

Appendix N1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	5	128
	Limit	0	15
Impact Dolphin Monitoring	Action	0	9
	Limit	0	10

Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (October 2017)	0	0	0
Total No. received since project commencement	10	0	0

Email
message

Environmental
Resources
Management

To Ramboll Environ – Hong Kong, Limited (ENPO)

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
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From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link – Southern
Connection Viaduct Section

Subject Notification of Exceedance for Marine Water
Quality Impact Monitoring



ERM

Date 2 October 2017

Dear Sir/ Madam,

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

Action Level Exceedance

0215660_2 October 2017_ Bottom-depth DO_E_Station CS(Mf)5

0215660_2 October 2017_ Bottom-depth DO_F_Station CS(Mf)5

A total of two exceedances were recorded on 2 October 2017.

Regards,

A handwritten signature in black ink, appearing to read 'Jovy Tam', is written over a white background.

Mr Jovy Tam
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN – CHEK LAP KOK LINK –
SOUTHERN CONNECTION VIADUCT SECTION

Marine Water Quality Impact Monitoring

Notification of Exceedance

Log No.	<p><u>Action Level Exceedance</u></p> <p>0215660_2 October 2017_ Bottom-depth DO_E_Station CS(Mf)5 0215660_2 October 2017_ Bottom-depth DO_F_Station CS(Mf)5</p> <p>[Total No. of Exceedances = 2]</p>	
Date	<p>2 October 2017 (Measured) 2 October 2017 (<i>In situ</i> results received by ERM) 12 October 2017 (Laboratory results received by ERM)</p>	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Bottom-depth Dissolved Oxygen (DO)	
Action Levels for DO	Bottom-depth DO	4.7 mg/L
Limit Levels for DO	Bottom-depth DO	3.6 mg/L
Measured Levels	<p><u>Action Level Exceedance</u></p> <p>1. Mid-ebb at CS(Mf)5 (Bottom-depth DO = 4.5mg/L); 2. Mid-flood at CS(Mf)5 (Bottom-depth DO = 4.5mg/L).</p>	
Works Undertaken (at the time of monitoring event)	No major marine works was undertaken under this Contract on 2 October 2017.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of bottom-depth DO are unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • No marine works was undertaken under this Contract on 2 October 2017. • All monitored parameters, except DO, 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. • CS(Mf)5 are distant (>3km respectively) from the marine works area under this Contract, thus the observed exceedances should not be affected by the marine works under this Contract and they are considered to be natural fluctuation in water quality. 	
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 2 October 2017 and locations of water quality monitoring stations are attached. Site photo record on 2 October 2017 is attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	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/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Surface	1	29.9	8.0	23.5	6.0	5.3	3.8	4.7	6.0	6.3
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Surface	2	29.6	8.0	23.7	5.9		3.8		4.9	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Middle	1	29.5	7.9	27.6	4.7		4.5		5.6	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Middle	2	29.3	8.0	27.9	4.7		3.6		5.3	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Bottom	1	29.4	7.9	28.5	4.5		6.7		8.4	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)5	9:56	Bottom	2	29.1	8.0	28.8	4.5		5.9		7.8	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Surface	1	30.3	7.9	20.2	6.1	5.6	2.8	5.7	3.6	4.8
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Surface	2	30.1	7.9	20.1	6.0		2.5		4.8	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Middle	1	29.9	7.9	23.7	5.2		6.1		3.9	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Middle	2	29.7	7.9	23.5	5.1		6.0		5.4	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Bottom	1	29.8	7.9	24.6	5.2		8.9		4.7	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	CS(Mf)3(N)	11:07	Bottom	2	29.5	7.9	24.4	5.1		7.9		6.3	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16	10:35	Surface	1	30.0	8.2	23.4	8.5	8.5	6.0	4.7	7.4	7.9
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16	10:35	Surface	2	29.7	8.2	23.7	8.4		5.1		8.0	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16	10:35	Bottom	1	29.6	7.9	26.7	5.1		3.8		7.9	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)16	10:35	Bottom	2	29.3	8.0	27.0	5.2		3.7		8.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a	10:45	Surface	1	29.8	8.1	23.2	7.2	7.2	6.3	6.2	8.3	10.0
