

Table B1: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 9 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	09:34-12:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.86	6.01
Turbidity (NTU)	5.11	N/A	N/A
SS (mg/L)	7.93	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	09:34-12:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.59	5.71
Turbidity (NTU)	5.46	N/A	N/A
SS (mg/L)	7.58	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	09:34-12:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.27	5.95
Turbidity (NTU)	0.85	N/A	N/A
SS (mg/L)	4.00	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)	6.01	5.71	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)	6.86	6.59	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (6.55)	> 38.32	I ≥ 1.3 R (7.10)	5.11	5.46	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (9.10)	> 61.92	I ≥ 1.3 R (9.86)	7.93	7.58	Y	Y

Table B2: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 9 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	16:23-18:21		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.61	6.33
Turbidity (NTU)	4.51	N/A	N/A
SS (mg/L)	5.73	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	16:23-18:21		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	7.13	6.68
Turbidity (NTU)	5.01	N/A	N/A
SS (mg/L)	7.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	16:23-18:21		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.44	6.23
Turbidity (NTU)	2.15	N/A	N/A
SS (mg/L)	3.67	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)	6.33	6.68	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)	6.61	7.13	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (6.01)	> 38.32	I ≥ 1.3 R (6.51)	4.51	5.01	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (9.00)	> 61.92	I ≥ 1.3 R (9.75)	5.73	7.50	Y	Y

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

Table B3: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 12 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	11:46-15:00		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.87	5.83
Turbidity (NTU)	7.14	N/A	N/A
SS (mg/L)	9.47	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	11:46-15:00		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.70	5.60
Turbidity (NTU)	4.78	N/A	N/A
SS (mg/L)	7.08	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	11:46-15:00		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.25	5.81
Turbidity (NTU)	1.97	N/A	N/A
SS (mg/L)	5.17	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
	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)	5.83	5.60	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)	5.87	5.70	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (5.74)	> 38.32	I ≥ 1.3 R (6.22)	7.14	4.78	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (8.50)	> 61.92	I ≥ 1.3 R (9.21)	9.47	7.08	Y	Y

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

Table B4: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 12 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	18:56-21:09		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.33	5.22
Turbidity (NTU)	8.13	N/A	N/A
SS (mg/L)	10.77	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	18:56-21:09		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.04	5.69
Turbidity (NTU)	7.46	N/A	N/A
SS (mg/L)	11.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	18:56-21:09		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.70	5.77
Turbidity (NTU)	4.58	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 ^(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)	5.22	5.69	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)	5.33	6.04	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (8.95)	> 38.32	I ≥ 1.3 R (9.70)	8.13	7.46	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (13.80)	> 61.92	I ≥ 1.3 R (14.95)	10.77	11.50	Y	Y

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

Table B5: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 17 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	15:39-17:40		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.20	5.59
Turbidity (NTU)	8.88	N/A	N/A
SS (mg/L)	10.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	15:39-17:40		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.48	5.76
Turbidity (NTU)	9.43	N/A	N/A
SS (mg/L)	12.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	15:39-17:40		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.94	6.25
Turbidity (NTU)	2.57	N/A	N/A
SS (mg/L)	3.50	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)	5.59	5.76	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)	6.20	6.48	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (11.32)	> 38.32	I ≥ 1.3 R (12.26)	8.88	9.43	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (15.00)	> 61.92	I ≥ 1.3 R (16.25)	10.50	12.50	Y	Y

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

Table B6: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 17 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	08:20-11:18		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.86	5.66
Turbidity (NTU)	6.30	N/A	N/A
SS (mg/L)	6.43	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	08:20-11:18		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.93	5.75
Turbidity (NTU)	5.20	N/A	N/A
SS (mg/L)	6.17	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	08:20-11:18		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.91	5.46
Turbidity (NTU)	3.48	N/A	N/A
SS (mg/L)	4.67	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)	5.66	5.75	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)	5.86	5.93	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (6.24)	> 38.32	I ≥ 1.3 R (6.76)	6.30	5.20	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (7.40)	> 61.92	I ≥ 1.3 R (8.02)	6.43	6.17	Y	Y

