Appendix I

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix I1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting quarter	Total No. recorded since contract commencement
1-Hr TSP	Action	2	45
	Limit	0	9
24-Hr TSP	Action	0	2
	Limit	0	0
Landfill gas hazard m	onitoring		
Methane	Action	0	0
	Limit	0	0
Oxygen	Action	0	0
	Limit	0	0
Carbon Dioxide	Action	0	0
	Limit	0	0

Appendix I2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics				
	Complaints	Notifications of Summons	Successful Prosecutions		
This reporting quarter	0	0	0		
Total No. received since contract commencement	1	0	0		

Email message		Environmental Resources Management
То	Ramboll Hong Kong Limited (ENPO)	2507, 25/F One Harbourfront, 18 Tak Fung Street,
From	ERM- Hong Kong, Limited	Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660
Ref/Project number	Contract No. HY/2017/10	E-mail: jasmine.ng@erm.com
	Tuen Mun - Chek Lap Kok Link - Northern	
	Connection Tunnel Buildings, Electrical and	
	Mechanical Works	ł
Subject	Notification of Exceedance for Air Quality	
	Impact Monitoring	
		ERM
Date	26 June 2020	

Dear Sir/ Madam,

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

Action Level Exceedance 0463091_13June2020_1hrTSP_Station ASR6

One (1) exceedance was recorded on 13 June 2020.

Regards,

Jamin

Dr Jasmine Ng Environmental Team Leader

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ERM-Hong Kong, Limited

Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

Notification of Exceedance

Log No		Action Level Exceedance			
Log No.	0	463091_13June2020_1hrTSP_Station ASR6			
		+05071_10June2020_1111151_500000			
	[Total No. of Exceedances = 1]				
Date		13 June 2020 (Measured)			
	26 Ju	ne 2020 (Results obtained from ENPO Website)			
Monitoring Station		ASR6			
Parameter(s) with		1 L. TCD			
Exceedance(s)		1- hr TSP			
Action Levels	1-hr TSP (μg/m³)	ASR1 = 331			
		ASR5 = 340			
		ASR6 = 338			
		ASR10 = 335			
	$241 \mathbf{TCD} \left(\begin{array}{c} 2 \end{array} \right)$	AQMS1 = 337			
	24-hr TSP (μg/m ³)	ASR1 = 213 ASR5 = 228			
		ASR5 = 238 ASR6 = 238			
		ASR10 = 214			
		AQMS1 = 213			
Limit Levels	1-hr TSP (μg/m ³)	500			
	24-hr TSP ($\mu g/m^3$)	260			
Measured Levels	Refer to Appendix A (Data are	source from Contract No. HY/2012/08).			
Works Undertaken (at	Works undertaken under this Contract on 13 June 2020 included				
the time of monitoring	Defect rectification at Ma	in Control Building			
event)					
Possible Reason for	The exceedance is unlikely to	be due to the Contract, in view of the following:			
Action or Limit Level	• With reference to the recorded wind direction (ranged between 32° and 95°, blowing from an				
Exceedance(s)	north-easterly/easterly direction) and wind speed (ranged between 0.9 m/s and 1.8 m/s) when				
		R6 is located downstream to the construction works at Main Control			
		ks undertaken at Main Control Building were mainly minor defect			
	Ū	are considered not major dust generating works (refer to <i>Appendix B</i>			
	and <i>C</i>).	are considered not major dust generating works (refer to Appendix B			
	· ·	les this Contract score and internet of the second internet of any second			
	• The construction area under this Contract were mainly paved. The remaining unpaved area are				
		as crane machines and generators or used as material storage area with			
		sheet. The exposed area are suppressed/covered. Dust are not			
	anticipated.				
	Based on the above, the excee	dance is unlikely to be due to the Contract.			
Actions Taken / To Be	No immediate action is consid	dered necessary. The ET will monitor for future trends in			
Taken	exceedances.	-			
Remarks	The monitoring results on 13	June 2020, locations of air quality monitoring stations and wind data			
	are attached (refer to Appendia	x A).			
	1				

