

Appendix J

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

*Appendix J1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	4	50
	Limit	0	10
24-Hr TSP	Action	0	2
	Limit	0	0
Landfill gas hazard monitoring			
	• Methane	0	0
	• Oxygen	0	0
	• Carbon Dioxide	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 Month (October 2020)	0	0	0
Total No. received since contract commencement	1	0	0

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

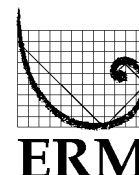
**From** ERM- Hong Kong, Limited

**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** 22 October 2020

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



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Dear Sir/ Madam,

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

**Action Level Exceedance**  
0463091\_9October2020\_1hrTSP\_Station ASR5

One (1) exceedance was recorded on 9 October 2020.

Regards,

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**

<b>Log No.</b>	<u>Action Level Exceedance</u> 0463091_9October2020_1hrTSP_Station ASR5  [Total No. of Exceedances = 1]	
<b>Date</b>	9 October 2020 (Measured) 22 October 2020 (Results obtained from ENPO Website)	
<b>Monitoring Station</b>	ASR5	
<b>Parameter(s) with Exceedance(s)</b>	1- hr TSP	
<b>Action Levels</b>	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
<b>Limit Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
<b>Measured Levels</b>	Refer to <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
<b>Works Undertaken (at the time of monitoring event)</b>	Works undertaken under this Contract on 9 October 2020 included <ul style="list-style-type: none"> <li>• Indoor defect rectification at Fire Services Department Building;</li> <li>• Indoor defect rectification at Main Control Building</li> </ul>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedance is unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> <li>• With reference to the recorded wind direction (ranged between 3° and 34°), blowing from a northerly/north-easterly direction) and wind speed (1.8 m/s) when exceedance recorded, ASR5 is located upstream to the work area. However, only minor defect rectification works were conducted which are considered not major dust generating works.</li> <li>• The construction area under this Contract were mainly paved. The remaining unpaved area are seated by machines such as crane machines and generators or used as material storage area with proper cover of tarpaulin sheet or designated for landscaping works. The exposed area are covered with tarpaulin sheet/vegetation. Dust are not anticipated (<i>Appendix B</i>).</li> </ul> <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>	
<b>Actions Taken / To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 9 October 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 9/10/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	8:10:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	9:12:00	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	10:14:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	8:20:00	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	9:22:00	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	10:24:00	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	8:32:00	1-hour TSP	373	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	9:34:00	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	10:36:00	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	8:44:00	1-hour TSP	181	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	9:46:00	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	10:48:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	8:55:00	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	9:57:00	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	10:59:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR10	Sunny	11:16:00	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR6	Sunny	11:26:00	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR5	Sunny	11:38:00	24-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2020-10-09	ASR1	Sunny	11:50:00	24-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2020-10-09	AQMS1	Sunny	12:01:00	24-hour TSP	82	ug/m3

Action level exceedance

Limit level exceedance

**Meteorological Data for Impact Monitoring in the reporting period**

<b>Date (yy-mm-dd)</b>	<b>Time (24hrs)</b>	<b>Average of Wind Speed (m/s)</b>	<b>Average of Wind Direction(degree)</b>
20/10/09	0:00	2.2	29
20/10/09	1:00	2.2	30
20/10/09	2:00	2.2	28
20/10/09	3:00	2.2	20
20/10/09	4:00	2.2	16
20/10/09	5:00	2.7	27
20/10/09	6:00	1.8	15
20/10/09	7:00	0.9	347
20/10/09	8:00	1.8	3
20/10/09	9:00	1.8	34
20/10/09	10:00	1.8	11
20/10/09	11:00	1.8	34
20/10/09	12:00	1.8	31
20/10/09	13:00	1.8	23
20/10/09	14:00	1.3	266
20/10/09	15:00	1.3	332
20/10/09	16:00	1.3	338
20/10/09	17:00	1.8	25
20/10/09	18:00	2.2	332
20/10/09	19:00	1.8	312
20/10/09	20:00	2.7	318
20/10/09	21:00	2.7	331
20/10/09	22:00	1.8	345
20/10/09	23:00	0.9	335

