road and drainage construction at Zones 1 and 2; box culvert construction at Zones 2 and 3; road and drainage work, land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS8	5.5	to	25.5	5.8	to	31.3	

The measured value for mid-ebb tide at station IS8 was below the range of suspended solid for mid-ebb tide during baseline monitoring.

- 3. During sampling exercise, water appearance was observed moderate at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:



Reviewed by	: Claudine Lee	Title : ET Leader
	$\mathcal{O}$	
		Date : 8 February 2018
• • • • •		

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.: 266a ver 2

Date of Notification: 23 January 2018

Works Inspected: 1-hr TSP monitoring was undertaken on 22 January 2018

# Monitoring Location: AMS5 - Ma Wan Chung Village

# Parameter: 1-hour TSP monitoring

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

PARAMETER	STATION	<u>AL (μg/m³)</u>	<u>LL (µg/m³)</u>	MEASURED LEVEL, µg/m <sup>3</sup>
1-hr TSP (09:00 – 10:00 hours)	Ma Wan Chung Village (AMS5)	352	500	349
1-hr TSP (10:00 – 11:00 hours)	Ma Wan Chung Village (AMS5)	352	500	398
1-hr TSP (11:00 – 12:00 hours)	Ma Wan Chung Village (AMS5)	352	500	391

#### Notes: Bold Italic means AL exceedance

Bold Italic with underline means LL exceedance

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

Two Action Level exceedances of 1-hr TSP level were recorded for monitoring period from 09:00 – 12:00 hours at AMS5 – Ma Wan Chung Village, on 22 January 2018.

According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period:

### Zone 1

- Seawall Construction
- Road and Drainage Construction

#### Zone 2

- Seawall Construction
- Road and Drainage Construction

#### Zone 3A, 3B and 3C

- Seawall Construction
- Land Transportation of Fill Material
- Box Culvert Construction
- Road and Drainage Work

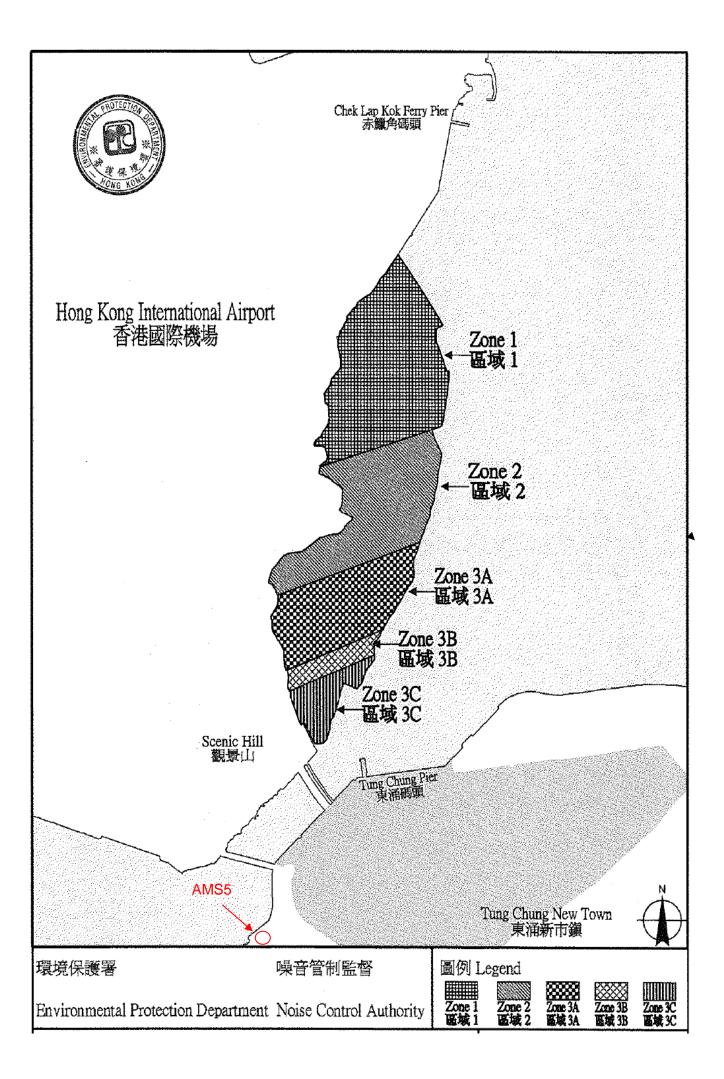
The Contractor confirmed that water spraying had been provided for fill materials to maintain the entire surface in a damp condition before loading and unloading and haul roads were sprayed with water by water trucks regularly. The fill material in dump trucks were covered to avoid generating dust. During the site visit undertaken on 26 January 2018, no significant dust emission was observed by ET at the construction site near monitoring station AMS5. Except the exceedances recorded on 22 January 2018, no Action and Limit Level exceedances of 1-hr TSP were recorded at AMS5 on other monitoring day in January 2018 (i.e. 4, 10, 16 and 26 January 2018) and no Action and Limit Level exceedances of 24-hr TSP were recorded at AMS5 in January 2018.

