

Appendix G1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	5	21
	Limit	1	2
24-Hr TSP	Action	0	0
	Limit	0	0

Appendix G2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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

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To Ramboll Hong Kong Limited (ENPO)

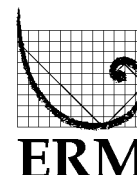
From ERM- Hong Kong, Limited

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 18 January 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_8January2019_1hrTSP_Station ASR5

One (1) exceedance was recorded on 8 January 2019.

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

Log No.	<p align="center"><u>Action Level Exceedance</u></p> <p align="center">0463091_8January2019_1hrTSP_Station ASR5</p> <p align="center">[Total No. of Exceedances = 1]</p>	
Date	<p align="center">8 January 2019 (Measured)</p> <p align="center">18 January 2019 (Results obtained from ENPO Website)</p>	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 8 January 2019 included: <ul style="list-style-type: none"> Rebar fixing at Administration Building and Maintenance Depot (<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 exceedances of 1 hour-TSP (13:20 – 14:20) at ASR5, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 8 January 2019 (<i>refer to Contractor's Photo and Watering Record</i>). With reference to the recorded wind direction (ranged between 204° to 221°, blowing from a south westerly direction) during the period of the observed 1-hr TSP exceedances, station ASR5 is located downstream of the Administration Building and Maintenance Depot. However, rebar fixing was conducted at the Administration Building and Maintenance Depot which are not major dust generating works. <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 including water spraying at unpaved road. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 8 January 2019 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 8 January 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-01-08	AQMS1	13:41	1-hour TSP	179	ug/m3
TMCLKL	HY/2012/08	2019-01-08	AQMS1	14:43	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	2019-01-08	AQMS1	15:45	1-hour TSP	193	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR1	13:30	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR1	14:32	1-hour TSP	281	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR1	15:34	1-hour TSP	193	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR10	13:00	1-hour TSP	162	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR10	14:02	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR10	15:04	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR5	13:20	1-hour TSP	354	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR5	14:22	1-hour TSP	292	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR5	15:24	1-hour TSP	275	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR6	13:10	1-hour TSP	239	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR6	14:12	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR6	15:14	1-hour TSP	197	ug/m3
TMCLKL	HY/2012/08	2019-01-08	AQMS1	16:47	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR1	16:36	24-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR10	16:06	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR5	16:26	24-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-01-08	ASR6	16:16	24-hour TSP	119	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)
19/01/08	0:00	0.0	-
19/01/08	1:00	0.0	-
19/01/08	2:00	0.0	-
19/01/08	3:00	0.4	47
19/01/08	4:00	0.9	44
19/01/08	5:00	1.3	93
19/01/08	6:00	0.9	111
19/01/08	7:00	1.3	95
19/01/08	8:00	0.4	88
19/01/08	9:00	0.9	113
19/01/08	10:00	0.4	163
19/01/08	11:00	0.9	159
19/01/08	12:00	1.3	228
19/01/08	13:00	0.9	210
19/01/08	14:00	0.9	204
19/01/08	15:00	0.9	221
19/01/08	16:00	0.4	250
19/01/08	17:00	0.9	182
19/01/08	18:00	1.8	345
19/01/08	19:00	1.3	309
19/01/08	20:00	1.3	295
19/01/08	21:00	0.9	299
19/01/08	22:00	1.3	297
19/01/08	23:00	0.4	346

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

Photo 1 - Rebar fixing conducted at works area of Administration Building and Maintenance Depot



Photo 2- Watering of unpaved roads near Administration Building and Maintenance Depot



