

Appendix L

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

Table L1 *Cumulative Statistics on Exceedances*

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since Contract commencement
1-hr TSP	Action	5	101
	Limit	3	11
24-hr TSP	Action	0	10
	Limit	0	4
Water Quality	Action	1	167
	Limit	0	19
Impact Dolphin Monitoring	Action	0	11
	Limit	1	17

Table L2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (November 2019)	0	0	0
Total No. received since Contract commencement	17	1	0

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong, Limited (ENPO)

From ERM- Hong Kong, Limited

Ref/Contract number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 18 November 2019

2507, 25/F One Harbourfront
18 Tak Fung Street
Hunghom, Kowloon
Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660



ERM

Dear Sir or Madam,

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

0212330_4November2019_1hrTSP_Station ASR1
0212330_4November2019_1hrTSP_Station ASR5

One Action Level and One Limit Level Exceedances were recorded on 4
November 2019.

Regards,



Dr Jasmine Ng
Environmental Team Leader

CONFIDENTIALITY NOTICE

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
 TUEN MUN – CHEK LAP KOK LINK –
 NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
 Notification of Exceedance

Log No.	<p style="text-align: center;"><u>Action Level Exceedance</u> 0212330_4November2019_1hrTSP_Station ASR5 <u>Limit Level Exceedance</u> 0212330_4November2019_1hrTSP_Station ASR1 [Total No. of Exceedances = 2]</p>	
Date	<p style="text-align: center;">4 November 2019 (Measured) 14 November 2019 (Laboratory results received by ERM)</p>	
Monitoring Station	<p style="text-align: center;">ASR1, ASR5, ASR6, ASR10 and AQMS1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1-hr TSP</p>	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: center;">ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214</p>
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: center;">ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337</p>
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: center;">500</p>
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: center;">260</p>
Measured Levels	<p>Action Level Exceedance for 1-hr TSP is observed at ASR5 (398 $\mu\text{g}/\text{m}^3$) during 0826 - 0926 hrs. Limit Level Exceedance for 1-hr TSP is observed at ASR1 (626 $\mu\text{g}/\text{m}^3$) during 0839 - 0939 hrs.</p>	
Works Undertaken (at the time of monitoring event)	<p>On 4 November 2019, Road and Drainage Works were carried out on site.</p>	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to this Contract, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, only Road and Drainage Works were carried out on site on 4 November 2019. • The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Contract site and associated works areas. • With reference to the recorded wind direction (ranged between 14° and 16°, blowing from a north-easterly direction) and wind speed (2.2 m/s) during the works period, Stations ASR1 are located downstream to the construction works at Portion N-A. However, only Road & Drainage Works was carried out at Portion N-A on 4 November 2019, • Stations ASR1 are located downstream to the construction works at Portion N-A during the 1-hour TSP monitoring. However, with similar wind speed and wind direction in the 2nd and 3rd hour, the exceedance was only recorded in the 1st hour of 1-hour TSP monitoring with the same construction works and dust mitigation measures being carried out. Road & Drainage Works carried out at Portion N-A are unlikely to cause significant dust impact. • Stations ASR5 are located upstream to the construction works at Portion N-A during the recorded exceedance. Therefore, the exceedance is unlikely to be related to this Contract. <p>Based on the above, the exceedance is unlikely to be due to this Contract.</p>
Actions Taken/ To Be Taken	<p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Contract site throughout the construction period.</p>
Remarks	<p>The monitoring results, wind data and the locations of air quality monitoring stations are attached.</p>

Air quality monitoring results on 4/11/2019

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	8:50	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	9:52	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	10:54	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	8:39	1-hour TSP	626	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	9:41	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	10:43	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	8:02	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	9:04	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	10:06	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	8:26	1-hour TSP	398	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	9:28	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	10:30	1-hour TSP	242	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	8:14	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	9:16	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	10:18	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	11:56	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	11:45	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	11:08	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	11:32	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	11:20	24-hour TSP	106	ug/m3

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)
19/11/04	0:00	1.3	342
19/11/04	1:00	1.8	17
19/11/04	2:00	2.7	341
19/11/04	3:00	3.1	359
19/11/04	4:00	3.6	3
19/11/04	5:00	3.6	4
19/11/04	6:00	1.8	14
19/11/04	7:00	1.3	342
19/11/04	8:00	2.2	16
19/11/04	9:00	2.2	14
19/11/04	10:00	1.8	12
19/11/04	11:00	2.2	30
19/11/04	12:00	1.8	23
19/11/04	13:00	1.8	16
19/11/04	14:00	1.3	18
19/11/04	15:00	1.3	25
19/11/04	16:00	1.8	347
19/11/04	17:00	1.8	332
19/11/04	18:00	1.8	313
19/11/04	19:00	0.9	326
19/11/04	20:00	0.4	324
19/11/04	21:00	0.4	320
19/11/04	22:00	0.9	328
19/11/04	23:00	1.8	343

