Table K1 Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	2	66
	Limit	0	4
24-hr TSP	Action	0	7
	Limit	0	4
Water Quality	Action	0	20
	Limit	0	1
Impact Dolphin	Action	0	11
Monitoring	Limit	0	11

Table K2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics				
_	Complaints Notifications of		Successful		
		Summons	Prosecutions		
This Reporting Month (March 2018)	0	0	0		
Total No. received since project commencement	16	1	0		

Email message

Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 311:

From

ERM- Hong Kong, Limited

Quarry Bay, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com

Ref/Project number

Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 16 March 2018



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330_2March2018_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 2 March 2018.

Regards,

Mr Jovy Tam

Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/08 TUEN MUN - CHEK LAP KOK LINK NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring Notification of Exceedance

Log No.	0212330_2March2018_1hrTSP_Station ASR1				
	[Total No. of Exceedances = 1]				
Date	2 March 2018 (Measured)				
	16 Marci	h 2018 (Laboratory results received by ERM)			
Monitoring Station	A	SR1, ASR5, ASR6, ASR10 and AQMS1			
Parameter(s) with Exceedance(s)		1-hr TSP			
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213			
	, ,	ASR5 = 238			
		AQMS1 = 213			
		ASR6 = 238			
		ASR10 = 214			
	1-hr TSP (μg/m³)	ASR1 = 331			
		ASR5 = 340			
		AQMS1 = 335			
		ASR6 = 338			
		ASR10 = 337			
Limit Levels	1-hr TSP (μg/m³)	500			
	24-hr TSP (μg/m³)	260			
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR1 (460 µg/m3) during 0957 – 1057 hrs.				
Works Undertaken (at	On 2 March 2018, box culvert extension was carried out at Works Area Portion N-A and				
the time of monitoring	Construction of Ventilation Building at Portion N-C.				
event)					
Possible Reason for	The exceedance is unlikely to be due to the Project, in view of the following:				
Action or Limit Level	According to the construction information provided by the Contractor, the majority of				
Exceedance(s)	ground construction works on 2 March 2018 were box culvert extension at Works Area				
	Portion N-A and Constru	ction of Ventilation Building at Portions N-C. During the period			
	of the land-based constru	ction works, the Contractor has implemented the required			
	mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water				
	spraying on exposed soil within the Project site and associated works areas; exposed soil				
	covered by tarpaulin sheets).				
	The exceedances are unlikely to be due to the project as dust suppression measures were				
	implemented properly on site. Water spraying was applied. Exposed soil at Portion N-A				
	was also covered by tarpaulin sheets.				
	Based on the above, the exceedant	nces are unlikely to be due to the project.			

Actions Taken / To Be According to the photo record on 2 March 2018, the Contractor has properly implemented dust Taken suppression measures on site. Follow up site inspection was carried out on 19 March 2018. Box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Water spraying was applied to prevent dust. Photo record is provided in Annex A. Photos taken during AQM were also provided. No significant dust impact was observed at ASR1. Dust suppression measures were properly implemented during the site inspections. The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigation measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.

As occasional exceedances were observed at ASR1, the Contractor has been reminded to enhance their dust mitigation measures at the works area, especially Portion N-A, which is closest to ASR1. Water spraying should be applied more frequently to prevent dust. The Contractor should also ensure that the exposed soil at Portion N-A was covered by tarpaulin sheets.

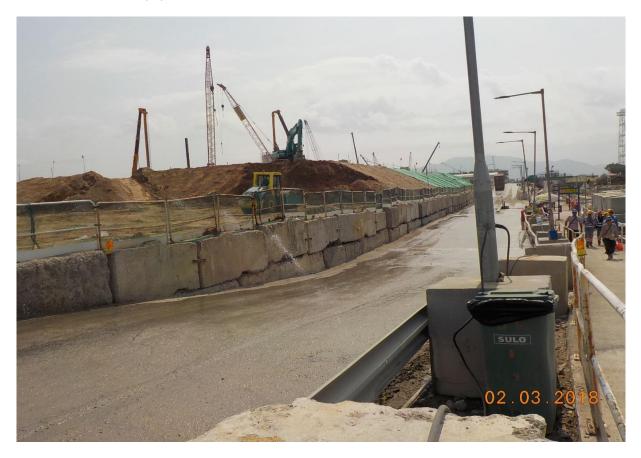
Remarks

The monitoring results and the locations of air quality monitoring stations are attached.