WATERING RECORD ON 8 JANUARY 2019

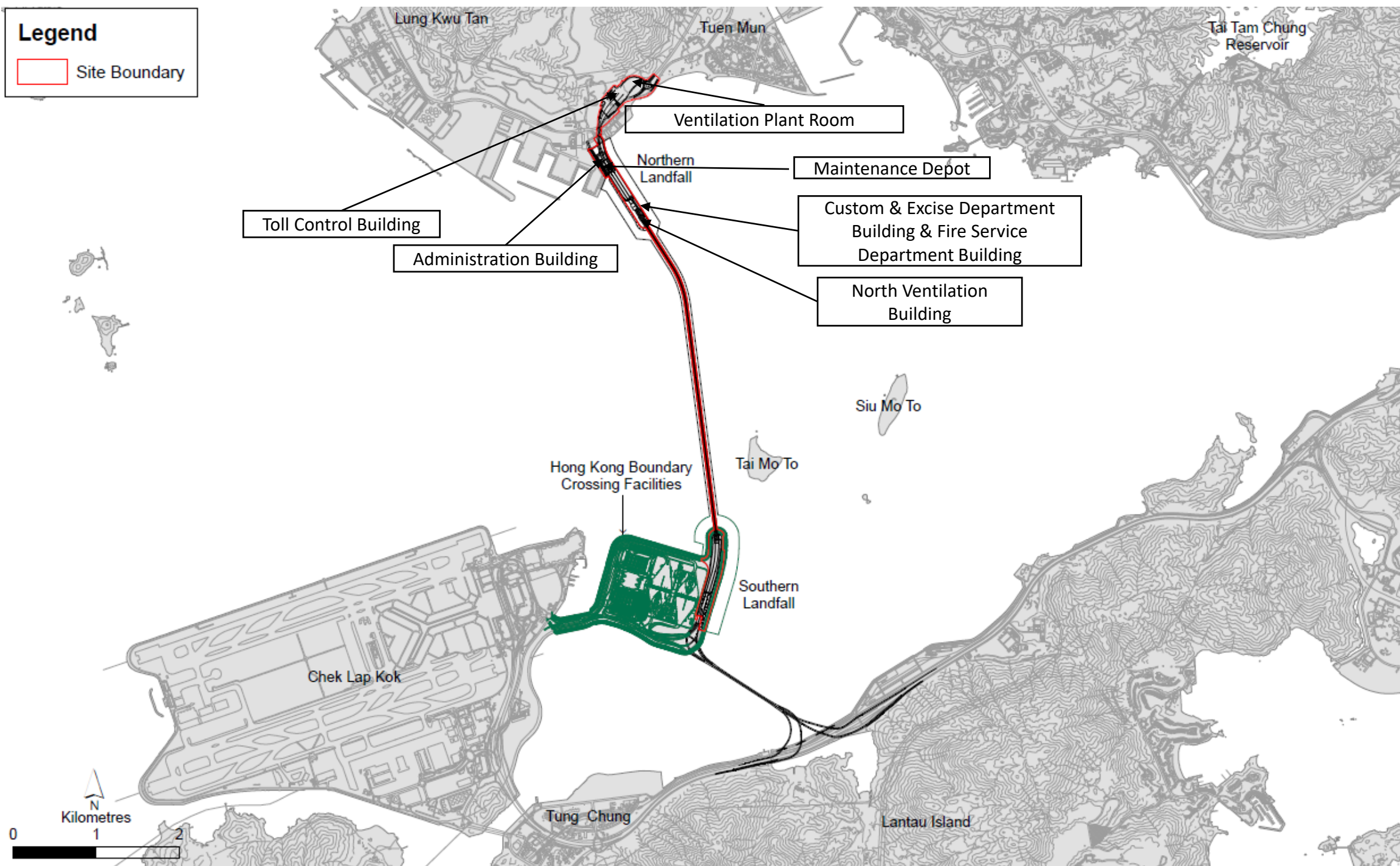
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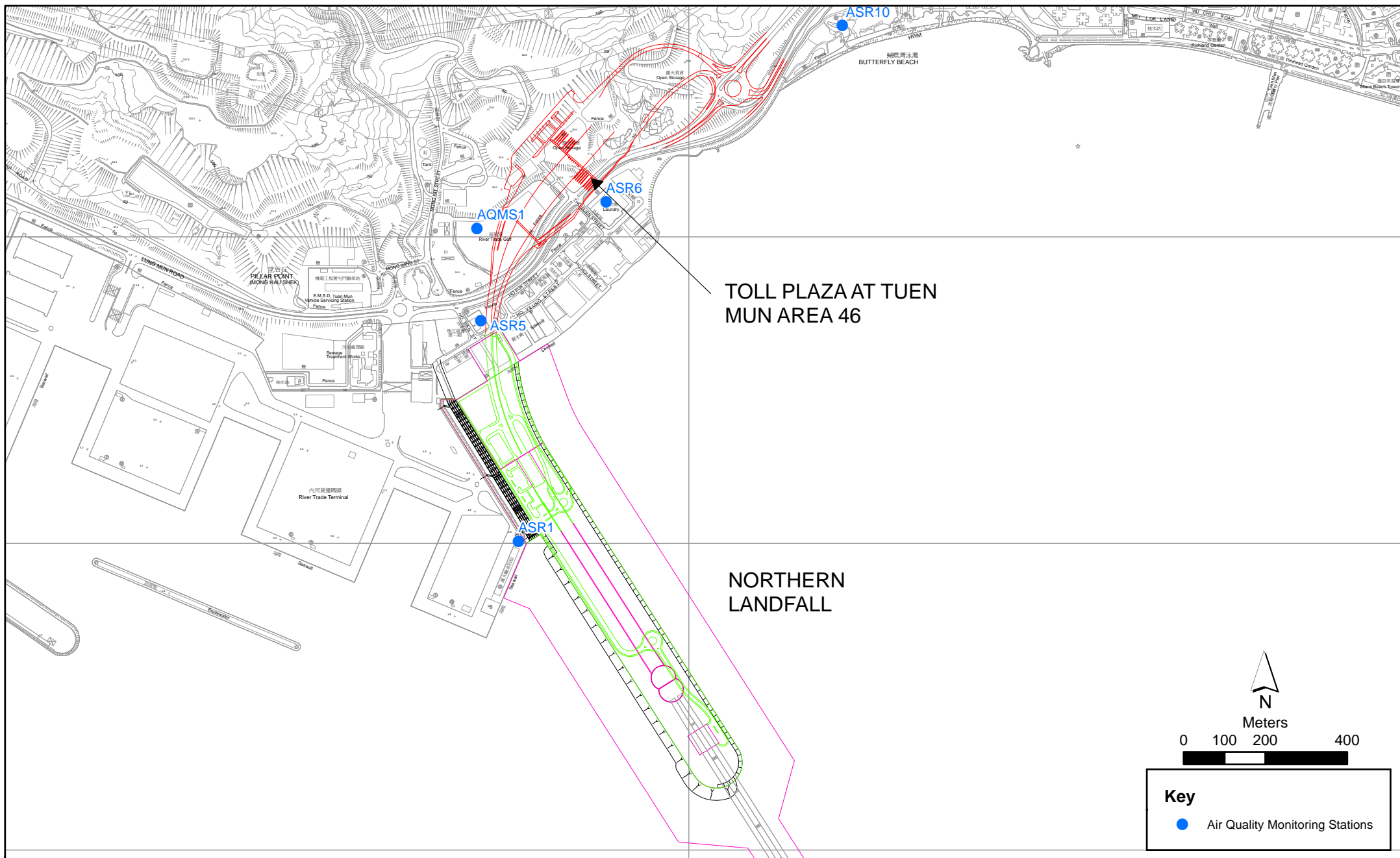
8th Jan

Period		Watering time	Sign.
7-8			
8-9	/	8:09	D2K
9-10	/	9:13	D2K
10-11	/	10:10	D2K
11-12	/	11:04	D2K
12-13	/	12:01 & 12:59	D2K
13-14	/	13:38	D2K
14-15	/	14:29	D2K
15-16	/	15:04	D2K
16-17	/	16:00 & 16:54	D2K
17-18	/	17:48	D2K
18-19			

Legend

 Site Boundary





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)

File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
 Date: 21/2/2014

Key

- Air Quality Monitoring Stations

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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 18 January 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_11January2019_1hrTSP_Station ASR1

0463091_11January2019_1hrTSP_Station ASR5

Two (2) exceedances were recorded on 11 January 2019.

