

Water Quality Monitoring – Leung Shuen Wan Pier

Limit Level for

Dissolved Oxygen (DO):

- 6.3 mg/L for Surface and Middle (Depth averaged)
- 6.1 mg/L for Bottom

Turbidity:

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

Suspended Solids (SS):

- 25.0 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
- Leung Shuen Wan 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	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*		
3-May-24	Cloudy	Calm	08:40	5	Surface	1	25.2	25.2	8.2	8.2	33.0	33.0	96.9	96.8	6.6	6.6	6.6	0.8	0.8	0.8	8	8.0	6.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-	-	-
					Bottom	4	25.3	25.3	8.2	8.2	33.1	33.1	94.4	94.3	6.4	6.4		6.4	0.8		0.8	0.8		4	4.0		
6-May-24	Fine	Calm	12:26	3.9	Surface	1	25.6	25.6	8.3	8.3	32.2	32.2	104.4	104.6	7.1	7.1	7.1	0.4	0.4	0.5	3	3.0	3.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-	-	
					Bottom	2.9	25.5	25.5	8.3	8.3	32.4	32.6	104.4	104.7	7.1	7.1		7.1	0.5		0.5	0.5		3	3.0		
8-May-24	Sunny	Calm	12:29	5.9	Surface	1	25.5	25.5	8.3	8.3	32.4	32.4	106.9	107.2	7.3	7.3	7.3	0.3	0.3	0.5	7	7.0	7.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	4.9	25.5	25.5	8.3	8.3	32.6	32.6	107.0	106.5	7.3	7.3		7.3	0.7		0.7	0.7		7	7.0		
10-May-24	Fine	Calm	14:41	4.4	Surface	1	25.6	25.6	8.3	8.3	32.9	32.9	100.7	101.2	6.8	6.9	6.9	0.4	0.4	0.6	12	12.0	11.3				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.4	25.3	25.3	8.3	8.3	33.0	33.0	103.2	103.0	7.0	7.0		7.0	0.7		0.7	0.7		10	10.5		
13-May-24	Cloudy	Calm	17:15	4.8	Surface	1	25.8	25.8	8.3	8.3	33.0	33.0	104.2	104.6	7.0	7.1	7.1	0.5	0.5	0.6	7	6.5	11.3				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.8	25.6	25.6	8.3	8.3	33.1	33.1	105.5	105.5	7.1	7.2		7.2	0.6		0.6	0.6		16	16.0		
20-May-24	Rainy	Calm	10:41	4.7	Surface	1	25.6	25.6	8.2	8.2	33.3	33.3	92.7	92.5	6.3	6.3	6.3	0.9	0.9	1.1	5	5.5	10.5				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.7	25.6	25.6	8.2	8.2	33.3	33.3	86.6	86.3	5.9	5.8		5.9	1.2		1.2	1.2		16	15.5		
22-May-24	Cloudy	Calm	12:46	4.7	Surface	1	25.7	25.7	8.1	8.1	32.8	32.9	88.5	88.5	6.0	6.0	6.0	0.7	0.7	0.9	12	12.0	9.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.7	25.6	25.6	8.1	8.1	33.1	33.1	89.0	87.9	6.0	6.0		6.0	1.0		1.0	1.0		6	6.0		
24-May-24	Rainy	Calm	11:40	5.4	Surface	1	25.7	25.7	8.2	8.2	32.7	32.9	92.7	92.2	6.3	6.3	6.3	0.6	0.6	0.8	3	3.0	10.5				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	4.4	25.7	25.7	8.2	8.2	33.1	33.1	90.4	90.2	6.1	6.1		6.1	0.9		0.9	0.9		18	18.0		
27-May-24	Cloudy	Calm	14:35	5.8	Surface	1	26.9	26.9	8.2	8.2	31.3	31.3	102.4	102.4	6.9	6.9	6.9	0.5	0.5	0.6	7	7.0	9.3				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	4.8	26.6	26.6	8.2	8.2	32.1	32.1	99.7	98.7	6.7	6.6		6.7	0.7		0.6	0.7		12	11.5		
29-May-24	Fine	Calm	16:01	5.8	Surface	1	25.9	25.9	8.2	8.2	32.6	32.6	100.6	100.6	6.8	6.8	6.8	0.8	0.8	0.9	6	6.0	4.8				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	4.8	25.9	25.9	8.2	8.2	32.7	32.7	98.0	98.0	6.6	6.6		6.6	0.9		0.9	0.9		3	3.5		

Remarks: *DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L for the calculation of depth-averaged value.