The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station ranged from 3 (low) to 6 (moderate) during the sampling period on 22 January 2018. The general weather condition during the monitoring period was hazy with low visibility. The hazy weather could cause higher readings of the portable dust meter.

# Actions taken/ to be taken:

The Contractor had properly implemented dust control measures efficiently throughout the construction phase. Mitigation measures such as water spraying by water truck was applied regularly. No significant dust emission was observed by ET on 26 January 2018 at construction site near monitoring station AMS5. The Contractor is reminded to continuously implement the dust mitigation measures as specified in Environmental Mitigation Implementation Schedule (EMIS), Environmental Management Plan, Method Statements, General and Particular Specifications of this Contract throughout the construction phase.

Reviewed by	:	Claudine Lee	Title	:	ET Leader
		Clan.	Date	:	13 February 2018
Copied to	:	Supervising Officer, IEC, EPD, Contractor, E	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.: 267a ver 2

Date of Notification: 23 January 2018

### Works Inspected: 1-hr TSP monitoring was undertaken on 22 January 2018

# Monitoring Location: AMS6 – Dragonair Building

### Parameter: 1-hour TSP monitoring

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

PARAMETER	STATION	<u>AL (µg/m³)</u>	<u>LL (µg/m³)</u>	MEASURED LEVEL, μg/m <sup>3</sup>
1-hr TSP (13:00 – 14:00 hours)	Dragonair Building (AMS6)	360	500	386
1-hr TSP (14:00 – 15:00 hours)	Dragonair Building (AMS6)	360	500	400
1-hr TSP (15:00 – 16:00 hours)	Dragonair Building (AMS6)	360	500	412

#### Notes: Bold Italic means AL exceedance

Bold Italic with underline means LL exceedance

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

Three Action Level exceedances of 1-hr TSP level were recorded for monitoring period from 13:00 – 16:00 hours at AMS6, Dragonair Building, on 22 January 2018.

According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period:

#### Zone 1

- Seawall Construction
- Road and Drainage Construction

#### Zone 2

- Seawall Construction
- Road and Drainage Construction

# Zone 3A, 3B and 3C

- Seawall Construction
- Land Transportation of Fill Material
- Box Culvert Construction Road and Drainage Work
- Road and Drainage Work