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

Log No.	<p align="center"><u>Action Level Exceedance</u></p> <p align="center">0463091_11January2019_1hrTSP_Station ASR1 0463091_11January2019_1hrTSP_Station ASR5</p> <p align="center">[Total No. of Exceedances = 2]</p>	
Date	<p align="center">11 January 2019 (Measured) 18 January 2019 (Results obtained from ENPO Website)</p>	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 11 January 2019 included: <ul style="list-style-type: none"> Rebar fixing at Administration Building and Maintenance Depot (<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 exceedances of 1 hour-TSP at ASR1 during 13:39 to 14:39 and at ASR5 during 13:27 to 14:27, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 11 January 2019 (<i>refer to Contractor's Photo and Watering Record</i>). Works conducted at Administration Building and Maintenance Depot during the time when 1-hour TSP exceedances was recorded was rebar fixing which not dust generating. With reference to the recorded wind direction (ranged between 112° and 155°, blowing from a south-easterly direction) during the period of the observed 1-hr TSP exceedances, stations ASR1 and ASR5 are located downstream of the Administration Building and Maintenance Depot. However, rebar fixing was conducted at the Administration Building and Maintenance Depot which are not major dust generating works. <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 including water spraying at unpaved road. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 11 January 2019 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 11 January 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-01-11	AQMS1	13:50	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2019-01-11	AQMS1	14:52	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-01-11	AQMS1	15:54	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR1	13:39	1-hour TSP	335	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR1	14:41	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR1	15:43	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR10	13:05	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR10	14:07	1-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR10	15:09	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR5	13:27	1-hour TSP	398	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR5	14:29	1-hour TSP	327	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR5	15:31	1-hour TSP	243	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR6	13:16	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR6	14:18	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR6	15:20	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2019-01-11	AQMS1	16:56	24-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR1	16:45	24-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR10	16:11	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR5	16:33	24-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-01-11	ASR6	16:22	24-hour TSP	191	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)
19/01/11	0:00	0.0	-
19/01/11	1:00	0.0	-
19/01/11	2:00	0.0	-
19/01/11	3:00	0.0	-
19/01/11	4:00	0.9	89
19/01/11	5:00	0.4	113
19/01/11	6:00	1.3	51
19/01/11	7:00	1.8	71
19/01/11	8:00	0.9	137
19/01/11	9:00	0.9	284
19/01/11	10:00	0.9	162
19/01/11	11:00	1.3	223
19/01/11	12:00	0.9	160
19/01/11	13:00	0.9	112
19/01/11	14:00	1.3	155
19/01/11	15:00	2.2	69
19/01/11	16:00	1.8	55
19/01/11	17:00	0.9	90
19/01/11	18:00	0.4	88
19/01/11	19:00	0	-
19/01/11	20:00	0	-
19/01/11	21:00	0	-
19/01/11	22:00	0	-
19/01/11	23:00	0	-

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

Photo 1 - Rebar fixing conducted at works area of Administration Building and Maintenance Depot



Photo 2- Watering of unpaved roads near Administration Building and Maintenance Depot