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a	10:45	Surface	2	29.6	8.1	23.5	7.2		5.3		9.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a	10:45	Bottom	1	29.8	8.1	23.3	7.0		6.9		11.9	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4a	10:45	Bottom	2	29.6	8.1	23.6	6.9		6.1		10.7	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4	10:50	Surface	1	29.9	8.0	23.0	6.9	6.9	6.2	9.2	8.9	8.5
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4	10:50	Surface	2	29.7	8.1	23.3	6.9		5.7		7.3	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4	10:50	Bottom	1	29.9	8.0	23.8	6.3		12.5		9.5	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	SR4	10:50	Bottom	2	29.6	8.1	24.0	6.3		12.5		8.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8	11:05	Surface	1	30.0	8.2	23.2	8.8	8.8	4.2	5.9	7.0	8.0
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8	11:05	Surface	2	29.8	8.3	23.4	8.8		4.3		6.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8	11:05	Bottom	1	29.9	8.1	23.7	7.1		7.5		9.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS8	11:05	Bottom	2	29.6	8.2	24.0	7.2		7.4		9.7	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9	11:16	Surface	1	30.0	8.3	23.2	9.1	9.1	4.9	5.1	6.4	6.0
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9	11:16	Surface	2	29.8	8.3	23.4	9.1		4.9		6.2	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9	11:16	Bottom	1	29.9	8.1	23.5	7.9		5.6		5.4	
TMCLKL	HY/2012/07	2017-10-02	Mid-Ebb	IS(Mf)9	11:16	Bottom	2	29.6	8.2	23.8	7.8		4.8		5.8	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	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/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Surface	1	30.0	8.0	24.8	6.1	5.5	3.2	6.4	6.1	6.2
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Surface	2	29.7	8.0	25.0	6.0		2.6		7.2	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Middle	1	29.6	7.9	27.2	4.9		5.6		6.6	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Middle	2	29.3	8.0	27.5	4.9		5.3		6.1	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Bottom	1	29.5	7.9	28.0	4.5		10.9		5.2	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)5	18:00	Bottom	2	29.2	8.0	28.3	4.5	4.5	10.5	6.0		
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Surface	1	30.7	7.7	17.6	5.8	5.7	5.0	5.0	2.3	3.1
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Surface	2	30.4	7.7	17.4	5.7		4.5		2.7	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Middle	1	30.4	7.8	19.7	5.7		5.2		4.4	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Middle	2	30.2	7.8	19.6	5.6		4.8		3.9	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Bottom	1	30.3	7.8	20.8	5.5		5.4		3.2	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	CS(Mf)3(N)	16:23	Bottom	2	30.0	7.8	20.8	5.4	5.5	5.0	2.3		
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16	17:26	Surface	1	30.5	8.1	22.1	8.8	8.8	2.9	5.2	6.1	9.4
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16	17:26	Surface	2	30.3	8.2	22.4	8.8		2.4		5.6	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16	17:26	Bottom	1	30.2	8.1	23.5	7.4		7.8		13.7	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)16	17:26	Bottom	2	29.9	8.1	23.8	7.4	7.5	12.2			
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a	17:11	Surface	1	30.6	8.1	22.2	8.0	8.1	6.4	7.2	5.6	7.4
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a	17:11	Surface	2	30.3	8.1	22.4	8.1		5.9		6.3	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a	17:11	Bottom	1	30.5	8.1	22.5	7.7		8.7		8.6	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4a	17:11	Bottom	2	30.2	8.1	22.7	7.8	7.8	8.9			
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4	17:06	Surface	1	30.7	8.1	22.1	8.1	8.1	5.0	9.9	6.5	6.8
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4	17:06	Surface	2	30.4	8.1	22.3	8.1		4.5		6.2	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4	17:06	Bottom	1	30.3	8.0	23.8	7.0		15.4		7.3	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	SR4	17:06	Bottom	2	30.0	8.1	24.0	7.0	14.5	7.2			
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8	16:55	Surface	1	30.5	8.1	22.5	8.6	8.6	7.1	11.6	6.5	8.5
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8	16:55	Surface	2	30.2	8.2	22.7	8.5		6.2		5.8	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8	16:55	Bottom	1	30.1	8.1	24.0	7.2		16.9		10.8	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS8	16:55	Bottom	2	29.8	8.1	24.2	7.2	16.1	10.9			
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9	16:44	Surface	1	30.7	8.2	23.3	9.7	9.7	8.2	11.2	8.5	9.6
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9	16:44	Surface	2	30.4	8.3	23.5	9.6		7.6		8.5	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9		Middle	1									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9		Middle	2									
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9	16:44	Bottom	1	30.4	8.2	23.9	8.6		14.5		10.4	
TMCLKL	HY/2012/07	2017-10-02	Mid-Flood	IS(Mf)9	16:44	Bottom	2	30.1	8.2	24.1	8.5	8.6	14.4	11.1		

