

Annex B

Monitoring Results

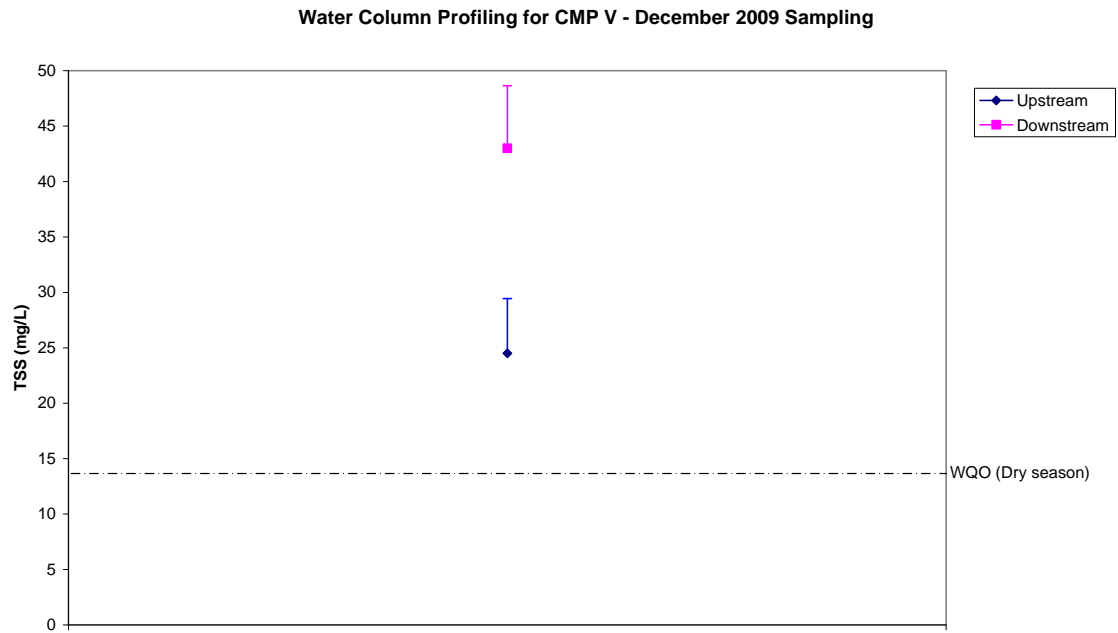


Figure 1: Levels of Total Suspended Solids (mean \pm SD) during Water Column Profiling for CMP V in December 2009.