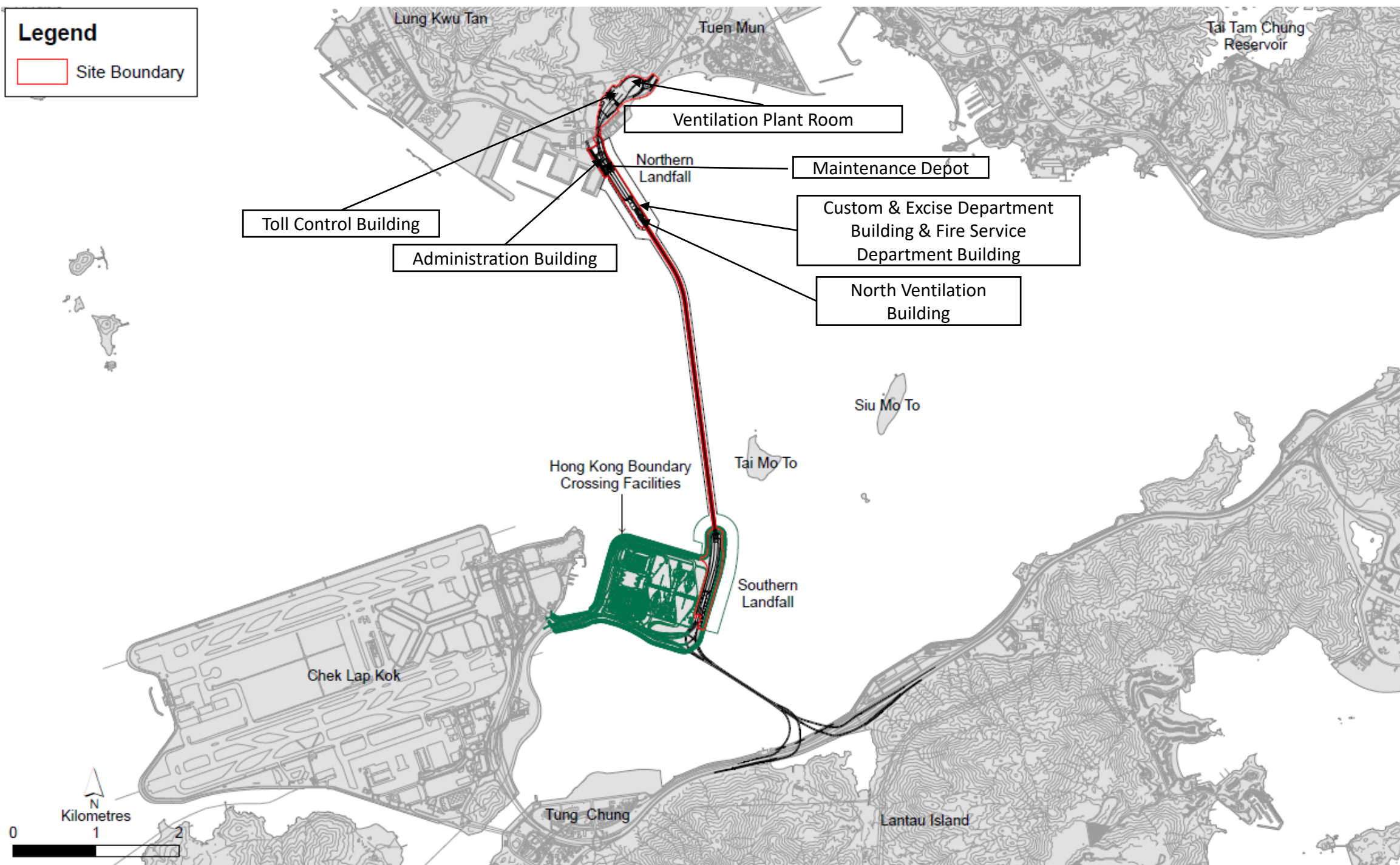


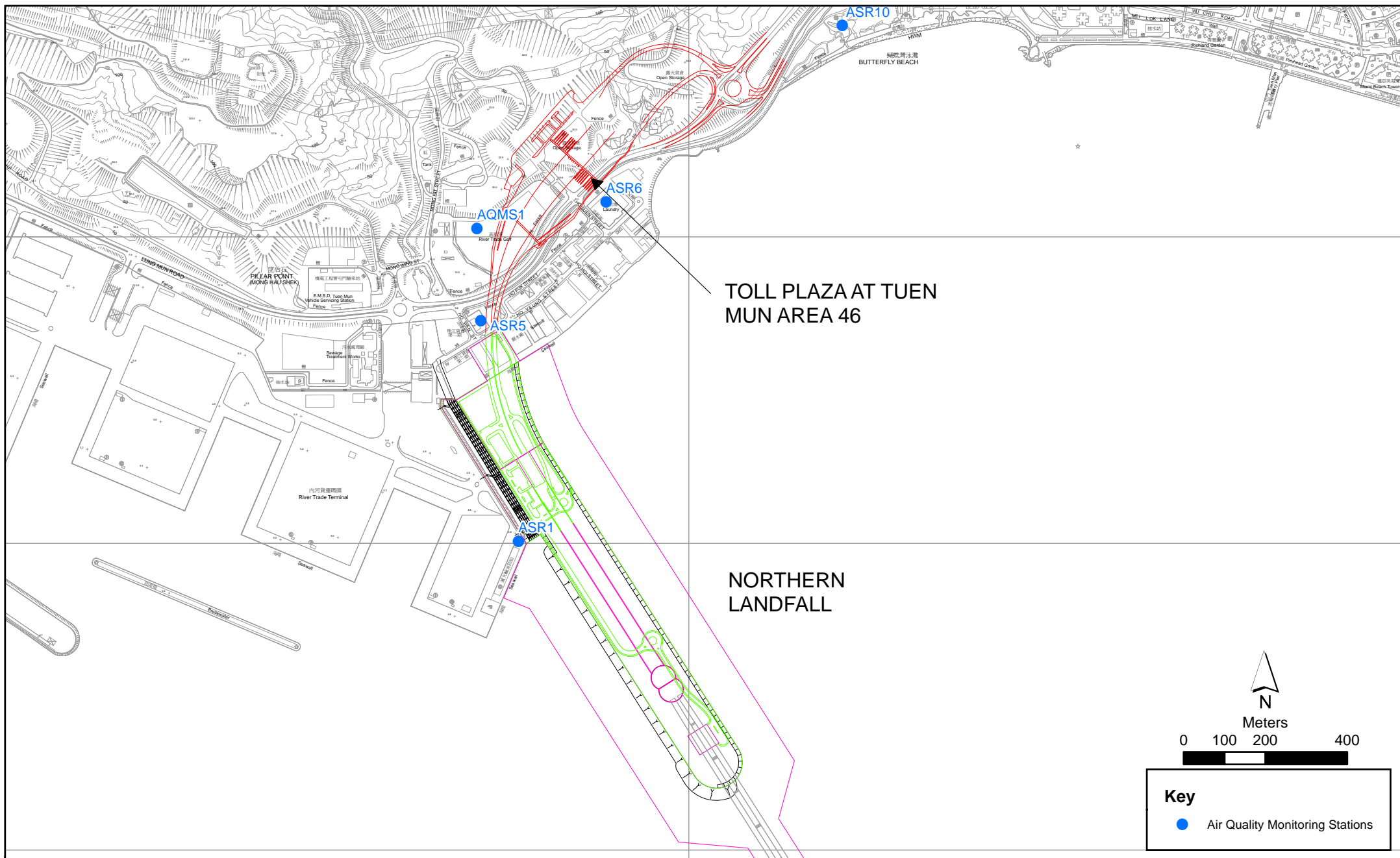
WATERING RECORD ON 11 JANUARY 2019

11 th Jan		Location: A&B & MD	
Period		Time	Sign
7-8			
8-9	/	8=10	Man
9-10	/	9=01 9=50	Man
10-11	/	10=39	Man
11-12	/	11=41	Man
12-13	/	12=58	Man
13-14	/	13=40	Man
14-15	/	14=30 14=59	Man
15-16	/	15=44	Man
16-17	/	16=32	Man
17-18	/	17=19	Man
18-19			

Legend

Site Boundary





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)

File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
 Date: 21/2/2014

Key

- Air Quality Monitoring Stations

**Environmental
Resources
Management**



Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

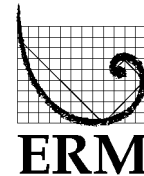
From ERM- Hong Kong, Limited

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 8 February 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_17January2019_1hrTSP_Station ASR1

0463091_17January2019_1hrTSP_Station ASR5

Two (2) exceedances were recorded on 17 January 2019.