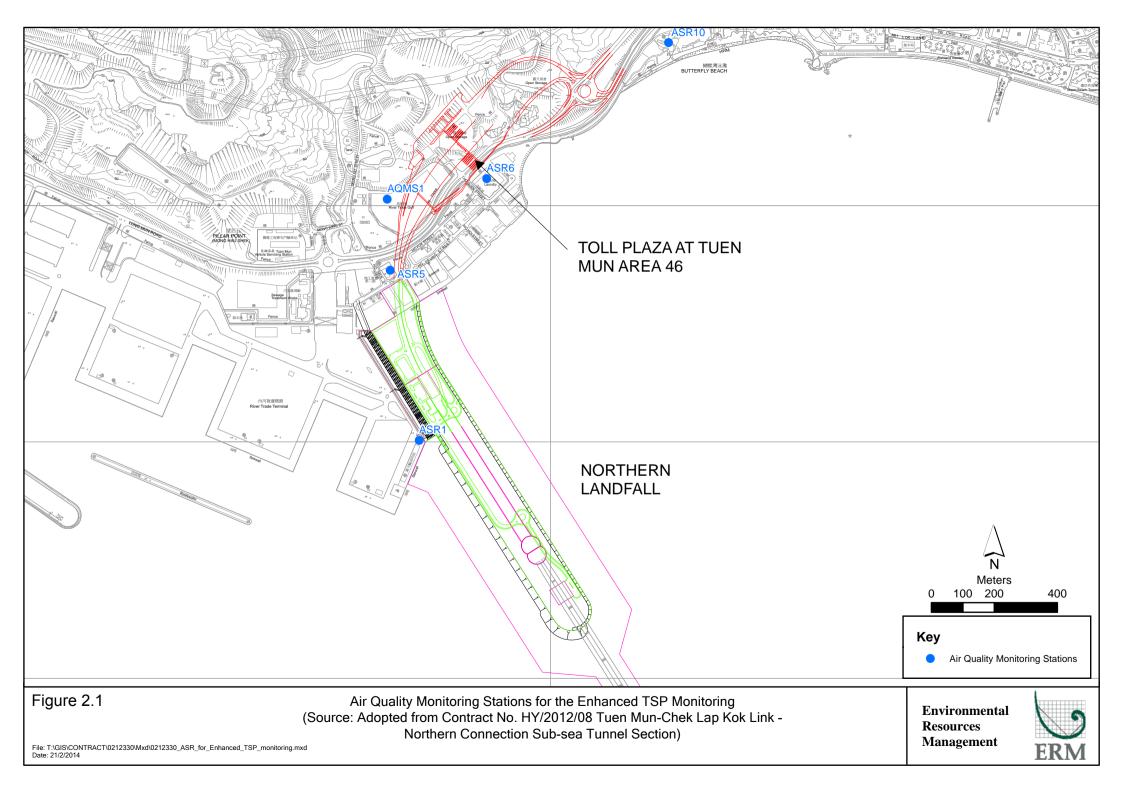
Appendix A

Results of Air Quality Monitoring, Meteorological Data and Locations of Air Quality Monitoring Stations

	Air quality monitoring results on 13/6/2020							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-06-13	ASR10	Sunny	8:15:00	1-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR10	Sunny	9:17:00	1-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR10	Sunny	10:19:00	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR6	Sunny	8:26:00	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR6	Sunny	9:28:00	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR6	Sunny	10:30:00	1-hour TSP	<mark>357</mark>	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR5	Sunny	8:38:00	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR5	Sunny	9:40:00	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR5	Sunny	10:42:00	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR1	Sunny	8:50:00	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR1	Sunny	9:52:00	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR1	Sunny	10:54:00	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2020-06-13	AQMS1	Sunny	9:01:00	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2020-06-13	AQMS1	Sunny	10:03:00	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-06-13	AQMS1	Sunny	11:05:00	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR10	Sunny	11:21:00	24-hour TSP	20	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR6	Sunny	11:32:00	24-hour TSP	27	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR5	Sunny	11:44:00	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-06-13	ASR1	Sunny	11:56:00	24-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2020-06-13	AQMS1	Sunny	12:07:00	24-hour TSP	27	ug/m3

