

Table K1 *Cumulative Statistics on Exceedances*

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	3	73
	Limit	0	5
24-hr TSP	Action	0	8
	Limit	0	4
Water Quality	Action	0	20
	Limit	0	1
Impact Dolphin Monitoring	Action	0	11
	Limit	0	13

Table K2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (October 2018)	0	0	0
Total No. received since project commencement	16	1	0

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 Air Quality
Impact Monitoring

Date 18 October 2018

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_4October2018_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 4 October 2018.

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.	0212330_4October2018_1hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	4 October 2018 (Measured) 18 October 2018 (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 ASR1 ($340 \mu\text{g}/\text{m}^3$) during 1411 - 1511 hrs.	
Works Undertaken (at the time of monitoring event)	On 4 October 2018, TBM tunnel works were carried out on site.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, TBM tunnel works were carried out on site. No ground construction works were carried out. • The exceedance is unlikely to be due to the project as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying record is provided in Annex A. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>	

Actions Taken/ To Be Taken	<p>According to the construction information provided by the Contractor, no ground construction works were carried out on 4 October 2018. Dust suppression measures were properly implemented. Water spraying was applied to prevent dust. Dusty materials were covered by tarpaulin sheet. Photos are provided in Annex A. Photos taken during AQM are also provided in Annex A. No significant dust impact was observed at ASR1. Based on the above, no additional action is required.</p> <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 Project site) throughout the construction period.</p>
Remarks	<p>The monitoring results and the locations of air quality monitoring stations are attached.</p>

TMCLKL	HY/2012/08	4/10/2018	AQMS1	Sunny	14:22	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	4/10/2018	AQMS1	Sunny	15:24	1-hour TSP	111	ug/m3
TMCLKL	HY/2012/08	4/10/2018	AQMS1	Sunny	16:26	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR1	Sunny	14:11	1-hour TSP	340	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR1	Sunny	15:13	1-hour TSP	267	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR1	Sunny	16:15	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR10	Sunny	13:35	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR10	Sunny	14:37	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR10	Sunny	15:39	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR5	Sunny	13:58	1-hour TSP	228	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR5	Sunny	15:00	1-hour TSP	210	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR5	Sunny	16:02	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR6	Sunny	13:47	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR6	Sunny	14:49	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR6	Sunny	15:51	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	4/10/2018	AQMS1	Sunny	17:28	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR1	Sunny	17:17	24-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR10	Sunny	16:41	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR5	Sunny	17:04	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	4/10/2018	ASR6	Sunny	16:53	24-hour TSP	112	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)
18/10/04	0:00	0.9	100
18/10/04	1:00	0.4	79
18/10/04	2:00	0.4	98
18/10/04	3:00	0.9	343
18/10/04	4:00	1.3	342
18/10/04	5:00	0.4	340
18/10/04	6:00	1.3	313
18/10/04	7:00	1.3	308
18/10/04	8:00	1.3	319
18/10/04	9:00	1.8	348
18/10/04	10:00	1.8	14
18/10/04	11:00	1.8	341
18/10/04	12:00	1.8	315
18/10/04	13:00	1.8	330
18/10/04	14:00	2.2	283
18/10/04	15:00	2.2	302
18/10/04	16:00	2.2	302
18/10/04	17:00	2.2	281
18/10/04	18:00	1.3	318
18/10/04	19:00	1.8	310
18/10/04	20:00	0.9	306
18/10/04	21:00	0.9	317
18/10/04	22:00	1.3	320
18/10/04	23:00	0.9	311



Annex A Photos provided by the Contractor

*Note: Photos taken on 4/10/2018



Water spraying was applied frequently on site. (Works Area Portion N-A)



Dusty material was covered by tarpaulin sheet. (Works Area Portion N-C)



Annex A Photos taken during AQM

*Note: Photos taken on 4/10/2018



ASR1

Site Location 地盤位置: Northern Landfall
Date 日期: 01-10 2018 to 至 07-10 2018

	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	T	T	T	T	T	T	T

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:

- (1) 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.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 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。
- (2) 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。
- (3) 當下雨時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時, 灑水次數會相應增加。

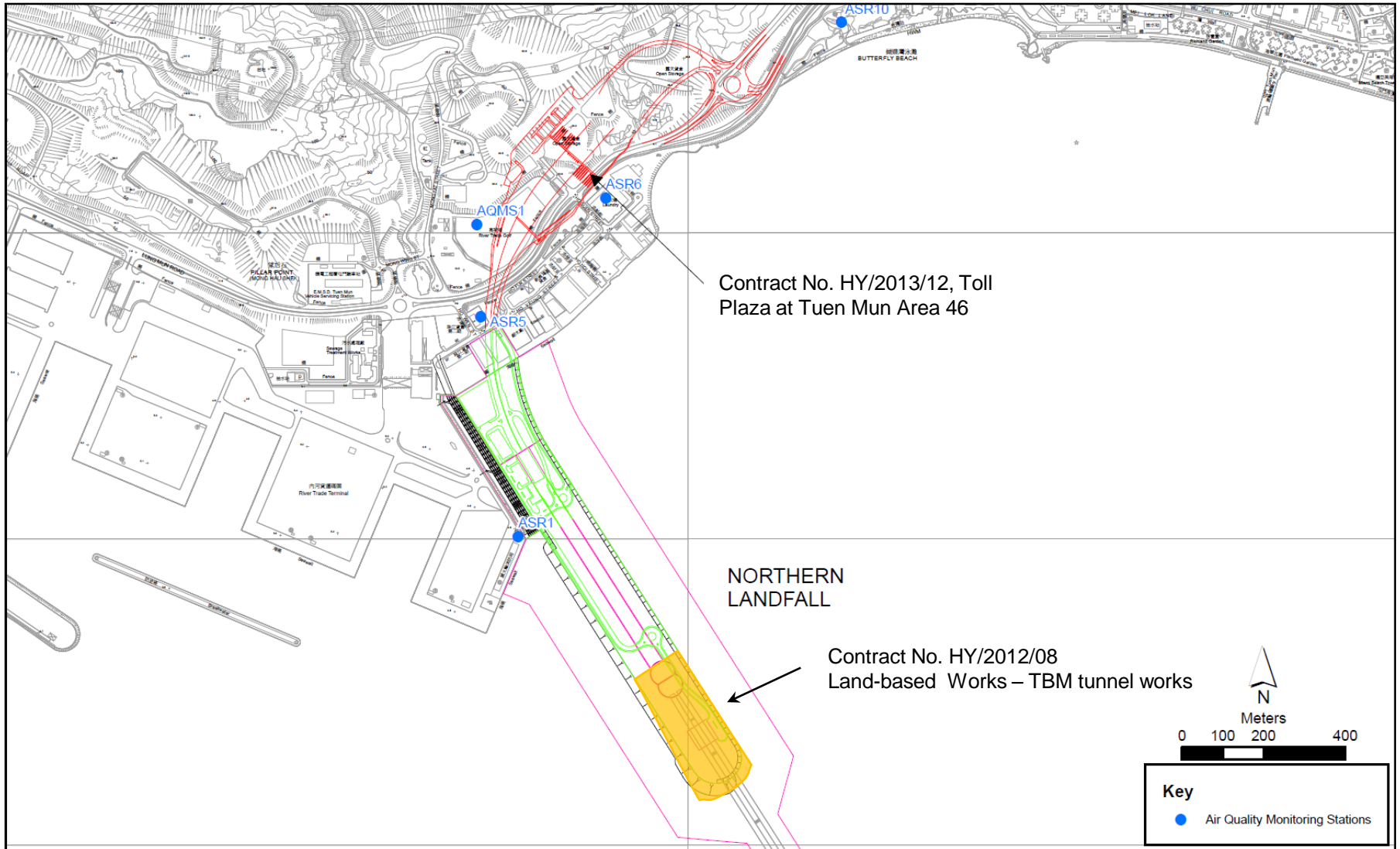


Figure 1

Indicative Construction Works Area on 4 October 2018

Email
message

**Environmental
Resources
Management**

To Ramboll Hong Kong, Limited (ENPO)

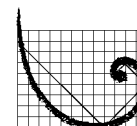
From ERM- Hong Kong, Limited

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 Air Quality
Impact Monitoring

Date 24 October 2018

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_10October2018_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 10 October 2018.