Annex A Photos provided by the Contractor

*Note: Photos taken on 2/3/2018



Water spraying was applied frequently on site. (Works Area Portion N-A)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)



Annex A Photos taken during site inspection

*Note: Photos taken on 19/3/2018



Water spraying was applied frequently on site. (Works Area Portion N-C)



Water spraying was applied frequently on site. (Works Area Portion N-B)

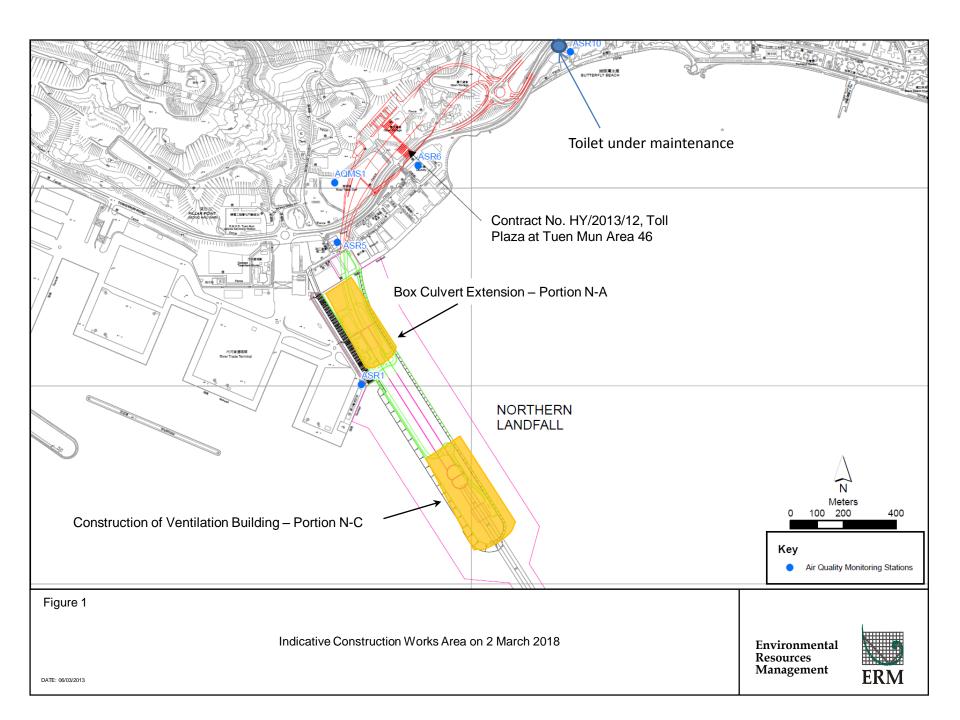


Annex A Photos taken during AQM monitoring

*Note: Photos taken on 2/3/2018



ASR1



TMCLKL	HY/2012/08	2/3/2018	AQMS1	Sunny	9:07	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2/3/2018	AQMS1	Sunny	10:09	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2/3/2018	AQMS1	Sunny	11:11	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR1	Sunny	8:55	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR1	Sunny	9:57	1-hour TSP	460	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR1	Sunny	10:59	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR10	Sunny	8:22	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR10	Sunny	9:24	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR10	Sunny	10:26	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR5	Sunny	8:44	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR5	Sunny	9:46	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR5	Sunny	10:48	1-hour TSP	219	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR6	Sunny	8:32	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR6	Sunny	9:34	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR6	Sunny	10:36	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2/3/2018	AQMS1	Sunny	12:13	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR1	Sunny	12:01	24-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR10	Sunny	11:28	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR5	Sunny	11:50	24-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2/3/2018	ASR6	Sunny	11:38	24-hour TSP	71	ug/m3

