

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	2	25
	Limit	0	2
24-Hr TSP	Action	1	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 Month (May 2019)	1	0	0
Total No. received since contract commencement	1	0	0

Email
message

Environmental
Resources
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To Ramboll Hong Kong Limited (ENPO)

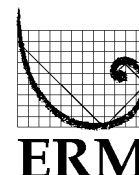
From ERM- Hong Kong, Limited

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 3 June 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_11May2019_1hrTSP_Station ASR1

One (1) exceedance was recorded on 11 May 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.	<u>Action Level Exceedance</u> 0463091_11May2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	11 May 2019 (Measured) 27 May 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
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 May 2019 included: <ul style="list-style-type: none"> ▪ 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 ASR1 during 09:03 – 10:03 on 11 May 2019, all 1-hr TSP levels and other 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 95° and 98°, blowing from an easterly direction) during the works period, no works area under this contract is located upstream of Station ASR1. <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 11 May 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 May 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	2019-05-11	AQMS1	9:15	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2019-05-11	AQMS1	10:17	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-05-11	AQMS1	11:19	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR1	9:03	1-hour TSP	339	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR1	10:05	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR1	11:07	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR10	8:30	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR10	9:32	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR10	10:34	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR5	8:52	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR5	9:54	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR5	10:56	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR6	8:41	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR6	9:43	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR6	10:45	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-05-11	AQMS1	12:21	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR1	12:09	24-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR10	11:36	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR5	11:58	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-05-11	ASR6	11:47	24-hour TSP	49	ug/m3

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

Photo 1 - Building structure was conducted at works area of Customs and Excise Building



Photo 2 - Building structure was conducted at works area of Administration Building

