

Water Quality Monitoring – Sham Chung Pier

Limit Level for

Dissolved Oxygen (DO):

- 6.0 mg/L for Surface and Middle (Depth averaged)
- 4.2 mg/L for Bottom

Turbidity:

- 2.6 NTU or 130% upstream control station at the same tide of the same day, whichever is higher.

Suspended Solids (SS):

- 18.7 mg/L or 130% of upstream control station at the same tide of the same day, whichever is higher.

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For turbidity and SS, non-compliance of water quality limits occurs when monitoring result is higher than the limits.
- “Depth-averaged” is calculated by taking the arithmetic means of reading of all three depths.
- All the figures given in the table are used for reference only and the IEC may amend the figures whenever it is considered as necessary.
- The frequency of the water quality monitoring is 3 days per week during construction works.

Contract No. CV/2022/03

Reconstruction of Leung Shuen Wan Pier, Sham Chung Pier and Sam Mun Tsai Village Pier
- Sham Chung Pier

Water Quality Monitoring Results at IM1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
7-May-24	Sunny	Calm	12:15	8	Surface	1	26.9 26.8	26.9	8.4 8.4	8.4	27.4 27.6	27.5	132.1 131.8	132.0	9.0 9.0	9.0	7.8	0.5 0.5	0.5	0.6	4 4	4.0	5.2
					Middle	4	25.5 25.5	25.5	8.2 8.2	8.2	31.5 31.5	31.5	95.9 95.5	95.7	6.6 6.5	6.6		0.5 0.5	0.5		5 4	4.5	
					Bottom	7	25.3 25.3	25.3	8.1 8.1	8.1	32.7 32.7	32.7	68.3 67.7	68.0	4.7 4.6	4.7		0.8 0.9	0.9		7 7	7.0	
9-May-24	Sunny	Calm	13:30	8	Surface	1	26.7 26.6	26.7	8.3 8.3	8.3	30.5 30.5	30.5	105.2 105.5	105.4	7.1 7.1	7.1	6.7	0.6 0.6	0.6	0.6	9 8	8.5	4.8
					Middle	4	25.9 25.9	25.9	8.2 8.2	8.2	31.9 31.8	31.9	91.9 91.8	91.9	6.2 6.2	6.2		0.6 0.6	0.6		3 3	3.0	
					Bottom	7	25.7 25.7	25.7	8.1 8.1	8.1	32.4 32.4	32.4	78.6 78.0	78.3	5.3 5.3	5.3		0.7 0.7	0.7		3 3	3.0	
11-May-24	Fine	Calm	14:15	6	Surface	1	26.9 26.9	26.9	8.3 8.3	8.3	29.8 29.9	29.9	113.0 113.7	113.4	7.6 7.7	7.7	7.7	0.5 0.5	0.5	0.6	4 4	4.0	3.8
					Middle	3	26.9 26.8	26.9	8.3 8.3	8.3	30.0 30.0	30.0	114.3 114.1	114.2	7.7 7.7	7.7		0.6 0.6	0.6		5 4	4.5	
					Bottom	5	26.1 26.1	26.1	8.1 8.1	8.1	32.0 32.0	32.0	83.7 83.3	83.5	5.7 5.6	5.7		0.8 0.8	0.8		3 3	3.0	
14-May-24	Sunny	Calm	17:17	8	Surface	1	27.3 27.3	27.3	8.2 8.2	8.2	30.9 30.9	30.9	115.9 116.9	116.4	7.7 7.8	7.8	7.9	0.4 0.4	0.4	0.5	10 11	10.5	7.5
					Middle	4	27.0 27.0	27.0	8.2 8.2	8.2	30.9 30.9	30.9	118.9 119.1	119.0	8.0 8.0	8.0		0.4 0.4	0.4		6 6	6.0	