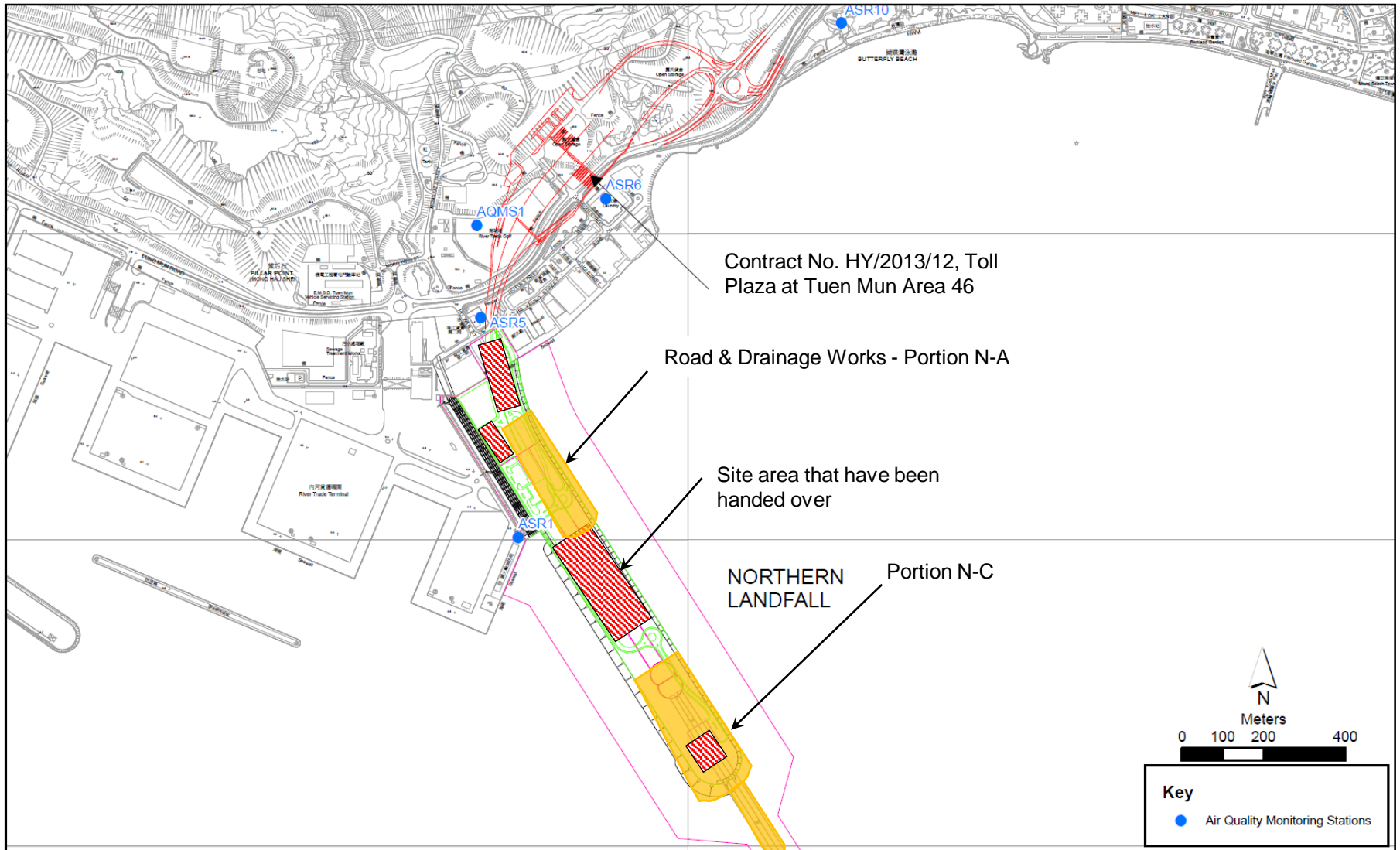


Figure 1

Indicative Construction Works Area on 4 November 2019

Site Location 地盤位置: Northern Landfall
Date 日期: 04 Nov 2019 to 至 10 Nov 2019

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 – 8:45	✓	✓	✓	✓	✓	✓	✓
2	8:45 – 9:30	✓	✓	✓	✓	✓	✓	✓
3	9:30 – 10:15	✓	✓	✓	✓	✓	✓	✓
4	10:15 – 11:00	✓	✓	✓	✓	✓	✓	✓
5	11:00 – 11:45	✓	✓	✓	✓	✓	✓	✓
6	11:45 – 12:30	✓	✓	✓	✓	✓	✓	✓
7	12:30 – 13:15	✓	✓	✓	✓	✓	✓	✓
8	13:15 – 14:00	✓	✓	✓	✓	✓	✓	✓
9	14:00 – 14:45	✓	✓	✓	✓	✓	✓	✓
10	14:45 – 15:30	✓	✓	✓	✓	✓	✓	✓
11	15:30 – 16:45	✓	✓	✓	✓	✓	✓	✓
12	16:45 – 17:30	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認	F	F	F	F	F	F	F

Night shift 夜間工作 (if necessary 如需要)

17:30 – 19:00								
19:00 – 20:30								
20:30 – 22:00								
22:00 – 23:00								

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.15 條例, 在整個施工階段內, 許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

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message

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

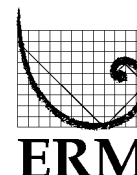
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 19 November 2019

2507, 25/F One Harbourfront
18 Tak Fung Street
Hung Hom, Kowloon
Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660



Dear Sir or Madam,

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

0212330_7November2019_1hrTSP_Station ASR5

One Action Level Exceedance was recorded on 7 November 2019.

Regards,



Dr Jasmine Ng
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
 TUEN MUN – CHEK LAP KOK LINK –
 NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
 Notification of Exceedance

Log No.	<u>Action Level Exceedance</u> 0212330_7November2019_1hrTSP_Station ASR5 [Total No. of Exceedances = 1]	
Date	7 November 2019 (Measured) 19 November 2019 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10 and AQMS1	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 ($479 \mu\text{g}/\text{m}^3$) during 1324- 1424hrs.	
Works Undertaken (at the time of monitoring event)	On 7 November 2019, Road and Drainage Works were carried out on site.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to this Contract, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, only Road and Drainage Works were carried out on site on 7 November 2019. • The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Project site and associated works areas. • With reference to the recorded wind direction (ranged between 16° and 304°, blowing from a north-easterly or north-westerly direction) and wind speed (1.8 - 2.2 m/s) during the works period, Stations ASR5 are located upstream to the construction works at Portion N-A. Therefore, the exceedance is unlikely to be related to this Contract. <p>Based on the above, the exceedance is unlikely to be due to this Contract.</p>	
Actions Taken/ To Be Taken	The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site throughout the construction period.	

