

Appendix I

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

Appendix J1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting period	Total No. recorded since contract commencement
1-Hr TSP	Action	2	27
	Limit	1	3
24-Hr TSP	Action	0	2
	Limit	0	0

Appendix J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

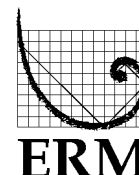
From ERM- Hong Kong, Limited

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

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 24 July 2019

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



Dear Sir/ Madam,

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

Action Level Exceedance
0463091_10July2019_1hrTSP_Station ASR6

One (1) exceedance was recorded on 10 July 2019.

Regards,

Dr Jasmine Ng
Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



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.	<u>Action Level Exceedance</u> 0463091_10July2019_1hrTSP_Station ASR6 [Total No. of Exceedances = 1]	
Date	10 July 2019 (Measured) 19 July 2019 (Results obtained from ENPO Website)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10, AQMS1	
Parameter(s) with Exceedance(s)	1- hr TSP	
Action Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Refer to the attached data sheet (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 10 July included: ▪ Building structure at Administration Building, Maintenance Depot, Customs and Excise Building and Fire Services Building (<i>refer to Contractor's photo</i>)	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances are unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> • Apart from exceedance of 1-hr TSP at ASR6 during 14:15-15:15 on 10 July 2019, all 1-hr TSP levels and 24-hr TSP levels at all monitoring stations were in compliance with the Action and Limit Levels on the same day. • With reference to the recorded wind direction (ranged between 198° and 272° when 1-hr TSP exceedance was recorded blowing from a southerly to westerly direction) during the works period, ASR6 is located downstream of the Toll Control Building, Administration Building and Maintenance Depot. However, building structure was conducted at the Administration Building and Maintenance Depot which are not major dust generating works. • There are no major unpaved road in the site area of Northern Landfall under this Contract. In addition, all road are paved at Toll Control Building. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</p>	
Actions Taken/ To Be Taken	The Contractor has been reminded to ensure all dust suppression measures are implemented at the site area. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 10 July and locations of air quality monitoring stations are attached. The location of the works area under this Contract is attached. The attached wind data on 10 July 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Contract	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-07-10	AQMS1	13:49	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-07-10	AQMS1	14:51	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2019-07-10	AQMS1	15:53	1-hour TSP	29	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR1	13:37	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR1	14:39	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR1	15:41	1-hour TSP	21	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR10	13:02	1-hour TSP	14	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR10	14:04	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR10	15:06	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR5	13:25	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR5	14:27	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR5	15:29	1-hour TSP	19	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR6	13:13	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR6	14:15	1-hour TSP	372	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR6	15:17	1-hour TSP	30	ug/m3
TMCLKL	HY/2012/08	2019-07-10	AQMS1	16:55	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR1	16:43	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR10	16:08	24-hour TSP	27	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR5	16:31	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2019-07-10	ASR6	16:19	24-hour TSP	40	ug/m3

Note: Indicates Exceedance of Action Level
Indicates Exceedance of Limit Level

PHOTO BY CONTRACTOR ON 10 JULY 2019

Photo 1- Paved road at works area of Toll Control Building (10 July 2019)



Photo 2 - Building structure was conducted at works area of Maintenance Depot (10 July 2019)

