

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	2	70
	Limit	1	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 (September 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 7 September 2018

2507, 25/F One Harbourfront
18 Tak Fung Street
Hung Hom, 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_7September2018_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 7 September 2018.

Regards,

A handwritten signature in cursive script 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_7September2018_1hrTSP_Station ASR1 [Total No. of Exceedances = 1]	
Date	7 September 2018 (Measured) 17 September 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 ($392 \mu\text{g}/\text{m}^3$) during 0857 – 0957 hrs.	
Works Undertaken (at the time of monitoring event)	On 7 September 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 7 September 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. Follow-up site inspection was carried out on 21 September 2018. Dust suppression measures were properly implemented during the site inspections. 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. The Contractor was also reminded to ensure all dust mitigation measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.</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 7/9/2018



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



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)



Annex A Photos taken during AQM

*Note: Photos taken on 7/9/2018



ASR1



ASR1



Annex A Photos taken during site inspection

*Note: Photos taken on 21/9/2018



Water spraying are applied frequently.



Water spraying are applied frequently.

TMCLKL	HY/2012/08	7/9/2018	AQMS1	Sunny	9:08	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	7/9/2018	AQMS1	Sunny	10:10	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	7/9/2018	AQMS1	Sunny	11:12	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR1	Sunny	8:57	1-hour TSP	392	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR1	Sunny	9:59	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR1	Sunny	11:01	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR10	Sunny	8:24	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR10	Sunny	9:26	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR10	Sunny	10:28	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR5	Sunny	8:46	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR5	Sunny	9:48	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR5	Sunny	10:50	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR6	Sunny	8:34	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR6	Sunny	9:36	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR6	Sunny	10:38	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	7/9/2018	AQMS1	Sunny	12:14	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR1	Sunny	12:03	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR10	Sunny	11:30	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR5	Sunny	11:52	24-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	7/9/2018	ASR6	Sunny	11:41	24-hour TSP	70	ug/m3

		Wind	Wind
Date	Time	Speed	Dir
18/09/07	12:00 a	0.9	90
18/09/07	1:00 a	1.3	79
18/09/07	2:00 a	1.3	94
18/09/07	3:00 a	0.9	60
18/09/07	4:00 a	0	72
18/09/07	5:00 a	0	326
18/09/07	6:00 a	0	330
18/09/07	7:00 a	0	261
18/09/07	8:00 a	0.4	144
18/09/07	9:00 a	0.9	143
18/09/07	10:00 a	0.9	129
18/09/07	11:00 a	0.9	125
18/09/07	12:00 p	2.2	196
18/09/07	1:00 p	1.8	204
18/09/07	2:00 p	0.9	274
18/09/07	3:00 p	0.9	200
18/09/07	4:00 p	0.4	288
18/09/07	5:00 p	1.3	72
18/09/07	6:00 p	1.3	74
18/09/07	7:00 p	1.3	95
18/09/07	8:00 p	0.4	63
18/09/07	9:00 p	0.4	281
18/09/07	10:00 p	0.4	281
18/09/07	11:00 p	1.3	319

Site Location 地盤位置:

Northern Landfall

Date 日期:

日期:

02-Sep-2018

to 至

08-Sep-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 - 9:00	✓	✓	✓	✓	✓	✓	✓
2	9:00 - 10:00	✓	✓	✓	✓	✓	✓	✓
3	10:00 - 11:00	✓	✓	✓	✓	✓	✓	✓
4	11:00 - 12:00	✓	✓	✓	✓	✓	✓	✓
5	12:00 - 13:00	✓	✓	✓	✓	✓	✓	✓
6	13:00 - 14:00	✓	✓	✓	✓	✓	✓	✓
7	14:00 - 15:00	✓	✓	✓	✓	✓	✓	✓
8	15:00 - 16:00	✓	✓	✓	✓	✓	✓	✓
9	16:00 - 17:00	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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 3.16, the Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas in North Lantau 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 3.16 條例, 在整個施工階段內, 許可證持有人須每天至少 8 次在北大嶼山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。