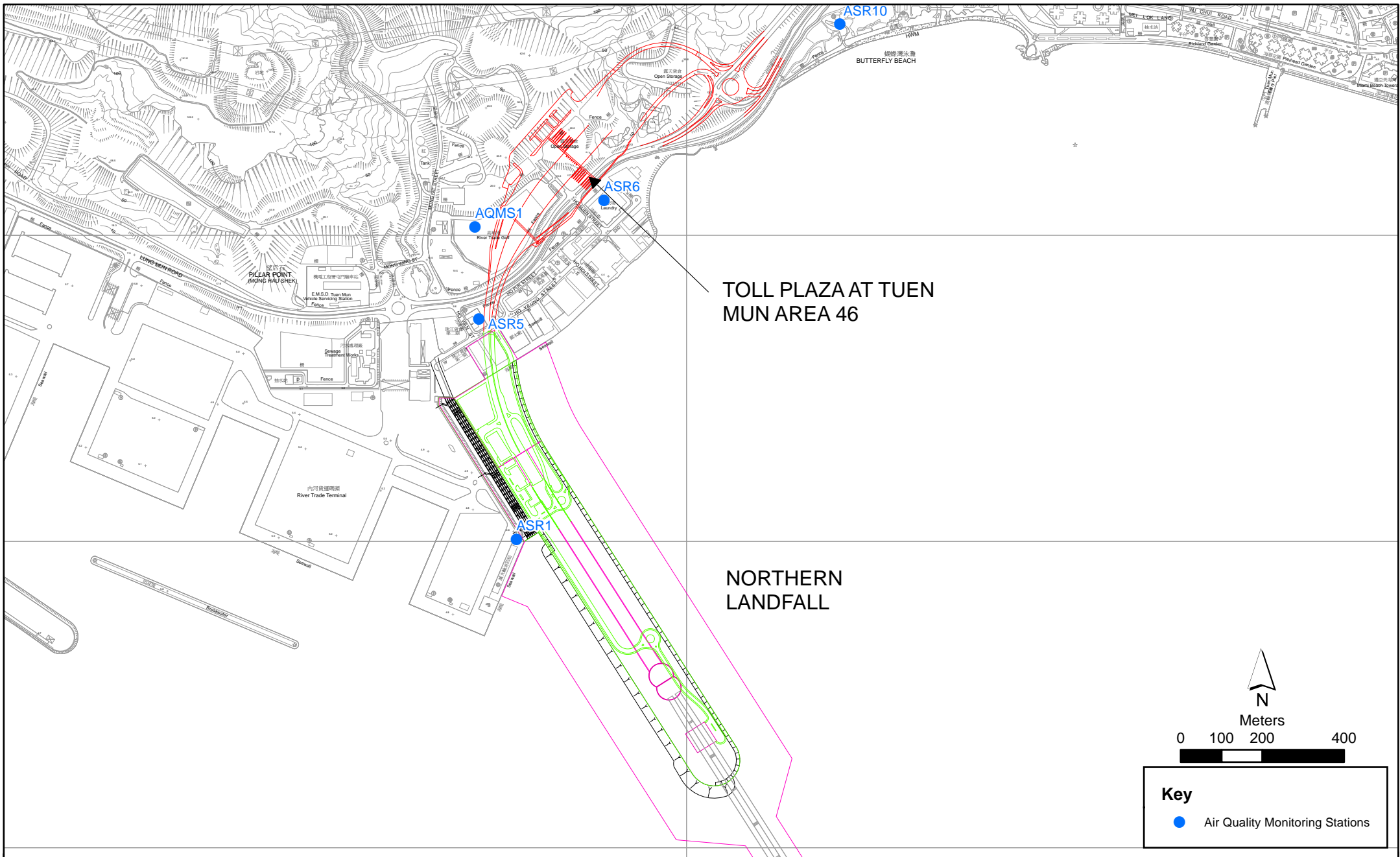


Figure 2.1

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)



Appendix B

Site Photo



Photo 1 - Fire Services Department Building



Photo 2 - Main Control Building

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

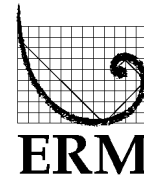
**From** ERM- Hong Kong, Limited

**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** 10 November 2020

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



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Dear Sir/ Madam,

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

Action Level Exceedance

0463091\_21October2020\_1hrTSP\_Station ASR6

0463091\_21October2020\_1hrTSP\_Station ASR5

0463091\_21October2020\_1hrTSP\_Station ASR1

Three (3) exceedances were recorded on 21 October 2020.