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

Log No.	<p align="center"><u>Action Level Exceedance</u></p> <p align="center">0463091_17January2019_1hrTSP_Station ASR1 0463091_17January2019_1hrTSP_Station ASR5</p> <p align="center">[Total No. of Exceedances = 2]</p>	
Date	<p align="center">17 January 2019 (Measured) 8 February 2019 (Results obtained from ENPO Website)</p>	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 17 January 2019 included: <ul style="list-style-type: none"> Rebar fixing at Administration Building and Maintenance Depot (<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 exceedances of 1 hour-TSP at ASR1 during 16:04 to 17:04 and at ASR5 during 15:52 to 16:52, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 17 January 2019 (<i>refer to Contractor's Photo and watering record</i>). With reference to the recorded wind direction (ranged between 284° and 351°, blowing from a north-westerly direction) during the period of the observed 1-hr TSP exceedances, no works are conducted upstream of stations ASR1 and ASR5. <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 including water spraying at unpaved road. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 17 January 2019 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 17 January 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-01-17	AQMS1	14:13	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-01-17	AQMS1	15:14	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2019-01-17	AQMS1	16:16	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR1	14:00	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR1	15:02	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR1	16:04	1-hour TSP	519	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR10	13:26	1-hour TSP	223	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR10	14:28	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR10	15:30	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR5	13:48	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR5	14:50	1-hour TSP	269	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR5	15:52	1-hour TSP	354	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR6	13:37	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR6	14:39	1-hour TSP	304	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR6	15:41	1-hour TSP	255	ug/m3
TMCLKL	HY/2012/08	2019-01-17	AQMS1	17:18	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR1	17:06	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR10	16:32	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR5	16:54	24-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2019-01-17	ASR6	16:43	24-hour TSP	98	ug/m3

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

Photo 1 - Rebar fixing conducted at works area of Administration Building and Maintenance Depot



Photo 2- Watering of unpaved roads near Administration Building and Maintenance Depot



WATERING RECORD ON 17 JANUARY 2019

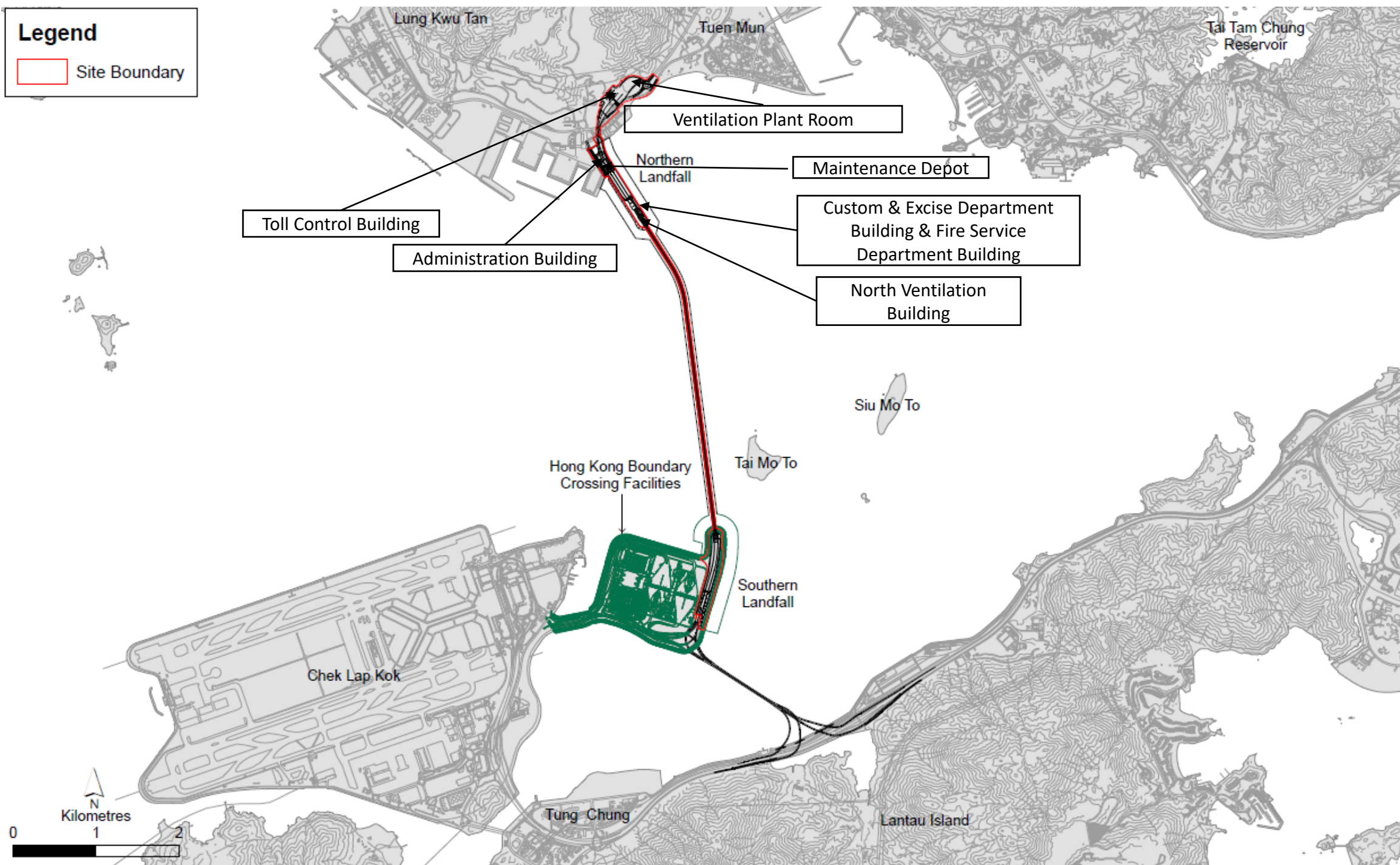
17 th Jan		Location: A&B & MD	
Period		Time	Sign
7-8			
8-9	/	8:03	Man
9-10	/ /	9:15 9:40	Man
10-11	/	10:08	Man
11-12	/	11:10	Man
12-13	/	12:50	Man
13-14	/ /	13:21 13:50	Man
14-15	/	14:30	Man
15-16	/	15:42	Man
16-17	/	16:31	Man
17-18	/	17:24	Man
18-19			