Remarks	The monitoring results, wind data, water spraying record and the locations of air quality monitoring stations are attached.
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Air quality monitoring results on 7/11/2019

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	13:46	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	14:48	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	15:50	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	13:35	1-hour TSP	239	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	14:37	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	15:39	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	13:01	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	14:03	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	15:05	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	13:24	1-hour TSP	479	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	14:26	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	15:28	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	13:13	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	14:15	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	15:17	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	16:52	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	16:41	24-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	16:07	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	16:30	24-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	16:19	24-hour TSP	105	ug/m3

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)
19/11/07	0:00	0	-
19/11/07	1:00	0	-
19/11/07	2:00	0.4	22
19/11/07	3:00	0.9	25
19/11/07	4:00	1.8	32
19/11/07	5:00	1.8	21
19/11/07	6:00	1.3	22
19/11/07	7:00	1.8	31
19/11/07	8:00	1.8	15
19/11/07	9:00	1.8	4
19/11/07	10:00	2.2	33
19/11/07	11:00	2.2	33
19/11/07	12:00	2.2	16
19/11/07	13:00	1.8	16
19/11/07	14:00	2.2	304
19/11/07	15:00	2.7	316
19/11/07	16:00	1.3	341
19/11/07	17:00	1.8	316
19/11/07	18:00	1.8	327
19/11/07	19:00	0.4	318
19/11/07	20:00	0	-
19/11/07	21:00	0.4	336
19/11/07	22:00	1.3	313
19/11/07	23:00	1.8	357

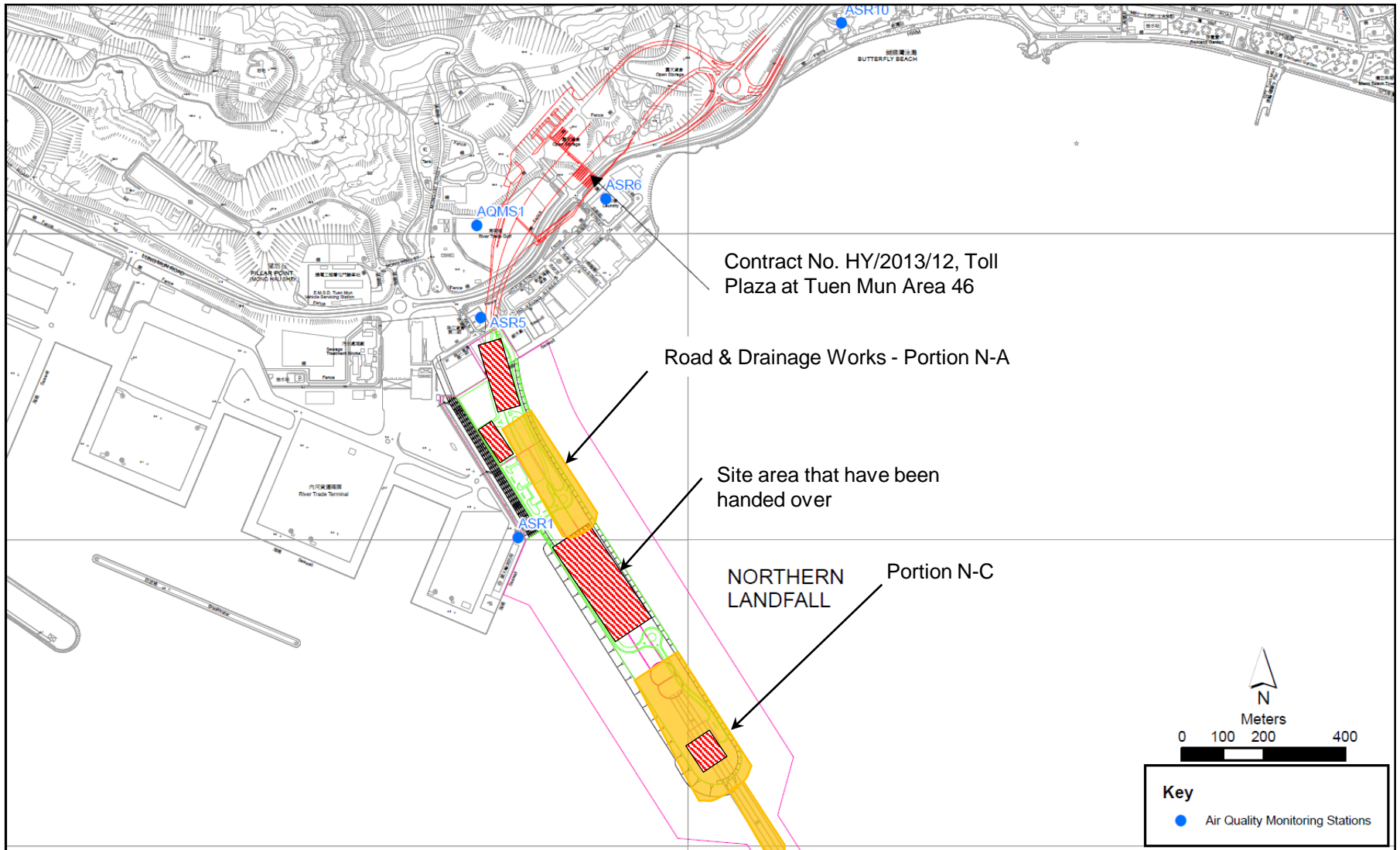


Figure 1

Indicative Construction Works Area on 7 November 2019

Site Location 地盤位置: Northern Landfall
Date 日期: 04 Nov 2019 to 至 10 Nov 2019

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 – 8:45	✓	✓	✓	✓	✓	✓	✓
2	8:45 – 9:30	✓	✓	✓	✓	✓	✓	✓
3	9:30 – 10:15	✓	✓	✓	✓	✓	✓	✓
4	10:15 – 11:00	✓	✓	✓	✓	✓	✓	✓
5	11:00 – 11:45	✓	✓	✓	✓	✓	✓	✓
6	11:45 – 12:30	✓	✓	✓	✓	✓	✓	✓
7	12:30 – 13:15	✓	✓	✓	✓	✓	✓	✓
8	13:15 – 14:00	✓	✓	✓	✓	✓	✓	✓
9	14:00 – 14:45	✓	✓	✓	✓	✓	✓	✓
10	14:45 – 15:30	✓	✓	✓	✓	✓	✓	✓
11	15:30 – 16:45	✓	✓	✓	✓	✓	✓	✓
12	16:45 – 17:30	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認	F	F	F	F	F	F	F

Night shift 夜間工作 (if necessary 如需要)

17:30 – 19:00								
19:00 – 20:30								
20:30 – 22:00								
22:00 – 23:00								

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓).
是下雨天, 請於方格內加上圓圈(O).