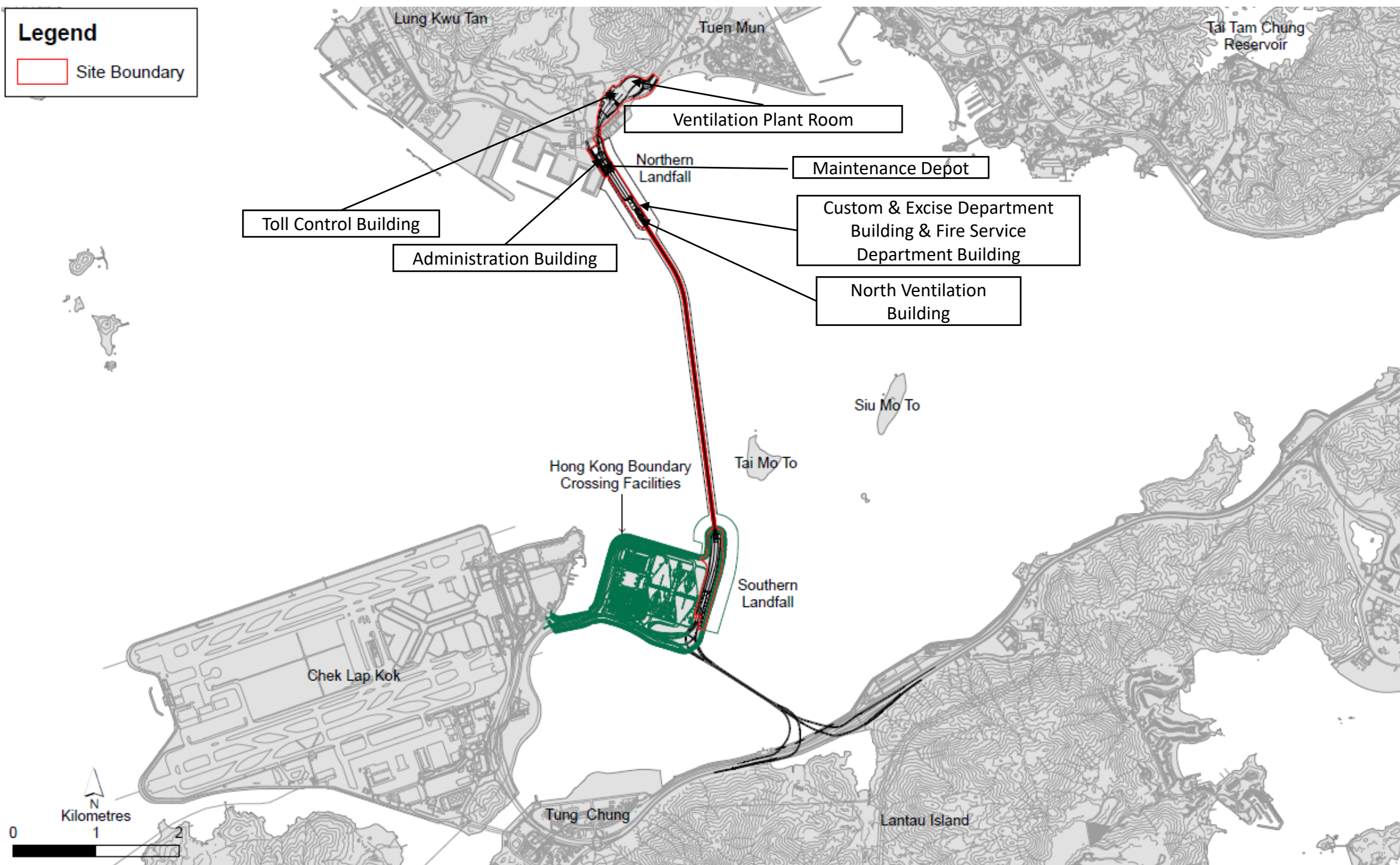


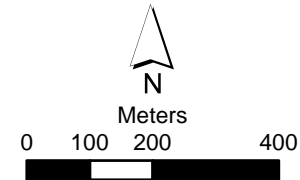
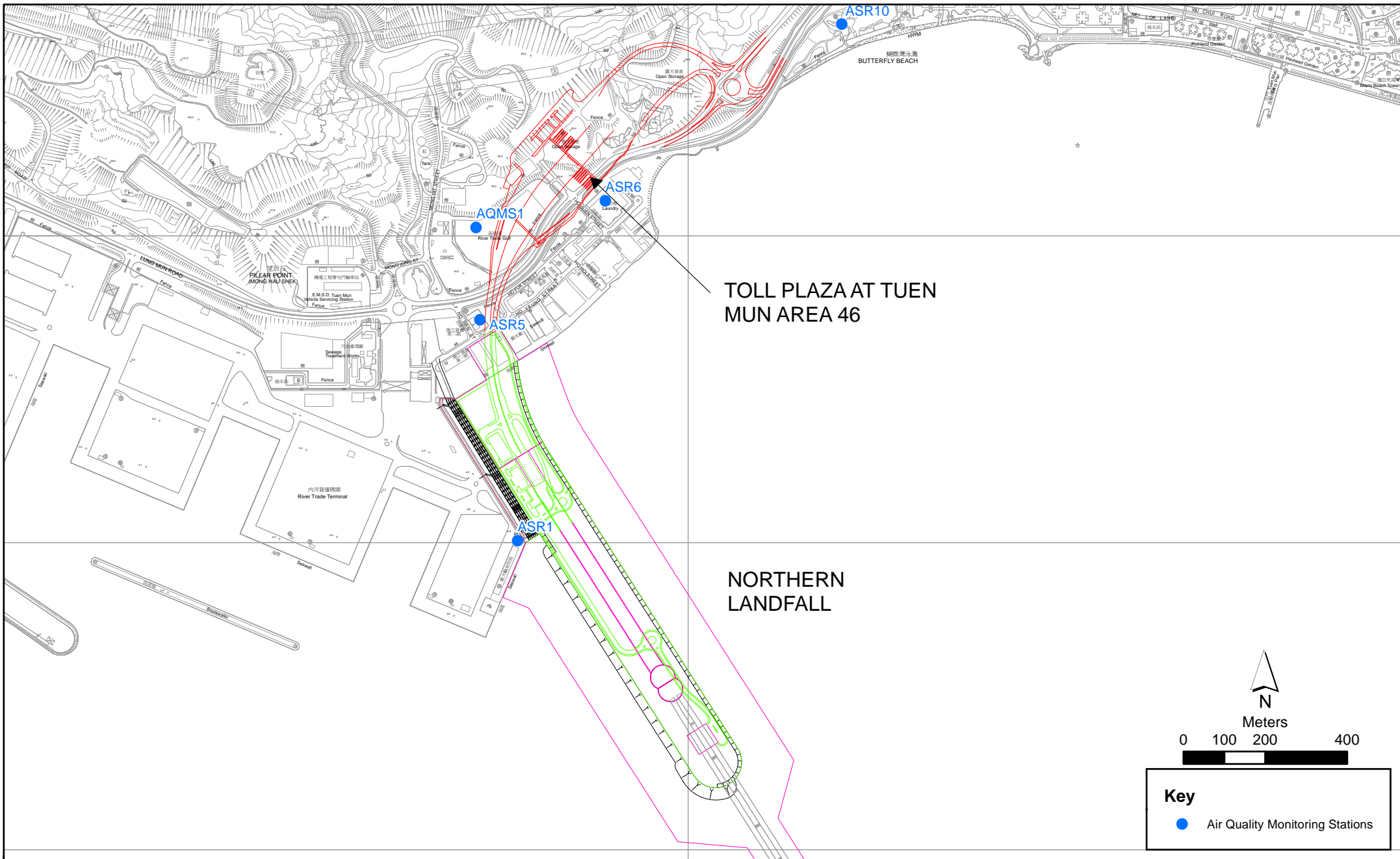
Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/07/10	0:00	0.9	195
19/07/10	1:00	0.9	235
19/07/10	2:00	1.8	197
19/07/10	3:00	2.2	194
19/07/10	4:00	1.3	223
19/07/10	5:00	0.4	203
19/07/10	6:00	1.8	200
19/07/10	7:00	1.8	192
19/07/10	8:00	1.8	195
19/07/10	9:00	1.3	223
19/07/10	10:00	2.7	193
19/07/10	11:00	1.8	203
19/07/10	12:00	3.6	203
19/07/10	13:00	1.3	268
19/07/10	14:00	3.1	198
19/07/10	15:00	0.9	272
19/07/10	16:00	0	274
19/07/10	17:00	0	265
19/07/10	18:00	0	304
19/07/10	19:00	0	126
19/07/10	20:00	0.9	63
19/07/10	21:00	0.9	96
19/07/10	22:00	0.9	59
19/07/10	23:00	0.4	62