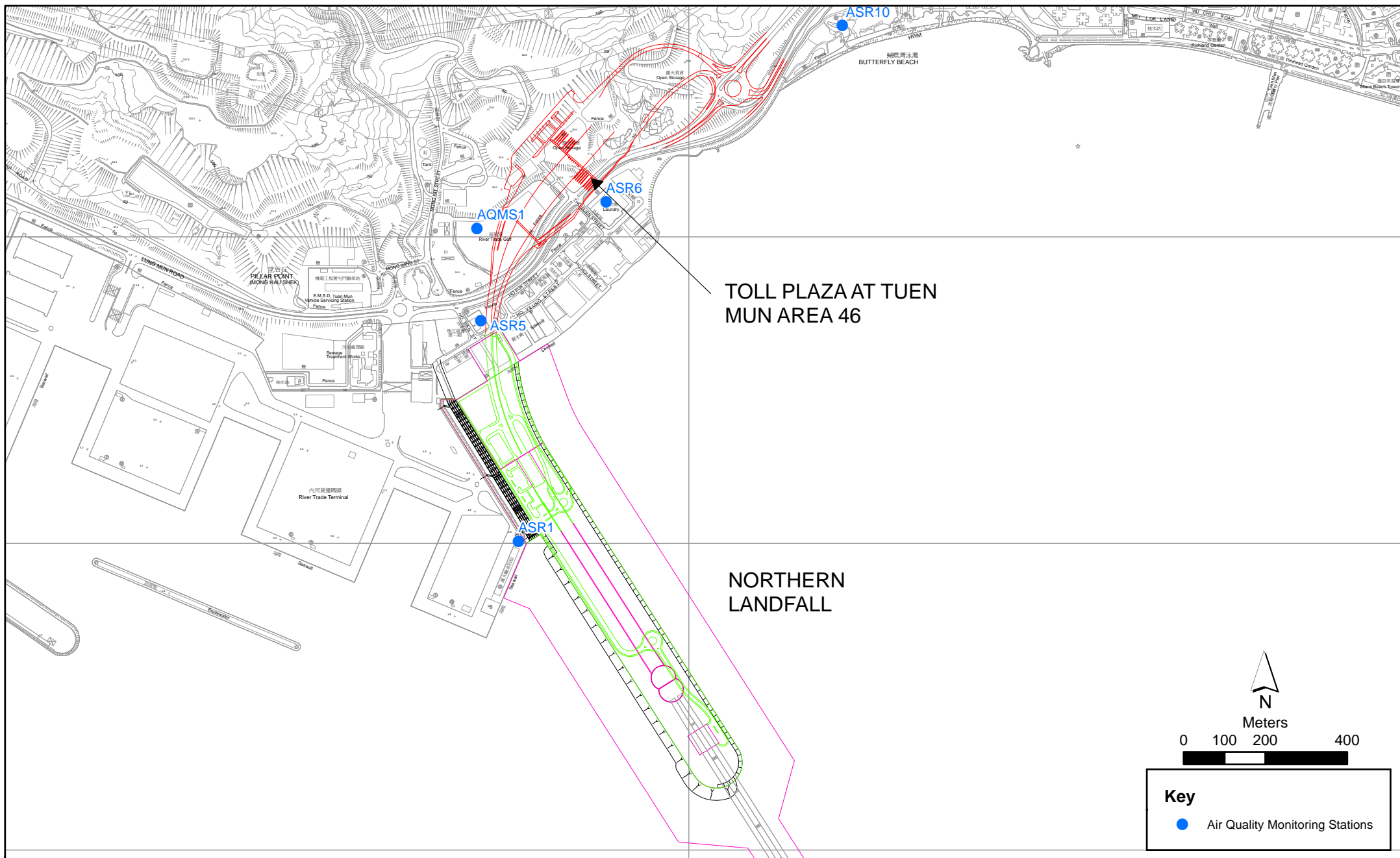
Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/01/17	0:00	1.3	342
19/01/17	1:00	1.8	340
19/01/17	2:00	2.2	32
19/01/17	3:00	1.8	30
19/01/17	4:00	1.8	22
19/01/17	5:00	1.8	49
19/01/17	6:00	1.8	17
19/01/17	7:00	1.3	55
19/01/17	8:00	0.9	32
19/01/17	9:00	1.8	45
19/01/17	10:00	2.2	47
19/01/17	11:00	2.2	52
19/01/17	12:00	1.8	29
19/01/17	13:00	2.2	207
19/01/17	14:00	2.2	274
19/01/17	15:00	3.1	276
19/01/17	16:00	2.2	284
19/01/17	17:00	0.9	351
19/01/17	18:00	1.8	90
19/01/17	19:00	1.3	85
19/01/17	20:00	0.9	32
19/01/17	21:00	1.3	37
19/01/17	22:00	1.3	42
19/01/17	23:00	1.3	44

*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





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 12 February 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_26January2019_1hrTSP_Station ASR5

One (1) exceedance were recorded on 26 January 2019.