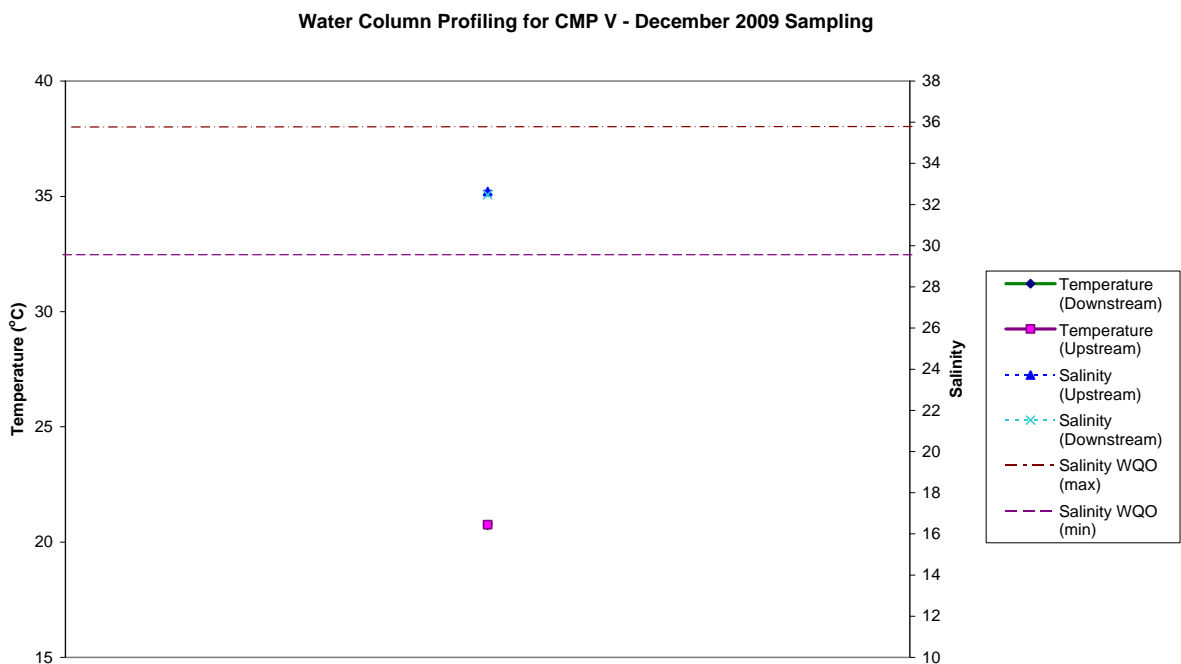


Figure 2: Salinity and Temperature (mean \pm SD) during Water Column Profiling for CMP V in December 2009.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contract Submission (LAM)\06. 12 Water Column Profiling CMP V\Dec 2009

Date: 10/01/2010

Environmental Resources Management



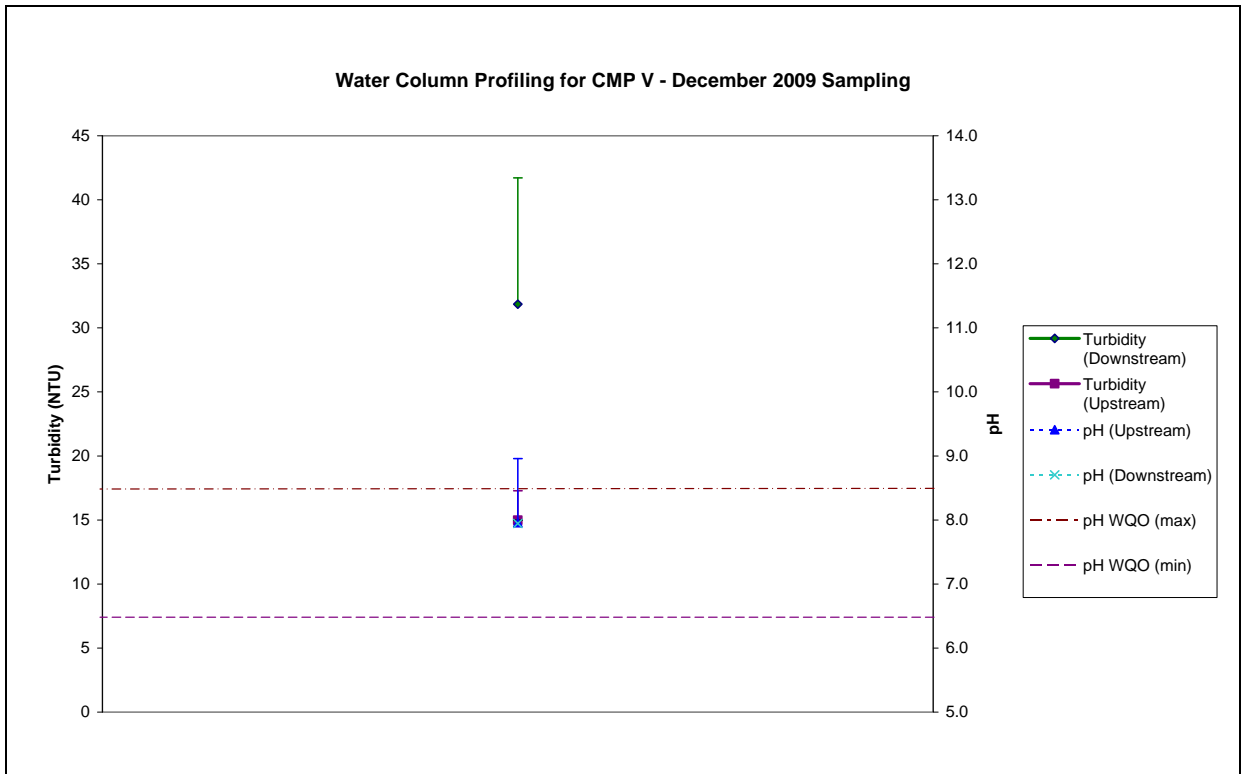


Figure 3: Turbidity and pH (mean \pm SD) during Water Column Profiling for CMP V in December 2009.