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

Table B7: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 19 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	17:26-19:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.03	4.85
Turbidity (NTU)	8.97	N/A	N/A
SS (mg/L)	11.00	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	17:26-19:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.56	4.74
Turbidity (NTU)	7.88	N/A	N/A
SS (mg/L)	8.08	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	17:26-19:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.69	5.14
Turbidity (NTU)	3.43	N/A	N/A
SS (mg/L)	3.00	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)	4.85	4.74	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)	6.03	5.56	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (9.45)	> 38.32	I ≥ 1.3 R (10.24)	8.97	7.88	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (9.70)	> 61.92	I ≥ 1.3 R (10.51)	11.00	8.08	Y	Y

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

Table B8: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 19 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	10:52-13:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.76	5.24
Turbidity (NTU)	8.59	N/A	N/A
SS (mg/L)	8.47	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	10:52-13:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.46	5.57
Turbidity (NTU)	7.59	N/A	N/A
SS (mg/L)	8.25	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	10:52-13:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.82	4.75
Turbidity (NTU)	4.68	N/A	N/A
SS (mg/L)	5.20	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)	5.24	5.57	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)	5.76	6.46	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (9.11)	> 38.32	I ≥ 1.3 R (9.87)	8.59	7.59	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (9.90)	> 61.92	I ≥ 1.3 R (10.73)	8.47	8.25	Y	Y

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

Table B9: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 21 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	07:49-10:44		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.61	4.64
Turbidity (NTU)	7.87	N/A	N/A
SS (mg/L)	7.67	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	07:49-10:44		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.59	4.42
Turbidity (NTU)	6.18	N/A	N/A
SS (mg/L)	5.50	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	07:49-10:44		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.07	4.68
Turbidity (NTU)	3.35	N/A	N/A
SS (mg/L)	4.33	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)	4.64	4.42	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)	5.61	5.59	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (7.41)	> 38.32	I ≥ 1.3 R (8.03)	7.87	6.18	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (6.60)	> 61.92	I ≥ 1.3 R (7.15)	7.67	5.50	Y	Y

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

Table B10: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 21 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	14:07-16:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.81	5.15
Turbidity (NTU)	7.31	N/A	N/A
SS (mg/L)	7.80	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	14:07-16:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.07	5.04
Turbidity (NTU)	7.83	N/A	N/A
SS (mg/L)	6.58	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	14:07-16:34		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.55	4.19
Turbidity (NTU)	3.17	N/A	N/A
SS (mg/L)	5.17	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)	5.15	5.04	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)	5.81	6.07	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (9.39)	> 38.32	I ≥ 1.3 R (10.17)	7.31	7.83	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (7.90)	> 61.92	I ≥ 1.3 R (8.56)	7.80	6.58	Y	Y

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

Table B11: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 23 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	09:31-12:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.21	4.10
Turbidity (NTU)	9.80	N/A	N/A
SS (mg/L)	9.20	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	09:31-12:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.39	4.44
Turbidity (NTU)	7.15	N/A	N/A
SS (mg/L)	6.58	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	09:31-12:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.36	4.22
Turbidity (NTU)	4.88	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
	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)	4.10	4.44	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)	5.21	5.39	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (8.58)	> 38.32	I ≥ 1.3 R (9.30)	9.80	7.15	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (7.90)	> 61.92	I ≥ 1.3 R (8.56)	9.20	6.58	Y	Y

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

Table B12: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 23 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	17:04-19:10		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.34	4.75
Turbidity (NTU)	9.68	N/A	N/A
SS (mg/L)	9.37	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	17:04-19:10		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.53	4.72
Turbidity (NTU)	12.59	N/A	N/A
SS (mg/L)	13.58	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	17:04-19:10		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.01	4.09
Turbidity (NTU)	6.28	N/A	N/A
SS (mg/L)	7.67	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)	4.75	4.72	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)	5.34	5.53	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (15.11)	> 38.32	I ≥ 1.3 R (16.37)	9.68	12.59	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (16.30)	> 61.92	I ≥ 1.3 R (17.66)	9.37	13.58	Y	Y