					Bottom	7	26.3 26.3	26.3	8.2 8.2	8.2	31.8 31.8	31.8	107.8 107.5	107.7	7.3 7.3	7.3		0.6 0.5	0.6		6 6	6.0	
18-May-24	Sunny	Calm	09:44	7	Surface	1	26.9 26.9	26.9	8.3 8.3	8.3	30.7 30.7	30.7	105.8 105.5	105.7	7.1 7.1	7.1	7.1	0.5 0.5	0.5	0.8	5 6	5.5	7.5
					Middle	3.5	26.9 26.9	26.9	8.2 8.2	8.2	30.9 30.9	30.9	104.3 104.3	104.3	7.0 7.0	7.0		0.7 0.7	0.7		6 6	6.0	
					Bottom	6	26.4 26.4	26.4	8.1 8.1	8.1	31.6 31.7	31.7	81.4 78.0	79.7	5.5 5.3	5.4		1.1 1.1	1.1		11 11	11.0	
21-May-24	Rainy	Calm	11:15	7	Surface	1	25.9 25.9	25.9	8.1 8.1	8.1	30.6 30.6	30.6	96.1 96.1	96.1	6.6 6.6	6.6	6.5	1.0 1.0	1.0	1.1	10 9	9.5	7.3
					Middle	3.5	26.0 26.2	26.1	8.1 8.1	8.1	31.0 31.1	31.1	92.2 91.0	91.6	6.3 6.2	6.3		1.0 1.1	1.1		5 6	5.5	
					Bottom	6	26.4 26.4	26.4	8.0 8.0	8.0	31.8 31.8	31.8	69.3 68.6	69.0	4.7 4.6	4.7		1.2 1.2	1.2		7 7	7.0	
23-May-24	Rainy	Calm	12:15	8	Surface	1	26.5 26.5	26.5	8.2 8.2	8.2	28.7 28.8	28.8	105.2 103.5	104.4	7.2 7.1	7.2	6.5	1.0 1.0	1.0	1.2	17 16	16.5	13.3
					Middle	4	26.2 26.2	26.2	8.0 8.0	8.0	31.6 31.7	31.7	83.5 82.8	83.2	5.7 5.6	5.7		0.9 0.9	0.9		5 5	5.0	
					Bottom	7	26.1 26.1	26.1	8.0 8.0	8.0	32.0 32.0	32.0	66.3 66.3	66.3	4.5 4.5	4.5		1.8 1.8	1.8		18 19	18.5	
25-May-24	Cloudy	Calm	12:30	8	Surface	1	26.5 26.5	26.5	8.2 8.2	8.2	29.3 29.3	29.3	102.2 102.9	102.6	7.0 7.0	7.0	6.3	0.8 0.8	0.8	1.0	7 8	7.5	7.8
					Middle	4	26.4 26.4	26.4	8.0 8.0	8.0	30.9 30.8	30.9	82.8 83.0	82.9	5.6 5.6	5.6		0.9 0.9	0.9		8 8	8.0	
					Bottom	7	26.0 26.0	26.0	7.9 7.9	7.9	32.2 32.2	32.2	53.9 53.8	53.9	3.6 3.6	3.6		1.4 1.4	1.4		8 8	8.0	
28-May-24	Fine	Calm	14:15	8	Surface	1	27.7 27.7	27.7	8.2 8.2	8.2	28.8 28.8	28.8	100.1 100.0	100.1	6.7 6.7	6.7	5.5	0.9 0.9	0.9	1.1	8 8	8.0	8.2
					Middle	4	26.4 26.5	26.5	8.0 8.0	8.0	31.9 31.8	31.9	61.6 60.3	61.0	4.2 4.1	4.2		1.2 1.2	1.2		7 8	7.5	
					Bottom	7	26.0 26.0	26.0	8.0 8.0	8.0	32.3 32.3	32.3	53.9 53.5	53.7	3.6 3.6	3.6		1.3 1.3	1.3		9 9	9.0	
30-May-24	Rainy	Calm	17:29	7	Surface	1	26.4 26.4	26.4	8.2 8.2	8.2	30.8 30.8	30.8	98.3 98.5	98.4	6.7 6.7	6.7	6.7	1.8 1.8	1.8	2.2	4 4	4.0	4.0
					Middle	3.5	26.4 26.4	26.4	8.2 8.2	8.2	30.9 30.9	30.9	97.8 97.8	97.8	6.6 6.6	6.6		2.3 2.2	2.3		5 5	5.0	
					Bottom	6	26.4 26.4	26.4	8.1 8.1	8.1	31.2 31.2	31.2	91.1 90.8	91.0	6.2 6.1	6.2		2.5 2.5	2.5		3 3	3.0	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-24	Cloudy	Calm	07:15	8	Surface	1	25.8 25.8	25.8	8.2 8.2	8.2	31.0 31.2	31.1	98.3 98.0	98.2	6.7 6.7	6.7	6.4	0.8 0.8	0.8	0.9	5 5	5.0	10.5