Remarks:

- Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.15 條例, 在整個施工階段內, 許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

Email
message

**Environmental
Resources
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To Ramboll Hong Kong, Limited (ENPO)

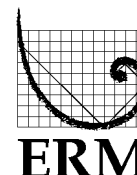
From ERM- Hong Kong, Limited

Ref/Contract number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 4 December 2019

2507, 25/F One Harbourfront
18 Tak Fung Street
Hunghom, Kowloon
Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660



Dear Sir or Madam,

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

0212330_28November2019_1hrTSP_Station ASR1
0212330_28November2019_1hrTSP_Station ASR1
0212330_28November2019_1hrTSP_Station ASR1
0212330_28November2019_1hrTSP_Station ASR5
0212330_28November2019_1hrTSP_Station ASR5

Two Limit Level and Three Action Level Exceedances were recorded on 28
November 2019.

Regards,

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

Dr Jasmine Ng
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
 TUEN MUN – CHEK LAP KOK LINK –
 NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
 Notification of Exceedance

Log No.	<p style="text-align: center;"><u>Action Level Exceedance</u></p> <p style="text-align: center;">0212330_28November2019_1hrTSP_Station ASR1 0212330_28November2019_1hrTSP_Station ASR1 0212330_28November2019_1hrTSP_Station ASR5</p> <p style="text-align: center;"><u>Limit Level Exceedance</u></p> <p style="text-align: center;">0212330_28November2019_1hrTSP_Station ASR1 0212330_28November2019_1hrTSP_Station ASR5</p> <p style="text-align: center;">[Total No. of Exceedances = 5]</p>	
Date	<p style="text-align: center;">28 November 2019 (Measured) 4 December 2019 (Laboratory results received by ERM)</p>	
Monitoring Station	<p style="text-align: center;">ASR1, ASR5, ASR6, ASR10 and AQMS1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1-hr TSP</p>	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: right;">ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214</p>
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: right;">ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337</p>
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: right;">500</p>
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	<p style="text-align: right;">260</p>
Measured Levels	<p>Action Level Exceedance for 1-hr TSP is observed at ASR1 ($452 \mu\text{g}/\text{m}^3$) during 0940- 1040hrs. Action Level Exceedance for 1-hr TSP is observed at ASR1 ($385 \mu\text{g}/\text{m}^3$) during 1042- 1142hrs. Action Level Exceedance for 1-hr TSP is observed at ASR5 ($500 \mu\text{g}/\text{m}^3$) during 0927- 1027hrs. Limit Level Exceedance for 1-hr TSP is observed at ASR1 ($577 \mu\text{g}/\text{m}^3$) during 0838- 0938hrs. Limit Level Exceedance for 1-hr TSP is observed at ASR5 ($534 \mu\text{g}/\text{m}^3$) during 0802- 0902hrs.</p>	
Works Undertaken (at the time of monitoring event)	<p>On 28 November 2019, Road and Drainage Works were carried out on site.</p>	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to this Contract, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, only Road and Drainage Works were carried out on site on 28 November 2019. • The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Contract site and associated works areas. Photo record is provided. • With reference to the recorded wind direction (ranged between 14° and 34°, blowing from a north-easterly direction) and wind speed (2.2 - 2.7 m/s) during the works period, Stations ASR5 are located upstream to the construction works at Portion N-A. Stations ASR1 are located downstream to the construction works at Portion N-A. However, Road & Drainage Works carried out at Portion N-A with implementation of dust mitigation measures are unlikely to cause significant dust impact. <p>Based on the above, the exceedance is unlikely to be due to this Contract.</p>
Actions Taken/ To Be Taken	<p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Contract site throughout the construction period.</p>
Remarks	<p>The monitoring results, wind data and the locations of air quality monitoring stations are attached.</p>