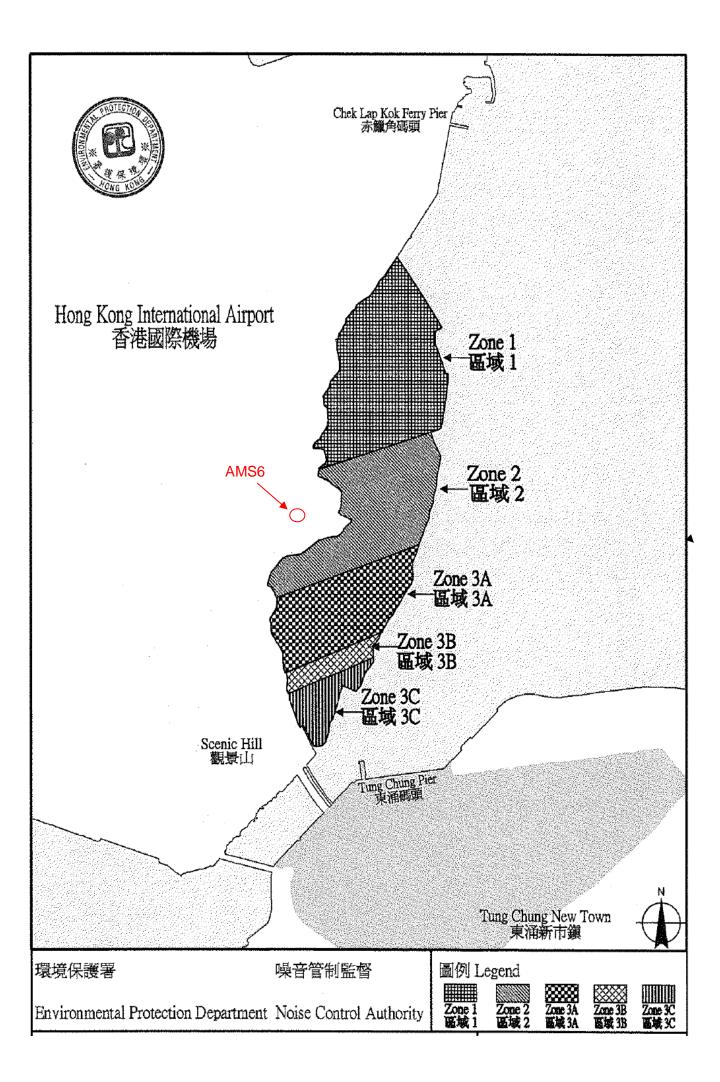
The Contractor confirmed that water spraying had been provided for fill materials to maintain the entire surface in a damp condition before loading and unloading and haul roads were sprayed with water by water trucks regularly. The fill material in dump trucks were covered to avoid generating dust. During the site visit undertaken on 26 January 2018, no significant dust emission was observed by ET at the construction site near monitoring station AMS6. Except the exceedances recorded on 22 January 2018, no Action and Limit Level exceedances of 1-hr TSP were recorded at AMS6 on monitoring day in January 2018 (i.e 4, 10, 16, 26 January 2018) and no Action and Limit Level exceedances of 24-hr TSP were recorded at AMS6 in January 2018.

The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station ranged from 8 (very high) to 10+ (serious) during the sampling period on 22 January 2018. The general weather condition during the monitoring period was hazy with low visibility. The hazy weather could cause higher readings of the portable dust meter.

# Actions taken/ to be taken:

The Contractor had properly implemented dust control measures efficiently throughout the construction phase. Mitigation measures such as water spraying by water truck was applied regularly. No significant dust emission was observed by ET on 26 January 2018 at construction site near monitoring station AMS6. The Contractor is reminded to continuously implement the dust mitigation measures as specified in Environmental Mitigation Implementation Schedule (EMIS), Environmental Management Plan, Method Statements, General and Particular Specifications of this Contract throughout the construction phase.

Reviewed by	:	Claudine Lee	Title	:	ET Leader
		Ch-	Date	:	13 February 2018
Copied to	:	Supervising Officer, IEC, EPD, Contractor, EN	PO		



#### 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.: 268s ver 1

Date of Notification: 29 January 2018

**Works Inspected:** Data collected from water sampling works on 22 January 2018 and the results were issued on 26 January 2018

### Monitoring Location: Water Quality Monitoring Station

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

#### Action & Limit Level (AL & LL) / Measured Level: MEASURED AT MID-MEASURED AT MID-PARAM STATION DEPTH AL (mg/L) LL (mg/L) EBB TIDE (mg/L) FLOOD TIDE (mg/L) 23.5 and 120% of 34.4 and 130% of upstream control upstream control station's station's suspended solids suspended solids at the same tide of at the same tide of the same day the same day IS8 SS DA (i.e. (i.e. 9.9 24.7 CS2(A): 6.70 x CS2(A): 6.70 x 120%= 8.0 for 130%= 8.7 for mid mid ebb; ebb; CS(Mf)5: 11.70 x CS(Mf)5: 11.70 x 120% = **14.0** for 130% = **15.2** for mid flood) mid flood)