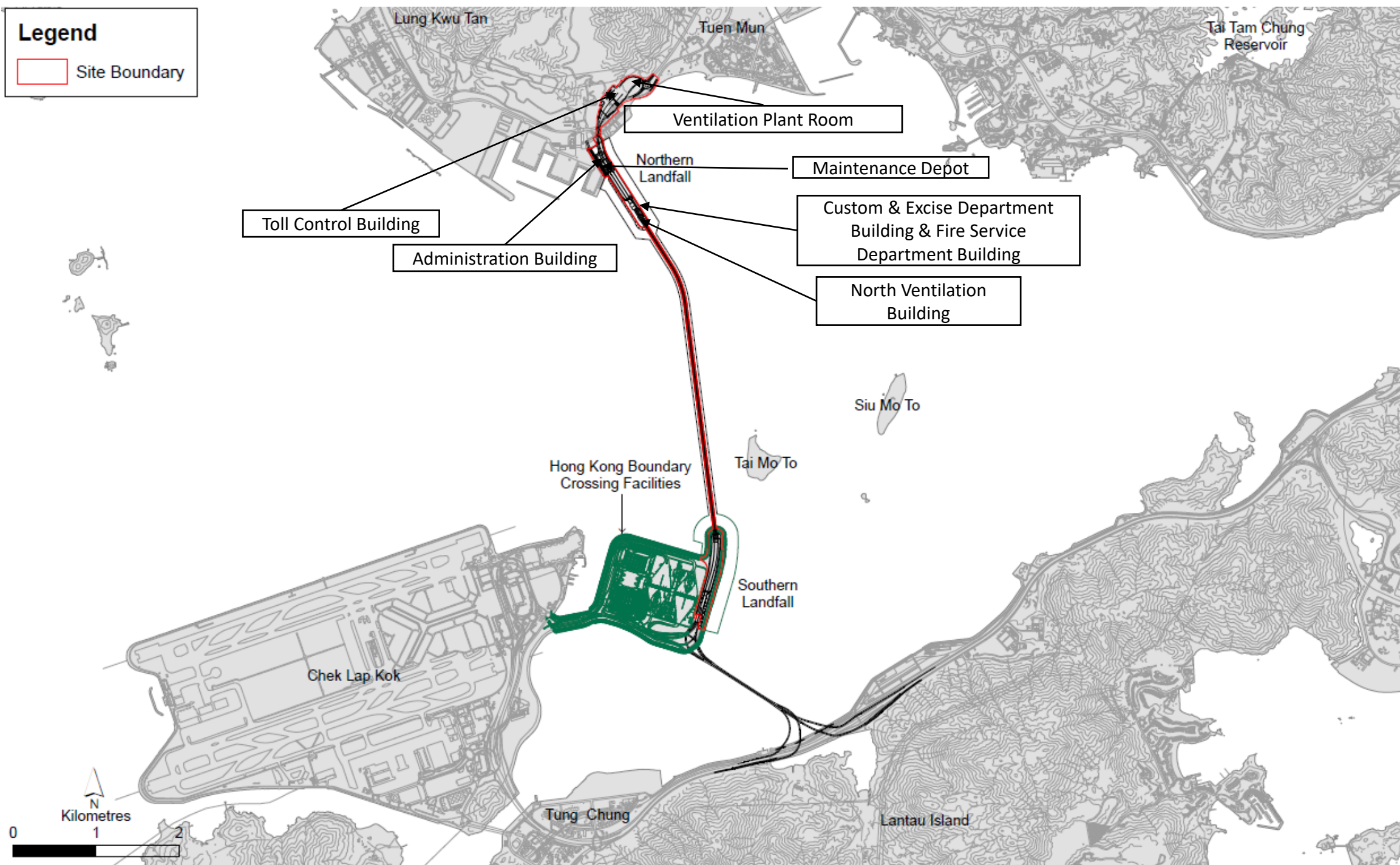


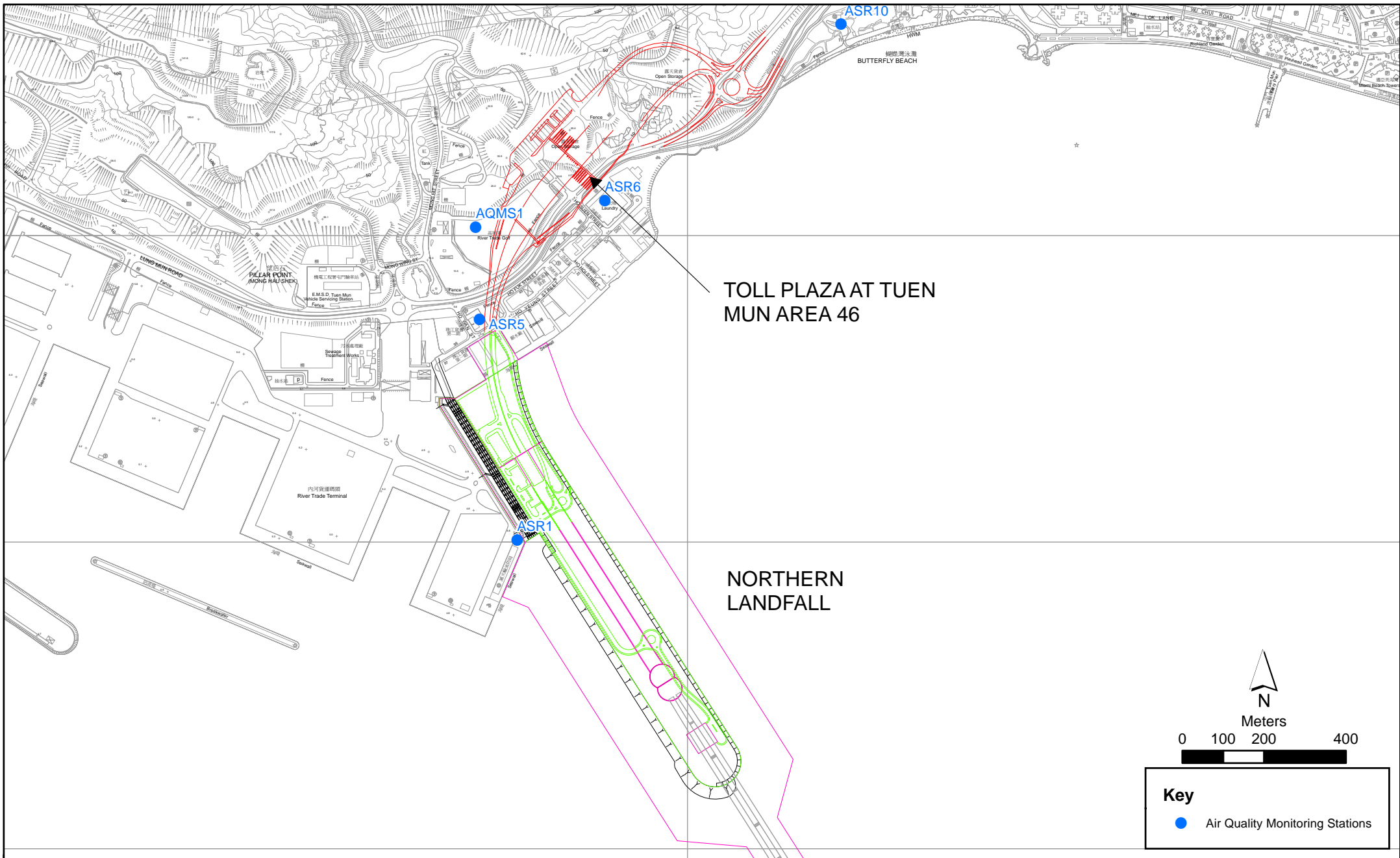
Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/05/11	0:00	0.9	14
19/05/11	1:00	0	46
19/05/11	2:00	0.0	34
19/05/11	3:00	0.9	46
19/05/11	4:00	0.4	49
19/05/11	5:00	0.4	100
19/05/11	6:00	0.4	39
19/05/11	7:00	0.9	70
19/05/11	8:00	1.8	42
19/05/11	9:00	2.7	98
19/05/11	10:00	2.7	95
19/05/11	11:00	1.8	122
19/05/11	12:00	1.3	218
19/05/11	13:00	1.3	275
19/05/11	14:00	2.2	191
19/05/11	15:00	2.2	194
19/05/11	16:00	2.2	196
19/05/11	17:00	2.2	191
19/05/11	18:00	0.9	84
19/05/11	19:00	2.2	39
19/05/11	20:00	2.2	49
19/05/11	21:00	2.2	60
19/05/11	22:00	3.1	95
19/05/11	23:00	3.1	67