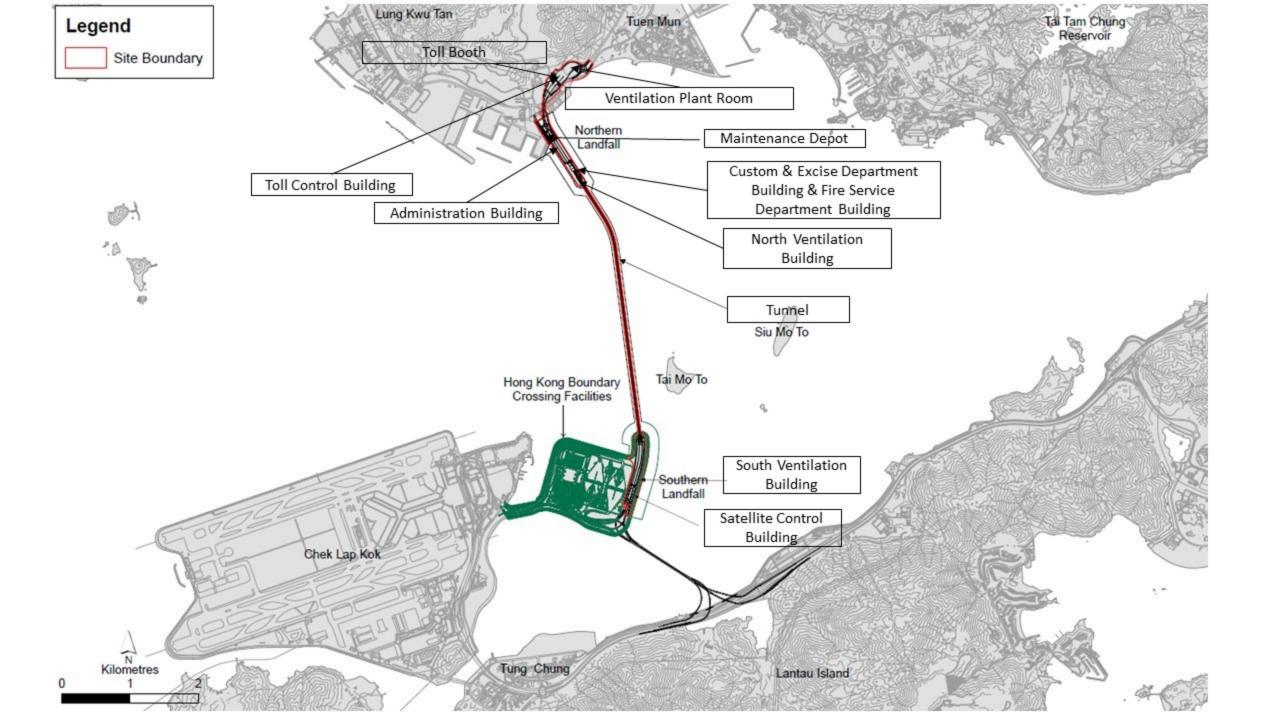
Action level exceedance Limit level exceedance

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)		
20/06/13	0:00	0.9	57		
20/06/13	1:00	0	64		
20/06/13	2:00	0	79		
20/06/13	3:00	0	311		
20/06/13	4:00	0.9	355		
20/06/13	5:00	0	271		
20/06/13	6:00	0	303		
20/06/13	7:00	0	145		
20/06/13	8:00	0.9	132		
20/06/13	9:00	0.9	138		
20/06/13	10:00	1.8	32		
20/06/13	11:00	0.9	95		
20/06/13	12:00	0.4	3		
20/06/13	13:00	0.9	159		
20/06/13	14:00	0.9	125		
20/06/13	15:00	1.3	118		
20/06/13	16:00	2.2	101		
20/06/13	17:00	2.7	63		
20/06/13	18:00	2.2	45		
20/06/13	19:00	2.2	19		
20/06/13	20:00	2.2	12		
20/06/13	21:00	1.8	50		
20/06/13	22:00	1.8	41		
20/06/13	23:00	2.2	54		



