

Annex B

## Monitoring Results

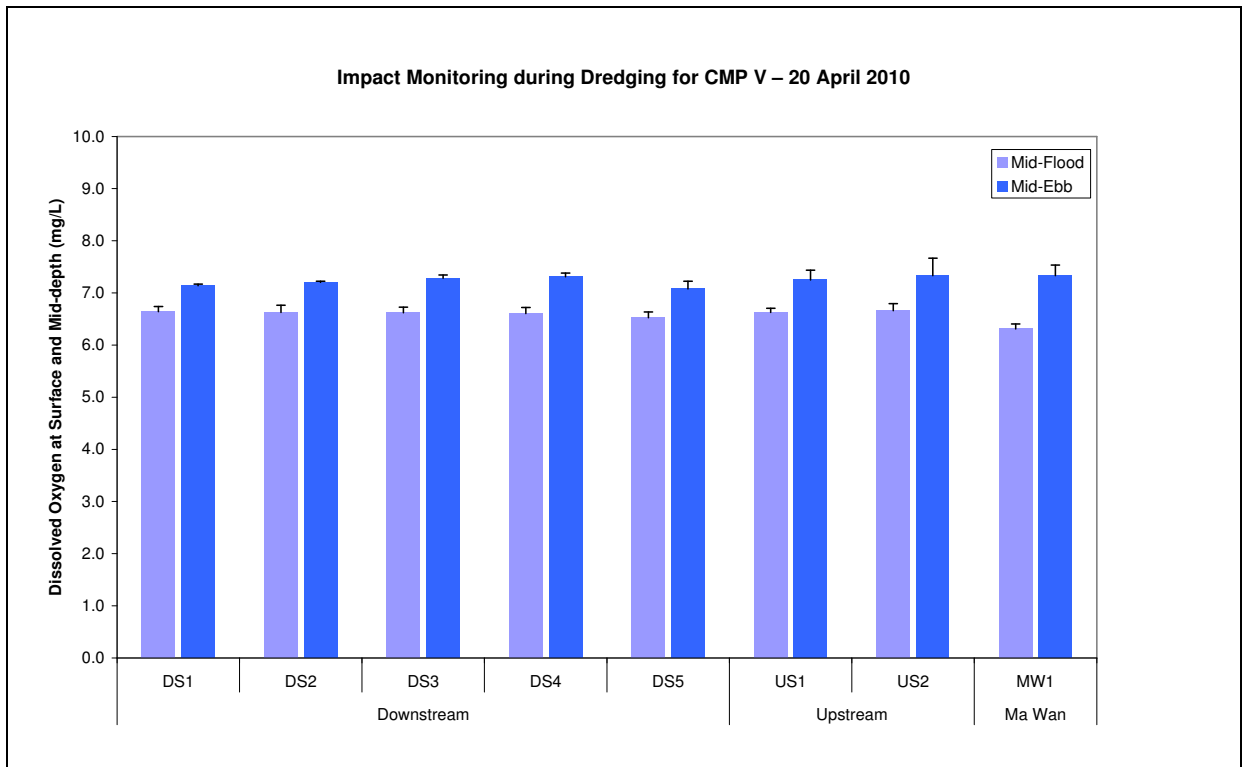


Figure 1: Surface and Mid Depth Averaged DO Level (mean  $\pm$  SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 20 April 2010.

