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	AL & 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	34.4 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% = 30.9 for mid ebb; CS(Mf)5: 10.42 x 120% = 12.5 for mid flood)	(i.e. CS2(A): 25.78 x 130% = 33.5 for mid ebb; CS(Mf)5: 10.42 x 130% = 13.5 for mid flood)	9.1	30.4

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

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

Possible reasons for Action 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.

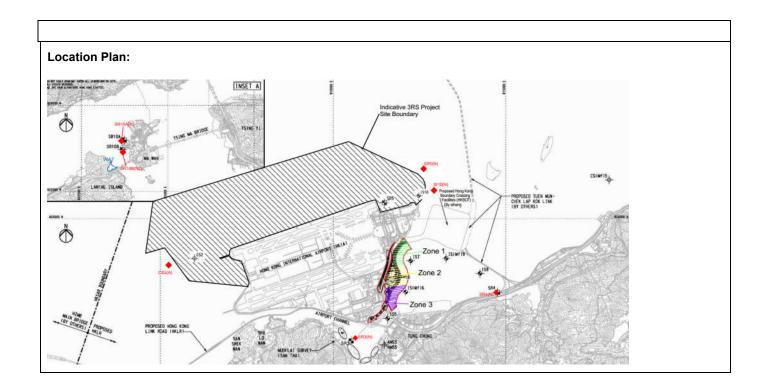
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	The ranges of suspended solid at stations	SR5 200 IS 10 0000	a me naseline monilorina	n are shown as below.
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Station	Range	of Suspended Mid-Ebb Tic	(0)	Range of Suspended Solid (mg/L) Mid-Flood Tide		
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.

- 3. 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.
- 4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the 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)	34.4 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% = 30.7 for mid ebb; CS(Mf)5: 10.63 x 130% = 13.8 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:

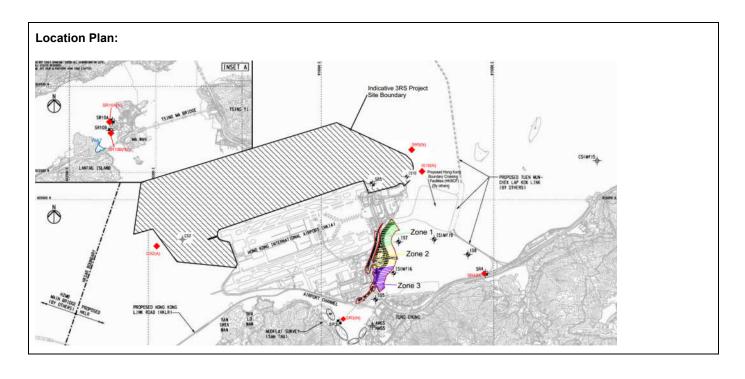
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended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

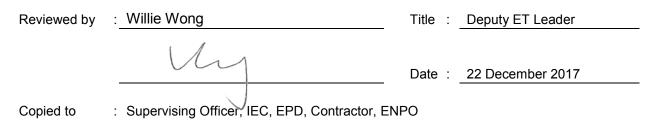
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
SR5	6.7	to	16.5	6.5	to	31.2	

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:

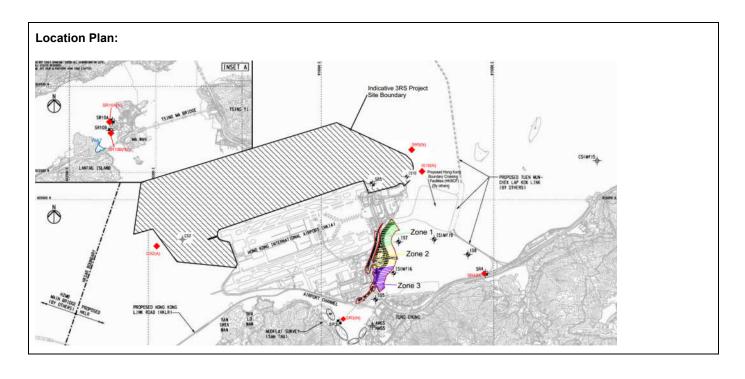
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended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

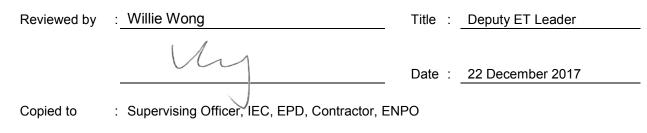
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS8	5.5	to	25.5	5.8	to	31.3

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)	34.4 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% = 10.6 for mid ebb; CS(Mf)5: 5.42 x 130% = 7.0 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:

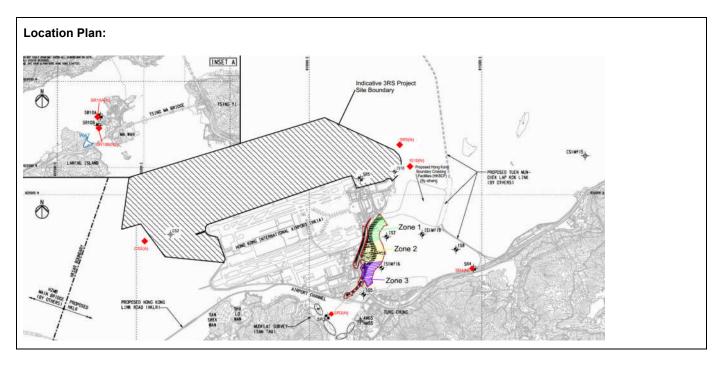
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended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

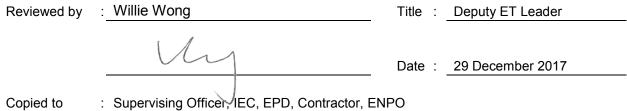
Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide			
IS(Mf)9	5.5	to	20.1	7.3	to	26.0