Appendix B

Works Locations



Appendix C

Site Photo



Photo 1 - Construction works at Main Control Building



Photo 2 - Work Area nearby Main Control Building

Email message		Environmental Resources Management
То	Ramboll Hong Kong Limited (ENPO)	2507, 25/F One Harbourfront, 18 Tak Fung Street,
From	ERM- Hong Kong, Limited	Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660
Ref/Project number	Contract No. HY/2017/10	E-mail: jasmine.ng@erm.com
	Tuen Mun - Chek Lap Kok Link - Northern	
	Connection Tunnel Buildings, Electrical and	
	Mechanical Works	1
Subject	Notification of Exceedance for Air Quality	
	Impact Monitoring	FRM
Date	19 August 2020	

Dear Sir/ Madam,

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

Action Level Exceedance 0463091_12August2020_1hrTSP_Station ASR1

One (1) exceedance was recorded on 12 August 2020.

Regards,

Jamin

Dr Jasmine Ng Environmental Team Leader

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ERM-Hong Kong, Limited

Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

Notification of Exceedance

Log No		Action Loval Excondence				
Log No.	04	<u>Action Level Exceedance</u> 63091_12August2020_1hrTSP_Station ASR1				
	[Total No. of Exceedances = 1]					
Date		12 August 2020 (Measured)				
	19 August 2020 (Results obtained from ENPO Website)					
Monitoring Station		ASR1				
Parameter(s) with						
Exceedance(s)		1- hr TSP				
Action Levels	1-hr TSP ($\mu g/m^3$)	ASR1 = 331				
		ASR5 = 340				
		ASR6 = 338				
		ASR10 = 335				
		AQMS1 = 337				
	24-hr TSP (μg/m ³)	ASR1 = 213				
		ASR5 = 238				
		ASR6 = 238				
		ASR10 = 214 AQMS1 = 213				
Limit Levels	1-hr TSP (μg/m ³)	500				
	24-hr TSP ($\mu g/m^3$)	260				
Measured Levels						
		e source from Contract No. HY/2012/08).				
Works Undertaken (at		s Contract on 12 August 2020 included				
the time of monitoring		al Works and Architectural Builder's Work and Finishes at Fire Services				
event)	Department Building;					
		al Works and Architectural Builder's Work and Finishes at Customs and				
	Excise Department Building; and					
	Handover Inspection at North Ventilation Building					
Possible Reason for		be due to the Contract, in view of the following:				
Action or Limit Level	• With reference to the recorded wind direction (ranged between 44° and 322°), blowing from a					
Exceedance(s)	north-easterly/north-wes	terly direction) and wind speed (ranged between 0 and 0.9 m/s) when				
	exceedance recorded, ASR1 is located downstream to Fire Services Department Building,					
	Customs and Excise Depa	artment Building and North Ventilation Building. However, only				
	inspection works, electric	al and mechanical works and architectural builder's work and finishes				
	were conducted which ar	e considered not major dust generating works (refer to Appendix B and				
	С).	, , , , , , , , , , , , , , , , , , , ,				
	The construction area under this Contract were mainly paved. The remaining unpaved area area					
		as crane machines and generators or used as material storage area with				
	-	sheet. The exposed area are suppressed/covered. Dust are not				
		sheet. The exposed area are suppressed/covered. Dust are not				
	anticipated.	edance is unlikely to be due to the Contract.				
Actions Takan / To Pa						
Actions Taken / To Be	exceedances.	dered necessary. The ET will monitor for future trends in				
Taken		Assessed 2020. In andiana of all and the second state of all and the				
Remarks	•	August 2020, locations of air quality monitoring stations and wind				
	data are attached (refer to <i>Appendix A</i>).					