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
18/03/02	0:00	1.8	92	
18/03/02	1:00	1.8	95	
18/03/02	2:00	1.3	70	
18/03/02	3:00	1.3	46	
18/03/02	4:00	1.3	92	
18/03/02	5:00	1.3	44	
18/03/02	6:00	1.8	93	
18/03/02	7:00	1.3	65	
18/03/02	8:00	2.2	92	
18/03/02	9:00	2.2	81	
18/03/02	10:00	2.7	93	
18/03/02	11:00	2.7	96	
18/03/02	12:00	1.8	97	
18/03/02	13:00	1.8	75	
18/03/02	14:00	1.3	70	
18/03/02	15:00	1.8	93	
18/03/02	16:00	1.8	71	
18/03/02	17:00	1.3	46	
18/03/02	18:00	1.8	50	
18/03/02	19:00	1.8	42	
18/03/02	20:00	1.8	43	
18/03/02	21:00	1.3	52	
18/03/02	22:00	1.3	51	
18/03/02	23:00	1.8	93	

Email message Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong

From

ERM- Hong Kong, Limited

Quarry Bay, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com

Ref/Project number

Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 3 April 2018



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330_20March2018_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 20 March 2018.

Regards,

Mr Jovy Tam

Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/08 TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring Notification of Exceedance

Log No.	0212330_20March2018_1hrTSP_Station ASR1				
· ·	[Total No. of Exceedances = 1]				
Date	20 March 2018 (Measured)				
	1 April 2018 (Laboratory results received by ERM)				
Monitoring Station	AS	SR1, ASR5, ASR6, ASR10 and AQMS1			
Parameter(s) with		1 L. TCD			
Exceedance(s)		1-hr TSP			
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213			
		ASR5 = 238			
		AQMS1 = 213			
		ASR6 = 238			
		ASR10 = 214			
	1-hr TSP (μg/m³)	ASR1 = 331			
		ASR5 = 340			
		AQMS1 = 335			
		ASR6 = 338			
	ASR10 = 337				
Limit Levels	1-hr TSP (μg/m³)	500			
	24-hr TSP (μg/m³)	260			
Measured Levels	Action Level Exceedance for 1-h	r TSP is observed at ASR1 (446 μg/m3) during 1552 – 1652 hrs.			
Works Undertaken (at	On 20 March 2018, box culvert extension was carried out at Works Area Portion N-A and				
the time of monitoring	Construction of Ventilation Building at Portion N-C.				
event)					
Possible Reason for	The exceedance is unlikely to be due to the Project, in view of the following:				
Action or Limit Level	According to the construction information provided by the Contractor, the majority of				
Exceedance(s)	ground construction works on 20 March 2018 were box culvert extension at Works Area				
	Portion N-A and Construction of Ventilation Building at Portions N-C. During the period				
	of the land-based constru	ction works, the Contractor has implemented the required			
	mitigation measures as pe	er the EP, approved EIA and Updated EM&A Manual (e.g. water			
	spraying on exposed soil within the Project site and associated works areas; exposed soil				
	covered by tarpaulin sheets).				
	The exceedances are unlikely to be due to the project as dust suppression measures were				
	implemented properly on site. Water spraying was applied on site to prevent dust.				
	Based on the above, the exceedances are unlikely to be due to the project.				
	,	J 1 J			

Actions Taken / To Be Follow up site inspection was carried out on 5 April 2018. Box culvert extension was carried out at Taken Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Water spraying was applied to prevent dust. Photo record is provided in Annex A. Photos taken during AQM were also provided. No significant dust impact was observed at ASR1. Dust suppression measures were properly implemented during the site inspections. Based on the above, no additional action is required. The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigation measures are provided at Portion N-A and Portion N-C, where the construction works are carried out. Remarks The monitoring results and the locations of air quality monitoring stations are attached.



Annex A Photos taken during site inspection

*Note: Photos taken on 5/4/2018



Water spraying was applied frequently on site. (Works Area Portion N-A)



Water spraying was applied frequently on site. (Works Area Portion N-C)



Annex A Photos taken during site inspection

*Note: Photos taken on 5/4/2018



Water spraying was applied frequently on site. (Works Area Portion N-C)



Water spraying was applied frequently on site. (Works Area Portion N-C)