Regards,

Dr Jasmine Ng  
Environmental Team Leader

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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**

<b>Log No.</b>	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0463091_21October2020_1hrTSP_Station ASR6          0463091_21October2020_1hrTSP_Station ASR5          0463091_21October2020_1hrTSP_Station ASR1</p> <p style="text-align: center;">[Total No. of Exceedances = 3]</p>	
<b>Date</b>	<p style="text-align: center;">21 October 2020 (Measured)          10 November 2020 (Results obtained from ENPO Website)</p>	
<b>Monitoring Station</b>	<p style="text-align: center;">ASR6, ASR5, ASR1</p>	
<b>Parameter(s) with Exceedance(s)</b>	<p style="text-align: center;">1- hr TSP</p>	
<b>Action Levels</b>	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
<b>Limit Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
<b>Measured Levels</b>	Refer to <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
<b>Works Undertaken (at the time of monitoring event)</b>	Works undertaken under this Contract on 21 October 2020 included <ul style="list-style-type: none"> <li>• Indoor defect rectification at Northern Landfall;</li> <li>• Indoor defect rectification at Main Control Building</li> </ul>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	The exceedance is unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> <li>• With reference to the recorded wind direction (ranged between 322° and 345°), blowing from a north-westerly direction) and wind speed (2.2 m/s) when exceedances recorded, ASR5 and ASR6 are located upstream to the work area.</li> <li>• Only minor defect rectification works were conducted which are considered not major dust generating works, thus result of 1-hour TSP at ASR1 was unlikely impacted by the works under this project.</li> <li>• The construction area under this Contract were mainly paved. The remaining unpaved area are seated by machines such as crane machines and generators or used as material storage area with proper cover of tarpaulin sheet or designated for landscaping works. The exposed area are covered with tarpaulin sheet/vegetation. Dust are not anticipated (<i>Appendix B</i>).</li> </ul> Based on the above, the exceedances are unlikely to be due to the Contract.	
<b>Actions Taken / To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 21 October 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 21/10/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	8:00:00	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	9:02:00	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	10:04:00	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	8:12:00	1-hour TSP	254	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	9:14:00	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	10:16:00	1-hour TSP	352	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	8:23:00	1-hour TSP	474	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	9:25:00	1-hour TSP	213	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	10:27:00	1-hour TSP	265	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	8:35:00	1-hour TSP	494	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	9:37:00	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	10:39:00	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	8:47:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	9:49:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	10:51:00	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR10	Sunny	11:06:00	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR6	Sunny	11:18:00	24-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR5	Sunny	11:29:00	24-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2020-10-21	ASR1	Sunny	11:41:00	24-hour TSP	170	ug/m3
TMCLKL	HY/2012/08	2020-10-21	AQMS1	Sunny	11:53:00	24-hour TSP	101	ug/m3

Action level exceedance

Limit level exceedance

**Meteorological Data for Impact Monitoring in the reporting period**

<b>Date (yy-mm-dd)</b>	<b>Time (24hrs)</b>	<b>Average of Wind Speed (m/s)</b>	<b>Average of Wind Direction(degree)</b>
20/10/21	0:00	3.1	345
20/10/21	1:00	2.2	337
20/10/21	2:00	2.7	348
20/10/21	3:00	4.9	341
20/10/21	4:00	1.3	207
20/10/21	5:00	2.7	320
20/10/21	6:00	3.6	328
20/10/21	7:00	2.2	308
20/10/21	8:00	2.2	339
20/10/21	9:00	2.2	345
20/10/21	10:00	2.2	322
20/10/21	11:00	3.1	303
20/10/21	12:00	2.7	337
20/10/21	13:00	2.7	341
20/10/21	14:00	2.7	320
20/10/21	15:00	2.2	321
20/10/21	16:00	2.2	320
20/10/21	17:00	1.3	323
20/10/21	18:00	2.2	309
20/10/21	19:00	3.6	341
20/10/21	20:00	4	339
20/10/21	21:00	1.8	315
20/10/21	22:00	2.7	348
20-10-21	23:00	1.8	346