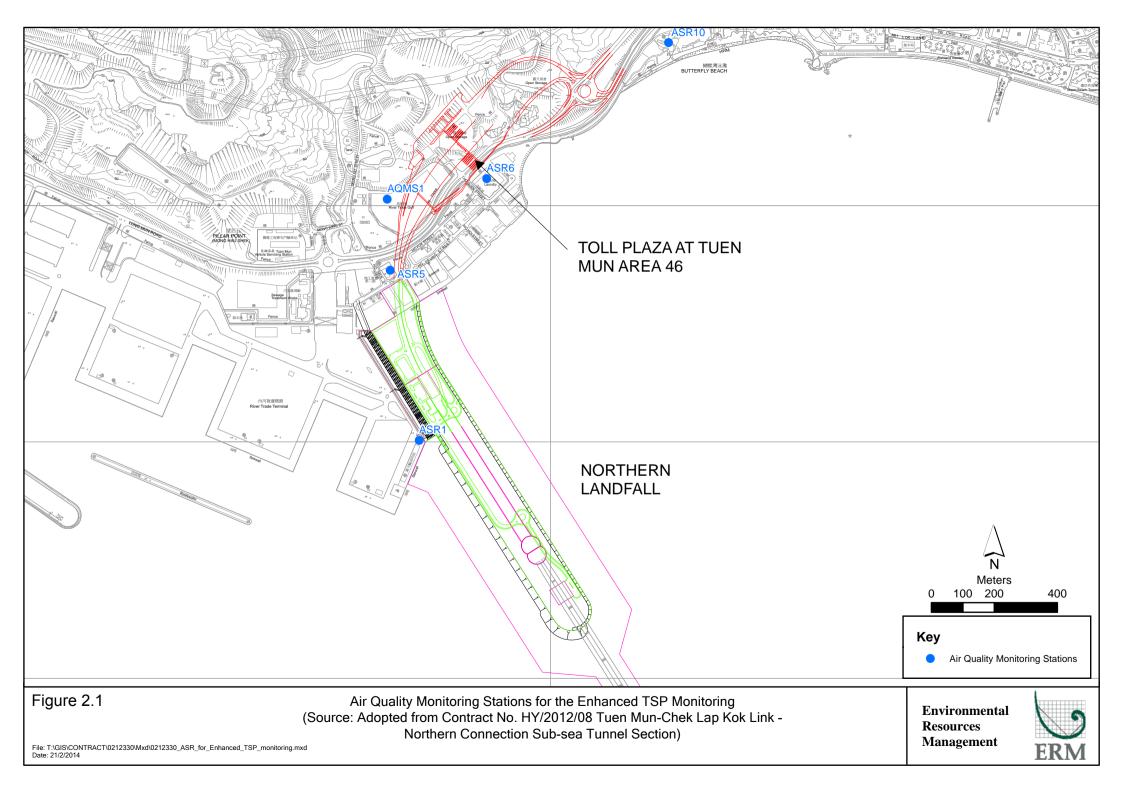
Appendix A

Results of Air Quality Monitoring, Meteorological Data and Locations of Air Quality Monitoring Stations

	Air quality monitoring results on 12/8/2020							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	8:00:00	1-hour TSP	31	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	9:02:00	1-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	10:04:00	1-hour TSP	18	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	8:15:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	9:17:00	1-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	10:19:00	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	8:30:00	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	9:32:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	10:34:00	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	8:40:00	1-hour TSP	<mark>352</mark>	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	9:42:00	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	10:44:00	1-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	8:50:00	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	9:52:00	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	10:54:00	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR10	Sunny	11:06:00	24-hour TSP	22	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR6	Sunny	11:21:00	24-hour TSP	27	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR5	Sunny	11:36:00	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2020-08-12	ASR1	Sunny	11:46:00	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2020-08-12	AQMS1	Sunny	11:56:00	24-hour TSP	41	ug/m3