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 22 January 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

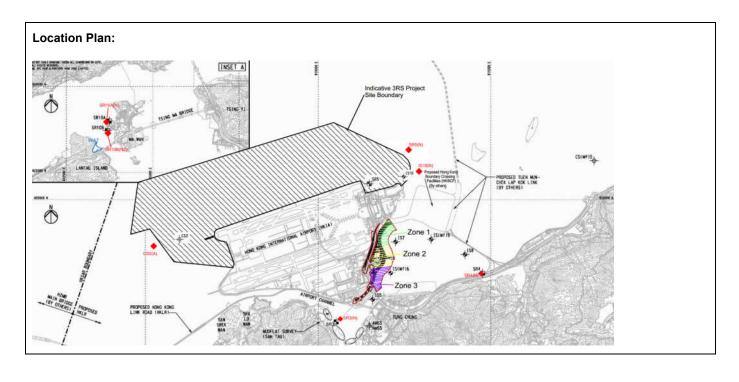
- 1. Seawall construction, road and drainage construction at Zones 1 and 2; box culvert construction at Zones 2 and 3; road and drainage work, land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS8	5.5	to	25.5	5.8	to	31.3	

The measured value for mid-flood tide at station IS8 was below the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water appearance was observed moderate at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:



Reviewed by	: Claudine Lee	Title : ET Leader
	Clan.	Date : _ 8 February 2018
Copied to	: Supervising Officer, IEC, EPD, Contractor, El	NPO

Notifications of Environmental Quality Limits Exceedances

Notification No.: 269s ver 0

Date of Notification: 1 February 2018

**Works Inspected:** Data collected from water sampling works on 24 January 2018 and the results were issued on 31 January 2018

### Monitoring Location: Water Quality Monitoring Station

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

#### Action & Limit Level (AL & LL) / Measured Level: MEASURED AT MID-MEASURED AT MID-PARAM STATION DEPTH AL (mg/L) LL (mg/L) EBB TIDE (mg/L) FLOOD TIDE (mg/L) 23.5 and 120% of 34.4 and 130% of upstream control upstream control station's station's suspended solids suspended solids at the same tide of at the same tide of the same day the same day IS8 SS DA (i.e. (i.e. 24.9 12.7 CS2(A): 12.07 x CS2(A): 12.07 x 120% = **14.5** for 130% = **15.7** for mid ebb; mid ebb; CS(Mf)5: 8.78 x CS(Mf)5: 8.78 x 120% = 10.5 for 130% = **11.4** for mid flood) mid flood)

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 24 January 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

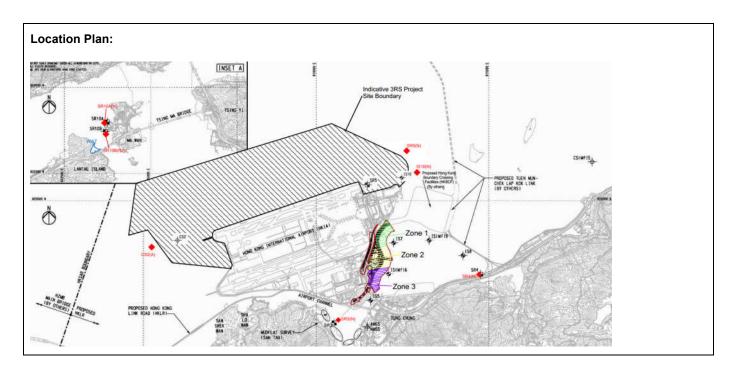
- 1. Seawall construction, road and drainage construction at Zones 1 and 2; box culvert construction at Zones 2 and 3; road and drainage work, land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS8	5.5	to	25.5	5.8	to	31.3	

The measured value for mid-flood tide at station IS8 was below the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water appearance was observed clear at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:



Reviewed by	: Claudine Lee	Title : ET Leader
	Cl	Date : 6 February 2018
Copied to	: Supervising Officer, IEC, EPD, Contractor, E	NPO

Notifications of Environmental Quality Limits Exceedances

Notification No.: 270s ver 0

Date of Notification: 13 February 2018

Works Inspected: Data collected from water sampling works on 5 February 2018 and the results were issued on 12 February 2018

### Monitoring Location: Water Quality Monitoring Station

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

#### Action & Limit Level (AL & LL) / Measured Level: MEASURED AT MID-MEASURED AT MID-PARAM STATION DEPTH AL (mg/L) LL (mg/L) EBB TIDE (mg/L) FLOOD TIDE (mg/L) 23.5 and 120% of 34.4 and 130% of upstream control upstream control station's station's suspended solids suspended solids at the same tide of at the same tide of the same day the same day IS8 (i.e. SS DA (i.e. 8.8 28.5 CS2(A): 15.55 x CS2(A): 15.55 x 120% = **18.7** for 130% = **20.2** for mid ebb; mid ebb; CS(Mf)5: 10.38 x CS(Mf)5: 10.38 x 120% = **12.5** for 130% = **13.5** for mid flood) mid flood)

Notes:

DA means depth average. 1)

2) Bold Italic means AL exceedances.

Bold Italic with underline means LL exceedances. 3)

# Possible reasons for Action Level Non-compliance:

On 5 February 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

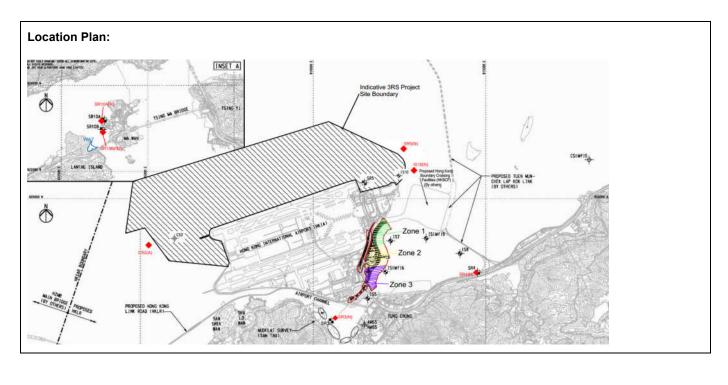
- Seawall construction, road and drainage construction at Zones 1 and 2; land transportation of fill material, backfilling 1. activities at Zones 2 and 3; seawall construction, box culvert construction and road and drainage work at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS8	5.5	to	25.5	5.8	to	31.3

The measured value for mid-flood tide at station IS8 was below the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water appearance was observed moderate at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:



Reviewed by	: Claudine Lee	Title : ET Leader
	<u>A</u>	
		Date : 6 March 2018

# 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.: 271s ver 0

Date of Notification: 20 February 2018

**Works Inspected:** Data collected from water sampling works on 7 February 2018 and the results were issued on 14 February 2018

### Monitoring Location: Water Quality Monitoring Station

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

#### Action & Limit Level (AL & LL) / Measured Level: MEASURED AT MID-MEASURED AT MID-PARAM STATION DEPTH AL (mg/L) LL (mg/L) EBB TIDE (mg/L) FLOOD TIDE (mg/L) 23.5 and 120% of 34.4 and 130% of upstream control upstream control station's station's suspended solids suspended solids at the same tide of at the same tide of the same day the same day (i.e. SS IS(Mf)9 DA (i.e. 12.2 23.7 CS2(A): 11.78 x CS2(A): 11.78 x 120% = **14.1** for 130% = **15.3** for mid ebb; mid ebb; CS(Mf)5: 9.43 x CS(Mf)5: 9.43 x 120% = 11.3 for 130% = **12.3** for mid flood) mid flood)

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

# Possible reasons for Action Level Non-compliance:

On 7 February 2018, an Action Level exceedance of suspended solid was recorded at station IS(Mf)9 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