*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





TOLL PLAZA AT TUEN
MUN AREA 46

NORTHERN
LANDFALL



Meters

0 100 200 400



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)

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To Ramboll Hong Kong Limited (ENPO)

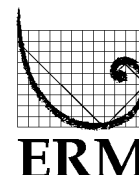
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18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



Dear Sir/ Madam,

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

Action Level Exceedance

0463091_23May2019_1hrTSP_Station ASR1

0463091_23May2019_24hrTSP_Station ASR1

Two (2) exceedance was recorded on 23 May 2019.

Regards,

A handwritten signature in blue ink that reads "Jasmine".

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.	<u>Action Level Exceedance</u> 0463091_23May2019_1hrTSP_Station ASR1 0463091_23May2019_24hrTSP_Station ASR1 [Total No. of Exceedances = 2]	
Date	23 May 2019 (Measured) 3 June 2019 (Results obtained from ENPO Website)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10, AQMS1	
Parameter(s) with Exceedance(s)	1- hr TSP 24-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 AQMS1 = 213 ASR6 = 238 ASR10 = 214
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.	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 23 and 24 May 2019 included: <ul style="list-style-type: none"> ▪ 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 ASR1 during 13:44-14:44 on 23 May 2019 and 24-hr TSP at ASR1 during 23 May 2019 16:50 to 24 May 2019 16:50, all 1-hr TSP levels and other 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 84° and 105° when 1-hr TSP exceedance was recorded and ranged between 59° to 101° when 24-hr TSP exceedance were recorded blowing from an easterly direction) during the works period, no works area under this contract is located upstream of Station ASR1. <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 23 May 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 23 and 24 May 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	2019-05-23	AQMS1	13:55	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2019-05-23	AQMS1	14:57	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-05-23	AQMS1	15:59	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR1	13:44	1-hour TSP	408	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR1	14:46	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR1	15:48	1-hour TSP	191	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR10	13:13	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR10	14:15	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR10	15:17	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR5	13:33	1-hour TSP	215	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR5	14:35	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR5	15:37	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR6	13:23	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR6	14:25	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR6	15:27	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-05-23	AQMS1	17:01	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR1	16:50	24-hour TSP	217	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR10	16:19	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR5	16:39	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-05-23	ASR6	16:29	24-hour TSP	71	ug/m3

