

Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	0	0
	Limit	0	1
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	2	226
	Limit	0	24
Impact Dolphin Monitoring	Action	0	11
	Limit	1	16

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 (May 2019)	0	0	0
Total No. received since contract commencement	14	0	0

Email
message

Environmental
Resources
Management

To Ramboll Hong Kong Limited (ENPO)

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

Date 30 May 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

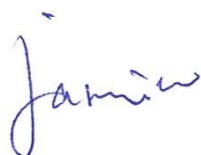
Dear Sir/ Madam,

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

Action Level Exceedance
0215660_15 May 2019_ Depth-averaged SS_E_Station IS8

A total of one exceedance was recorded on 15 May 2019.

Regards,



Dr Jasmine Ng
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.	<u>Action Level Exceedance</u> 0215660_15 May 2019_ Depth-averaged SS_E_Station IS8 [Total No. of Exceedance = 1]	
Date	15 May 2019 (Measured) 16 May 2019 (<i>In situ</i> results received by ERM) 24 May 2019 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Depth-average SS	
Action Levels for SS	Depth-averaged SS	23.5 mg/L
Limit Levels for SS	Depth-averaged SS	34.4 mg/L
Measured Levels	<u>Action Level Exceedance</u> 1. Mid-ebb at IS8 (Depth-averaged SS = 24.7 mg/L)	
Works Undertaken (at the time of monitoring event)	Reinstatement of seawall at seafront was undertaken under this Contract on 15 May 2019.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of SS are unlikely to be due to the Contract, in view of the following</p> <ul style="list-style-type: none"> • Apart from SS exceedance at IS8 during mid-ebb tide, levels of 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. • Levels of turbidity 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. • No effluent discharge from platforms and work areas was observed during the sampling on the same day (refer to <i>Site Photo Record</i>). 	
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 15 May 2019 and locations of water quality monitoring stations are attached. Site photo record on 15 May 2019 is attached.	