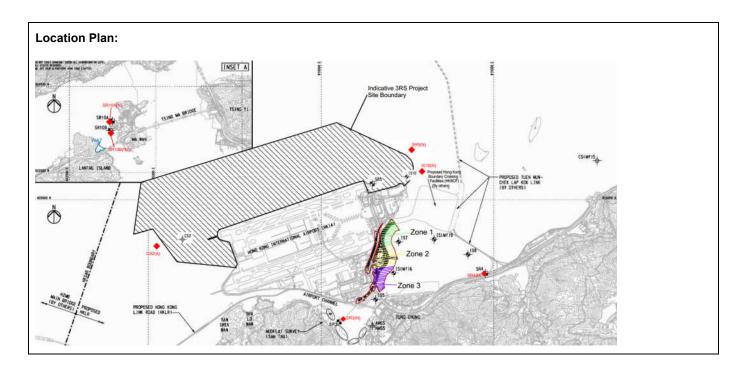
- 1. Seawall construction, road and drainage construction at Zones 1 and 2; land transportation of fill material, backfilling activities at Zones 2 and 3; seawall construction, box culvert construction and road and drainage work at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended solid at station IS(Mf)9 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS(Mf)9	5.5	to	20.1	7.3	to	26

The measured value for mid-flood tide at station IS(Mf)9 was below the range of suspended solid for mid-flood tide during baseline monitoring.

- 3. During sampling exercise, water appearance was observed moderate at station IS(Mf)9. There was no marine transportation near station IS(Mf)9 during sampling period and no marine works were conducted near station IS(Mf)9 which is located outside the site boundary of HKLR03 Contract. No abnormity or malpractice for the contract works was observed during the sampling exercise.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of 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:



Reviewed by	: Claudine Lee	Title :	ET Leader
		Date :	6 March 2018
Copied to	: Supervising Officer, IEC, EPD, Contractor, E	NPO	

#### 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.: 272 ver 0

Date of Notification: 28 February 2018

Works Inspected: Not Applicable

### Monitoring Location: NEL & NWL

Parameter: Ecology (Chinese White Dolphin Monitoring)

Action & L	imit Levels.
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Action & Emilt Levels			Monitoring Results
	North Lantau Social Cluster		The quarter of December 2017 – February 2018
	Action Level (AL)	Limit Level (LL)	
Northeast Lantau (NEL)	STG < 4.2 & ANI < 15.5	NEL: (STG < 2.4 & ANI <8.9)	STG = 0; ANI = 0
Northwest Lantau (NWL)	STG < 6.9 & ANI < 31.3	and NWL: (STG < 3.9 & ANI <17.9)	STG = 4.75; ANI = 15.73

Monitoring Results

Notes:

1. STG means quarterly encounter rate of number of dolphin sightings.

2. ANI means quarterly encounter rate of total number of dolphins.

3. For North Lantau Social Cluster, AL will be triggered if either NEL or NWL falls below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

4. Bold Italic means AL exceedances.

5. <u>Bold Italic with underline</u> means LL exceedances

# Possible reason for Action Level Non-compliance:

There were two Action Level exceedances of dolphin monitoring for the quarterly monitoring data (between December 2017 – February 2018). According to the contractor's information, the marine activities undertaken for HKLR03 during the quarter of December 2017 – February 2018 included seawall construction, box culvert construction, road and drainage construction and road and drainage works.

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

According to Monitoring of Chinese White Dolphins in Southwest Lantau Waters – Fourth Quarterly Report (December 2015 to February 2016) which is available on ENPO's website, with their primary ranges centered in North and West Lantau waters, some individuals showed apparent range shifts or extensions to Southwest Lantau waters in 2015-16. For example, three individual dolphins (NL120, WL46 and WL221) indicated obvious shifts in their range use from NWL to West Lantau (WL) and Southwest Lantau (SWL) waters. Moreover, many individuals (e.g. NL212, NL260, WL200, SL55, WL232, WL237 and WL265) have extended their ranges from WL waters to SWL waters. It remains to be seen whether some of these individuals have permanently shifted their ranges away from their primary ranges in North Lantau, or begin to spend more times in SWL waters as part of their ranges.

