

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 project 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	1	138
	Limit	0	15
Impact Dolphin Monitoring	Action	0	11
	Limit	0	11

**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 2018)	0	0	0
Total No. received since project commencement	12	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** 29 May 2018

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



**ERM**

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Dear Sir/ Madam,

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

Action Level Exceedance  
0215660\_25 May 2018\_ Bottom-depth DO\_E\_Station IS8

A total of one exceedance was recorded on 25 May 2018.

Regards,



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 style="text-align: center;"><u>Action Level Exceedance</u> 0215660_25 May 2018_ Bottom-depth DO_E_Station IS8</p> <p style="text-align: center;">[Total No. of Exceedances = 1]</p>	
Date	<p style="text-align: center;">25 May 2018 (Measured) 26 May 2018 (<i>In situ</i> results received by ERM) 01 June 2018 (Laboratory results received by ERM)</p>	
Monitoring Station	<p style="text-align: center;">CS(Mf)5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3(N)</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">Bottom-depth Dissolved Oxygen (DO)</p>	
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> 1. Mid-ebb at IS8 (Bottom-depth DO = 4.5mg/L)</p>	
Works Undertaken (at the time of monitoring event)	<p>No major marine works was undertaken under this Contract on 25 May 2018.</p>	
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"> <li>• No marine works was undertaken under this Contract on 25 May 2018.</li> <li>• Apart from marginal DO exceedance at IS8, levels of 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.</li> <li>• DO levels were generally lower at water quality monitoring stations due to two possible reasons of natural variation:             <ol style="list-style-type: none"> <li>1. Natural ability for water to hold dissolved oxygen is reduced due to higher water temperature in summer months.</li> <li>2. The higher Salinity recorded at the bottom level of IS8 was possibly caused by the stratification of seawater during summer when the freshwater discharged from the Pearl River tended to form a surface layer of lower salinity water, which is probably responsible for the lower Salinity recorded at the surface and middle levels compared to the higher Salinity recorded at the bottom level of the monitoring stations. The stratification of seawater in the water column is likely a contributing factor to the results of lower levels of DO at the bottom level.</li> </ol> </li> </ul>	
Actions Taken/ To Be Taken	<p>No immediate action is considered necessary. The ET will monitor for future trends in exceedances.</p>	
Remarks	<p>The monitoring results on 25 May 2018 and locations of water quality monitoring stations are attached. Site photo record on 25 May 2018 is attached.</p>	