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

Log No.	<p align="center"><u>Action Level Exceedance</u></p> <p align="center">0463091_26January2019_1hrTSP_Station ASR5</p> <p align="center">[Total No. of Exceedances = 1]</p>	
Date	<p align="center">26 January 2019 (Measured)</p> <p align="center">12 February 2019 (Results obtained from ENPO Website)</p>	
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
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
Measured Levels	Refer to the attached data sheet.	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 26 January 2019 included: <ul style="list-style-type: none"> Rebar fixing at Administration Building and Maintenance Depot (<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 hour-TSP at ASR5 during 8:30 to 9:30, other 1hr-TSP levels and all 24-hr TSP at all monitoring stations were in compliance with the Action and Limit Levels on the same day. Watering record provided by the Contractor was reviewed. Watering was maintained on unpaved and dry road on 26 January 2019 (<i>refer to Contractor's Photo</i>). With reference to the recorded wind direction (ranged between 143° and 158°, blowing from a south-easterly direction) during the period of the observed 1-hr TSP exceedances, station ASR5 is located downstream of the Administration Building and Maintenance Depot. However, rebar fixing was conducted at the Administration Building and Maintenance Depot which are not major dust generating works. <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 including water spraying at unpaved road. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 26 January 2019 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 26 January 2019 is sourced from <i>Contract No. HY/2012/08</i> for reference.	

Results of Air Quality Monitoring

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-01-26	AQMS1	8:53	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2019-01-26	AQMS1	9:55	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2019-01-26	AQMS1	10:57	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR1	8:42	1-hour TSP	245	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR1	9:44	1-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR1	10:46	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR10	8:08	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR10	9:10	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR10	10:12	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR5	8:30	1-hour TSP	399	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR5	9:32	1-hour TSP	208	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR5	10:34	1-hour TSP	208	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR6	8:19	1-hour TSP	304	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR6	9:21	1-hour TSP	111	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR6	10:23	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-01-26	AQMS1	11:59	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR1	11:48	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR10	11:14	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR5	11:36	24-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-01-26	ASR6	11:25	24-hour TSP	90	ug/m3

Note:

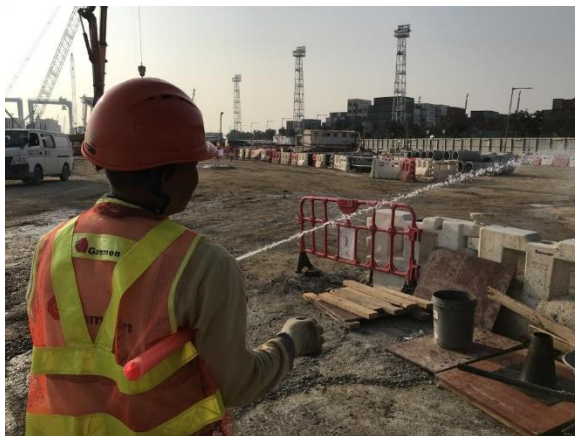
Indicates Exceedance of Action Level

Indicates Exceedance of Limit Level

Photo 1 - Rebar fixing conducted at works area of Administration Building and Maintenance Depot



Photo 2- Watering of unpaved roads near Administration Building and Maintenance Depot



WATERING RECORD ON 26 JANUARY 2019

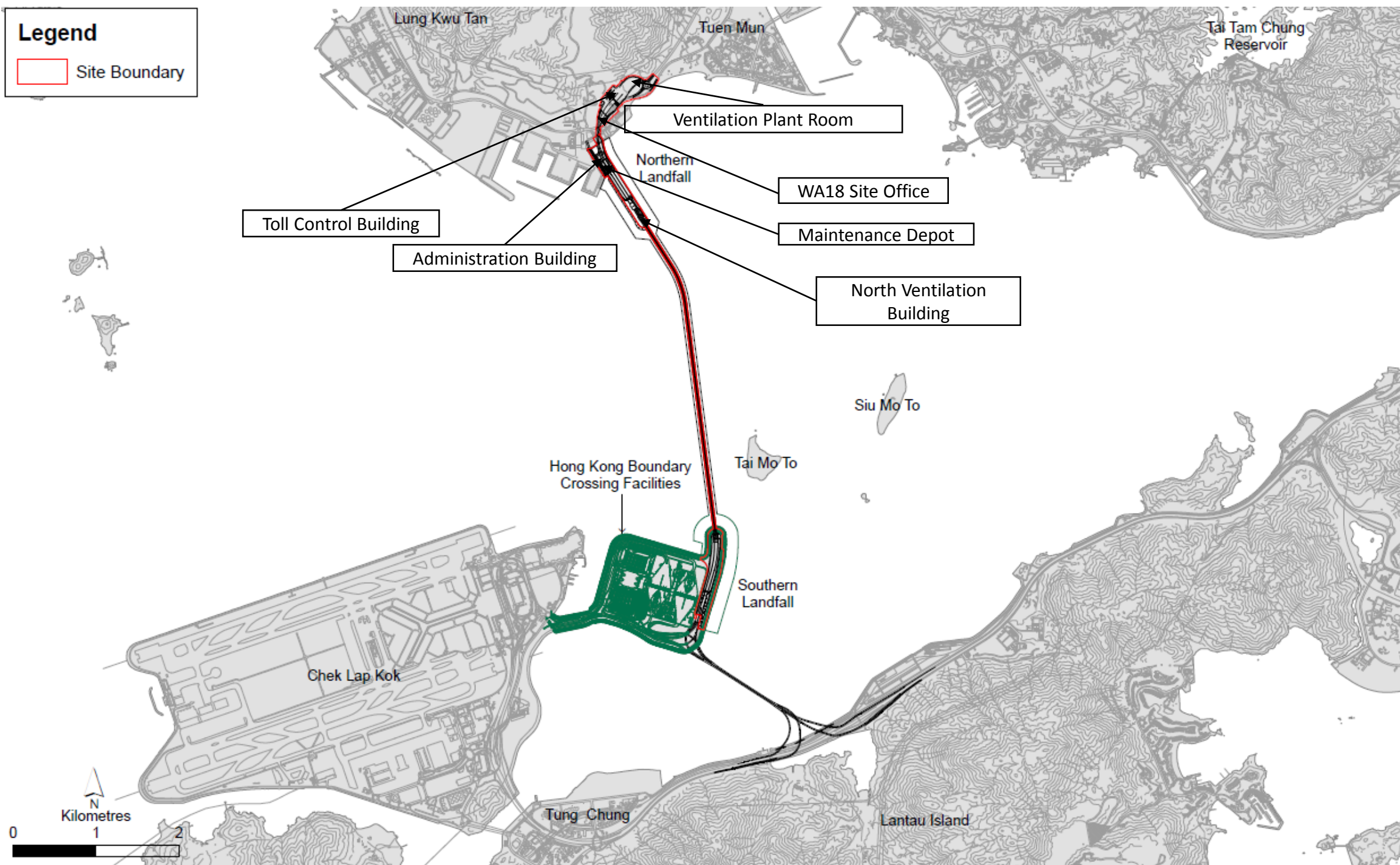
26 th Jan		Location: A&B 8 mp	
Period		Time	Sign
7-8			
8-9	✓	8:05	Alan
9-10	✓	9:06	Alan
10-11	✓	10:11	Alan
11-12	✓ ✓	11:07 11:43	Alan
12-13	✓	12:50	Alan
13-14	✓	13:31	Alan
14-15	✓	14:15	Alan
15-16	✓ ✓	15:03 15:44	Alan
16-17	✓	16:41	Alan
17-18	✓	17:29	Alan
18-19			