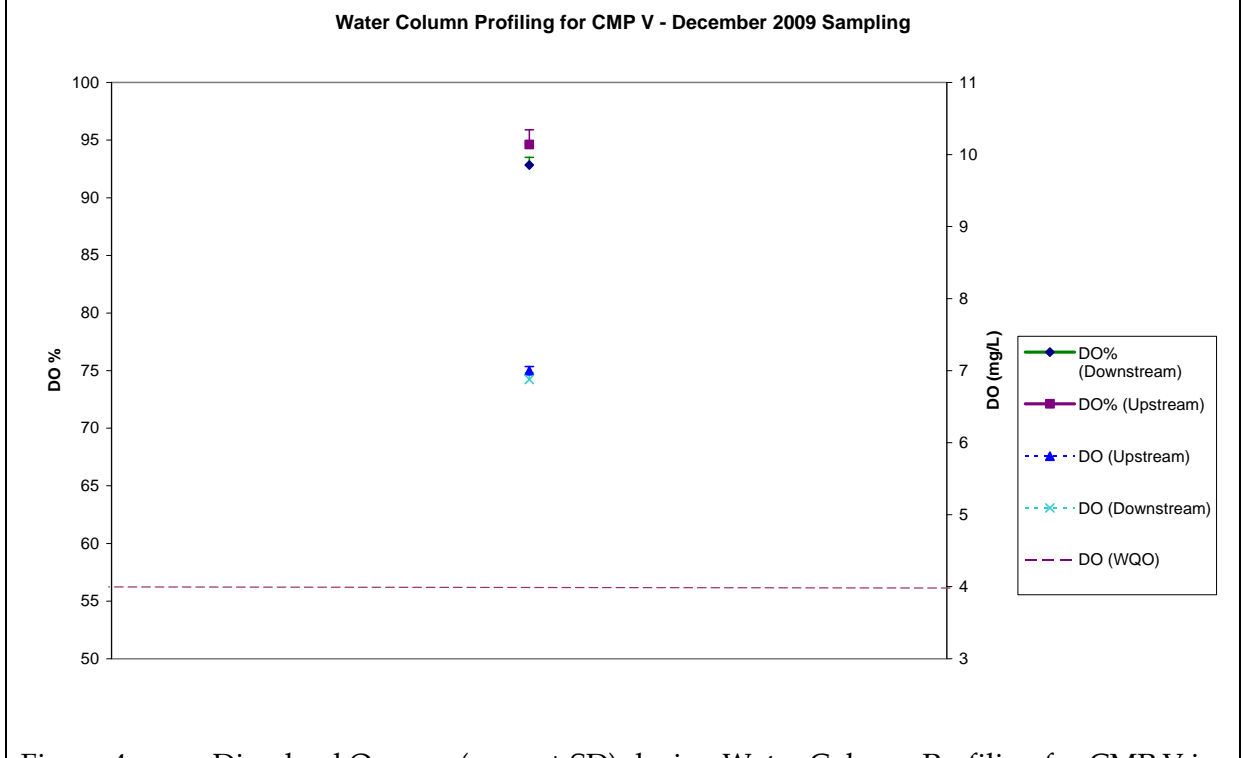


Figure 4: Dissolved Oxygen (mean \pm SD) during Water Column Profiling for CMP V in December 2009.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contract Submission (LAM)\06. 12 Water Column Profiling CMP V\Dec 2009