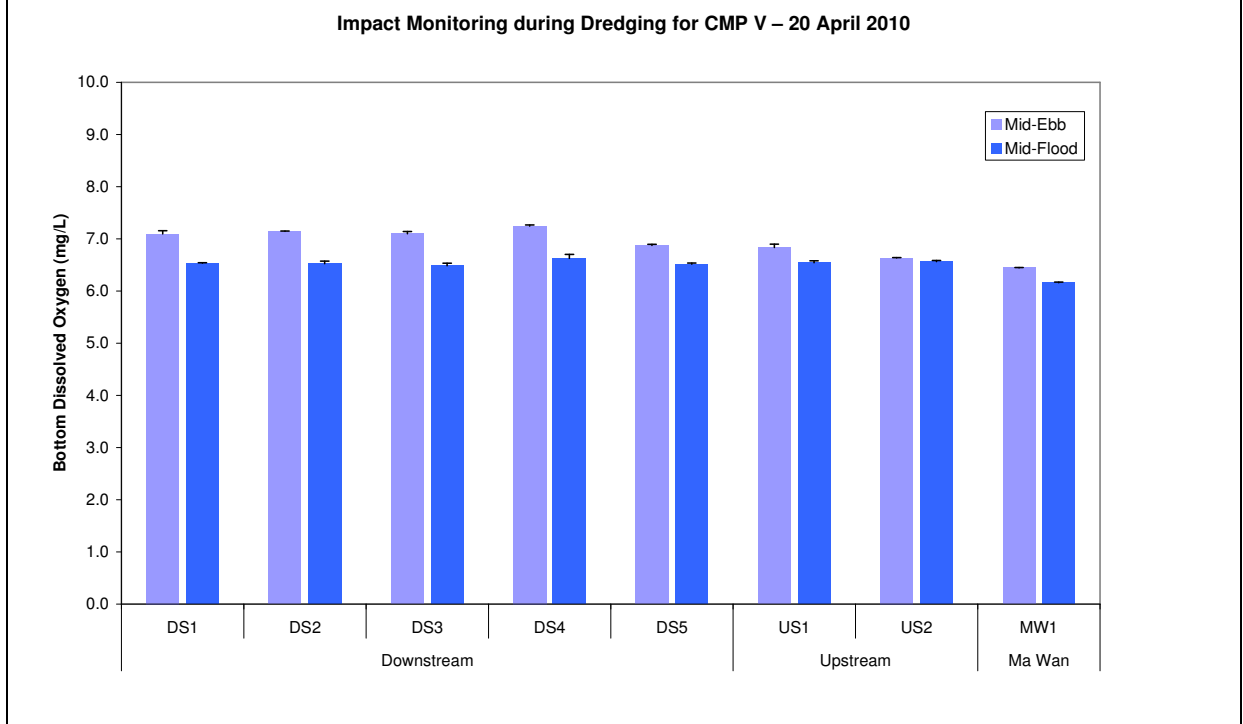


Figure 2: Bottom DO Level (mean  $\pm$  SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 20 April 2010.

Impact Monitoring during Dredging for CMP V – 20 April 2010

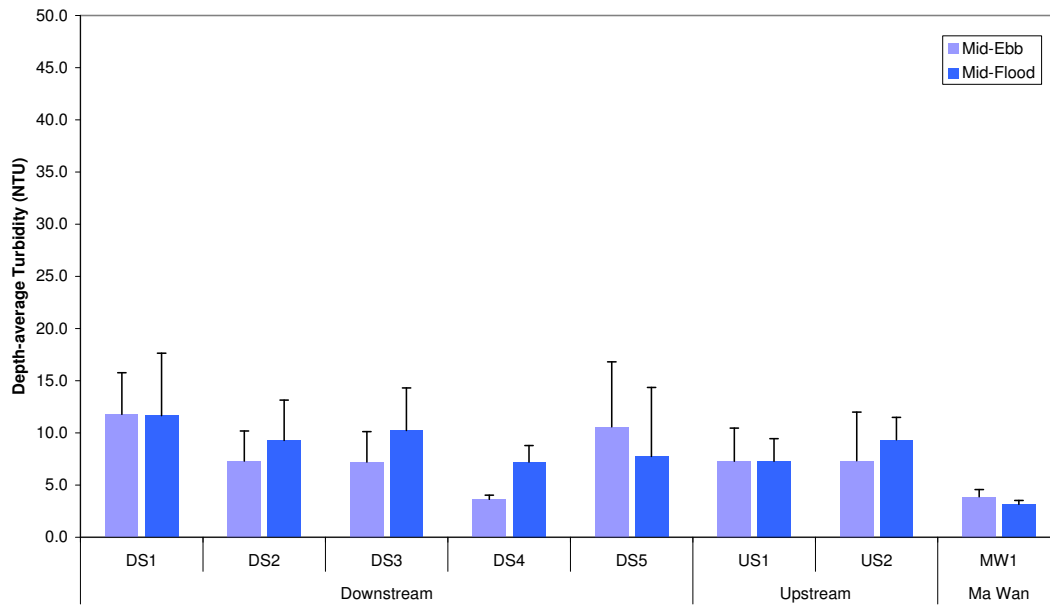


Figure 3: Depth-average Turbidity (mean  $\pm$  SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 20 April 2010.