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section

Legend

Site Boundary





Key

- Air Quality Monitoring Stations

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -
 Northern Connection Sub-sea Tunnel Section)

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

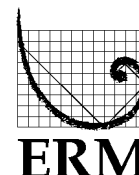
From ERM- Hong Kong, Limited

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

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 13 August 2019

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



Dear Sir/ Madam,

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

Action Level Exceedance

0463091_28July2019_1hrTSP_Station ASR5

Limit Level Exceedance

0463091_28July2019_1hrTSP_Station ASR1

Two (2) exceedances were recorded on 28 July 2019.

Regards,

Dr Jasmine Ng
Environmental Team Leader

CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us immediately.



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.	<p style="text-align: center;"><u>Action Level Exceedance</u> 0463091_28July2019_1hrTSP_Station ASR5 <u>Limit Level Exceedance</u> 0463091_28July2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 2]</p>	
Date	<p style="text-align: center;">28 July 2019 (Measured) 13 August 2019 (Results obtained from ENPO Website)</p>	
Monitoring Station	<p style="text-align: center;">ASR1, ASR5, ASR6, ASR10, AQMS1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1- hr TSP</p>	
Action Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Refer to the attached data sheet (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	No Works were undertaken under this Contract on 28 July 2019.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances are unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, no construction works was carried out on site on 28 July 2019. • There are no major unpaved road and no exposed area under this Contract. <p>Based on the above, the exceedances are unlikely to be due to the Contract.</p>	
Actions Taken / To Be Taken	The Contractor has been reminded to ensure all dust suppression measures are implemented at the site area. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 28 July and locations of air quality monitoring stations are attached. The attached wind data on 28 July 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