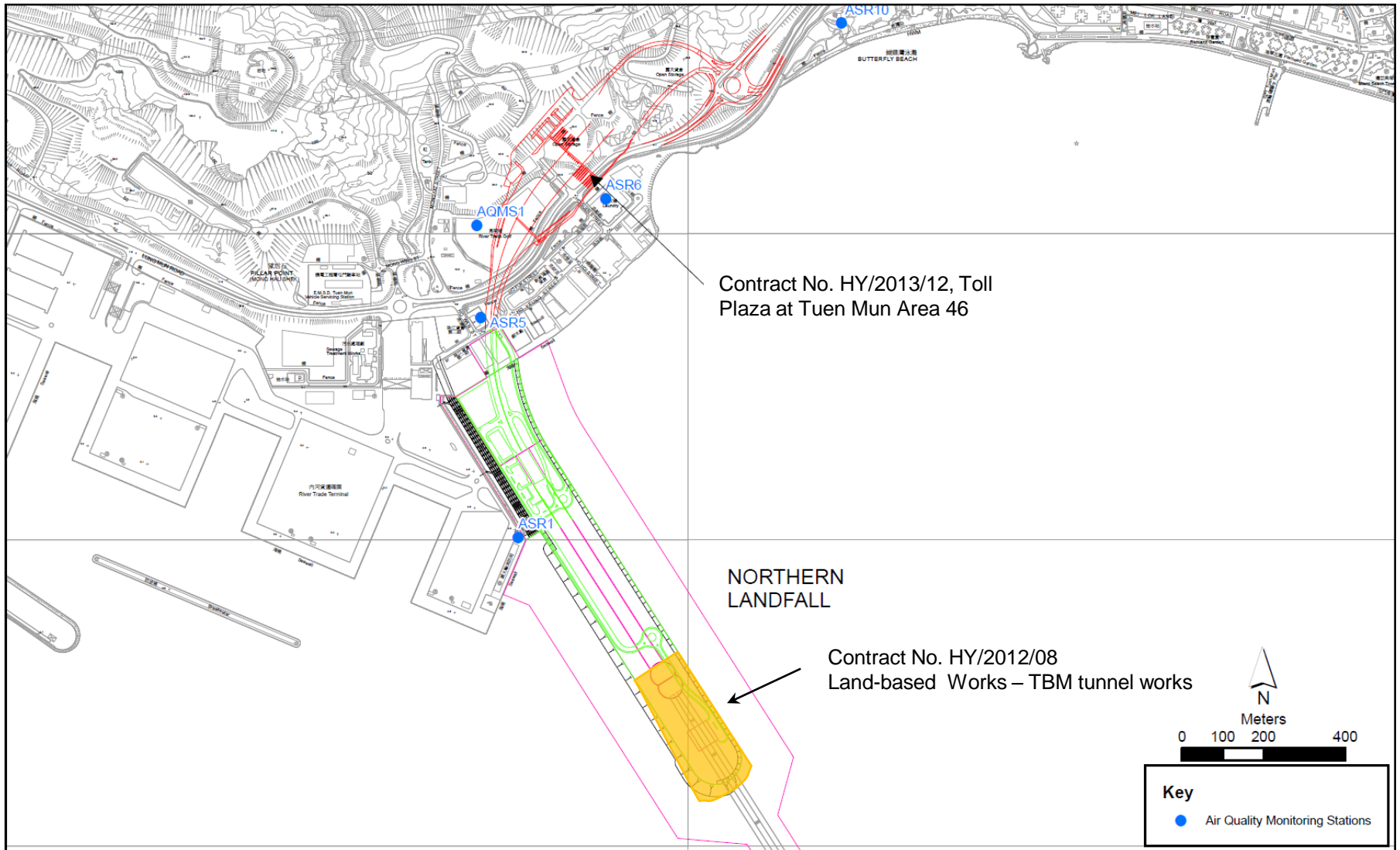


Figure 1

Indicative Construction Works Area on 7 September 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 5 October 2018

2507, 25/F One Harbourfront
18 Tak Fung Street
Hung Hom, 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_28September2018_1hrTSP_Station ASR1
0212330_28September2018_1hrTSP_Station ASR1

One Action Level Exceedance and one Limit Level Exceedance were
recorded on 28 September 2018.