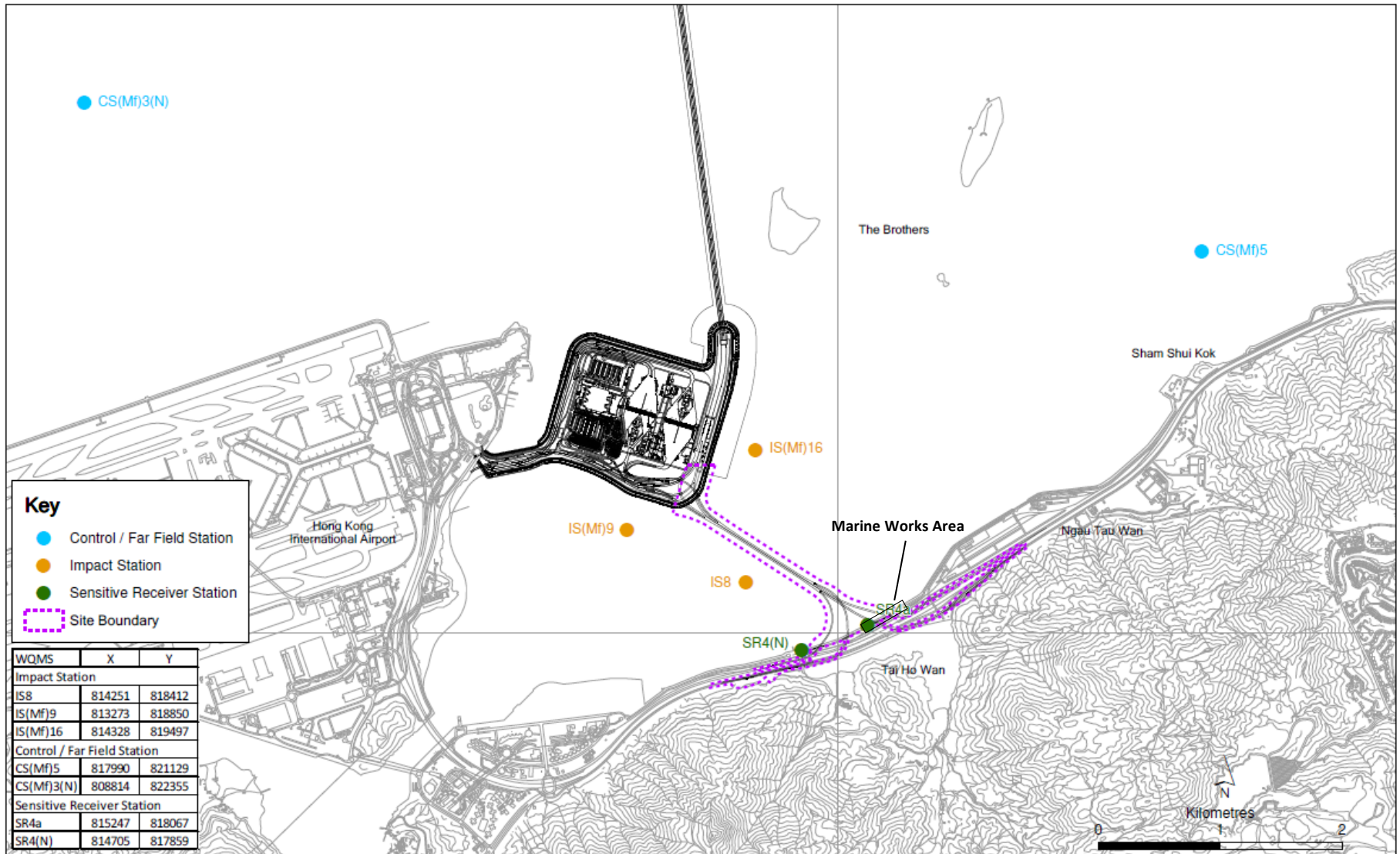
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Surface	1	26.5	8.1	21.3	8.8	8.6	4.7	4.3	11.5	12.8
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Surface	2	26.5	8.2	21.3	8.8		4.8		12.8	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Middle	1	26.4	8.1	21.9	8.3		4.1		13.0	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Middle	2	26.4	8.1	21.9	8.3		4.2		12.9	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Bottom	1	26.5	8.1	23.3	8.2	8.2	4.1	4.3	13.0	12.8
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)5	9:51	Bottom	2	26.5	8.1	23.3	8.2		4.0		13.5	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Surface	1	25.3	8.1	20.6	8.6	8.4	4.1	4.7	8.0	9.2
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Surface	2	25.3	8.1	20.5	8.6		4.0		9.2	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Middle	1	25.2	8.1	20.9	8.2		5.0		9.9	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Middle	2	25.2	8.1	20.9	8.2		5.0		9.7	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Bottom	1	25.2	8.1	21.0	8.2	8.2	5.1	4.7	9.2	9.2
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	CS(Mf)3(N)	11:02	Bottom	2	25.2	8.1	21.0	8.2		5.1		9.2	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Surface	1	26.4	8.2	21.6	8.6	8.6	10.8	11.0	18.5	18.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Surface	2	26.5	8.2	21.6	8.6		10.3		17.9	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Middle	1									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Middle	2									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Bottom	1	26.3	8.2	21.8	8.5	8.5	11.5	11.0	19.6	18.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)16	10:25	Bottom	2	26.3	8.2	21.8	8.5		11.5		18.8	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Surface	1	26.4	8.2	21.9	8.6	8.6	6.8	7.0	17.8	18.3
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Surface	2	26.5	8.2	21.9	8.6		6.8		17.3	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Middle	1									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Middle	2									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Bottom	1	26.2	8.2	22.0	8.5	8.5	7.2	7.0	18.6	18.3
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4a	10:33	Bottom	2	26.2	8.2	22.0	8.5		7.1		19.6	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Surface	1	26.6	8.1	21.6	8.2	8.2	10.3	9.1	13.5	13.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Surface	2	26.6	8.1	21.6	8.2		10.5		14.5	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Middle	1									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Middle	2									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Bottom	1	26.8	8.1	21.7	8.2	8.2	7.7	9.1	13.0	13.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	SR4(N)	10:38	Bottom	2	26.8	8.1	21.7	8.2		7.8		13.9	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Surface	1	26.4	8.2	22.1	8.6	8.6	16.1	15.3	25.1	24.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Surface	2	26.4	8.2	22.0	8.6		16.0		25.7	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Middle	1									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Middle	2									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Bottom	1	26.3	8.2	22.1	8.6	8.6	14.6	15.3	23.4	24.7
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS8	10:43	Bottom	2	26.3	8.2	22.1	8.6		14.6		24.4	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Surface	1	27.1	8.3	21.5	9.5	9.5	6.4	6.4	15.7	15.1
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Surface	2	27.1	8.3	21.5	9.5		6.5		14.6	
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Middle	1									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Middle	2									
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Bottom	1	27.1	8.3	21.4	9.4	9.5	6.4	6.4	14.4	15.1
TMCLKL	HY/2012/07	2019/05/15	Mid-Ebb	IS(Mf)9	10:51	Bottom	2	27.1	8.3	21.4	9.5		6.3		15.5	