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

PHOTO BY CONTRACTOR ON 23 AND 24 MAY 2019

Photo 1 - Building structure was conducted at works area of Customs and Excise Building (23 May 2019)



Photo 2- Building structure was conducted at works area of Customs and Excise Building (24 May 2019)



Photo 3 - Building structure was conducted at works area of Maintenance Depot (24 May 2019)

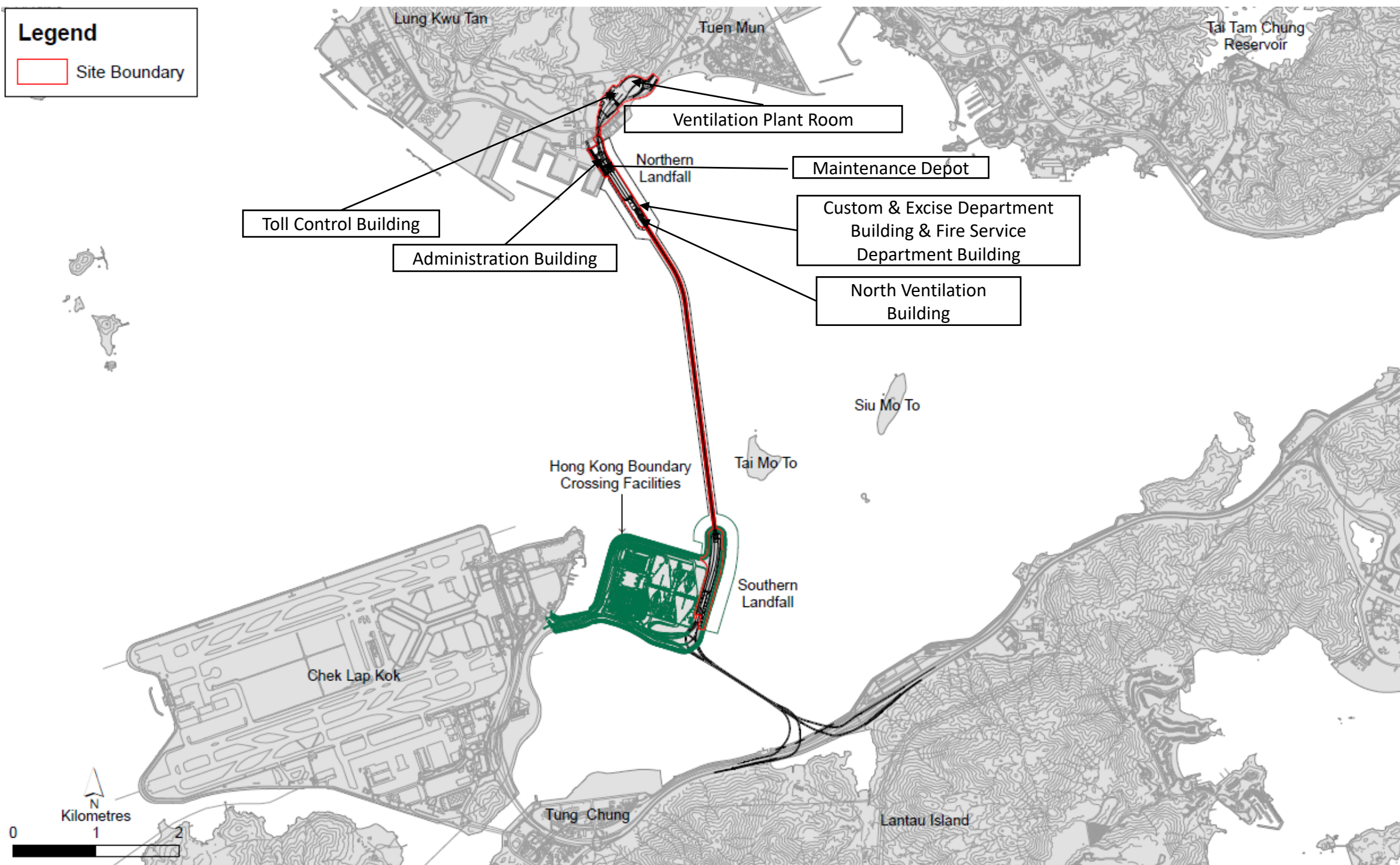


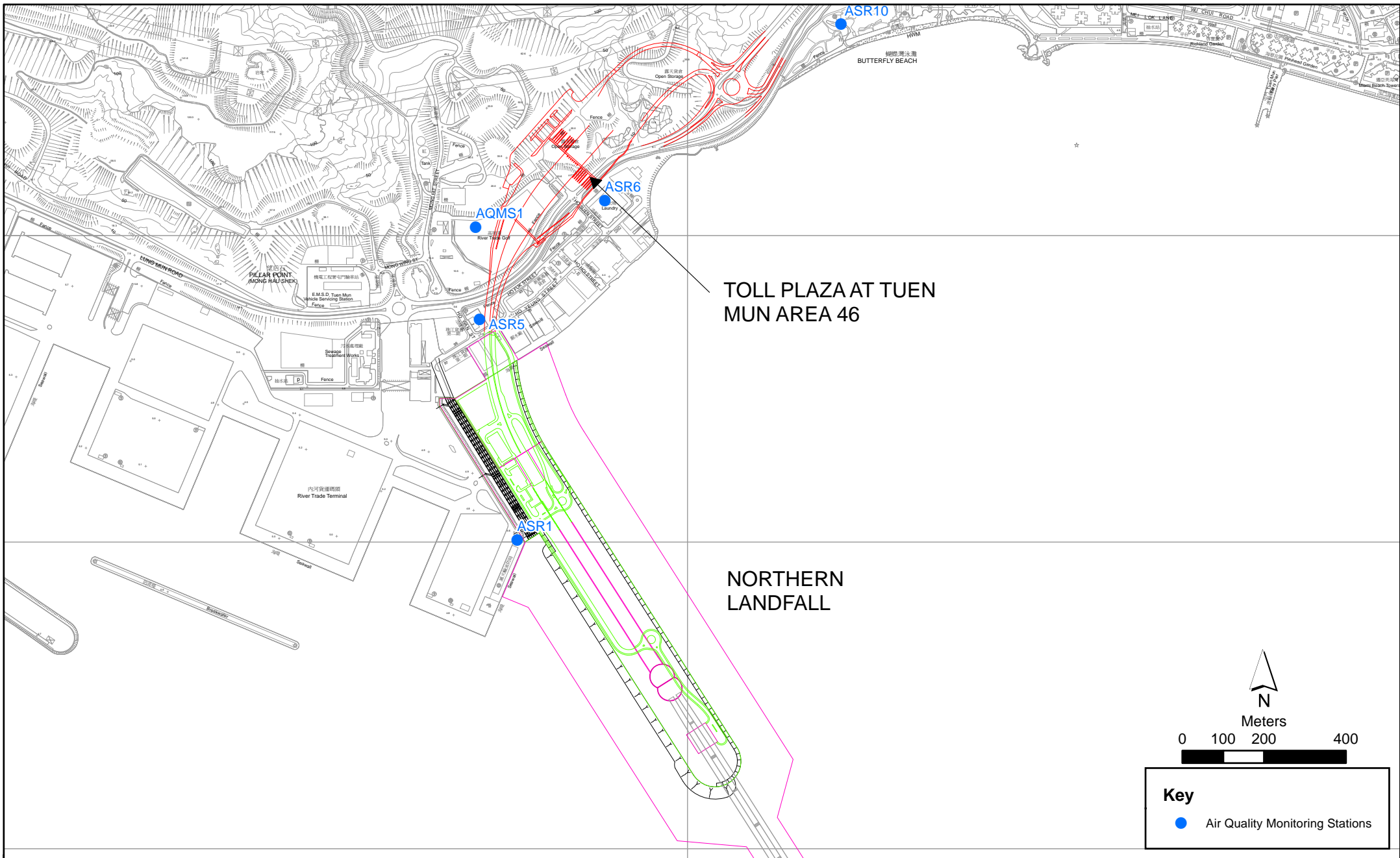
Meteorological Data for Impact Monitoring in the reporting period*			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Director (degree)
19/05/23	0:00	1.8	71
19/05/23	1:00	2.2	83
19/05/23	2:00	2.2	93
19/05/23	3:00	1.8	97
19/05/23	4:00	1.8	60
19/05/23	5:00	1.8	67
19/05/23	6:00	2.2	99
19/05/23	7:00	1.8	82
19/05/23	8:00	2.2	83
19/05/23	9:00	2.7	95