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.	0212330_28September2018_1hrTSP_Station ASR1 0212330_28September2018_1hrTSP_Station ASR1 [Total No. of Exceedances = 2]	
Date	28 September 2018 (Measured) 5 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	Limit Level Exceedance for 1-hr TSP is observed at ASR1 (584 $\mu\text{g}/\text{m}^3$) during 1439 – 1539 hrs. Action Level Exceedance for 1-hr TSP is observed at ASR1 (417 $\mu\text{g}/\text{m}^3$) during 1541 – 1641 hrs.	
Works Undertaken (at the time of monitoring event)	On 28 September 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 28 September 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>

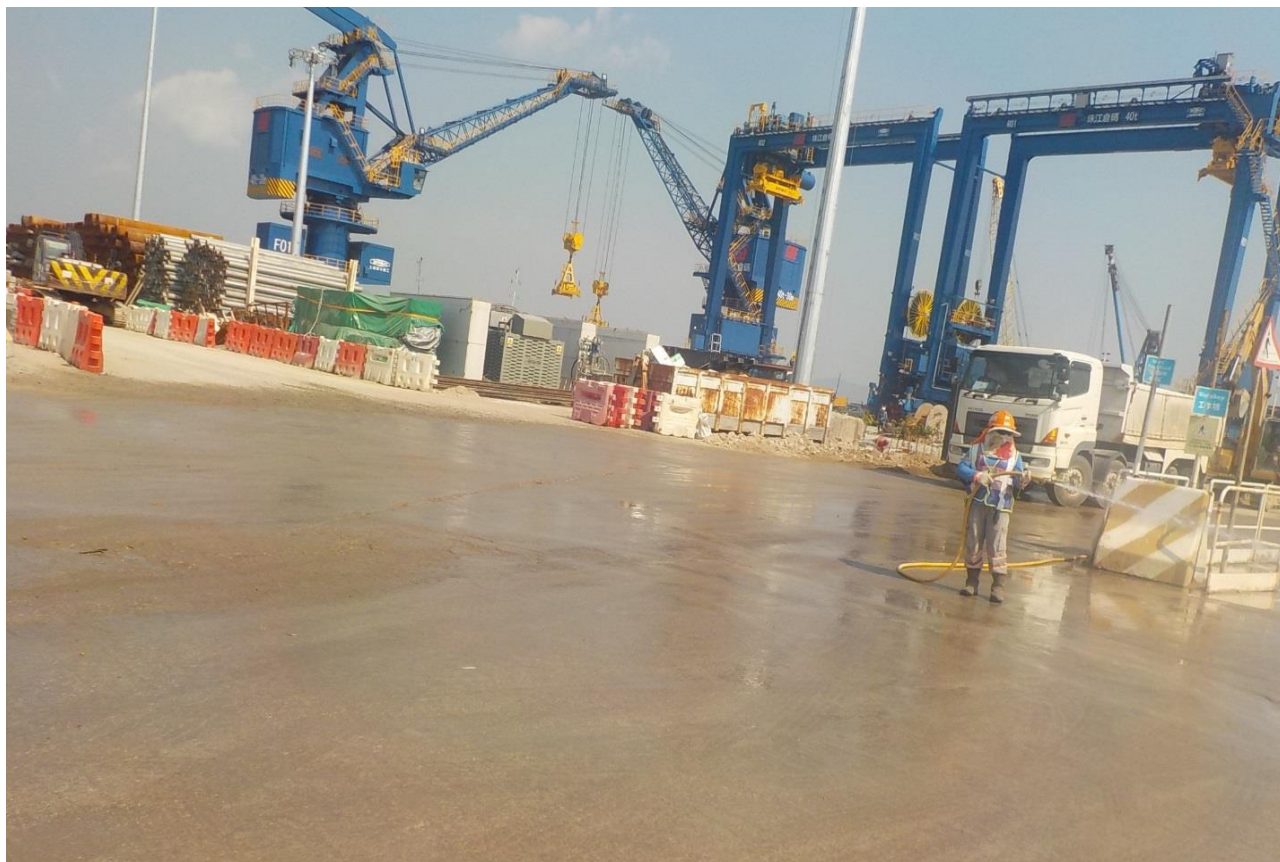


Annex A Photos provided by the Contractor

*Note: Photos taken on 28/9/2018



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



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



Annex A Photos taken during AQM

*Note: Photos taken on 28/9/2018



ASR1



ASR1



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)



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

TMCLKL	HY/2012/08	28/9/2018	AQMS1	Sunny	13:48	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	28/9/2018	AQMS1	Sunny	14:50	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	28/9/2018	AQMS1	Sunny	15:52	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR1	Sunny	13:37	1-hour TSP	252	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR1	Sunny	14:39	1-hour TSP	584	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR1	Sunny	15:41	1-hour TSP	417	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR10	Sunny	13:02	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR10	Sunny	14:04	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR10	Sunny	15:06	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR5	Sunny	13:25	1-hour TSP	314	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR5	Sunny	14:27	