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	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Surface	1	26.5	8.3	21.4	9.1	9.1	4.8	5.8	12.0	11.4			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Surface	2	26.5	8.3	21.5	9.1		4.9		11.6				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Middle	1	26.3	8.3	21.4	9.0		7.1		11.0				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Middle	2	26.5	8.3	21.4	9.2		6.0		10.5				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Bottom	1	26.3	8.3	21.7	9.1	9.1	6.2	5.8	11.9	11.4			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)5	16:01	Bottom	2	26.3	8.3	21.7	9.0		5.6		11.2				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Surface	1	26.5	8.3	17.4	10.1	9.0	4.5	4.5	10.9	12.5			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Surface	2	26.5	8.3	17.4	10.1		4.4		11.8				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Middle	1	25.2	8.0	18.3	7.8		4.4		12.0				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Middle	2	25.2	8.0	18.1	7.9		4.4		13.0				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Bottom	1	25.7	8.0	20.1	7.9	7.9	4.5	4.5	13.6	13.8			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	CS(Mf)3(N)	14:57	Bottom	2	25.5	8.0	20.2	7.9		4.5		13.8				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Surface	1	26.6	8.3	21.2	10.1	10.1	9.4	7.3	7.2	8.5			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Surface	2	26.6	8.3	21.2	10.1		9.2		7.7				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Middle	1												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Middle	2												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Bottom	1	26.7	8.3	21.2	10.1	10.1	5.2	10.1	9.4	13.8			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)16	15:34	Bottom	2	26.7	8.3	21.2	10.1		5.2		9.7				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Surface	1	26.9	8.4	21.4	10.3	10.3	3.8	3.9	13.2	13.8			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Surface	2	26.9	8.4	21.4	10.3		3.9		13.9				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Middle	1												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Middle	2												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Bottom	1	26.8	8.4	21.5	9.8	9.8	3.9	9.8	14.1	10.9			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4a	15:25	Bottom	2	26.8	8.4	21.5	9.8		3.8		14.1				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Surface	1	26.8	8.4	21.2	10.3	10.3	11.3	8.7	9.7	10.9			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Surface	2	26.8	8.4	21.2	10.3		12.6		8.9				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Middle	1												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Middle	2												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Bottom	1	26.8	8.4	21.3	10.3	10.3	5.3	10.3	12.3	13.7			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	SR4(N)	15:22	Bottom	2	26.8	8.4	21.3	10.3		5.4		12.7				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Surface	1	26.4	8.3	21.3	9.4	9.4	10.7	9.5	14.5	13.7			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Surface	2	26.4	8.3	21.3	9.4		10.6		14.6				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Middle	1												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Middle	2												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Bottom	1	26.4	8.3	21.4	9.4	9.4	8.2	9.4	12.2	13.6			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS8	15:17	Bottom	2	26.4	8.3	21.4	9.4		8.6		13.3				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Surface	1	26.6	8.3	20.9	9.5	9.5	9.8	9.0	13.0	13.6			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Surface	2	26.6	8.3	20.9	9.5		10.4		13.0				
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Middle	1												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Middle	2												
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Bottom	1	26.5	8.3	21.1	9.5	9.5	7.8	9.5	13.8	13.6			
TMCLKL	HY/2012/07	2019/05/15	Mid-Flood	IS(Mf)9	15:08	Bottom	2	26.5	8.3	21.1	9.5		7.8		14.4				

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

Photo 1 - Mid-Ebb at IS8 on 15 May 2019





Key

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

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		
SR4a	815247	818067
SR4(N)	814705	817859

Locations of Water Quality Monitoring Stations

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_WQMS.mxd
Date: 20/3/2018

Email
message

**Environmental
Resources
Management**

To Ramboll Hong Kong Limited (ENPO)

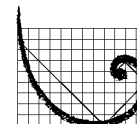
From ERM- Hong Kong, Limited

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

Date 11 June 2019

2507,
25/F One Harbourfront,
18 Tak Fung Street,
Hung Hom, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jasmine.ng@erm.com



ERM

Dear Sir/ Madam,

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

Action Level Exceedance
0215660_29 May 2019_ Depth-averaged SS_F_Station SR4(N)

A total of one exceedance was recorded on 29 May 2019.