19/05/23	10:00	2.7	82
19/05/23	11:00	3.1	97
19/05/23	12:00	2.2	92
19/05/23	13:00	2.7	84
19/05/23	14:00	4	105
19/05/23	15:00	3.1	84
19/05/23	16:00	3.6	86
19/05/23	17:00	3.1	91
19/05/23	18:00	3.1	101
19/05/23	19:00	3.1	86
19/05/23	20:00	3.6	65
19/05/23	21:00	4	85
19/05/23	22:00	4.5	100
19/05/23	23:00	4.5	82
19/05/24	0:00	3.6	97
19/05/24	1:00	2.7	60
19/05/24	2:00	3.1	75
19/05/24	3:00	3.1	73
19/05/24	4:00	3.1	59
19/05/24	5:00	3.1	60
19/05/24	6:00	3.1	64
19/05/24	7:00	4	91
19/05/24	8:00	4.5	89
19/05/24	9:00	4.9	87
19/05/24	10:00	4.5	100
19/05/24	11:00	4.5	81
19/05/24	12:00	4.5	101
19/05/24	13:00	4.9	100
19/05/24	14:00	4.5	81
19/05/24	15:00	4.5	80
19/05/24	16:00	4.5	80
19/05/24	17:00	4.5	86
19/05/24	18:00	4.5	93
19/05/24	19:00	4	63
19/05/24	20:00	4	75
19/05/24	21:00	4.5	87
19/05/24	22:00	4.9	87
19/05/24	23:00	4.5	84