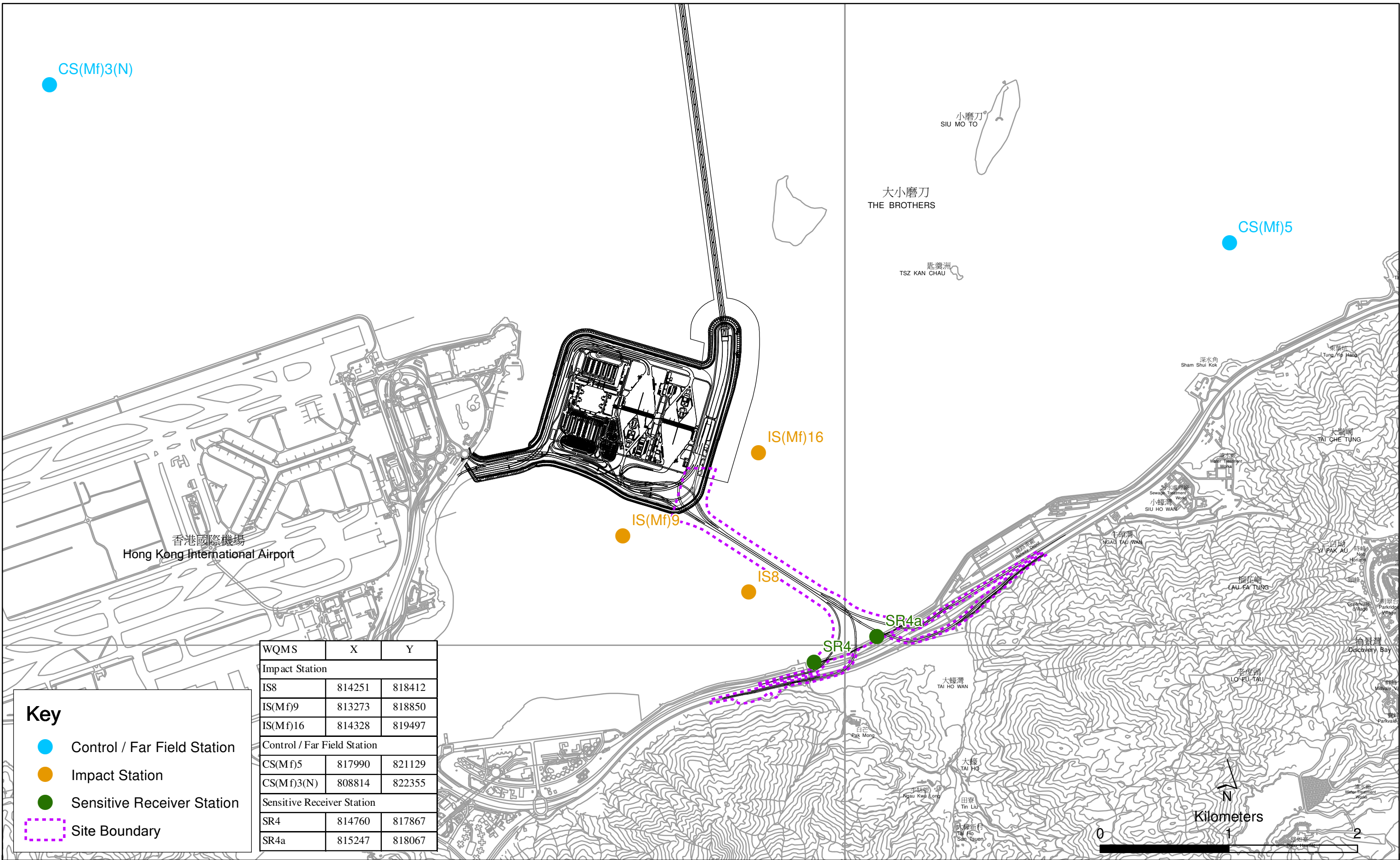
Note: Indicates Exceedance of Action Level
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at CS(Mf)5 on 2 October 2017