ENPO updated that the Hong Kong-Zhuhai-Macao Bridge Authority (HZMBA) for the Mainland section of Hong Kong-Zhuhai-Macao Bridge (HZMB) has commenced an interim survey on fisheries resources and CWD in the Mainland waters. ENPO presented the preliminary findings of the HZMBA interim survey on CWD sighting and photo-identification works which provide solid evidence that some CWD that were previously more often sighted in HK waters have expanded their ranges into the Mainland waters, and some with reduced usage in HK waters. These preliminary data were mentioned in Monitoring of Chinese White Dolphins in Southwest Lantau Waters – Fourth Quarterly Report (December 2015 to February 2016) which is available on ENPO's website.

# Actions taken/ to be taken:

Inform the IEC, ENPO, ER/SOR and Contractor

The ETL informed IEC, ENPO, SOR and Contractor via email on 28 February 2018.

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

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

For the comparison between the baseline period and the present quarter (21<sup>st</sup> quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0127 and 0.0470 respectively. If the alpha value is set at 0.05, significant differences were detected between the baseline and present quarters in both the average dolphin encounter rates of STG and ANI.

For comparison between the baseline period and the cumulative quarters in impact phase (i.e. first 21 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000000 and 0.000000 respectively. Even if the alpha value is set at 0.00001, significant differences were still detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).

Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences:

The AFCD monitoring data during December 2017 to February 2018 has been reviewed by the dolphin specialist. During the same quarter, no dolphin was sighted from 68.08 km of survey effort on primary lines in NEL, while five groups of 18 dolphins were sighted from 89.41 km of survey effort on primary lines in NWL. This review has confirmed that the low occurrence of dolphins reported by the HKLR03 monitoring surveys in winter 2017-18 in NEL and NWL survey area is accurate.

#### Recommendations/ mitigation measures/ actions if necessary:

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

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

A meeting was held on 7 March 2018 with attendance of representative of ENPO, Resident Site Staff (RSS), Environmental Team (ET) and dolphin specialist for Contract Nos. HY/2013/01, HY/2011/03, HY/2011/09, HY/2012/07, HY/2012/08. The discussion/ recommendation as raised in the meeting which might be relevant to HKLR03 Contract are summarized below.

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

The dolphin specialists of the projects confirmed that the CWD sighting around the North of Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP) has significantly decreased, and it was likely related to the re-routing of high speed ferry (HSF) from Skypier.

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

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

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

HyD updated that the draft map of the proposed Brothers Marine Park (BMP) was gazetted in February 2016. ENPO updated that the BMP was approved by the Chief Executive in the Executive Council in August 2016. The ETs were reminded to update the BMP boundary in the Regular Marine Travel Route (RMTR) Plan. The BMP was designated on 30 December 2016. It was suggested that the protection measures (e.g. speed limit control) for the approved BMP shall be brought forward so as to provide a better habitat for dolphin recovery. It was noted that under the latest RMTR Plan, the contractors have committed to reduce the vessel speed in BMP.

The marine travel route will shift along the edge of Brother Marine Park as much as practical under the RMTR Plan. It was noted that even though marine vessels may moor within the mooring site of BMP, commercial activities including loading / unloading / transshipment are not allowed except a permit is obtained. The HZMB works vessels were recommended to avoid the BMP.

It was remined that starting from January 2016, HSF from the SkyPier will be re-routed north to the northern edged of the Sha Chau and Lung Kwu Chau Marine Park which currently has the highest density of CWD in the NWL. While the HSF will reduce speed to 15 knots, the associated disturbance may still affect CWD in the area. It was implied that the CWDs in the area shall be closely followed.

There was a discussion on exploring possible further mitigation measures, for example, controlling the underwater noise. It was noted that the EIA reports for the projects suggested several mitigation measures, all of which have been implemented.

Reviewed by	:	Claudine Lee	Title :	ET Leader
			Date :	20 June 2018
Copied to	:	Supervising Officer, ENPO, IEC, EPD, Contract	tor	

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A

# Summary of Notifications of Summons and Prosecutions