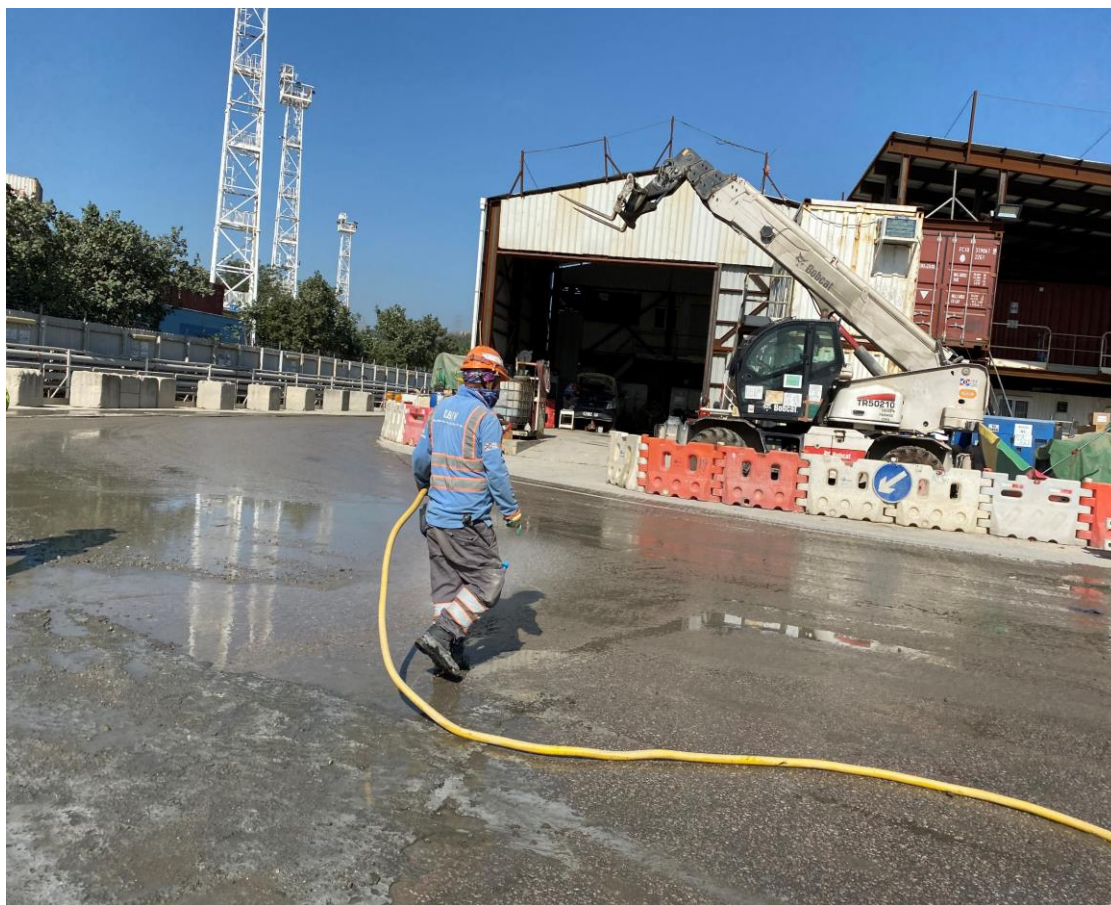


Annex A Photos provided by the Contractor

*Note: Photos taken on 28/11/2019



Water truck was used for water spraying to prevent dust. (Works Area Portion N-A)



Water spraying was applied on main haul road to prevent dust. (Works Area Portion N-A)



Annex A Photos provided by the Contractor

*Note: Photos taken on 28/11/2019



Exposed soil is covered by tarpaulin sheet to prevent dust. (Works Area Portion N-C)



Water spraying was applied on main haul road to prevent dust. (Works Area Portion N-C)

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)
19/11/28	0:00	0	-
19/11/28	1:00	0.4	346
19/11/28	2:00	1.8	2
19/11/28	3:00	2.2	331
19/11/28	4:00	0.9	20
19/11/28	5:00	1.3	341
19/11/28	6:00	1.3	339
19/11/28	7:00	1.3	357
19/11/28	8:00	2.2	24
19/11/28	9:00	2.7	14
19/11/28	10:00	2.2	34
19/11/28	11:00	1.8	344
19/11/28	12:00	1.8	311
19/11/28	13:00	1.8	310
19/11/28	14:00	1.8	336
19/11/28	15:00	1.3	341
19/11/28	16:00	1.8	337
19/11/28	17:00	1.3	340
19/11/28	18:00	1.8	338
19/11/28	19:00	1.8	335
19/11/28	20:00	2.2	3
19/11/28	21:00	2.2	20
19/11/28	22:00	2.7	24
19/11/28	23:00	2.2	30

Air quality monitoring results on 28/11/2019

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	8:49	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	9:51	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	10:53	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	8:38	1-hour TSP	577	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	9:40	1-hour TSP	452	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	10:42	1-hour TSP	385	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	8:00	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	9:02	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	10:04	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	8:02	1-hour TSP	534	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	9:27	1-hour TSP	500	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	10:29	1-hour TSP	299	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	8:13	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	9:15	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	10:17	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	11:55	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	11:44	24-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	11:06	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	11:31	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	11:19	24-hour TSP	109	ug/m3