*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





TOLL PLAZA AT TUEN
MUN AREA 46

NORTHERN
LANDFALL



Meters

0 100 200 400

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)



ENVIRONMENTAL COMPLAINT/ ENQUIRY FORM

Complaint/ Enquiry Received*
Date: 22 May 2019 Time: Undisclosed From: Environmental Protection Department (EPD) Via: Email
Complainant/ Enquirer*: Name: Undisclosed Tel: Undisclosed Address: Undisclosed Media: Dust / Other Description: A complaint was received by EPD regarding construction dust nuisance at Northern Landfall of the sub-sea tunnel of Tuen Mun - Chek Lap Kok Link. The complaint reported that dust nuisance was generated at near the River Trade Terminal and Chu Kong Warehouse. The Environmental Team (ET) received the complaint notification from the Independent Environmental Checker (IEC) on 22 May 2019.

Investigation Report & Response

<p>Site records provided by the Contractor were reviewed upon receiving the complaint. Based on the site records, major works under this Contract included structure building at Maintenance Depot and Administration Building near the River Trade Terminal and Chu Kong Warehouse which are not major dust generating works.</p> <p>Site inspection was carried out on 24 May 2019. During the site inspection, no particular finding was observed. There were no major unpaved roads in the site boundary of this Contract and majors works under this contract near the River Trade Terminal and Chu Kong Warehouse were structure building which are not major dust generating works (see <i>Annex A</i>). Construction site boundary under this Contract is shown in <i>Figure 1</i>.</p> <p>Action level exceedances on 1-hour TSP and 24-hour TSP at ASR1 were recorded on 23 May 2019. However, as the complaint was received on 22 May 2019, it is not likely to be related to the exceedances recorded on 23 May 2019.</p> <p>Upon investigation, there is no evidence to indicate that the complaint case is related to this Contract.</p>
--

Mitigation Measures and Follow-Up Actions Recommended to Contractor

<p>Based on the investigation, there is no evidence to indicate that the complaint case is related to this Contract and thus no further action will be required. The Contractor has been reminded to maintain watering for at least 12 times per day at any unpaved road throughout the construction period. Increase in watering frequency should also be considered when necessary.</p>

Date of File Closed : 12 June 2019

Approved and Filed by:

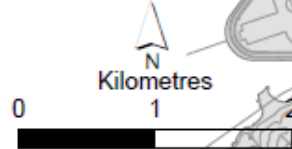
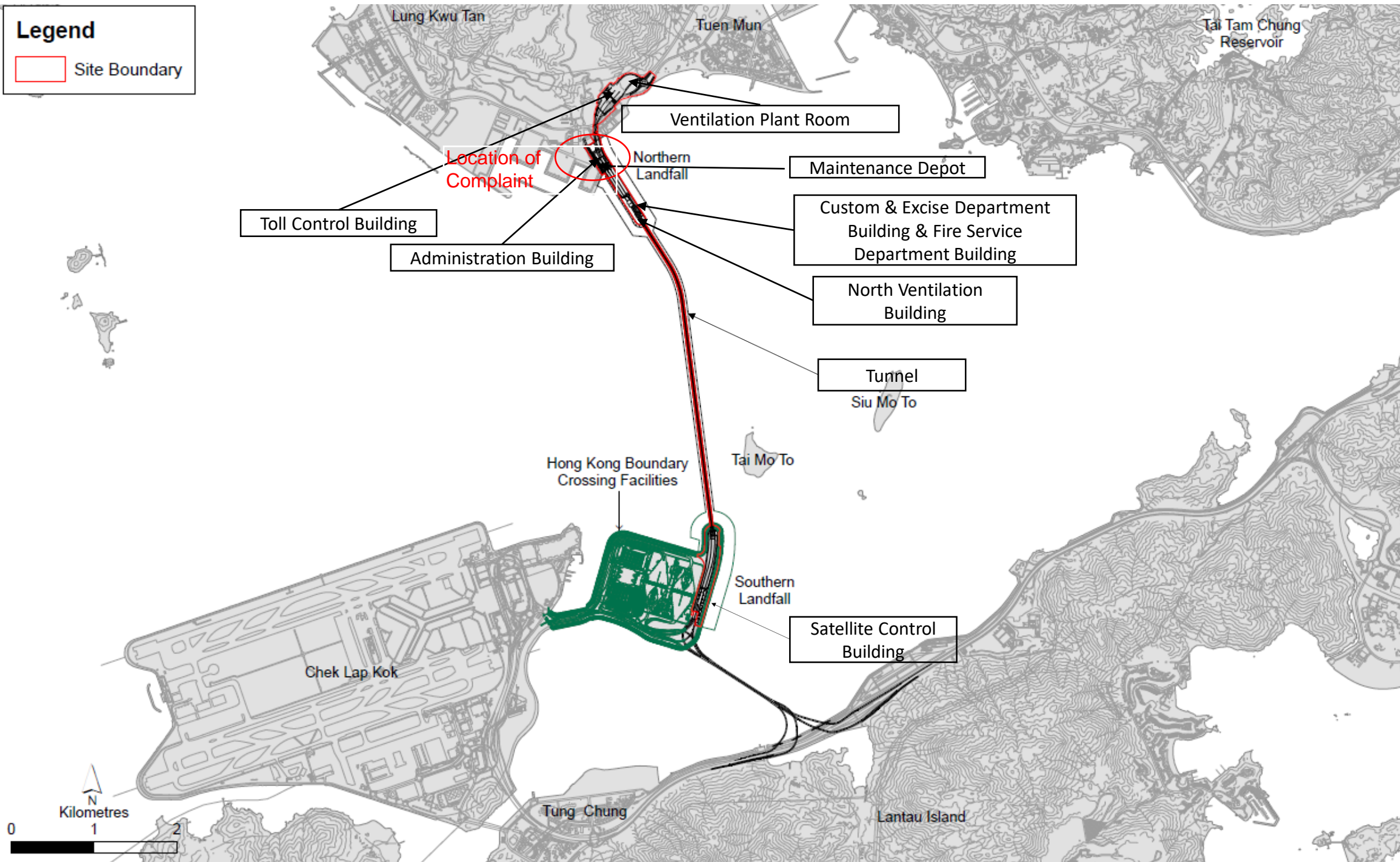
A handwritten signature in blue ink that reads 'Jasmine'.

(Dr Jasmine Ng, ET Leader)

Date: 30 May 2019

Legend

Site Boundary



Annex A

Photo of site inspection at
Northern Landfall on 24
May 2019

Photo 1 - Structure building at Maintenance Depot