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR5	Sunny	15:29	1-hour TSP	234	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR6	Sunny	13:14	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR6	Sunny	14:16	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR6	Sunny	15:18	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	28/9/2018	AQMS1	Sunny	16:54	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR1	Sunny	16:43	24-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR10	Sunny	16:08	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR5	Sunny	16:31	24-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	28/9/2018	ASR6	Sunny	16:20	24-hour TSP	96	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)
18/09/28	0:00	0.4	320
18/09/28	1:00	0.4	310
18/09/28	2:00	0	-
18/09/28	3:00	0.4	43
18/09/28	4:00	0.4	47
18/09/28	5:00	0.4	12
18/09/28	6:00	0.9	40
18/09/28	7:00	0.9	47
18/09/28	8:00	1.8	12
18/09/28	9:00	1.8	49
18/09/28	10:00	2.2	53
18/09/28	11:00	1.8	36
18/09/28	12:00	2.2	314
18/09/28	13:00	2.2	312
18/09/28	14:00	2.7	301
18/09/28	15:00	2.7	297
18/09/28	16:00	2.7	282
18/09/28	17:00	1.3	297
18/09/28	18:00	1.3	338
18/09/28	19:00	1.8	296
18/09/28	20:00	1.8	340
18/09/28	21:00	2.2	348
18/09/28	22:00	1.8	348
18/09/28	23:00	1.3	292

Site Location 地盤位置: Northern Landfall
Date 日期: 23-Sep-2018 to 至 29-Sep-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 - 9:00	✓	✓	✓	✓	✓	✓	✓
2	9:00 - 10:00	✓	✓	✓	✓	✓	✓	✓
3	10:00 - 11:00	✓	✓	✓	✓	✓	✓	✓
4	11:00 - 12:00	✓	✓	✓	✓	✓	✓	✓
5	12:00 - 13:00	✓	✓	✓	✓	✓	✓	✓
6	13:00 - 14:00	✓	✓	✓	✓	✓	✓	✓
7	14:00 - 15:00	✓	✓	✓	✓	✓	✓	✓
8	15:00 - 16:00	✓	✓	✓	✓	✓	✓	✓
9	16:00 - 17:00	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認							

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 3.16, the Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas in North Lantau 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 3.16 條例, 在整個施工階段內, 許可證持有人須每天至少 8 次在北大嶼山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。