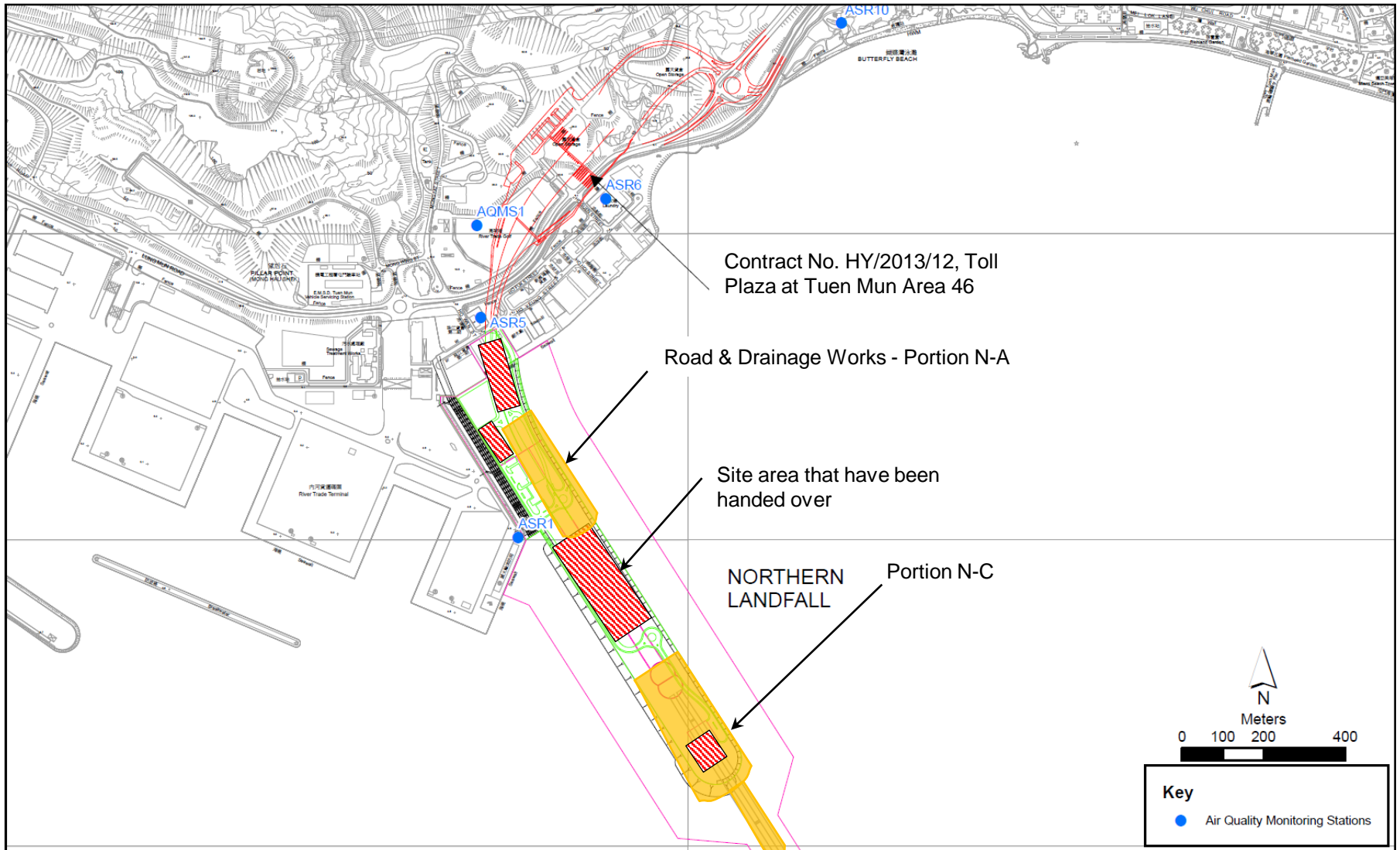


Figure 1

Indicative Construction Works Area on 28 November 2019

Site Location 地盤位置: Northern Landfall
Date 日期: 25 Nov 2019 to 至 01 Dec 2019

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 – 8:45	✓	✓	✓	✓	✓	✓	✓
2	8:45 – 9:30	✓	✓	✓	✓	✓	✓	✓
3	9:30 – 10:15	✓	✓	✓	✓	✓	✓	✓
4	10:15 – 11:00	✓	✓	✓	✓	✓	✓	✓
5	11:00 – 11:45	✓	✓	✓	✓	✓	✓	✓
6	11:45 – 12:30	✓	✓	✓	✓	✓	✓	✓
7	12:30 – 13:15	✓	✓	✓	✓	✓	✓	✓
8	13:15 – 14:00	✓	✓	✓	✓	✓	✓	✓
9	14:00 – 14:45	✓	✓	✓	✓	✓	✓	✓
10	14:45 – 15:30	✓	✓	✓	✓	✓	✓	✓
11	15:30 – 16:45	✓	✓	✓	✓	✓	✓	✓
12	16:45 – 17:30	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認	子	子	子	子	子	子	子

Night shift 夜間工作 (if necessary 如需要)

17:30 – 19:00							
19:00 – 20:30							
20:30 – 22:00							
22:00 – 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.15 條例, 在整個施工階段內, 許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

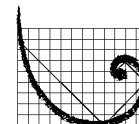
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Water Quality
Impact Monitoring

Date 19 November 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



ERM

Dear Sir or Madam,

Please find the Notification of Exceedance (NOE) of the following Log no.:
Action Level Exceedance
0212330_1 November 2019_Depth_averaged SS_E_Station IS(Mf)16

A total of one Action Level exceedance was recorded on 1 November 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/2012/08

TUEN MUN - CHEK LAP KOK LINK -
NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Marine Water Quality Impact Monitoring
Notification of Exceedance

Log No.	<u>Action Level Exceedance</u> 0212330_1 November 2019_Depth_averaged SS_E_Station IS(Mf)16 [Total No. of Exceedances = 1]	
Date	1 November 2019 (Measured) 4 November 2019 (<i>In situ</i> results received by ERM) 12 November 2019 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4(N2), IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11	
Parameter(s) with Exceedance(s)	Suspended solids (mg/L)	
Action Levels	SS	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L
Limit Levels	SS	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., 34.4 mg/L
Measured Levels	Action Level Exceedance 1. Mid-ebb at IS(Mf)16 (Depth-averaged SS = 24.8 mg/L)	
Works Undertaken (at the time of monitoring event)	According to the information provided by the Contractor, no marine works was carried out on 1 November 2019.	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> • All monitored parameters, except SS, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day. • As no marine works was carried out on 1 November 2019, the exceedance is unlikely to be caused by the marine works of this Contract. • As reported by the Contractor, no discharge of organic matters into waters from landside works area was recorded. Therefore, exceedance recorded at IS(Mf)16 during mid-ebb tide is unlikely to be caused by the marine works of this Contract. 	
Actions Taken / To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 1 November 2019 and locations of water quality monitoring stations are attached.	