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)	34.4 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% = 32.5 for mid ebb; CS(Mf)5: 13.23 x 130% = 17.2 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:

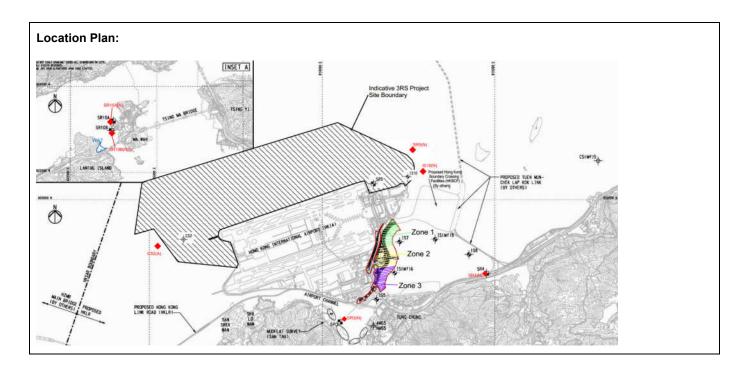
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended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

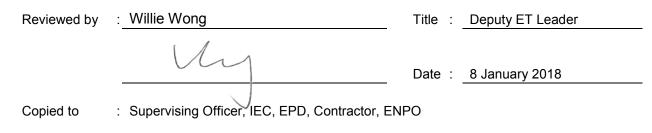
Station	Range	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS8	5.5	to	25.5	5.8	to	31.3

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 & 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)	34.4 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% = 12.0 for mid ebb; CS(Mf)5: 9.32 x 130% = 12.1 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:

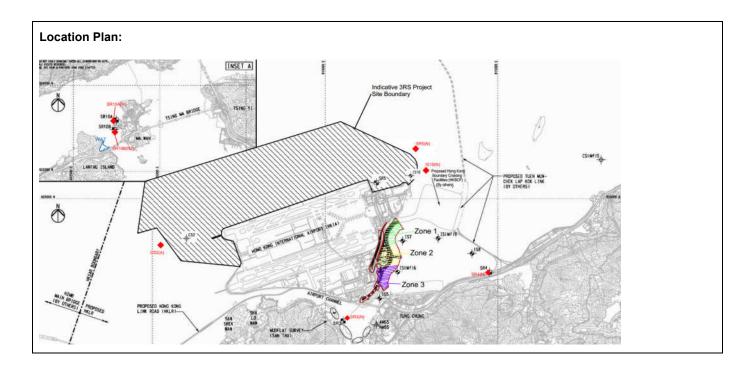
- 1. Seawall construction at Zones 1, 2 and 3; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; and land transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
- 2. The ranges of suspended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

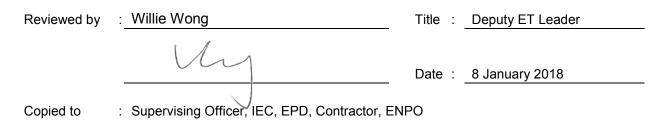
Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS(Mf)9	5.5	to	20.1	7.3	to	26

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 ³	
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

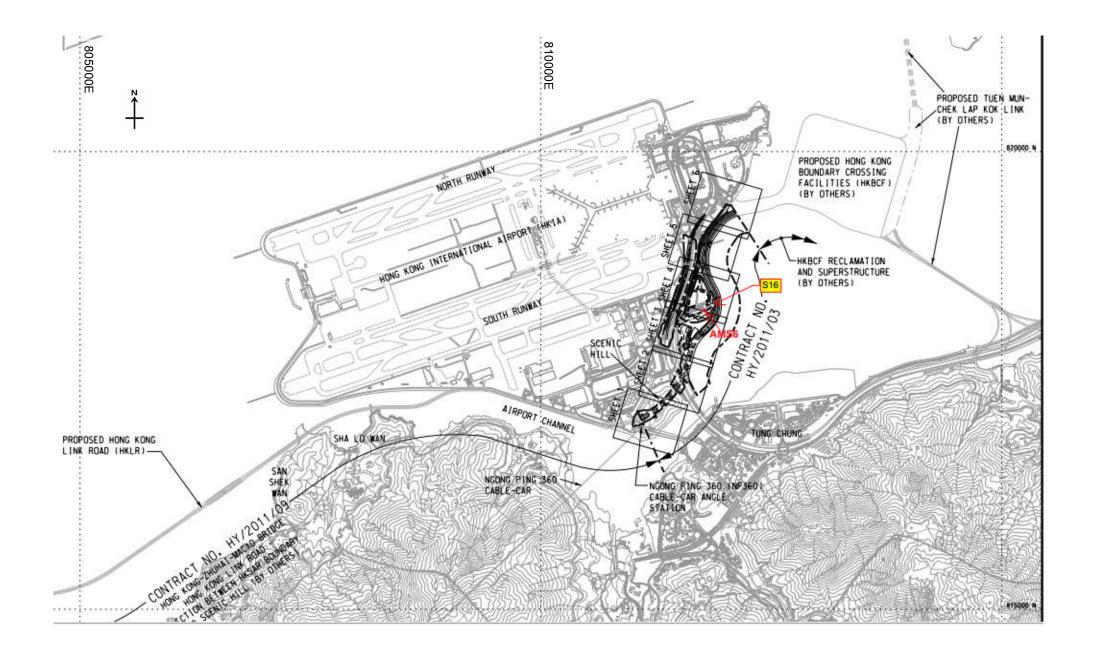
: Willie Wong

Title : Deputy ET Leader

Date: 8 January 2018

Copied to

: Supervising Officer, EC, EPD, Contractor, ENPO



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