Regards,

A handwritten signature in black ink, appearing to read '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.	0212330_10October2018_1hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	10 October 2018 (Measured) 23 October 2018 (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 ASR1 ($451 \mu\text{g}/\text{m}^3$) during 1338 - 1438 hrs.	
Works Undertaken (at the time of monitoring event)	On 10 October 2018, TBM tunnel works were carried out on site.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, TBM tunnel works were carried out on site. No ground construction works were carried out. • The exceedance is unlikely to be due to the project as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying record is provided in Annex A. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>	

Actions Taken/ To Be Taken	<p>According to the construction information provided by the Contractor, no ground construction works were carried out on 10 October 2018. Water spraying was applied to prevent dust. Photos taken during AQM were provided in Annex A. No significant dust impact was observed at ASR1. Site inspection was carried out on 10 October 2018 and ASR1 was also inspected. Dust suppression measures were properly implemented during the site inspections and no significant dust impact was observed at ASR1. Photos are provided in Annex A. Based on the above, no additional action is required.</p> <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 Project site) throughout the construction period.</p>
Remarks	<p>The monitoring results, wind data and the locations of air quality monitoring stations are attached.</p>

TMCLKL	HY/2012/08	10/10/2018	AQMS1	Sunny	13:50	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	10/10/2018	AQMS1	Sunny	14:52	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	10/10/2018	AQMS1	Sunny	15:54	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR1	Sunny	13:38	1-hour TSP	451	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR1	Sunny	14:40	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR1	Sunny	15:42	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR10	Sunny	13:04	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR10	Sunny	14:06	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR10	Sunny	15:08	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR5	Sunny	13:26	1-hour TSP	297	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR5	Sunny	14:28	1-hour TSP	213	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR5	Sunny	15:30	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR6	Sunny	13:15	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR6	Sunny	14:17	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR6	Sunny	15:19	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	10/10/2018	AQMS1	Sunny	16:56	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR1	Sunny	16:44	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR10	Sunny	16:10	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR5	Sunny	16:32	24-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	10/10/2018	ASR6	Sunny	16:21	24-hour TSP	71	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)
18/10/10	0:00	1.8	120
18/10/10	1:00	0.9	81
18/10/10	2:00	0.4	77
18/10/10	3:00	0	-
18/10/10	4:00	0.9	328
18/10/10	5:00	0.4	339
18/10/10	6:00	0.4	327
18/10/10	7:00	0.4	335
18/10/10	8:00	0	-
18/10/10	9:00	0.9	115
18/10/10	10:00	2.2	123
18/10/10	11:00	2.2	132
18/10/10	12:00	2.2	303
18/10/10	13:00	2.7	318
18/10/10	14:00	4.5	343
18/10/10	15:00	4.5	330
18/10/10	16:00	0.9	288
18/10/10	17:00	0.4	293
18/10/10	18:00	0.9	314
18/10/10	19:00	0.9	184
18/10/10	20:00	0.4	183
18/10/10	21:00	1.8	39
18/10/10	22:00	1.3	35
18/10/10	23:00	0.9	345



Annex A Photos taken during site inspection

*Note: Photos taken on 10/10/2018



Water spraying was applied frequently on site. (Works Area Portion N-A)



Sprinklers were installed to water the main haul road. (Works Area Portion N-A)