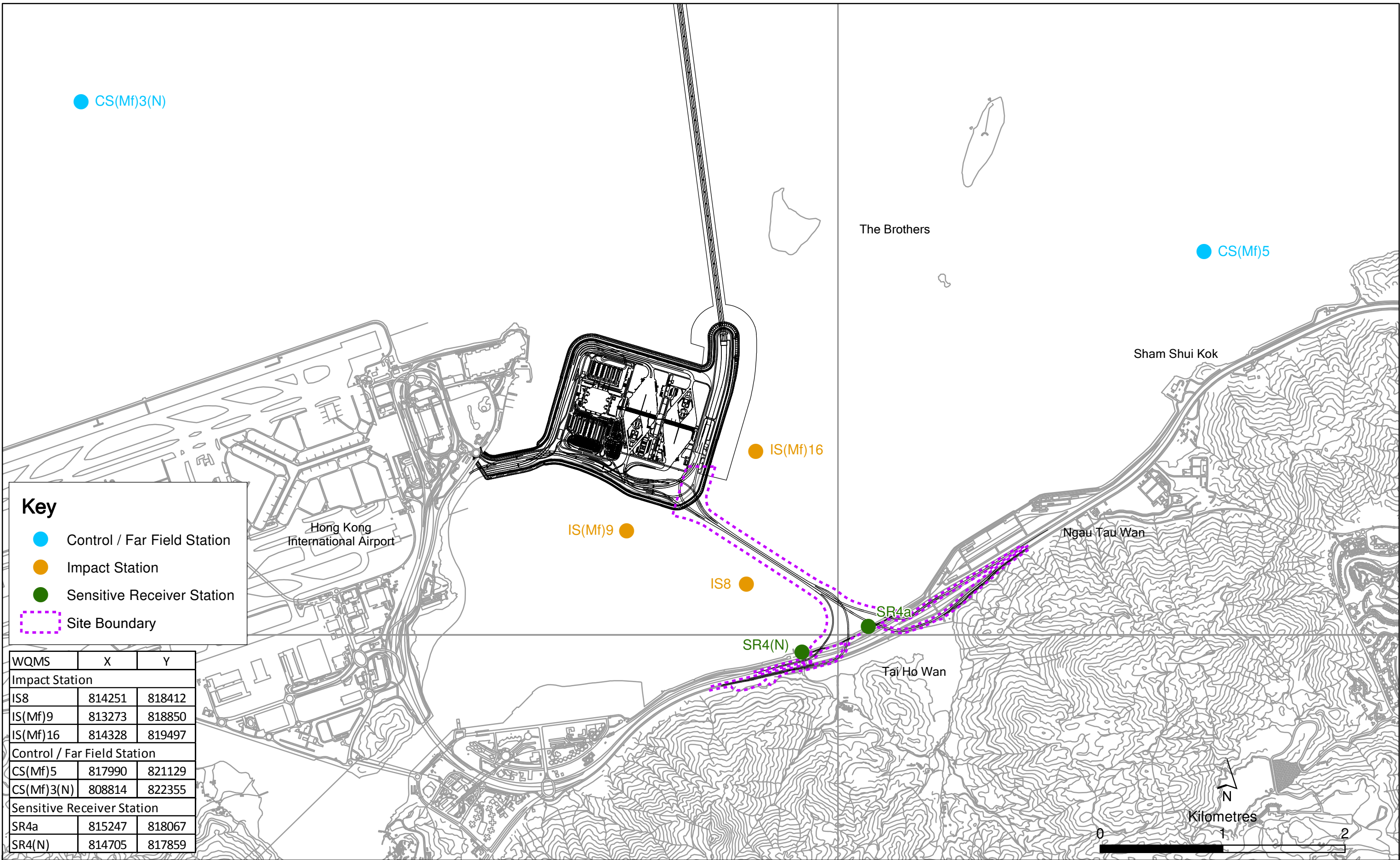
Project	Works	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Replicate	Temperature (°C)	pH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth-Averaged Turbidity	SS (mg/L)	Depth-Averaged SS
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Surface	1	28.1	8.1	24.2	6.6	6.5	3.0	3.3	3.8	3.9
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Surface	2	28.1	8.1	24.0	6.8		3.1		4.1	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Middle	1	27.1	8.1	25.7	6.1		3.2		4.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Middle	2	27.1	8.0	25.5	6.3		3.3		3.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Bottom	1	26.5	8.0	30.5	5.0	5.1	3.6		3.7	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)5	9:57	Bottom	2	26.5	8.1	30.2	5.2		3.7		3.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Surface	1	29.5	8.0	18.1	7.2	6.6	2.9	5.5	4.1	5.6
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Surface	2	29.1	8.1	18.2	7.2		2.9		5.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Middle	1	28.9	7.9	21.4	5.9		5.9		6.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Middle	2	28.5	8.0	21.5	5.9		5.9		7.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Bottom	1	28.6	7.9	22.9	5.5	5.5	7.6		5.6	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	CS(Mf)3(N)	11:11	Bottom	2	28.2	7.9	23.0	5.5		7.9		5.1	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Surface	1	28.6	8.2	23.5	7.2	7.2	4.5	5.3	2.8	3.3
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Surface	2	28.6	8.2	23.0	7.2		4.6		2.9	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Bottom	1	28.0	8.1	25.3	6.5	6.6	6.1		3.6	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)16	10:28	Bottom	2	28.0	8.1	25.1	6.6		6.1		4.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Surface	1	28.6	8.1	23.0	6.2	6.2	7.5	10.2	4.1	5.6
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Surface	2	28.6	8.1	22.7	6.2		7.6		4.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Bottom	1	27.8	8.0	26.0	5.1	5.1	12.8		6.2	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4a	10:38	Bottom	2	27.8	8.0	25.6	5.1		12.9		8.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Surface	1	29.1	8.2	21.5	7.5	7.5	6.1	6.1	3.1	4.4
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Surface	2	29.1	8.2	21.2	7.5		6.2		4.7	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Bottom	1	29.1	8.2	21.4	7.5	7.5	6.0		5.2	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	SR4(N)	10:45	Bottom	2	29.1	8.2	21.2	7.5		6.0		4.6	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Surface	1	29.2	8.3	21.2	7.8	7.8	2.5	2.9	3.5	3.9
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Surface	2	29.2	8.3	21.0	7.8		2.6		4.7	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Bottom	1	28.2	7.8	24.6	4.4	4.5	3.2		3.9	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS8	10:52	Bottom	2	28.2	7.8	24.2	4.5		3.2		3.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Surface	1	29.2	8.3	21.8	8.6	8.6	5.9	6.0	3.0	2.6
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Surface	2	29.1	8.3	21.6	8.6		5.9		2.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Bottom	1	29.2	8.2	21.8	8.7	8.7	6.0		2.2	
TMCLKL	HY/2012/07	2018-05-25	Mid-Ebb	IS(Mf)9	11:01	Bottom	2	29.1	8.3	21.6	8.6		6.1		2.5	