Regards,

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

Dr Jasmine Ng
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07

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

Marine Water Quality Impact Monitoring

Notification of Exceedance

Log No.	<u>Action Level Exceedance</u> 0215660_15 May 2019_ Depth-averaged SS_E_Station IS8 [Total No. of Exceedance = 1]	
Date	29 May 2019 (Measured) 31 May 2019 (<i>In situ</i> results received by ERM) 10 June 2019 (Laboratory results received by ERM)	
Monitoring Station	CS(Mf)5, SR4a, SR4(N), IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)	
Parameter(s) with Exceedance(s)	Depth-average SS	
Action Levels for SS	Depth-averaged SS	23.5 mg/L
Limit Levels for SS	Depth-averaged SS	34.4 mg/L
Measured Levels	<u>Action Level Exceedance</u> 1. Mid-flood at SR4(N) (Depth-averaged SS = 24.4 mg/L)	
Works Undertaken (at the time of monitoring event)	Reinstatement of seawall at seafront was undertaken under this Contract on 29 May 2019.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedances of SS are unlikely to be due to the Contract, in view of the following</p> <ul style="list-style-type: none"> • Apart from SS exceedance at SR4(N) during mid-flood tide, levels of SS at all monitoring stations (including SR4a that closer to the marine works area) were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day. • Levels of turbidity 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. • No effluent discharge from platforms and work areas was observed during the sampling on the same day (refer to <i>Site Photo Record</i>). 	
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 29 May 2019 and locations of water quality monitoring stations are attached. Site photo record on 29 May 2019 is attached.	