Annex A Photos taken during AQM inspection

*Note: Photos taken on 10/10/2018



ASR1



ASR1

Site Location 地盤位置: Northern Landfall
Date 日期: 08-10 2018 to 至 14-10 2018

	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	T	T	T	T	T	T	T

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。

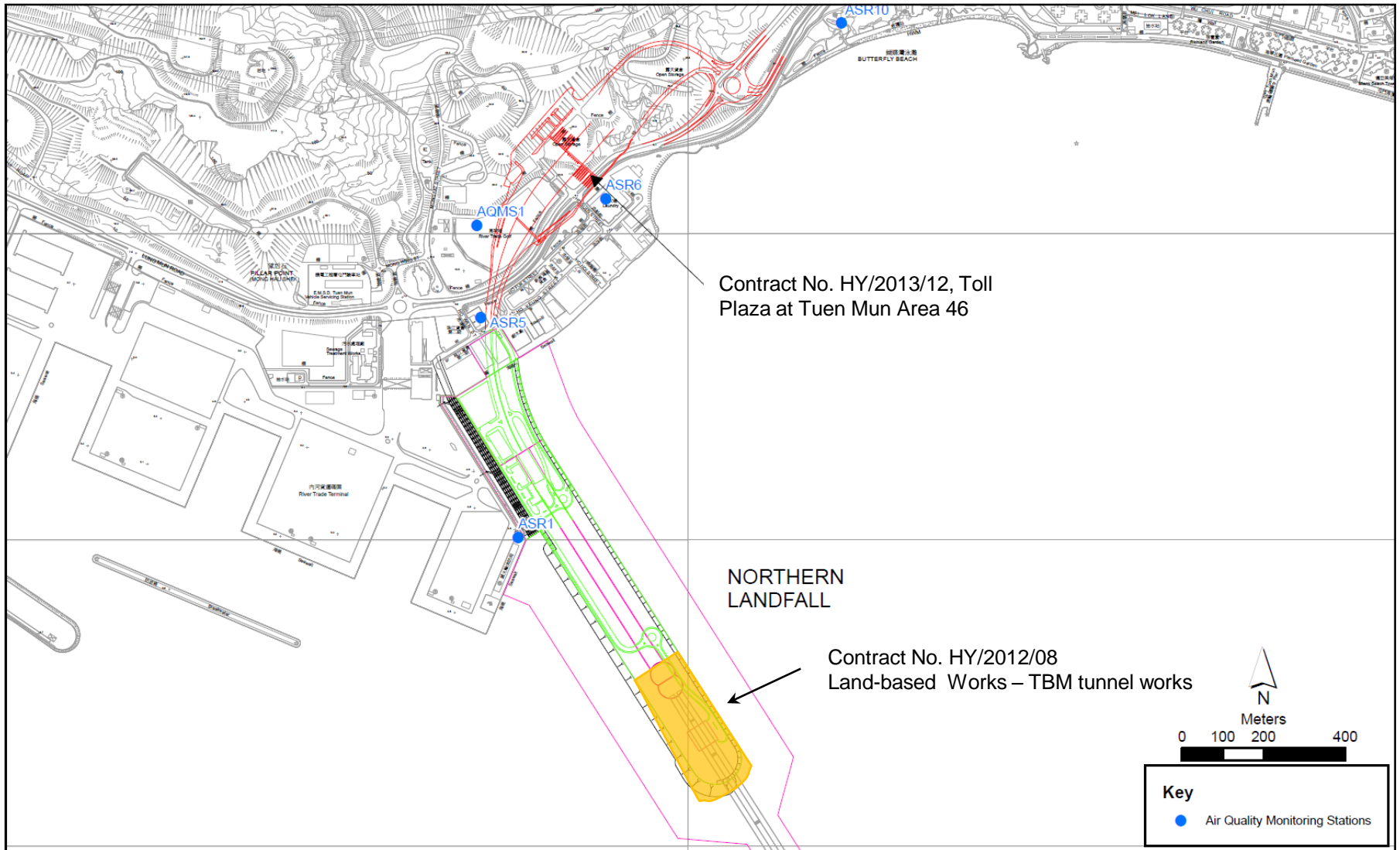


Figure 1

Indicative Construction Works Area on 10 October 2018