Project	Contract	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Surface	1	1	26.8	8.1	32.1	5.6	5.5	4.2	5.5	6.8	6.9		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Surface	1	2	26.8	8.1	32.1	5.6		4.0		6.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Middle	2	1	26.7	8.1	32.5	5.5		5.7		6.6			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Middle	2	2	26.7	8.1	32.4	5.4		5.5		6.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Bottom	3	1	26.7	8.1	32.6	5.5	5.5	6.7	5.5	7.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Bottom	3	2	26.7	8.1	32.6	5.5	6.6	7.5					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Surface	1	1	26.6	8.1	30.5	6.1	6.1	4.9	8.1	8.2	9.8		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Surface	1	2	26.7	8.2	30.3	6.1		4.2		8.1			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Middle	2	1	26.3	8.1	31.6	6.2		9.3		9.7			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Middle	2	2	26.4	8.2	31.4	6.1		8.5		8.6			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Bottom	3	1	26.3	8.1	31.8	6.3	6.3	10.9	6.3	12.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	15:21	Bottom	3	2	26.3	8.2	31.8	6.2	10.9	11.7					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Surface	1	1	26.6	8.1	31.6	6.0	6.0	8.6	9.2	23.1	24.8		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Surface	1	2	26.7	8.2	31.6	6.0		8.6		23.3			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Middle	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Middle	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Bottom	3	1	26.4	8.1	31.6	6.1	6.1	9.7	6.1	26.1			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Bottom	3	2	26.4	8.2	31.6	6.0	9.7	26.5					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Surface	1	1	26.6	8.1	31.5	5.9	5.9	6.4	7.4	11.5	10.2		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Surface	1	2	26.6	8.2	31.5	5.9		5.9		11.7			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Middle	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Middle	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Bottom	3	1	26.6	8.1	31.5	6.1	6.0	8.8	6.0	8.6			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Bottom	3	2	26.5	8.2	31.5	5.9	8.5	9.0					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Surface	1	1	26.8	8.1	31.4	6.0	6.0	4.9	5.0	5.3	7.4		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Surface	1	2	26.8	8.2	31.4	6.0		4.8		5.9			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Middle	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Middle	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Bottom	3	1	26.7	8.1	31.5	6.1	6.1	5.1	6.1	9.0			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	14:24	Bottom	3	2	26.7	8.2	31.4	6.1	5.1	9.5					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Surface	1	1	26.6	8.1	31.4	6.0	6.0	11.8	11.9	6.5	8.2		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Surface	1	2	26.6	8.2	31.4	5.9		11.5		6.8			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Middle	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Middle	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Bottom	3	1	26.6	8.1	31.4	6.0	6.0	12.1	6.0	9.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	14:20	Bottom	3	2	26.6	8.2	31.4	6.0	12.2	10.2					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Surface	1	1	26.4	8.1	31.5	6.0	6.0	11.9	12.1	12.9	13.5		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Surface	1	2	26.4	8.2	31.4	6.0		11.4		12.1			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Middle	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Middle	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Bottom	3	1	26.3	8.1	31.5	6.1	6.1	12.7	6.1	14.9			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Bottom	3	2	26.3	8.2	31.5	6.1	12.5	14.2					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	1	1	26.5	8.1	31.6	6.1	6.0	7.0	10.2	11.0	11.3		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	1	2	26.7	8.2	31.6	6.1		5.6		10.6			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	2	1	26.2	8.1	31.6	5.8		11.7		11.3			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	2	2	26.2	8.2	31.6	5.8		10.6		11.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	3	1	26.2	8.1	31.6	6.0	6.0	12.8	6.0	11.8			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	14:52	Surface	3	2	26.2	8.2	31.6	5.9	13.4	11.7					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	1	1	26.7	8.1	31.8	6.0	6.0	5.7	7.3	10.0	10.2		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	1	2	26.7	8.2	31.7	6.0		5.1		9.8			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	2	1											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	2	2											
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	3	1	26.4	8.1	31.8	6.1	6.1	9.1	6.1	10.6			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	15:47	Surface	3	2	26.5	8.2	31.8	6.0	9.1	10.3					
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	1	1	26.8	8.1	31.8	5.9	5.9	4.2	5.2	5.1	6.7		
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	1	2	26.9	8.2	31.8	5.9		4.1		5.8			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	2	1	26.4	8.1	31.7	5.9		5.7		6.4			
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	2	2	26.4	8.2	31.7	5.9		5.5		7.1			

Project	Contract	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	3	1	26.4	8.1	31.7	6.1	6.1	5.9		7.6	
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	3	2	26.4	8.2	31.7	6.1		5.9		8.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Surface	1	1	26.3	8.2	31.8	5.8	5.8	5.2	8.7	7.7	7.7
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Surface	1	2	26.3	8.0	31.8	5.8		5.1		7.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Middle	2	1	26.3	8.1	31.8	5.8	5.8	10.4		7.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Middle	2	2	26.3	8.0	31.8	5.8		10.5		7.8	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Bottom	3	1	26.3	8.1	31.8	5.8	5.8	10.3		7.3	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Bottom	3	2	26.3	8.0	31.8	5.8		10.7		7.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Surface	1	1	26.3	8.2	30.6	6.0	6.1	5.3	8.0	7.4	7.3
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Surface	1	2	26.3	8.1	30.6	6.0		5.3		7.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Middle	2	1	26.1	8.2	30.8	6.1	6.1	8.2		7.0	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Middle	2	2	26.2	8.1	30.8	6.1		7.5		7.3	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Bottom	3	1	26.1	8.2	30.9	6.1	6.1	11.0		7.5	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Bottom	3	2	26.1	8.1	30.9	6.1		10.8		7.2	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Surface	1	1	26.3	8.2	31.6	5.9	5.9	15.0	15.1	19.6	22.0
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Surface	1	2	26.3	8.1	31.6	5.8		14.8		19.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Middle	2	1					6.0				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Middle	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Bottom	3	1	26.3	8.2	31.6	6.0	6.0	15.2		24.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Bottom	3	2	26.3	8.1	31.6	6.0		15.5		24.2	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Surface	1	1	26.3	8.2	31.5	5.7	5.7	6.9	7.1	10.6	11.1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Surface	1	2	26.3	8.1	31.5	5.7		6.6		11.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Middle	2	1					5.9				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Middle	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Bottom	3	1	26.3	8.1	31.6	5.9	5.9	7.5		11.5	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Bottom	3	2	26.4	8.1	31.6	5.9		7.4		11.2	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Surface	1	1	26.3	8.2	31.4	6.0	6.0	5.9	9.4	3.7	4.0
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Surface	1	2	26.3	8.1	31.4	6.0		6.0		3.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Middle	2	1					6.1				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Middle	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Bottom	3	1	26.4	8.2	31.3	6.1	6.1	12.6		4.2	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Bottom	3	2	26.4	8.1	31.3	6.1		12.9		4.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Surface	1	1	26.3	8.2	31.6	6.1	6.1	8.5	8.6	7.9	7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Surface	1	2	26.3	8.1	31.6	6.0		8.2		7.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Middle	2	1					6.2				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Middle	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Bottom	3	1	26.3	8.2	31.6	6.2	6.2	8.7		8.3	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Bottom	3	2	26.3	8.2	31.6	6.2		8.8		7.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Surface	1	1	26.3	8.2	31.6	5.9	5.9	15.4	16.8	12.9	13.3
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Surface	1	2	26.3	8.1	31.6	5.9		14.7		13.3	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Middle	2	1					6.1				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Middle	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Bottom	3	1	26.3	8.2	31.7	6.1	6.1	18.5		13.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Bottom	3	2	26.3	8.1	31.7	6.0		18.4		13.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	1	1	26.2	8.2	31.6	5.9	5.9	9.9	12.7	10.1	11.2
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	1	2	26.2	8.1	31.6	5.9		9.0		10.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	2	1	26.1	8.2	31.6	5.9	6.0	12.8		11.5	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	2	2	26.1	8.1	31.6	5.9		12.7		11.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	3	1	26.1	8.2	31.6	6.0	6.0	15.8		11.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	3	2	26.1	8.1	31.6	6.0		15.7		11.6	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	1	1	26.1	8.2	31.6	6.2	6.2	10.0	10.0	9.6	10.3
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	1	2	26.1	8.1	31.6	6.1		9.9		9.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	2	1					6.3				
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	2	2									
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	3	1	26.0	8.1	31.7	6.3	6.0	9.9		10.9	7.8
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR7	9:40	Surface	3	2	26.1	8.1	31.6	6.2		10.3		10.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	1	1	26.2	8.2	31.7	5.9	6.0	5.0	5.5	6.4	7.8
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	1	2	26.2	8.1	31.7	5.9		5.0		6.3	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	2	1	26.1	8.2	31.7	6.0	6.0	5.1		7.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	2	2	26.1	8.1	31.7	6.0		5.0		7.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	3	1	26.1	8.2	31.7	6.2	6.2	6.2		9.6	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS17	10:47	Surface	3	2	26.1	8.1	31.7	6.1		6.4		9.2	