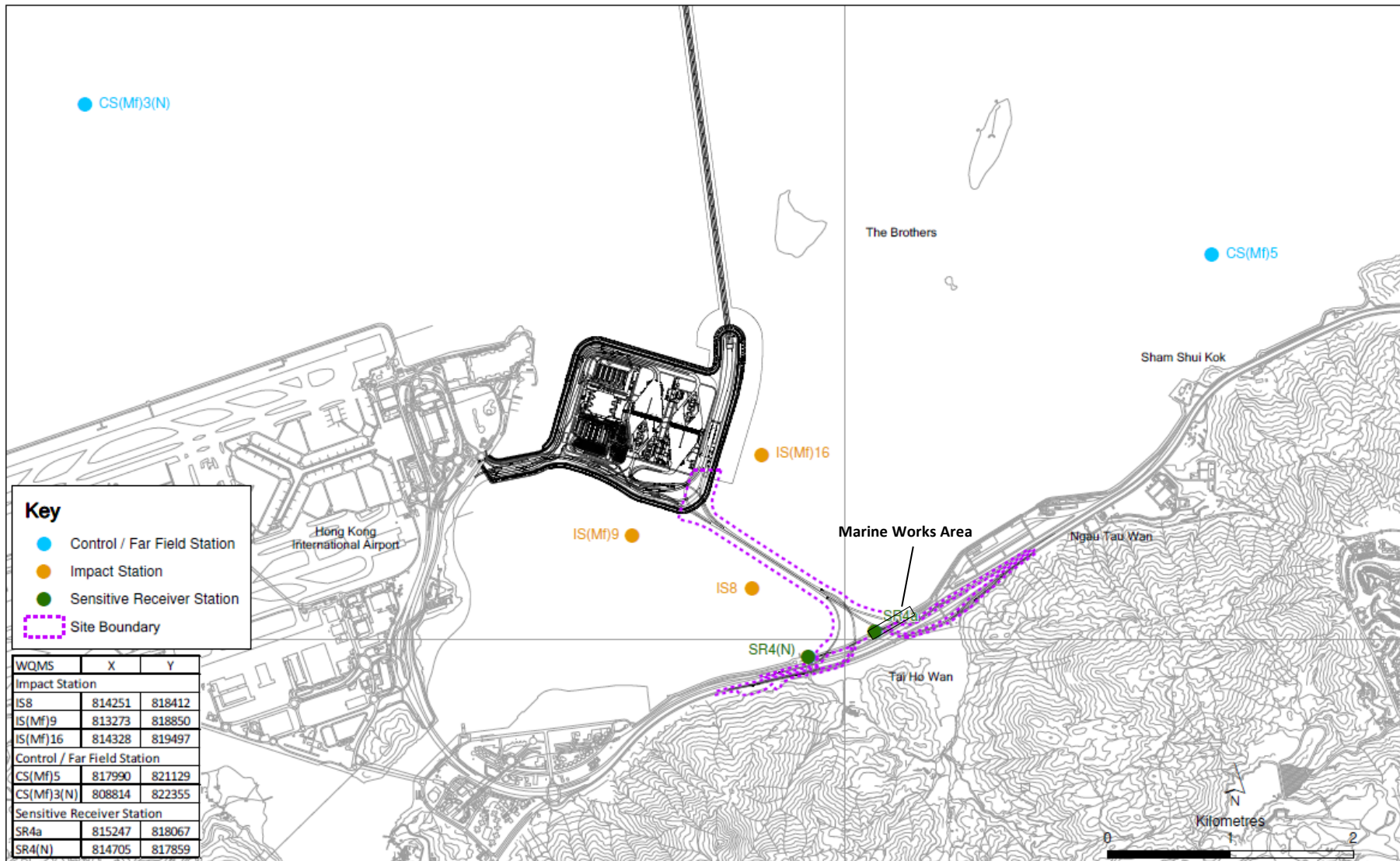
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Surface	1	1	26.5	8.0	21.3	6.6	6.6	1.7	1.8	0.8	0.7
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Surface	1	2	26.5	8.0	21.3	6.6		1.7		0.9	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Middle	2	1	26.4	8.0	21.3	6.5		2.2		<0.5	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Middle	2	2	26.4	8.0	21.3	6.6	6.5	2.2	1.8	0.6	0.7
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Bottom	3	1	26.4	8.0	23.2	6.5		1.6		0.8	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)5	9:39	Bottom	3	2	26.4	8.0	23.2	6.5	6.5	1.6	5.1	1.1	2.7
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Surface	1	1	26.6	7.9	19.3	6.5		4.6		2.4	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Surface	1	2	26.6	7.9	19.3	6.5		4.6		2.3	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Middle	2	1	26.6	7.9	19.3	6.5	6.6	4.5	5.1	3.2	2.7
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Middle	2	2	26.6	7.9	19.3	6.5		4.5		2.7	
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Bottom	3	1	26.6	7.9	19.3	6.6	6.6	6.1	5.1	3.0	2.7
HY/2012/07	2019/05/29	Mid-Ebb	CS(Mf)3(N)	11:00	Bottom	3	2	26.6	7.9	19.3	6.6		6.1		2.7	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Surface	1	1	26.4	8.0	19.0	6.6	6.6	3.2	3.5	2.8	2.8
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Surface	1	2	26.4	8.0	19.0	6.6		3.2		2.8	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Middle	2	2					6.6		3.5		2.8
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Bottom	3	1	26.4	8.0	19.1	6.6		3.7		2.7	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)16	10:09	Bottom	3	2	26.4	8.0	19.1	6.6	6.6	3.7	3.5	2.8	2.8
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Surface	1	1	26.6	8.0	14.7	6.8		7.6		5.1	
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Surface	1	2	26.6	8.0	14.7	6.8	6.8	7.6	5.9	5.2	4.3
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Middle	2	2									
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Bottom	3	1	26.5	8.0	19.7	6.4	6.4	4.2	5.9	3.7	4.3
HY/2012/07	2019/05/29	Mid-Ebb	SR4a	10:17	Bottom	3	2	26.5	8.0	19.7	6.4		4.2		4.1	
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Surface	1	1	26.4	7.9	17.4	6.1	6.1	5.4	5.8	6.2	7.1
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Surface	1	2	26.4	7.9	17.4	6.1		5.4		5.9	
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Middle	2	2					6.0		5.8		7.1
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Bottom	3	1	26.4	7.9	19.8	6.0		6.2		8.0	
HY/2012/07	2019/05/29	Mid-Ebb	SR4(N)	10:21	Bottom	3	2	26.4	7.9	19.8	6.0	6.6	6.2	6.2	8.3	9.1
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Surface	1	1	26.5	8.0	17.5	6.6		5.6		8.0	
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Surface	1	2	26.5	8.0	17.5	6.6		5.6		7.8	
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Middle	2	1					6.6		6.2		9.1
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Middle	2	2									
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Bottom	3	1	26.4	8.0	18.9	6.5	6.5	6.7	6.2	10.3	9.1
HY/2012/07	2019/05/29	Mid-Ebb	IS8	10:27	Bottom	3	2	26.4	8.0	18.9	6.5		6.7		10.1	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Surface	1	1	26.3	8.0	18.2	6.7	6.7	4.0	4.5	4.3	3.6
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Surface	1	2	26.3	8.0	18.2	6.7		3.9		4.5	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Middle	2	2					6.7		4.5		3.6
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Bottom	3	1	26.3	8.0	17.8	6.7		5.1		5.2	
HY/2012/07	2019/05/29	Mid-Ebb	IS(Mf)9	10:34	Bottom	3	2	26.3	8.0	17.8	6.7	6.7	5.1	4.5	5.7	3.6