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

Table B13: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 25 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	10:59-14:01		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.90	4.62
Turbidity (NTU)	12.33	N/A	N/A
SS (mg/L)	13.03	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	10:59-14:01		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.86	4.60
Turbidity (NTU)	11.34	N/A	N/A
SS (mg/L)	11.42	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	10:59-14:01		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.16	4.20
Turbidity (NTU)	4.92	N/A	N/A
SS (mg/L)	5.00	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)	4.62	4.60	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)	5.90	5.86	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (13.61)	> 38.32	I ≥ 1.3 R (14.74)	12.33	11.34	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (13.70)	> 61.92	I ≥ 1.3 R (14.84)	13.03	11.42	Y	Y

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

Table B14: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 25 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	18:31-20:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.68	5.09
Turbidity (NTU)	13.07	N/A	N/A
SS (mg/L)	12.47	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	18:31-20:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	6.17	5.82
Turbidity (NTU)	14.99	N/A	N/A
SS (mg/L)	16.17	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	18:31-20:37		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.41	3.94
Turbidity (NTU)	8.95	N/A	N/A
SS (mg/L)	9.83	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 ^(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)	5.09	5.82	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)	5.68	6.17	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (17.99)	> 38.32	I ≥ 1.3 R (19.49)	13.07	14.99	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (19.40)	> 61.92	I ≥ 1.3 R (21.02)	12.47	16.17	Y	Y

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

Table B15: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 28 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	13:12-15:11		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.91	4.27
Turbidity (NTU)	14.30	N/A	N/A
SS (mg/L)	18.23	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	13:12-15:11		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.71	3.86
Turbidity (NTU)	18.80	N/A	N/A
SS (mg/L)	22.00	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	13:12-15:11		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.04	4.51
Turbidity (NTU)	6.75	N/A	N/A
SS (mg/L)	7.83	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 ^(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)	4.27	3.86	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)	4.91	4.71	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (22.56)	> 38.32	I ≥ 1.3 R (24.44)	14.30	18.80	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (26.40)	> 61.92	I ≥ 1.3 R (28.60)	18.23	22.00	Y	Y

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

Table B16: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 28 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	05:42-08:26		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.88	4.35
Turbidity (NTU)	9.03	N/A	N/A
SS (mg/L)	8.97	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	05:42-08:26		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.75	4.36
Turbidity (NTU)	10.17	N/A	N/A
SS (mg/L)	11.92	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	05:42-08:26		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.47	3.66
Turbidity (NTU)	5.35	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 ^(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)	4.35	4.36	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)	4.88	4.75	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (12.20)	> 38.32	I ≥ 1.3 R (13.22)	9.03	10.17	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (14.30)	> 61.92	I ≥ 1.3 R (15.49)	8.97	11.92	Y	Y

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

Table B17: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 30 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	14:13-16:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.39	3.75
Turbidity (NTU)	16.82	N/A	N/A
SS (mg/L)	18.23	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	14:13-16:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.37	3.82
Turbidity (NTU)	12.70	N/A	N/A
SS (mg/L)	13.42	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	14:13-16:23		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.01	4.09
Turbidity (NTU)	5.32	N/A	N/A
SS (mg/L)	5.00	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)	3.75	3.82	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)	4.39	4.37	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (15.24)	> 38.32	I ≥ 1.3 R (16.51)	16.82	12.70	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (16.10)	> 61.92	I ≥ 1.3 R (17.44)	18.23	13.42	Y	Y

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

Table B18: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 30 June 2010

Station	Downstream (Impact)		
Time (hh:mm)	07:09-09:41		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.38	4.15
Turbidity (NTU)	8.01	N/A	N/A
SS (mg/L)	8.23	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	07:09-09:41		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.94	4.32
Turbidity (NTU)	7.13	N/A	N/A
SS (mg/L)	7.00	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	07:09-09:41		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.41	3.84
Turbidity (NTU)	4.22	N/A	N/A
SS (mg/L)	5.67	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)	4.15	4.32	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)	4.38	4.94	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (8.56)	> 38.32	I ≥ 1.3 R (9.27)	8.01	7.13	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (8.40)	> 61.92	I ≥ 1.3 R (9.10)	8.23	7.00	Y	Y

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