Contract No. CV/2022/03

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

Water Quality Monitoring Results at IM1 - Mid-Flood 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	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
3-May-24	Cloudy	Calm	14:05	5.7	Surface	1	25.2	25.2	8.2	8.2	33.0	33.0	98.5	98.7	6.7	6.7	6.7	0.8	0.8	0.9	5	5.0	4.8				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-	-	-
					Bottom	4.7	25.3	25.3	8.2	8.2	33.1	33.1	92.8	92.7	6.3	6.3		6.3	1.0		1.0	4		4.5			
6-May-24	Fine	Calm	15:59	4.3	Surface	1	26.1	26.1	8.3	8.3	32.2	32.3	108.5	108.5	7.3	7.3	7.3	0.5	0.5	0.6	9	9.0	6.5				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-	-	
					Bottom	3.3	25.5	25.5	8.3	8.3	32.7	32.7	109.3	109.7	7.4	7.5		7.5	0.7		0.7	4		4.0			
8-May-24	Sunny	Calm	18:30	4.8	Surface	1	25.7	25.7	8.3	8.3	32.5	32.5	111.7	111.9	7.6	7.6	7.6	0.6	0.6	0.7	3	3.0	3.3				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.8	25.5	25.5	8.3	8.3	32.6	32.6	113.0	112.9	7.7	7.7		7.7	0.7		0.7	3		3.5			
17-May-24	Sunny	Calm	07:46	4.9	Surface	1	25.9	25.9	8.1	8.1	33.0	33.0	97.6	97.2	6.6	6.6	6.6	0.6	0.6	0.7	4	4.5	6.5				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.9	25.9	25.9	8.1	8.1	33.0	33.0	91.1	89.9	6.2	6.1		6.2	0.6		0.7	8		8.5			
20-May-24	Rainy	Calm	17:36	4.6	Surface	1	25.6	25.6	8.2	8.2	33.3	33.3	91.8	91.5	6.2	6.2	6.2	0.7	0.7	0.8	5	5.0	4.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.6	25.6	25.6	8.2	8.2	33.3	33.3	86.8	86.4	5.9	5.9		5.9	0.7		0.8	3		3.0			
22-May-24	Cloudy	Calm	18:26	4.1	Surface	1	25.8	25.8	8.1	8.1	32.8	32.9	91.5	91.3	6.2	6.2	6.2	0.7	0.7	0.8	7	7.0	6.5				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.1	25.6	25.6	8.1	8.1	33.0	33.0	88.3	88.5	6.0	6.0		6.0	0.8		0.8	6		6.0			
31-May-24	Rainy	Calm	12:42	4.9	Surface	1	26.1	26.2	8.2	8.2	33.2	33.2	95.0	94.8	6.4	6.4	6.4	0.8	0.8	1.2	9	9.0	10.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-		
					Bottom	3.9	26.0	26.0	8.2	8.2	33.3	33.3	93.6	93.3	6.3	6.3		6.3	1.5		1.4	11		11.0			

Remarks: *DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
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Contract No. CV/2022/03