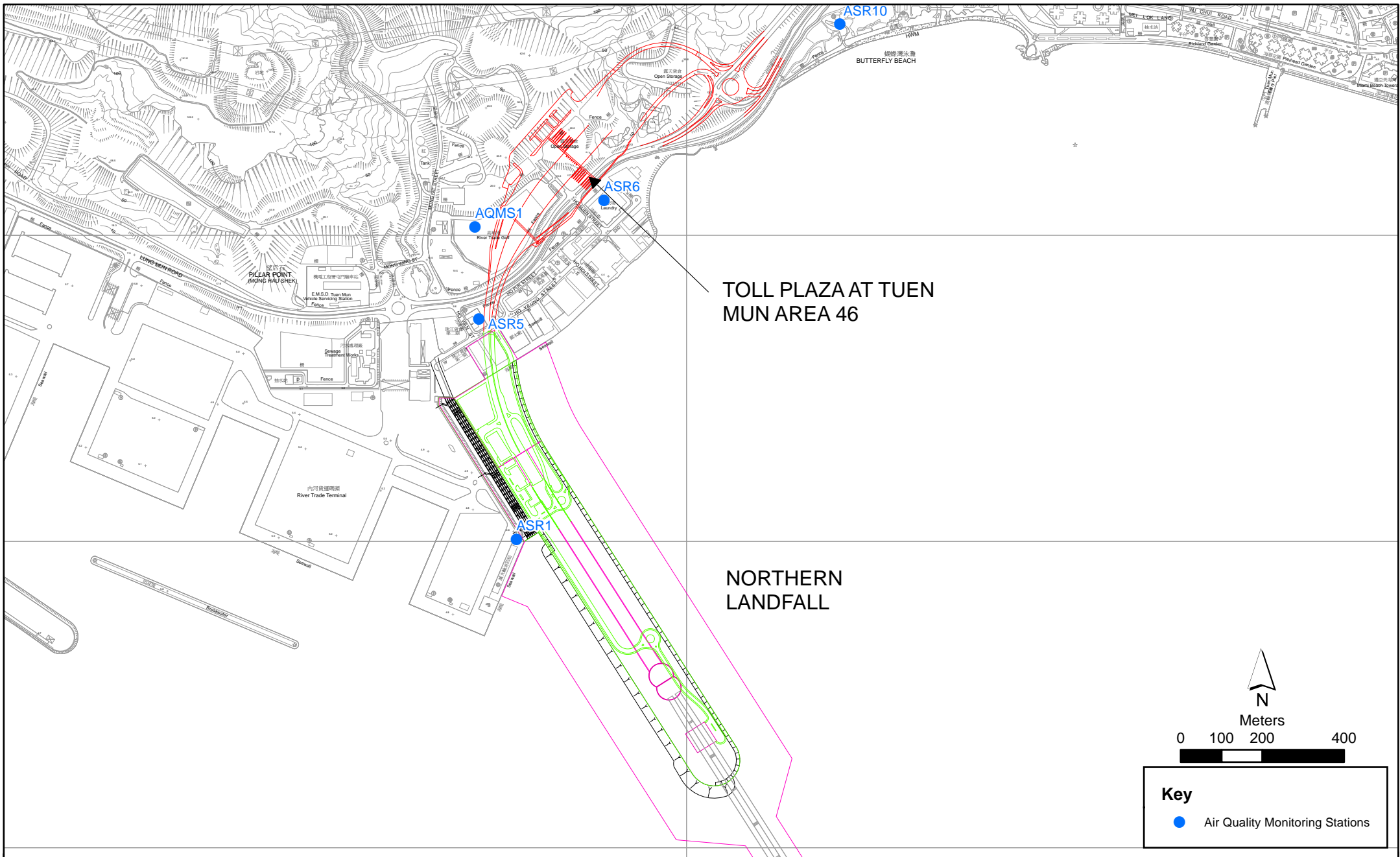


Figure 2.1

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)

Key

- Air Quality Monitoring Stations



Appendix B

Site Photo



Photo 1 - Northern Landfall



Photo 2 - Main Control Building