Photo 2 - Mid-Flood at CS(Mf)5 on 2 October 2017





WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

Key

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

Locations of Water Quality Monitoring Stations

Email
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Environmental
Resources
Management

To Ramboll Environ – Hong Kong, Limited (ENPO)

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Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com

From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link – Southern
Connection Viaduct Section

Subject Notification of Exceedance for Marine Water
Quality Impact Monitoring



ERM

Date 6 October 2017

Dear Sir/ Madam,

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

Action Level Exceedance

0215660_4 October 2017_Bottom-depth DO_E_Station CS(Mf)5

0215660_4 October 2017_Surface and Middle-depth DO_F_Station CS(Mf)5

0215660_4 October 2017_Bottom-depth DO_F_Station CS(Mf)5

A total of three exceedances were recorded on 4 October 2017.

Regards,

A handwritten signature in black ink, appearing to read 'Jovy Tam', is written over a white background.

Mr Jovy Tam
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

TUEN MUN - CHEK LAP KOK LINK -
SOUTHERN CONNECTION VIADUCT SECTION

Marine Water Quality Impact Monitoring

Notification of Exceedance

Log No.	<p><u>Action Level Exceedance</u></p> <p>0215660_4 October 2017_Bottom-depth DO_E_Station CS(Mf)5 0215660_4 October 2017_Surface and Middle-depth DO_F_Station CS(Mf)5 0215660_4 October 2017_Bottom-depth DO_F_Station CS(Mf)5</p> <p>[Total No. of Exceedances = 3]</p>	
Date	<p>4 October 2017 (Measured) 5 October 2017 (<i>In situ</i> results received by ERM) 17 October 2017 (Laboratory results received by ERM)</p>	
Monitoring Station	CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Surface and Middle-depth DO, Bottom-depth Dissolved Oxygen (DO)	
Action Levels for DO	Surface and Middle-depth DO	5.0 mg/L
	Bottom-depth DO	4.7 mg/L
Limit Levels for DO	Surface and Middle-depth DO	4.2 mg/L
	Bottom-depth DO	3.6 mg/L
Measured Levels	<p><u>Action Level Exceedance</u></p> <p>1. Mid-ebb at CS(Mf)5 (Bottom-depth DO = 4.3mg/L); 2. Mid-flood at CS(Mf)5 (Surface and Middle-depth DO = 4.9mg/L); 3. Mid-flood at CS(Mf)5 (Bottom-depth DO = 4.4mg/L).</p>	
Works Undertaken (at the time of monitoring event)	No major marine works was undertaken under this Contract on 4 October 2017.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of surface and middle and bottom-depth DO are unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • No marine works was undertaken under this Contract on 4 October 2017. • All monitored parameters, except DO, 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. • CS(Mf)5 are distant (>3km respectively) from the marine works area under this Contract, thus the observed exceedances should not be affected by the marine works under this Contract and they are considered to be natural fluctuation in water quality. 	
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 4 October 2017 and locations of water quality monitoring stations are attached. Site photo record on 4 October 2017 is attached.	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	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/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Surface	1	30.2	8.0	23.9	5.8	5.3	5.7	8.3	5.0	6.2
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Surface	2	30.0	8.0	24.2	5.7		4.6		5.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Middle	1	29.9	8.0	25.7	4.8		8.7		4.8	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Middle	2	29.6	8.0	26.0	4.8		7.9		5.0	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Bottom	1	29.6	7.9	27.7	4.3		11.9		9.0	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)5	11:32	Bottom	2	29.3	8.0	28.0	4.3		10.8		7.2	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Surface	1	30.3	7.8	21.5	5.8	5.9	7.8	14.4	2.6	4.1
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Surface	2	30.1	7.9	21.6	6.1		7.3		3.8	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Middle	1	30.2	7.9	23.7	5.9		13.5		3.8	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Middle	2	30.0	7.9	22.3	5.9		13.7		4.1	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Bottom	1	30.1	7.9	25.2	5.6		21.8		5.1	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	CS(Mf)3(N)	13:03	Bottom	2	29.8	7.9	25.3	5.8		22.1		4.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Surface	1	30.2	8.0	23.7	6.4	6.4	7.4	9.6	7.9	7.7
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Surface	2	29.9	8.1	24.0	6.4		6.5		6.7	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Bottom	1	30.0	8.0	24.9	5.2		12.9		7.7	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)16	12:05	Bottom	2	29.7	8.0	25.2	5.3		11.5		8.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Surface	1	30.2	8.0	23.7	5.9	5.9	12.5	15.1	12.3	12.1
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Surface	2	29.9	8.0	24.0	5.9		11.2		12.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Bottom	1	30.2	8.0	23.9	5.8		18.5		11.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4a	12:16	Bottom	2	29.9	8.0	24.1	5.7		18.2		11.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Surface	1	30.3	8.0	23.4	6.1	6.1	8.6	8.0	8.3	8.4
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Surface	2	30.0	8.0	23.6	6.1		7.5		8.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Bottom	1	30.3	8.0	23.4	6.1		8.3		8.0	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	SR4	12:20	Bottom	2	30.0	8.0	23.7	6.1		7.4		8.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Surface	1	30.5	8.1	23.8	6.6	6.6	10.3	11.2	10.8	11.5
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Surface	2	30.2	8.1	24.1	6.6		8.9		12.4	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Bottom	1	30.4	8.0	23.8	6.3		13.4		11.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS8	12:31	Bottom	2	30.1	8.1	24.1	6.3		12.1		11.3	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Surface	1	30.4	8.1	23.7	7.1	7.1	8.2	8.1	7.6	8.2
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Surface	2	30.2	8.1	24.0	7.1		7.0		9.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Bottom	1	30.4	8.1	23.7	6.9		9.3		7.8	
TMCLKL	HY/2012/07	2017-10-04	Mid-Ebb	IS(Mf)9	12:41	Bottom	2	30.1	8.1	24.0	6.9		7.8		7.8	

Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	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/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Surface	1	29.8	8.0	25.0	5.3	4.9	4.1	14.6	6.1	15.7
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Surface	2	30.0	7.9	24.8	5.3		4.1		4.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Middle	1	29.4	8.0	27.6	4.4	13.5	10.2			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Middle	2	29.7	7.9	27.3	4.5	13.8	9.9			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Bottom	1	29.4	8.0	27.8	4.3	23.9	30.4			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)5	18:26	Bottom	2	29.6	7.9	27.5	4.4	28.4	33.0			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Surface	1	30.4	7.8	21.0	5.6	5.7	6.2	7.0	3.7	4.3
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Surface	2	30.2	7.8	21.3	5.6		6.0		3.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Middle	1	30.4	7.8	21.0	5.8	5.7	4.7			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Middle	2	30.2	7.8	21.3	5.7	6.0	3.2			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Bottom	1	30.2	7.8	23.3	5.4	9.6	5.6			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	CS(Mf)3(N)	17:10	Bottom	2	30.0	7.8	23.5	5.3	8.3	4.7			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Surface	1	29.9	8.0	24.0	5.8	5.8	5.7	7.0	5.9	6.4
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Surface	2	30.1	8.0	23.7	5.8		5.6		5.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Bottom	1	29.8	8.0	24.6	5.6	8.6	7.2			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)16	17:53	Bottom	2	30.1	8.0	24.3	5.6	8.2	6.4			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Surface	1	29.9	8.0	24.0	5.8	5.8	7.4	9.0	7.8	7.8
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Surface	2	30.1	8.0	23.7	5.8		8.8		7.9	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Bottom	1	29.8	8.0	24.5	5.6	9.6	7.9			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4a	17:41	Bottom	2	30.1	8.0	24.3	5.6	10.1	7.4			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Surface	1	29.9	8.0	24.1	5.8	5.8	7.9	8.3	8.0	8.4
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Surface	2	30.1	8.0	23.9	5.8		7.7		7.2	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Bottom	1	29.8	8.0	24.6	5.7	8.9	9.9			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	SR4	17:36	Bottom	2	30.1	8.0	24.3	5.7	8.8	8.6			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Surface	1	29.8	8.0	24.2	5.9	5.9	10.6	11.6	9.6	9.7
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Surface	2	30.1	8.0	23.9	5.9		10.5		8.5	
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Middle	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Middle	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Bottom	1	29.8	8.0	24.3	5.8	12.4	9.8			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS8	17:28	Bottom	2	30.1	8.0	24.1	5.9	12.7	10.9			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Surface	1					6.7		8.5		8.0
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Surface	2									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Middle	1	30.0	8.1	24.2	6.6	8.5	8.5			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Middle	2	30.2	8.0	23.9	6.7	8.5	7.5			
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Bottom	1									
TMCLKL	HY/2012/07	2017-10-04	Mid-Flood	IS(Mf)9	17:19	Bottom	2									

