

Table C1 *Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities for SB CMPs*

Parameter	Action Level	Limit Level
Dissolved Oxygen (DO) ⁽¹⁾	<u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = 4.32 mg L⁻¹	<u>Surface and Mid-depth</u> ⁽²⁾ The average of the impact, WSR 45C and WSR 46 station readings are < 4 mg L⁻¹
	and	and
	Significantly less than the reference stations mean DO (at the same tide of the same day)	Significantly less than the reference stations mean DO (at the same tide of the same day)
	<u>Bottom</u> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for bottom layers = 3.12 mg L⁻¹	<u>Bottom</u> The average of the impact station, WSR 45C and WSR 46 readings are < 2 mg L⁻¹
	and	and
	Significantly less than the reference stations mean DO (at the same tide of the same day)	Significantly less than the reference stations mean DO (at the same tide of the same day)
Depth-averaged Suspended Solids (SS) ^{(3) (4)}	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = 21.60 mg L⁻¹	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = 40.10 mg L⁻¹
	and	and
	120% of control station's SS at the same tide of the same day	130% of control station's SS at the same tide of the same day
Depth-averaged Turbidity (Tby) ^{(3) (4)}	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = 25.04 NTU	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = 32.68 NTU
	and	and
	120% of control station's Tby at the same tide of the same day	130% of control station's Tby at the same tide of the same day

Notes:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- (3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table C2 *In-situ Monitoring Results for Routine Water Quality Monitoring of CMP 2 on 11 May 2015*

Sampling Period	Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen (%)	(mg L ⁻¹)	pH (mg L ⁻¹)
May 2015	RFF (Reference)	26.29	23.29	7.49	79.47	5.63	7.85
	IPF (Impact)	25.77	25.90	11.54	74.85	5.27	7.86
	INF (Intermediate)	25.01	29.22	5.62	73.71	5.16	7.89
	Ma Wan	24.96	29.46	3.46	74.32	5.20	7.89
	Shum Shui Kok	25.12	28.88	9.65	72.80	5.09	7.89
	Tai Mo To	25.49	27.17	10.59	75.05	5.27	7.88
	Tai Ho Bay 1	27.04	20.84	7.92	83.67	5.93	7.83
	Tai Ho Bay 2	27.10	19.90	4.08	81.91	5.83	7.82
WQO		N/A	20.96 - 25.62 [#]	N/A	N/A	>4	6.5-8.5

Notes:

[#]Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.

Table C3 *Laboratory Results for Routine Water Quality Monitoring of CMP 2 in April and May 2015*

Sampling Period	Stations	As (µg/L)	Cd (µg/L)	Cr (µg/L)	Cu (µg/L)	Pb (µg/L)	Hg (µg/L)	Ni (µg/L)	Ag (µg/L)	Zn (µg/L)	NH ₃ (mg/L)	TIN (mg/L)	BOD ₅ (mg/L)	SS (mg/L)
April 2015	RFF	2.23	<LOR	0.74	4.41	0.67	<LOR	0.99	<LOR	9.83	0.13	0.40	1.94	9.64
	IPF	2.26	<LOR	0.65	4.30	0.68	<LOR	0.72	<LOR	9.55	0.13	0.38	1.92	9.14
	INF	2.31	<LOR	0.64	4.45	0.57	<LOR	0.68	<LOR	19.93	0.14	0.35	2.11	8.34
	Ma Wan	2.25	<LOR	0.80	6.21	1.31	<LOR	1.18	<LOR	10.54	0.15	0.27	1.75	6.50
	Shum Shui Kok	2.39	<LOR	0.81	4.13	0.66	<LOR	1.20	<LOR	9.99	0.15	0.37	3.05	7.50
	Tai Mo To	2.23	<LOR	0.70	3.25	<LOR	<LOR	1.33	<LOR	14.25	0.17	0.41	4.31	12.44
	Tai Ho Bay 1	2.24	<LOR	0.79	2.69	0.64	<LOR	1.25	<LOR	10.98	0.13	0.46	2.28	12.16
	Tai Ho Bay 2	2.28	<LOR	0.64	3.50	0.78	<LOR	1.43	<LOR	9.78	0.09	0.46	3.71	8.90
May 2015	RFF	2.60	<LOR	0.68	9.49	<LOR	<LOR	2.77	<LOR	12.81	0.21	1.17	0.80	10.18
	IPF	2.37	<LOR	1.70	6.18	2.13	<LOR	2.91	<LOR	14.25	0.21	0.96	1.42	11.82
	INF	2.34	<LOR	0.93	2.94	0.71	<LOR	1.53	<LOR	8.66	0.16	0.73	0.85	8.04
	Ma Wan	2.12	<LOR	<LOR	6.51	<LOR	<LOR	1.40	<LOR	17.04	0.19	0.59	0.78	5.69
	Shum Shui Kok	2.32	<LOR	<LOR	4.85	<LOR	<LOR	1.52	<LOR	14.32	0.20	0.67	0.91	11.99
	Tai Mo To	2.35	<LOR	<LOR	2.40	<LOR	<LOR	1.83	<LOR	6.46	0.20	0.91	0.89	11.14
	Tai Ho Bay 1	2.45	<LOR	0.57	6.34	<LOR	<LOR	2.68	<LOR	10.31	0.19	1.31	0.86	9.91
	Tai Ho Bay 2	2.07	<LOR	0.76	1.68	<LOR	<LOR	2.68	<LOR	5.43	0.16	1.34	0.90	5.78

WQO of TIN: 0.5 mg/L

Wet Season WQO of SS : 11.6 mg/L

Note: Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.

Table C4 **Water Column Profiling Results for SB CMP 2 on 13 May 2015**

Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen (%) (mg L ⁻¹)		pH (mg L ⁻¹)	Suspended Solids (mg L ⁻¹)
WCP 1 (Downstream)	25.71	25.44	20.41	75.76	5.35	7.87	19.98
WCP 2 (Upstream)	25.71	25.65	16.97	74.87	5.28	7.86	13.63
WQO (wet season)	N/A	22.99- 28.21 [#]	N/A	N/A	>4	6.5-8.5	11.6

Note: [#]Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.
Cell shaded grey indicate value exceeding the WQO.