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	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Surface	1	29.2	8.2	20.6	7.9	7.1	2.7	5.4	5.3	5.4
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Surface	2	29.2	8.2	20.8	7.9		2.7		5.8	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Middle	1	27.1	8.0	25.7	6.2		7.3		5.3	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Middle	2	27.2	8.0	25.9	6.2	5.8	7.5	5.4	5.4	5.4
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Bottom	1	26.8	7.9	29.0	5.7		6.0		5.1	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)5	16:03	Bottom	2	26.8	8.0	29.3	5.8	7.4	6.0	4.8	5.3	4.8
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Surface	1	29.8	8.1	16.8	8.0		5.8		4.8	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Surface	2	30.2	8.0	16.7	8.1		5.7		3.8	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Middle	1	29.0	8.0	19.1	6.8	6.2	4.3	4.8	5.0	4.8
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Middle	2	29.4	7.9	19.0	6.8		4.3		5.3	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Bottom	1	28.5	7.9	22.1	6.2	9.3	4.4	2.9	4.9	4.2
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	CS(Mf)3(N)	14:55	Bottom	2	28.9	7.9	22.1	6.2		4.2		5.1	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Surface	1	29.2	8.3	21.1	9.3	9.4	2.6	6.2	4.3	6.3
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Surface	2	29.2	8.3	21.3	9.3		2.6		4.4	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Middle	2					9.4		2.9		4.2
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Bottom	1	29.2	8.3	21.2	9.3		3.1		4.3	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)16	15:37	Bottom	2	29.2	8.3	21.5	9.4	8.4	3.2	6.2	3.8	6.3
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Surface	1	29.0	8.2	21.1	8.4		6.4		6.2	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Surface	2	29.0	8.3	21.4	8.4		6.6		6.7	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Middle	1					6.7		6.2		6.3
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Middle	2									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Bottom	1	28.0	8.0	25.3	6.7	9.1	5.8	3.3	7.2	4.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4a	15:27	Bottom	2	27.9	8.0	25.7	6.7		5.9		5.2	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Surface	1	29.7	8.3	21.3	9.0	9.1	3.1	3.3	4.4	4.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Surface	2	29.7	8.3	21.5	9.1		3.3		6.0	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Middle	2					9.1		3.3		4.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Bottom	1	29.7	8.3	21.3	9.0		3.3		4.3	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	SR4(N)	15:21	Bottom	2	29.7	8.3	21.6	9.1	9.4	3.4	1.8	4.2	3.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Surface	1	29.9	8.3	21.5	9.3		1.8		3.5	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Surface	2	29.9	8.3	21.7	9.4	9.4	1.8	1.8	3.2	3.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Middle	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Middle	2					9.4		1.8		3.7
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Bottom	1	30.0	8.3	21.4	9.3		1.6		4.4	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS8	15:16	Bottom	2	30.0	8.3	21.6	9.4	9.1	1.8	1.8	3.7	2.8
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Surface	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Surface	2					9.1		1.8		2.8
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Middle	1	30.0	8.3	21.6	9.0		1.7		2.3	
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Middle	2	30.0	8.3	21.8	9.1	9.1	1.8	1.8	3.2	2.8
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Bottom	1									
TMCLKL	HY/2012/07	2018-05-25	Mid-Flood	IS(Mf)9	15:07	Bottom	2									

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

Photo 1 - Mid-Ebb at IS8 on 25 May 2018





**Key**

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

WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)5	817990	821129
CS(Mf)3(N)	808814	822355
<b>Sensitive Receiver Station</b>		
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

Environmental  
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