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
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Surface	1	1	26.0	8.1	20.9	6.8	6.7	2.6	3.4	3.0	3.3
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Surface	1	2	26.0	8.1	20.9	6.8		2.6		3.3	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Middle	2	1	26.1	8.0	21.1	6.6		4.7		3.1	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Middle	2	2	26.1	8.0	21.1	6.7	6.5	4.7	3.4	3.2	3.3
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Bottom	3	1	25.9	8.0	22.9	6.5		2.9		3.6	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)5	15:05	Bottom	3	2	25.9	8.0	22.9	6.5		2.8		3.5	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Surface	1	1	26.6	7.9	18.9	6.9	6.9	3.9	3.9	1.2	1.4
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Surface	1	2	26.6	7.9	18.9	6.9		3.9		1.0	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Middle	2	1	26.6	7.9	18.9	6.8		3.9		1.3	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Middle	2	2	26.6	7.9	18.9	6.8	6.9	3.9	3.9	1.4	1.4
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Bottom	3	1	26.6	7.9	19.0	6.9		4.0		1.7	
HY/2012/07	2019/05/29	Mid-Flood	CS(Mf)3(N)	14:13	Bottom	3	2	26.6	7.9	19.0	6.9		4.0		1.6	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Surface	1	1	26.3	8.0	19.7	6.7	6.7	3.5	6.2	3.6	4.4
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Surface	1	2	26.3	8.0	19.7	6.7		3.5		4.1	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Middle	2	2					6.7		6.2		4.4
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Bottom	3	1	26.4	8.0	19.8	6.7		8.9		4.7	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)16	14:39	Bottom	3	2	26.4	8.0	19.8	6.7		9.0		5.1	
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Surface	1	1	26.5	8.0	19.8	6.6	6.6	3.4	8.3	5.7	13.1
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Surface	1	2	26.5	8.0	19.8	6.6		3.4		6.0	
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Middle	2	2					6.9		8.3		13.1
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Bottom	3	1	25.9	8.0	18.8	6.9		13.3		16.5	
HY/2012/07	2019/05/29	Mid-Flood	SR4a	14:30	Bottom	3	2	25.9	8.0	18.8	6.8		13.2		16.7	
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Surface	1	1	26.2	8.0	18.3	6.6	6.6	12.4	12.1	25.0	24.4
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Surface	1	2	26.1	8.0	18.3	6.6		12.3		25.7	
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Middle	2	2					6.6		12.1		24.4
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Bottom	3	1	26.2	8.0	18.9	6.6		11.8		23.2	
HY/2012/07	2019/05/29	Mid-Flood	SR4(N)	14:27	Bottom	3	2	26.2	8.0	18.9	6.6		11.8		23.7	
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Surface	1	1	26.3	8.0	20.2	6.6	6.6	3.5	5.3	2.8	2.8
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Surface	1	2	26.2	8.0	20.0	6.6		3.5		3.3	
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Middle	2	2					6.6		5.3		2.8
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Bottom	3	1	26.3	8.0	20.2	6.6		7.1		2.4	
HY/2012/07	2019/05/29	Mid-Flood	IS8	14:23	Bottom	3	2	26.3	8.0	20.2	6.6		7.0		2.6	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Surface	1	1	26.3	8.0	19.9	6.6	6.6	6.1	5.3	3.9	2.9
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Surface	1	2	26.4	8.0	19.9	6.6		6.1		3.7	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Middle	2	1									
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Middle	2	2					6.6		5.3		2.9
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Bottom	3	1	26.2	8.0	19.7	6.6		4.5		3.7	
HY/2012/07	2019/05/29	Mid-Flood	IS(Mf)9	14:15	Bottom	3	2	26.2	8.0	19.7	6.6		4.6		3.9	

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

Photos 1 and 2 - Mid-flood at SR4(N) on 29 May 2019





Locations of Water Quality Monitoring Stations