Date: 10/01/2010

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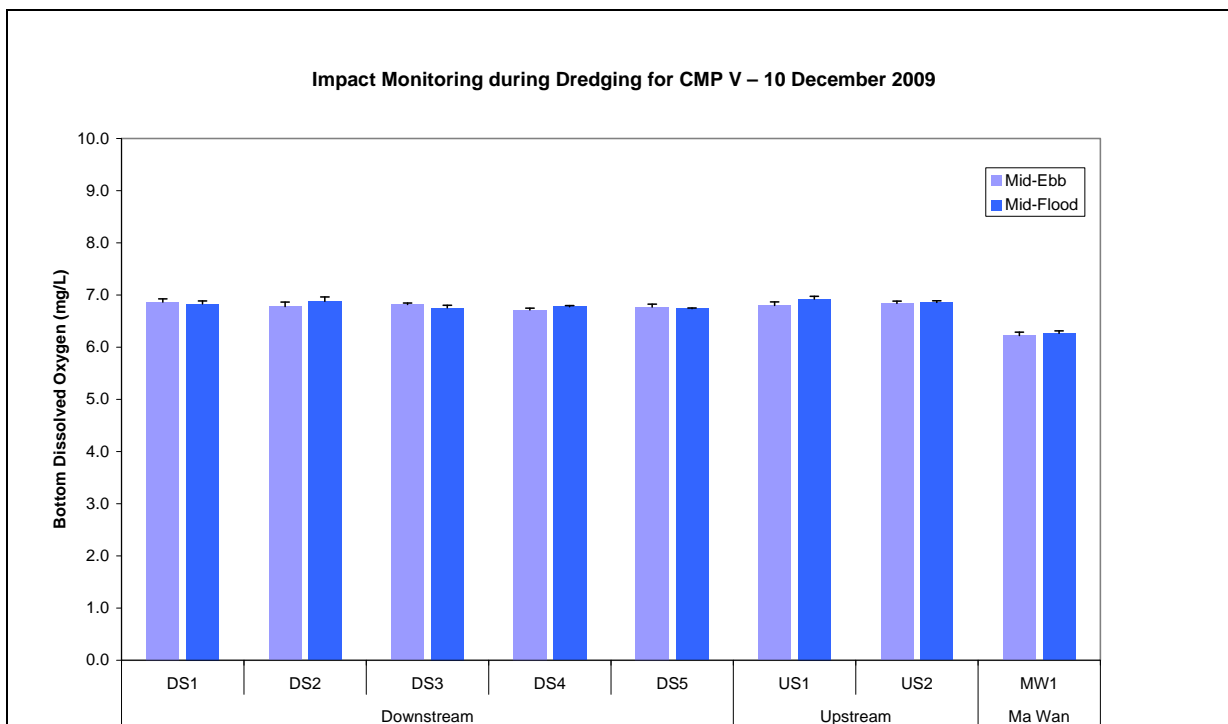


Figure 5: Bottom DO Level (mean \pm SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 10 December 2009.