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

Water Quality Monitoring Results at IM2 - 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*	
3-May-24	Cloudy	Calm	08:30	2.6	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.3	25.3 25.3	25.3	8.2 8.2	8.2	33.1 33.0	33.1	93.8 93.6	93.7	6.4 6.4	6.4	6.4	6.4	0.7 0.7	0.7	0.7	7 6	6.5	6.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-May-24	Fine	Calm	12:18	1.6	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	0.8	25.9 25.9	25.9	8.2 8.2	8.2	32.0 31.7	31.9	103.5 104.3	103.9	7.0 7.1	7.1	7.1	7.1	0.6 0.6	0.6	0.6	4 4	4.0	4.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-May-24	Sunny	Calm	12:24	2.8	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.4	25.6 25.6	25.6	8.3 8.3	8.3	32.5 32.5	32.5	108.6 109.1	108.9	7.4 7.4	7.4	7.4	7.4	0.7 0.7	0.7	0.7	5 5	5.0	5.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-May-24	Fine	Calm	14:37	2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1	25.5 25.5	25.5	8.3 8.3	8.3	32.9 32.9	32.9	102.2 102.7	102.5	6.9 7.0	7.0	7.0	7.0	0.4 0.4	0.4	0.4	9 9	9.0	9.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-May-24	Cloudy	Calm	17:08	2.2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.1	25.8 25.8	25.8	8.3 8.3	8.3	33.0 33.0	33.0	103.8 104.4	104.1	7.0 7.1	7.1	7.1	7.1	0.5 0.5	0.5	0.5	8 9	8.5	8.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-May-24	Rainy	Calm	10:30	2.6	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.3	25.6 25.6	25.6	8.2 8.2	8.2	33.3 33.9	33.6	93.0 93.0	93.0	6.3 6.3	6.3	6.3	6.3	1.0 1.0	1.0	1.0	11 11	11.0	11.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-May-24	Cloudy	Calm	12:40	2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1	25.7 25.7	25.7	8.1 8.1	8.1	33.0 33.0	33.0	91.9 91.7	91.8	6.2 6.2	6.2	6.2	6.2	0.7 0.7	0.7	0.7	11 11	11.0	11.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24-May-24	Rainy	Calm	11:30	2.6	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.3	25.7 25.7	25.7	8.2 8.2	8.2	33.0 33.0	33.0	87.7 87.5	87.6	5.9 5.9	5.9	5.9	5.9	0.5 0.5	0.5	0.5	7 7	7.0	7.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-May-24	Cloudy	Calm	14:30	2.8	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.4	26.7 26.7	26.7	8.2 8.2	8.2	31.5 31.5	31.5	100.2 100.3	100.3	6.7 6.7	6.7	6.7	6.7	0.4 0.4	0.4	0.4	11 11	11.0	11.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29-May-24	Fine	Calm	15:54	2.8	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.4	25.9 25.9	25.9	8.2 8.2	8.2	32.5 32.6	32.6	99.3 99.6	99.5	6.7 6.7	6.7	6.7	6.7	0.9 0.9	0.9	0.9	4 3	3.5	3.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks: *DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L for the calculation of depth-averaged value.

Contract No. CV/2022/03

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- Leung Shuen Wan Pier

Water Quality Monitoring Results at IM2 - Mid-Flood 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*	
3-May-24	Cloudy	Calm	14:00	2.8	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.4	25.2	25.2	8.2	8.2	33.0	33.1	98.6	98.5	6.7	6.7	6.7	0.8	0.8	0.8	10	10	10.0	10.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-May-24	Fine	Calm	15:54	2.2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.1	26.8	26.9	8.2	8.2	31.7	31.8	108.6	109.4	7.3	7.3	7.3	0.5	0.5	0.5	4	5	4.5	4.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-May-24	Sunny	Calm	18:25	1.8	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	0.9	25.8	25.8	8.3	8.3	32.5	32.5	110.8	111.3	7.5	7.6	7.6	0.6	0.6	0.6	8	8	8.0	8.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-May-24	Sunny	Calm	07:41	2.2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.1	25.9	25.9	8.1	8.1	33.0	33.0	91.3	90.8	6.2	6.1	6.2	0.7	0.7	0.7	13	13	13.0	13.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-May-24	Rainy	Calm	17:30	2.2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.1	25.6	25.6	8.2	8.2	33.3	33.3	89.6	89.0	6.1	6.0	6.1	0.6	0.6	0.6	8	7	7.5	7.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-May-24	Cloudy	Calm	18:21	2	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1	25.7	25.7	8.1	8.1	32.9	32.9	92.3	91.7	6.2	6.2	6.2	0.7	0.7	0.7	11	10	10.5	10.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31-May-24	Rainy	Calm	12:38	2.4	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	1.2	26.2	26.2	8.2	8.2	33.2	33.2	94.7	94.4	6.4	6.3	6.4	1.4	1.4	1.4	5	6	5.5	5.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks: *DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L for the calculation of depth-averaged value.