					Middle	4	25.7 25.7	25.7	8.2 8.1	8.2	32.6 32.7	32.7	90.1 89.9	90.0	6.1 6.1	6.1		0.9 0.8	0.9		5 5	5.0	
					Bottom	7	25.4 25.4	25.4	8.1 8.1	8.1	33.1 33.1	33.1	80.5 80.2	80.4	5.5 5.5	5.5		1.1 1.1	1.1		21 22	21.5	
7-May-24	Sunny	Calm	18:15	7	Surface	1	26.6 26.6	26.6	8.4 8.4	8.4	28.0 28.0	28.0	140.3 140.5	140.4	9.6 9.6	9.6	7.6	0.6 0.6	0.6	0.7	5 6	5.5	4.8
					Middle	3.5	25.4 25.5	25.5	8.1 8.1	8.1	32.2 32.2	32.2	81.6 81.3	81.5	5.6 5.6	5.6		0.5 0.5	0.5		3 3	3.0	
					Bottom	6	25.4 25.4	25.4	8.1 8.1	8.1	32.4 32.5	32.5	73.6 73.1	73.4	5.0 5.0	5.0		1.1 1.1	1.1		6 6	6.0	
11-May-24	Fine	Calm	07:15	8	Surface	1	25.9 25.9	25.9	8.3 8.3	8.3	30.1 30.2	30.2	101.0 100.6	100.8	6.9 6.9	6.9	6.8	0.6 0.6	0.6	0.7	7 8	7.5	10.8
					Middle	4	26.1 26.1	26.1	8.2 8.2	8.2	31.5 31.3	31.4	95.8 97.1	96.5	6.6 6.6	6.6		0.5 0.5	0.5		9 9	9.0	
					Bottom	7	25.9 25.9	25.9	8.1 8.1	8.1	32.0 32.0	32.0	72.7 73.6	73.2	4.9 5.0	5.0		1.0 1.0	1.0		16 16	16.0	
16-May-24	Sunny	Calm	07:15	7	Surface	1	26.5 26.6	26.6	8.3 8.3	8.3	30.6 30.7	30.7	108.2 109.0	108.6	7.3 7.4	7.4	7.2	0.6 0.6	0.6	0.8	5 6	5.5	8.0
					Middle	3.5	26.6 26.6	26.6	8.2 8.2	8.2	31.8 31.8	31.8	103.7 103.7	103.7	7.0 7.0	7.0		0.9 0.9	0.9		4 5	4.5	
					Bottom	6	26.3 26.4	26.4	8.1 8.1	8.1	32.0 32.0	32.0	88.4 88.1	88.3	6.0 5.9	6.0		0.8 0.8	0.8		14 14	14.0	
18-May-24	Sunny	Calm	15:16	7	Surface	1	27.3 27.3	27.3	8.2 8.2	8.2	30.7 30.7	30.7	110.1 110.6	110.4	7.4 7.4	7.4	7.5	0.9 0.9	0.9	0.9	4 4	4.0	11.8
					Middle	3.5	27.2 27.2	27.2	8.2 8.2	8.2	30.9 30.9	30.9	112.6 112.6	112.6	7.5 7.5	7.5		1.0 1.0	1.0		27 26	26.5	
					Bottom	6	26.2 26.2	26.2	8.0 8.0	8.0	32.2 32.2	32.2	78.1 78.0	78.1	5.3 5.3	5.3		0.7 0.7	0.7		5 5	5.0	
23-May-24	Rainy	Calm	18:46	6	Surface	1	26.7 26.7	26.7	8.2 8.2	8.2	29.3 29.4	29.4	113.2 112.9	113.1	7.7 7.7	7.7	7.1	0.9 0.9	0.9	1.1	6 6	6.0	8.5
					Middle	3	26.3 26.3	26.3	8.1 8.1	8.1	30.9 31.0	31.0	96.2 95.0	96.5	6.5 6.4	6.5		1.0 1.0	1.0		13 14	13.5	
					Bottom	5	26.2 26.2	26.2	8.0 8.0	8.0	31.9 31.8	31.9	69.7 69.0	69.4	4.7 4.7	4.7		1.4 1.4	1.4		6 6	6.0	
30-May-24	Rainy	Calm	10:18	7	Surface	1	26.4 26.4	26.4	8.2 8.2	8.2	30.7 30.8	30.8	92.1 92.4	92.3	6.2 6.3	6.3	6.3	1.2 1.2	1.2	1.5	6 6	6.0	5.8
					Middle	3.5	26.4 26.4	26.4	8.2 8.2	8.2	31.2 31.2	31.2	93.7 93.9	93.8	6.3 6.3	6.3		1.3 1.4	1.4		7 6	6.5	
					Bottom	6	26.4 26.4	26.4	8.1 8.1	8.1	31.5 31.5	31.5	85.5 85.0	85.3	5.8 5.7	5.8		1.9 1.9	1.9		5 5	5.0	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.