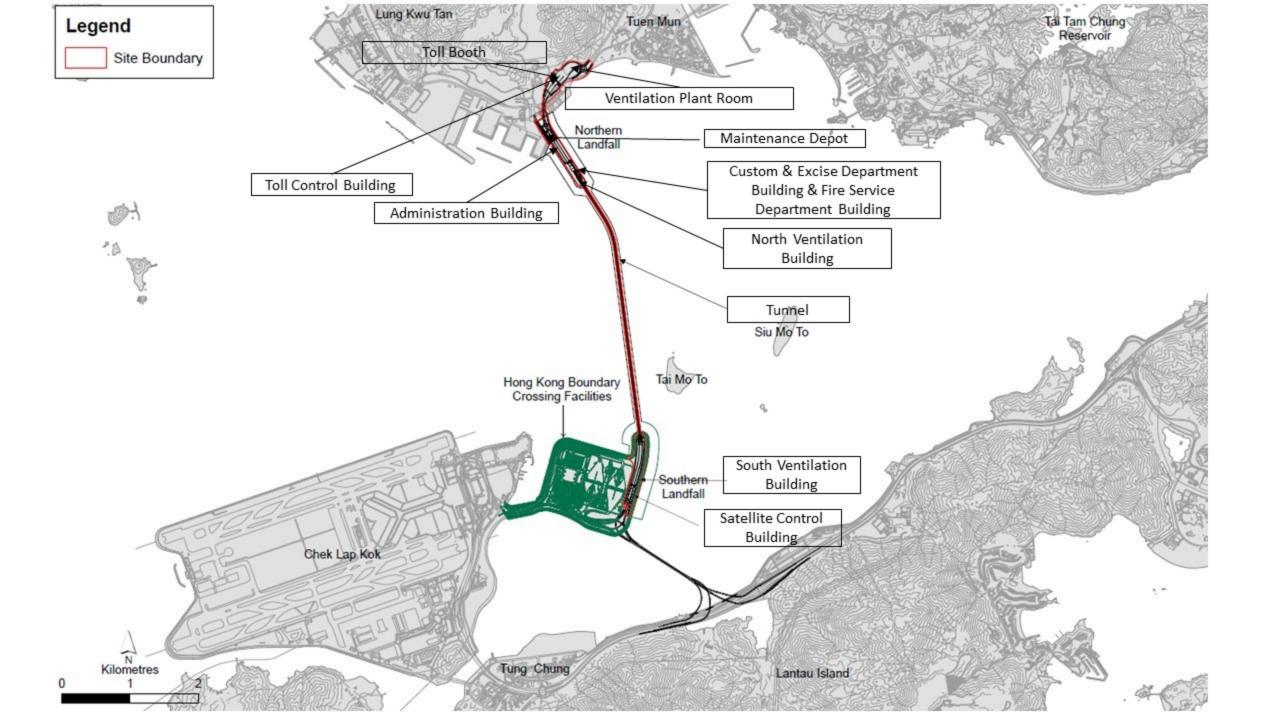
Action level exceedance Limit level exceedance

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)			
20/08/12	0:00	2.7	81			
20/08/12	1:00	2.2	90			
20/08/12	2:00	2.7	138			
20/08/12	3:00	1.8	132			
20/08/12	4:00	0.9	49			
20/08/12	5:00	0.9	65			
20/08/12	6:00	1.8	358			
20/08/12	7:00	0	324			
20/08/12	8:00	0	322			
20/08/12	9:00	0.9	44			
20/08/12	10:00	0.9	36			
20/08/12	11:00	1.3	65			
20/08/12	12:00	1.8	271			
20/08/12	13:00	1.3	36			
20/08/12	14:00	2.2	87			
20/08/12	15:00	2.7	95			
20/08/12	16:00	3.1	88			
20/08/12	17:00	1.8	93			
20/08/12	18:00	2.2	101			
20/08/12	19:00	1.8	101			
20/08/12	20:00	2.2	92			
20/08/12	21:00	2.2	96			
20/08/12	22:00	1.8	93			
20/08/12	23:00	1.3	100			



Appendix B

Works Locations



Appendix C

Site Photo



Photo 1 – Fire Services Department Building & Customs and Excise Department Building



Photo 2 - North Ventilation Building