

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

<b>Parameter</b>	<b>Action Level</b>	<b>Limit Level</b>
Dissolved Oxygen (DO) <sup>(1)</sup>	<u>Surface and Mid-depth</u> <sup>(2)</sup> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = <b>4.32 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Surface and Mid-depth</u> <sup>(2)</sup> The average of the impact, WSR 45C and WSR 46 station readings are < <b>4 mg L<sup>-1</sup></b>  and  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 = <b>3.12 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Bottom</u> The average of the impact station, WSR 45C and WSR 46 readings are < <b>2 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)
Depth-averaged Suspended Solids (SS) <sup>(3)(4)</sup>	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = <b>21.60 mg L<sup>-1</sup></b>  and  120% of control station's SS at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = <b>40.10 mg L<sup>-1</sup></b>  and  130% of control station's SS at the same tide of the same day
Depth-averaged Turbidity (Tby) <sup>(3)(4)</sup>	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = <b>25.04 NTU</b>  and  120% of control station's Tby at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = <b>32.68 NTU</b>  and  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 in February 2015*

Sampling Period	Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen (%)	Dissolved Oxygen (mg L <sup>-1</sup> )	pH (mg L <sup>-1</sup> )
February 2015	RFF (Reference)	16.83	29.79	5.35	101.61	8.23	8.04
	IPF (Impact)	16.85	30.47	6.32	99.34	8.01	8.04
	INF (Intermediate)	16.91	31.22	2.35	94.81	7.60	8.03
	Ma Wan	16.86	31.23	1.43	95.71	7.68	8.02
	Shum Shui Kok	16.82	30.34	2.51	100.70	8.13	8.06
	Tai Mo To	16.88	30.56	4.38	99.27	8.00	8.04
	Tai Ho Bay 1	16.87	30.24	8.28	101.38	8.18	8.06
	Tai Ho Bay 2	16.62	29.75	7.67	97.42	7.93	7.37
WQO		N/A	26.81-32.76#	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.

**Table C3** *Laboratory Results for Routine Water Quality Monitoring of CMP 2 in January and February 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 <sub>3</sub> (mg/L)	TIN (mg/L)	BOD <sub>5</sub> (mg/L)	SS (mg/L)
January 2015	RFF	1.86	<LOR	0.88	7.74	0.79	<LOR	2.18	<LOR	5.99	0.24	0.38	2.14	13.29
	IPF	1.78	<LOR	0.81	4.21	0.94	<LOR	2.13	<LOR	7.90	0.22	0.38	1.14	8.08
	INF	2.12	<LOR	0.70	1.96	0.80	<LOR	2.11	<LOR	12.26	0.22	0.38	0.89	4.99
	Ma Wan	2.41	<LOR	0.71	3.31	0.80	<LOR	3.18	<LOR	10.76	0.13	0.28	2.05	6.14
	Shum Shui Kok	1.29	<LOR	0.88	4.08	0.78	<LOR	1.69	<LOR	11.50	0.18	0.32	1.88	4.00
	Tai Mo To	2.50	<LOR	0.73	1.36	0.73	<LOR	1.29	<LOR	11.58	0.24	0.38	2.16	6.43
	Tai Ho Bay 1	1.53	<LOR	0.75	2.88	0.50	<LOR	1.43	<LOR	10.70	0.26	0.45	4.38	14.31
	Tai Ho Bay 2	2.16	<LOR	0.64	3.73	0.59	<LOR	1.13	<LOR	1.50	0.36	0.60	2.76	6.24
February 2015	RFF	1.86	<LOR	0.81	7.02	0.83	<LOR	1.87	<LOR	10.08	0.26	0.67	1.93	7.65
	IPF	2.51	<LOR	0.78	3.34	0.77	<LOR	1.76	<LOR	7.65	0.22	0.54	1.75	98.2
	INF	1.93	<LOR	0.76	2.39	0.73	<LOR	2.50	<LOR	9.94	0.19	0.47	1.69	5.45
	Ma Wan	2.04	<LOR	0.80	1.31	0.63	<LOR	3.18	<LOR	19.13	0.19	0.44	1.61	1.61
	Shum Shui Kok	2.74	<LOR	0.99	8.86	0.86	<LOR	0.88	<LOR	9.23	0.26	0.61	3.14	6.50
	Tai Mo To	1.90	<LOR	0.84	5.56	0.95	<LOR	1.41	<LOR	16.21	0.23	0.55	3.60	7.84
	Tai Ho Bay 1	2.69	<LOR	0.90	0.90	0.84	<LOR	1.89	<LOR	8.31	0.19	0.53	1.19	8.75
	Tai Ho Bay 2	2.14	<LOR	0.73	1.30	0.80	<LOR	1.50	<LOR	4.74	0.16	0.50	2.25	6.74

WQO of TIN: 0.5 mg/L

Dry Season WQO of SS: 13.7 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 CMP 2 on 2 February 2015*

Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen (%)	Dissolved Oxygen (mg L <sup>-1</sup> )	pH (mg L <sup>-1</sup> )	Suspended Solids (mg L <sup>-1</sup> )
WCP 1 (Downstream)	17.36	30.58	7.18	94.01	7.50	8.11	7.45
WCP 2 (Upstream)	17.42	30.54	5.03	95.64	7.62	8.09	6.48
WQO (dry season)	N/A	28.13-34.73#	N/A	N/A	>4	6.5-8.5	13.7

**Note:** #Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.