Impact Monitoring during Dredging for CMP V – 20 April 2010

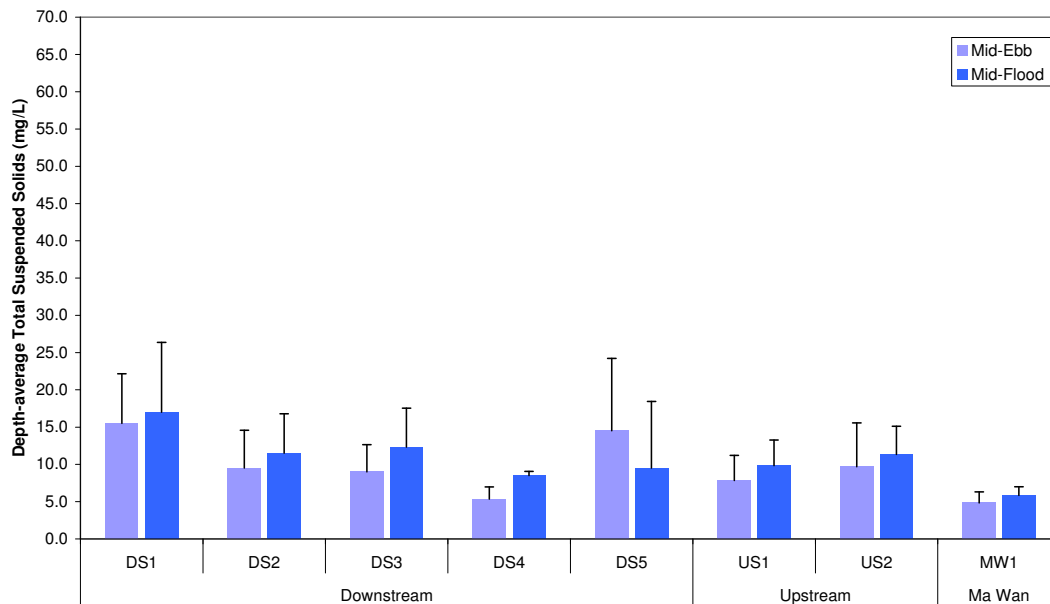


Figure 4: Depth-average Suspended Solids (mean  $\pm$  SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 20 April 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact Monitoring during Dredging\Apr 2010

Date: 17/05/2010

**Environmental  
Resources  
Management**



Table B1: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 20 April 2010

Station	Downstream (Impact)		
Time (hh:mm)	16:06-16:48		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	7.20	7.09
Turbidity (NTU)	8.10	N/A	N/A
SS (mg/L)	10.77	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	15:45-16:00		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	7.29	6.74
Turbidity (NTU)	7.31	N/A	N/A
SS (mg/L)	8.75	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	17:35-17:40		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.51	6.45
Turbidity (NTU)	3.88	N/A	N/A
SS (mg/L)	4.83	N/A	N/A
Remarks			

Compliance with Action and Limit Levels

Parameter	Action Level		Limit Level		Mean Value at Impact Stations	Mean Value at Reference Stations	Compliance with Action level	Compliance with Limit Level
	Impact Stations	Comparison between I and R <sup>(a)</sup>	Mean Value at Impact Stations	Comparison between I and R <sup>(a)</sup>				
DO (Bottom)	< 2.96	R significantly greater than I (t-test, p < 0.05)	< 2.00	R significantly greater than I (t-test, p < 0.05)	7.09	6.74	Y	Y
DO (Surface and Mid Depth)	< 3.76	R significantly greater than I (t-test, p < 0.05)	< 3.11	R significantly greater than I (t-test, p < 0.05)	7.20	7.29	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R ( 8.77 )	> 38.32	I ≥ 1.3 R ( 9.50 )	8.10	7.31	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R ( 10.50 )	> 61.92	I ≥ 1.3 R ( 11.38 )	10.77	8.75	Y	Y

Table B2: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 20 April 2010

Station	Downstream (Impact)		
Time (hh:mm)	09:52 - 10:35		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.60	6.54
Turbidity (NTU)	9.22	N/A	N/A
SS (mg/L)	11.77	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	10:40 - 10:53		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.64	6.56
Turbidity (NTU)	8.31	N/A	N/A
SS (mg/L)	10.58	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	08:22 - 08:27		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.31	6.16
Turbidity (NTU)	3.15	N/A	N/A
SS (mg/L)	5.83	N/A	N/A
Remarks			

Compliance with Action and Limit Levels

Parameter	Action Level		Limit Level		Mean Value at Impact Stations	Mean Value at Reference Stations	Compliance with Action level	Compliance with Limit Level
	Mean Value at Impact Stations	Comparison between I and R <sup>(a)</sup>	Mean Value at Impact Stations	Comparison between I and R <sup>(a)</sup>				
DO (Bottom)	< 2.96	R significantly greater than I (t-test, p < 0.05)	< 2.00	R significantly greater than I (t-test, p < 0.05)	6.54	6.6	Y	Y
DO (Surface and Mid Depth)	< 3.76	R significantly greater than I (t-test, p < 0.05)	< 3.11	R significantly greater than I (t-test, p < 0.05)	6.60	6.64	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R ( 9.97 )	> 38.32	I ≥ 1.3 R ( 10.80 )	9.22	8.31	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R ( 12.70 )	> 61.92	I ≥ 1.3 R ( 13.76 )	11.77	10.58	Y	Y

Note: (a) I = Impact; R = Reference Stations