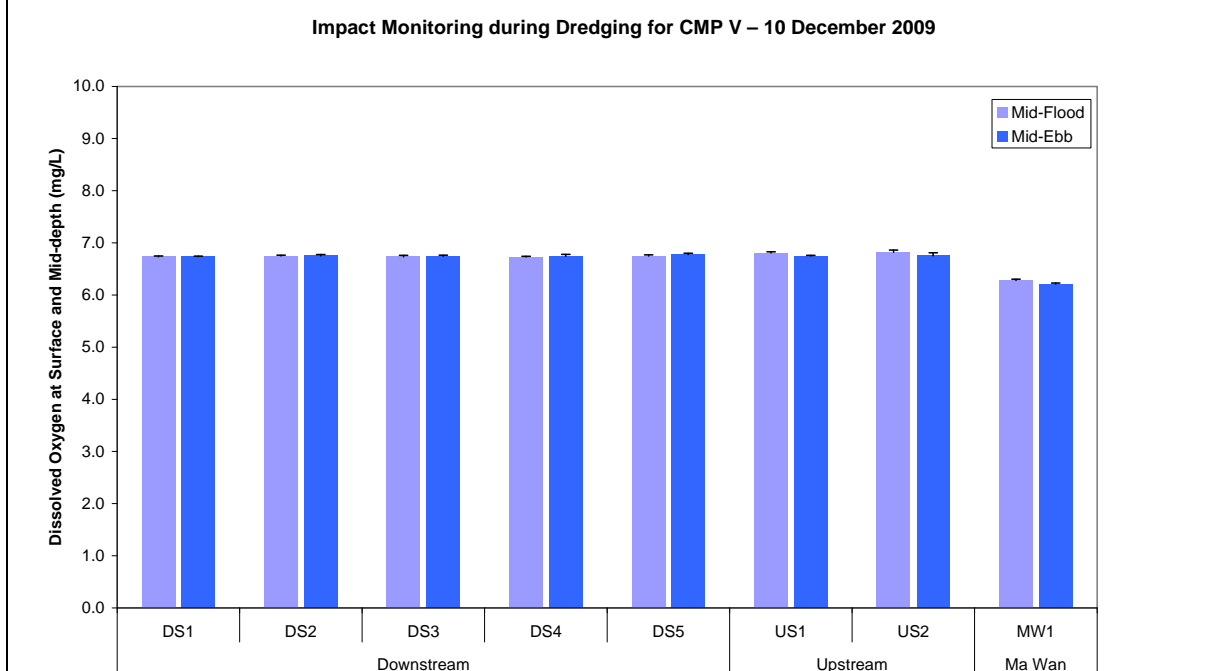


Figure 6: DO Level at Surface and Mid-depth (mean \pm SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 10 December 2009.

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

Date: 10/01/2010

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Impact Monitoring during Dredging for CMP V – 10 December 2009

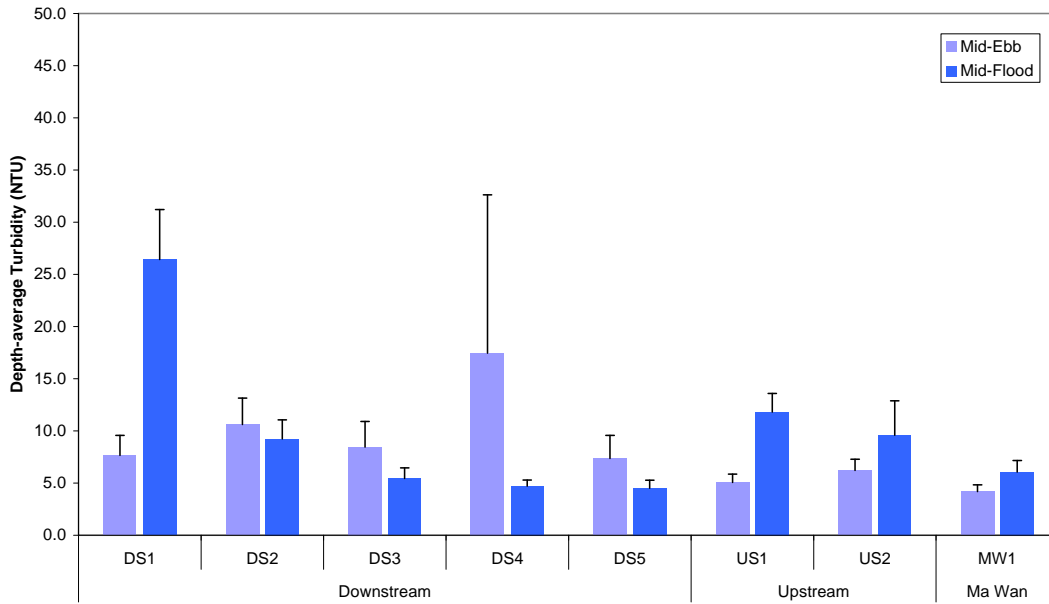


Figure 7: Depth-average Turbidity (mean \pm SD) at Downstream (DS1, DS2, DS3, DS4 and DS5 stations), Upstream (US1 and US2 stations) and Ma Wan (MW1 station) during Impact Monitoring for Dredging on 10 December 2009.