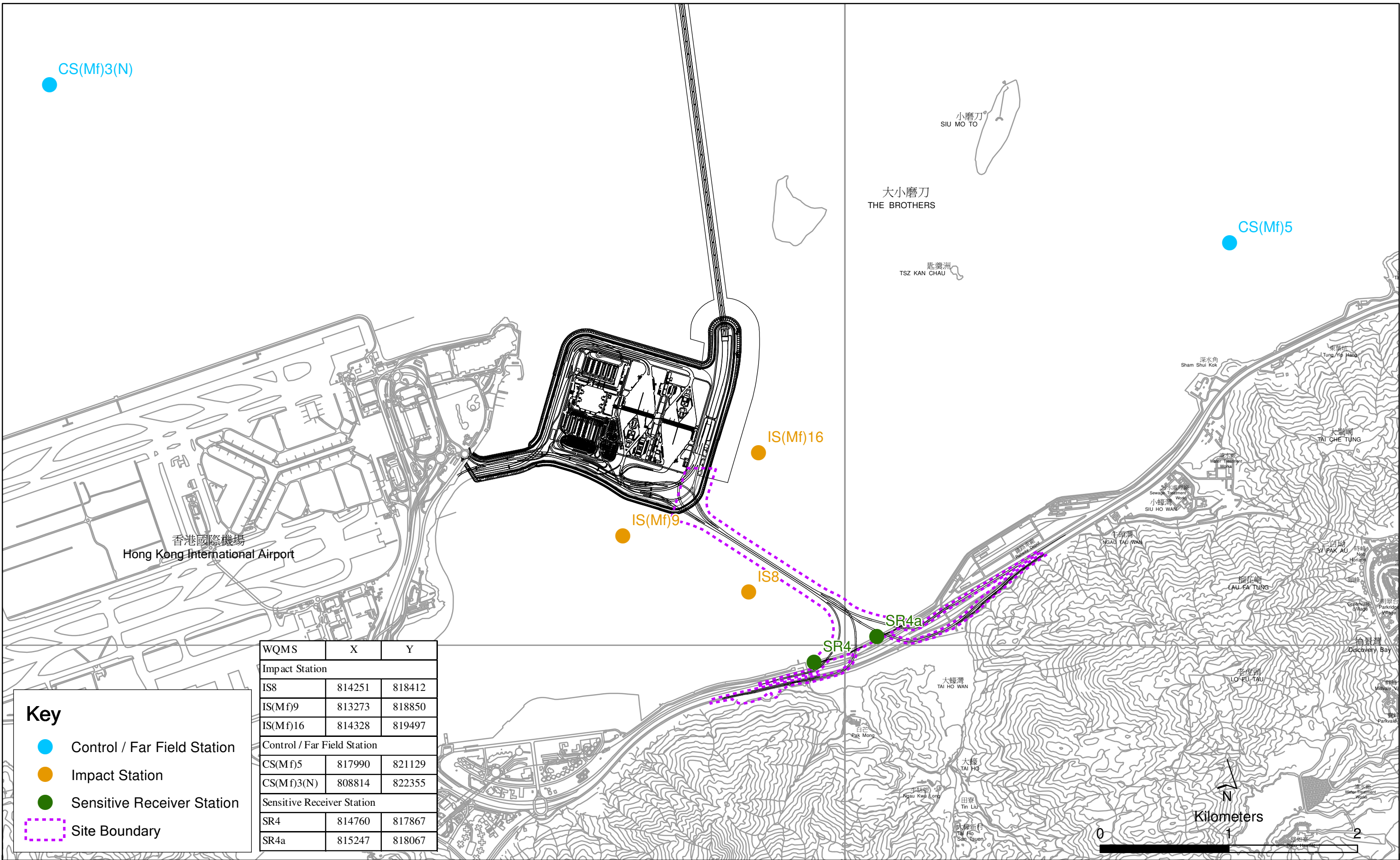
Note: Indicates Exceedance of Action Level
Indicates Exceedance of Limit Level

Photo 1 - Mid-Ebb at CS(Mf)5 on 4 October 2017



Photo 2 - Mid-Flood at CS(Mf)5 on 4 October 2017





WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

Key

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary

Locations of Water Quality Monitoring Stations