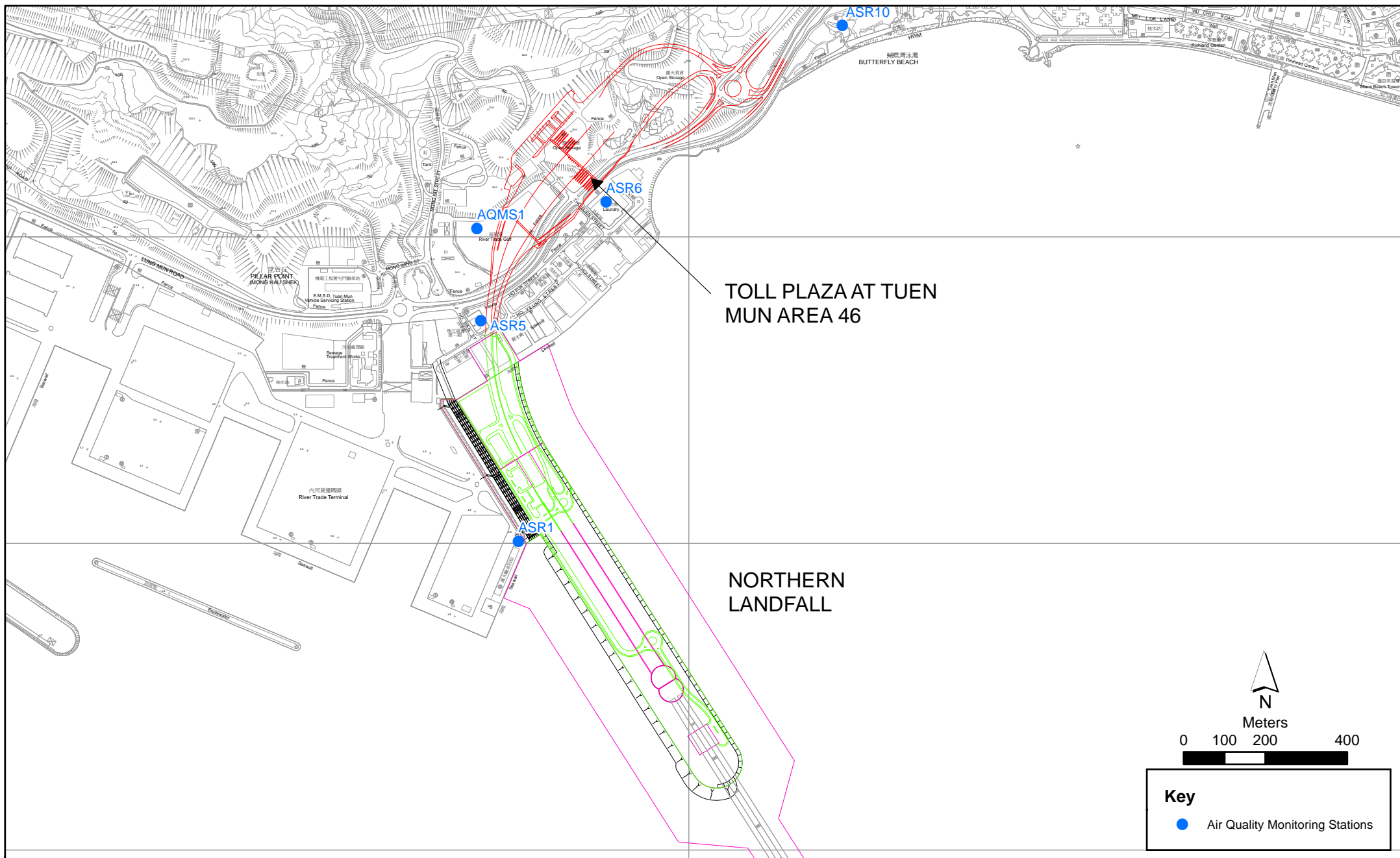
Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/01/26	0:00	0.0	-
19/01/26	1:00	0.0	-
19/01/26	2:00	0.4	12
19/01/26	3:00	2.2	34
19/01/26	4:00	2.2	47
19/01/26	5:00	2.2	39
19/01/26	6:00	2.7	47
19/01/26	7:00	1.8	14
19/01/26	8:00	1.3	143
19/01/26	9:00	2.2	158
19/01/26	10:00	2.2	154
19/01/26	11:00	1.8	221
19/01/26	12:00	2.2	215
19/01/26	13:00	1.3	220
19/01/26	14:00	1.3	254
19/01/26	15:00	2.2	213
19/01/26	16:00	2.2	232
19/01/26	17:00	1.3	94
19/01/26	18:00	1.8	96
19/01/26	19:00	1.8	95
19/01/26	20:00	2.2	85
19/01/26	21:00	2.7	94
19/01/26	22:00	3.6	86
19/01/26	23:00	3.1	95

*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





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)