Impact Monitoring during Dredging for CMP V – 10 December 2009

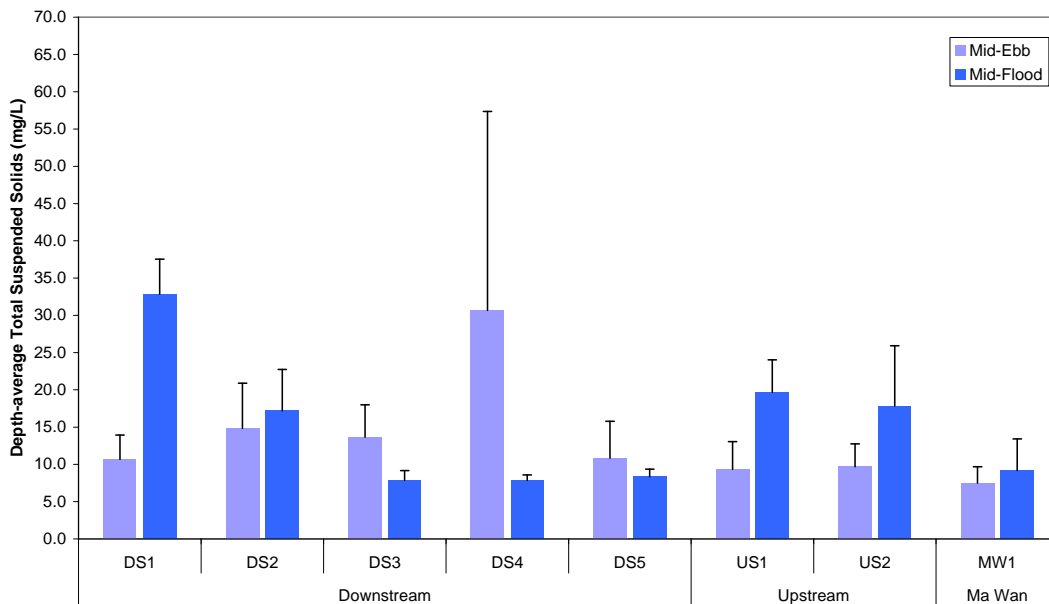


Figure 8: Depth-average Total Suspended Solids (mean \pm SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging on 10 December 2009.

Table B1: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 10 December 2009

Station	Downstream (Impact)		
Time (hh:mm)	06:07 - 08:35		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.74	6.79
Turbidity (NTU)	10.30	N/A	N/A
SS (mg/L)	16.13	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	06:07 - 08:35		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.75	6.8
Turbidity (NTU)	5.63	N/A	N/A
SS (mg/L)	9.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	06:07 - 08:35		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.21	6.23
Turbidity (NTU)	4.19	N/A	N/A
SS (mg/L)	7.50	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 ^(a)	Mean Value at Impact Stations	Comparison between I and R ^(a)				
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)	6.79	6.82	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)	6.74	6.75	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (6.76)	> 38.32	I ≥ 1.3 R (7.32)	10.30	5.63	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (11.40)	> 61.92	I ≥ 1.3 R (12.35)	16.13	9.50	Y	Y

Table B2: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 10 December 2009

Station	Downstream (Impact)		
Time (hh:mm)	12:55 - 15:06		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.74	6.80
Turbidity (NTU)	10.06	N/A	N/A
SS (mg/L)	14.80	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	12:55 - 15:06		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.82	6.9
Turbidity (NTU)	10.70	N/A	N/A
SS (mg/L)	18.75	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	12:55 - 15:06		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.28	6.27
Turbidity (NTU)	6.07	N/A	N/A
SS (mg/L)	9.17	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 ^(a)	Mean Value at Impact Stations	Comparison between I and R ^(a)				
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)	6.80	6.89	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)	6.74	6.82	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (12.83)	> 38.32	I ≥ 1.3 R (13.90)	10.06	10.70	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (22.50)	> 61.92	I ≥ 1.3 R (24.38)	14.80	18.75	Y	Y

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