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

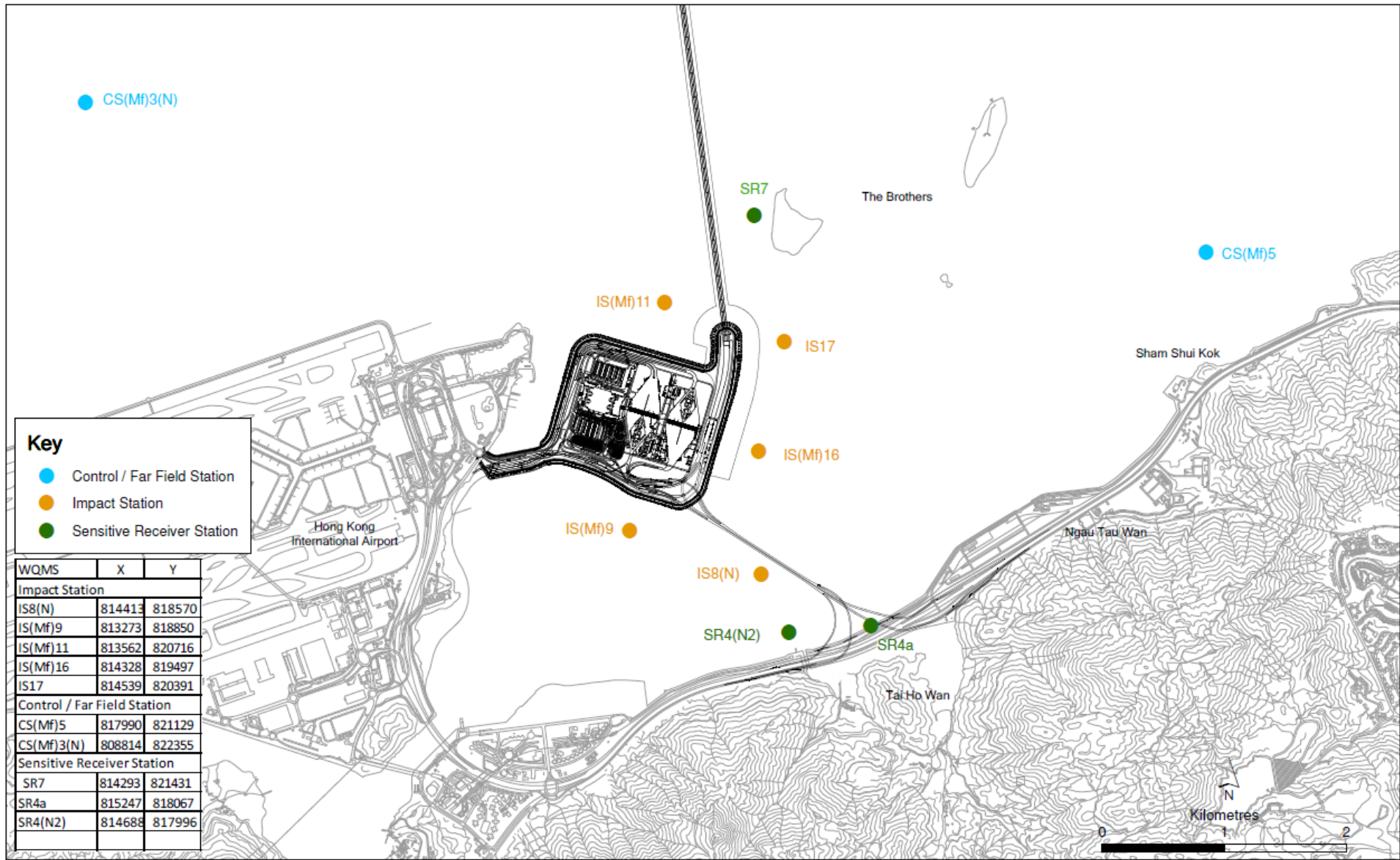


Figure 1