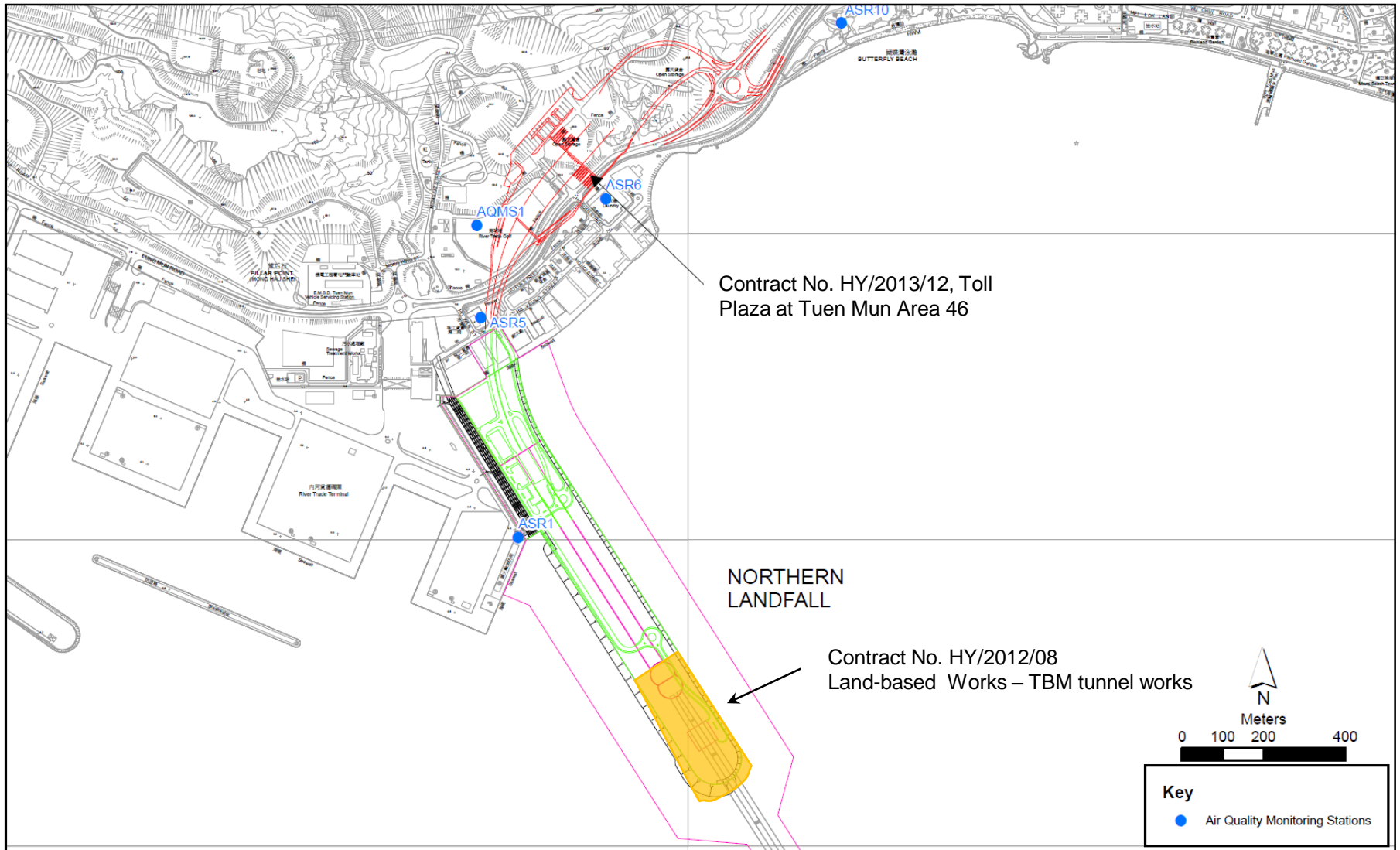


Figure 1

Indicative Construction Works Area on 28 September 2018