Table B1 Action and Limit Levels of Water Quality for Dredging, Disposal and Capping Activities at ESC CMP V

Parameter	Action Level	Limit Level				
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2)	Surface and Mid-depth (2)				
	5%-ile of baseline data for surface and	1%-ile of baseline data for surface and				
	middle layer = 3.76 mg L-1	middle layer = 3.11 mg L- ¹ (3)				
	and	and				
	Significantly less than the reference	Significantly less than the reference				
	stations mean DO (at the same tide of	stations mean DO (at the same tide of				
	the same day)	the same day)				
	Bottom	Bottom				
	5%-ile of baseline data for bottom	The average of the impact station				
	layers = 2.96 mg L-1	readings are <2 mg/L-1				
	and	and				
	Significantly less than the reference	Significantly less than the reference				
	stations mean DO (at the same tide of	stations mean DO (at the same tide of				
	the same day)	the same day)				
Depth-averaged Suspended	95%-ile of baseline data for depth	99%-ile of baseline data for depth				
Solids (SS) (4) (5)	average = 37.88 mg L-1	average = 61.92 mg L ⁻¹				
	and					
		and				
	120% of control station's SS at the same	130% of control station's SS at the same				
	tide of the same day	tide of the same day				
Depth-averaged Turbidity (Tby) (4) (5)	95%-ile of baseline data = 28.14 NTU	99%-ile of baseline data = 38.32 NTU				
. •	and	and				
	120% of control station's Tby at the	130% of control station's Tby at the				
	same tide of the same day	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) Given the Action Level for DO for Surface & Middle layers has already been lower than 4 mg L-1, it is proposed to set the Limit Level at 3.11 mg L-1 which is the first percentile of the baseline data.
- (4) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (5) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table B2 Water Column Profiling Results for ESC CMP Vd in June 2017

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids	
	(°C)	(ppt)	(NTU)	(%) (mg L-1)		(mg L-1)	(mg L-1)	
WCP 1	28.22	19.47	7.75	71.58	5.01	7.93	4.65	
(Downstream) WCP 2 (Upstream)	28.23	18.98	6.69	74.76	5.25	7.93	5.03	
WQO (Wet season)	N/A	17.09 – 20.88#	N/A	N/A	>4	6.5-8.5	11.0	

Note:

[#]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 B3 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)	Surface and Mid-depth (2) The average of the impact, WSR 45C and WSR 46 station readings are < 5%-	Surface and Mid-depth (2) The average of the impact, WSR 45C and WSR 46 station readings are < 4			
	ile of baseline data for surface and middle layer = 4.32 mg L ⁻¹	mg L-1			
	and	Significantly less than the reference			
	Significantly less than the reference stations mean DO (at the same tide of the same day)	stations mean DO (at the same tide of the same day)			
	Bottom 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	$\frac{\text{Bottom}}{\text{The average of the impact station,}}$ 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 B4 Monitoring Results for Water Quality Monitoring during Capping of SB CMP in June 2017

Sampling Period	Stations	Temp	Salin ity	Turbid ity		solved ygen	pН	SS	NH3	TIN	BOD ₅
		(°C)	(ppt)	(NTU)	(%)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L- 1)	(mg L-1)
June 2017	RFF (Reference)	28.67	17.12	6.86	82.76	5.82	7.95	7.89	0.12	1.39	0.88
	IPF (Impact)	28.32	19.70	13.34	75.65	5.28	7.92	15.75	0.12	1.21	0.29
	INF (Intermediate)	27.36	26.42	11.23	60.12	4.11	7.92	10.97	0.11	0.81	0.28
	Ma Wan	27.33	26.83	4.08	58.92	4.02	7.92	5.30	0.12	0.75	0.25
	Sham Shui Kok	27.74	23.68	7.77	63.40	4.37	7.92	16.02	0.14	1.13	0.25
	Tai Mo To	28.04	21.72	11.33	69.89	4.85	7.91	12.10	0.14	0.97	0.33
	Tai Ho Bay 1	28.60	17.59	14.68	83.12	5.84	7.95	16.57	0.10	1.30	0.37
	Tai Ho Bay 2	28.67	17.56	10.45	69.14	4.85	7.80	5.57	0.05	0.81	0.73
	WQO	N/A	15.41- 18.83*	N/A	N/A	>4	6.5-8.5	11.0	N/A	0.50	N/A

Notes:

[#] Not exceeding 2°C of change of the results from the Reference Station.

^{*}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.