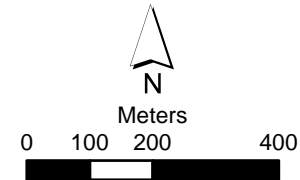
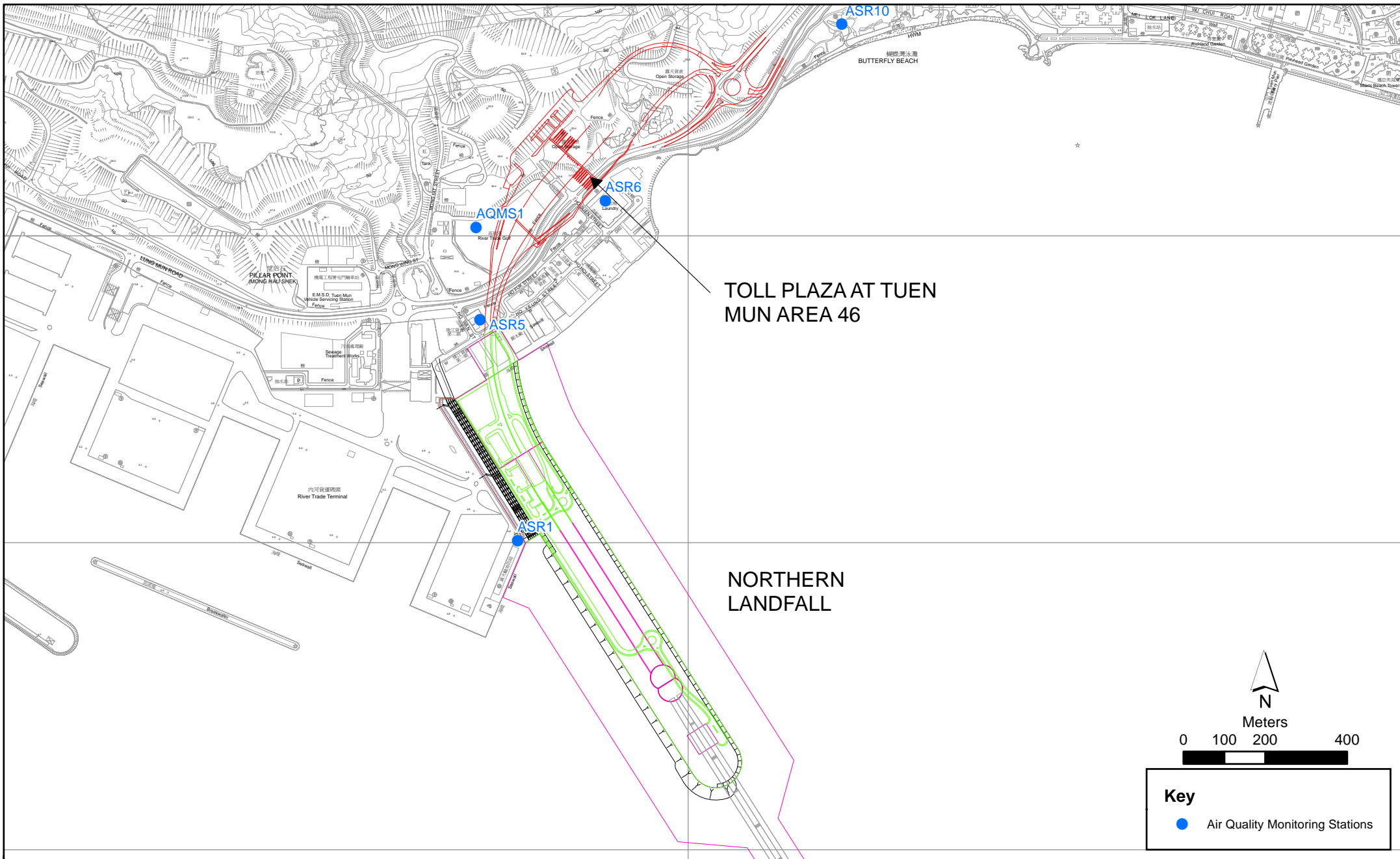
Results of Air Quality Monitoring

Project	Contract	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-07-28	AQMS1	8:51	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2019-07-28	AQMS1	9:33	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2019-07-28	AQMS1	10:55	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR1	8:40	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR1	9:42	1-hour TSP	646	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR1	10:44	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR10	8:05	1-hour TSP	21	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR10	9:07	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR10	10:09	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR5	8:28	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR5	9:30	1-hour TSP	410	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR5	10:32	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR6	8:16	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR6	9:18	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR6	10:20	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2019-07-28	AQMS1	11:57	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR1	11:46	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR10	11:11	24-hour TSP	23	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR5	11:34	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2019-07-28	ASR6	11:22	24-hour TSP	32	ug/m3

Note: Indicates Exceedance of Action Level
Indicates Exceedance of Limit Level

Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/07/28	0:00	0	-
19/07/28	1:00	0	-
19/07/28	2:00	0	-
19/07/28	3:00	0	-
19/07/28	4:00	0	-
19/07/28	5:00	0	-
19/07/28	6:00	0	-
19/07/28	7:00	0	-
19/07/28	8:00	1.3	271
19/07/28	9:00	0.9	199
19/07/28	10:00	0	-
19/07/28	11:00	0	-
19/07/28	12:00	0.4	115
19/07/28	13:00	1.3	202
19/07/28	14:00	0.9	203
19/07/28	15:00	1.8	131
19/07/28	16:00	0.4	180
19/07/28	17:00	0.4	101
19/07/28	18:00	0.9	89
19/07/28	19:00	0.4	80
19/07/28	20:00	0.4	79
19/07/28	21:00	0.4	95
19/07/28	22:00	0	-
19/07/28	23:00	0.9	61

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section



Key

- Air Quality Monitoring Stations

Air Quality Monitoring Stations for the Enhanced TSP Monitoring
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -
 Northern Connection Sub-sea Tunnel Section)