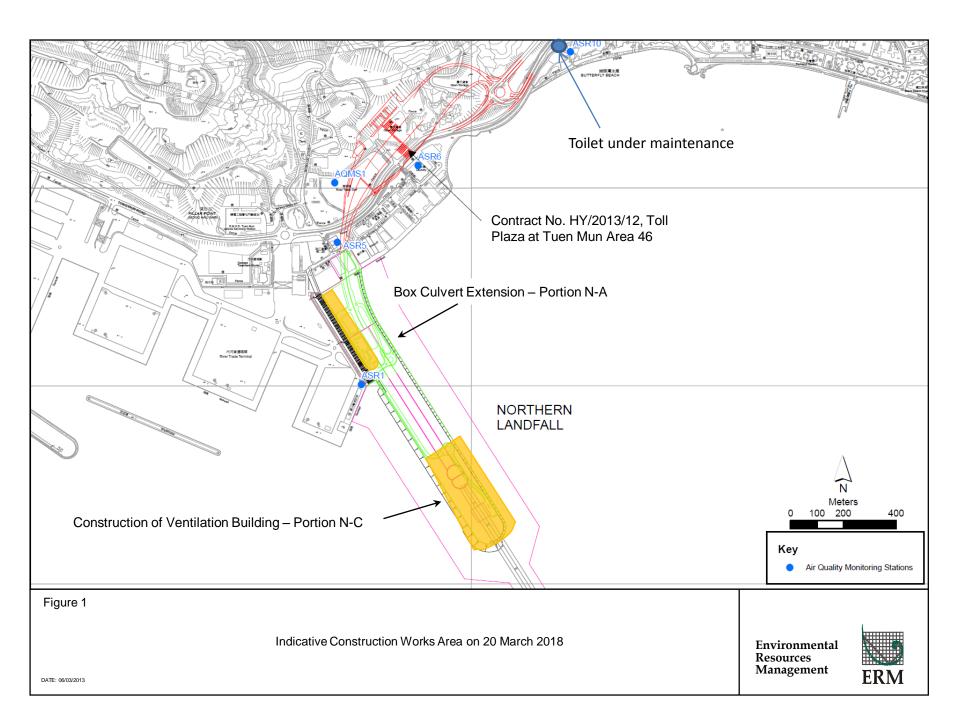


Annex A Photos taken during AQM

*Note: Photos taken on 20/3/2018



ASR1



TMCLKL	HY/2012/08	20/3/2018	AQMS1	Sunny	14:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	20/3/2018	AQMS1	Sunny	15:02	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	20/3/2018	AQMS1	Sunny	16:04	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR1	Sunny	13:48	1-hour TSP	210	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR1	Sunny	14:50	1-hour TSP	233	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR1	Sunny	15:52	1-hour TSP	446	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR10	Sunny	13:16	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR10	Sunny	14:18	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR10	Sunny	15:20	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR5	Sunny	13:37	1-hour TSP	234	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR5	Sunny	14:39	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR5	Sunny	15:41	1-hour TSP	250	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR6	Sunny	13:27	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR6	Sunny	14:29	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR6	Sunny	15:31	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	20/3/2018	AQMS1	Sunny	17:06	24-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR1	Sunny	16:54	24-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR10	Sunny	16:22	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR5	Sunny	16:43	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	20/3/2018	ASR6	Sunny	16:33	24-hour TSP	82	ug/m3

Meteorological Data for Impact Monitoring in the reporting period					
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
18/03/20	0:00	0	-		
18/03/20	1:00	0.4	194		
18/03/20	2:00	1.3	312		
18/03/20	3:00	1.3	311		
18/03/20	4:00	2.2	310		
18/03/20	5:00	1.8	284		
18/03/20	6:00	0.9	277		
18/03/20	7:00	2.2	294		
18/03/20	8:00	1.8	291		
18/03/20	9:00	1.3	274		
18/03/20	10:00	1.8	349		
18/03/20	11:00	2.7	351		
18/03/20	12:00	2.7	339		
18/03/20	13:00	3.1	345		
18/03/20	14:00	3.1	351		
18/03/20	15:00	3.6	339		
18/03/20	16:00	3.6	350		
18/03/20	17:00	2.7	354		
18/03/20	18:00	1.3	352		
18/03/20	19:00	1.3	305		
18/03/20	20:00	1.3	314		
18/03/20	21:00	1.3	311		
18/03/20	22:00	1.3	352		
18/03/20	23:00	0.9	350		