

Summary of water quality statistics for the Victoria Harbour WCZ 2005

Parameter	Victoria Harbour (East)		Victoria Harbour (Central)		
	VM1	VM2	VM4	VM5	VM6
Number of samples	12	12	12	12	12
Temperature (°C)	22.6 (15.7 - 27.9)	22.9 (15.8 - 28.0)	22.9 (15.8 - 27.8)	23.0 (15.9 - 27.9)	23.0 (15.9 - 27.8)
Salinity	32.3 (30.4 - 33.4)	31.9 (28.5 - 33.3)	31.8 (28.9 - 33.2)	31.4 (27.3 - 32.9)	31.3 (26.8 - 32.8)
Dissolved Oxygen (mg/L)	5.7 (4.2 - 6.9)	5.6 (4.4 - 6.8)	5.4 (4.4 - 6.6)	5.5 (4.7 - 6.6)	5.5 (4.8 - 6.5)
Bottom	5.6 (3.3 - 6.9)	5.6 (3.8 - 6.8)	5.3 (3.6 - 6.5)	5.3 (3.3 - 6.6)	5.3 (3.2 - 6.5)
Dissolved Oxygen (% Saturation)	79 (59 - 94)	78 (66 - 92)	75 (63 - 88)	76 (68 - 99)	77 (68 - 96)
Bottom	78 (46 - 93)	77 (54 - 90)	74 (51 - 88)	74 (46 - 99)	73 (45 - 94)
pH	8.1 (7.8 - 8.3)	8.1 (7.7 - 8.3)	8.0 (7.7 - 8.3)	8.0 (7.6 - 8.3)	8.0 (7.6 - 8.2)
Secchi Disc Depth (m)	2.3 (1.5 - 2.8)	2.2 (1.2 - 3.5)	2.1 (1.5 - 3.2)	2.1 (1.3 - 3.1)	2.1 (1.2 - 3.3)
Turbidity (NTU)	10.0 (5.1 - 16.2)	9.8 (4.8 - 15.8)	9.6 (4.5 - 15.3)	9.8 (4.9 - 14.5)	9.8 (5.0 - 14.8)
Suspended Solids (mg/L)	4.5 (0.9 - 10.8)	3.6 (1.3 - 8.5)	3.6 (1.3 - 9.8)	3.4 (1.7 - 5.3)	3.7 (1.3 - 8.2)
5-day Biochemical Oxygen Demand (mg/L)	0.8 (0.5 - 1.2)	0.9 (0.4 - 1.5)	0.9 (0.5 - 1.1)	1.1 (0.6 - 1.4)	0.9 (0.4 - 1.4)
Ammonia Nitrogen (mg/L)	0.09 (0.05 - 0.16)	0.13 (0.04 - 0.21)	0.15 (0.06 - 0.27)	0.19 (0.06 - 0.29)	0.19 (0.07 - 0.26)
Unionised Ammonia (mg/L)	0.004 (0.002 - 0.010)	0.006 (0.002 - 0.015)	0.006 (0.003 - 0.015)	0.007 (0.005 - 0.015)	0.008 (0.004 - 0.014)
Nitrite Nitrogen (mg/L)	0.02 (0.01 - 0.05)	0.02 (0.01 - 0.05)	0.03 (0.01 - 0.05)	0.03 (0.01 - 0.05)	0.03 (0.01 - 0.05)
Nitrate Nitrogen (mg/L)	0.10 (0.04 - 0.17)	0.12 (0.03 - 0.23)	0.13 (0.05 - 0.24)	0.15 (0.05 - 0.31)	0.16 (0.06 - 0.34)
Total Inorganic Nitrogen (mg/L)	0.22 (0.11 - 0.32)	0.28 (0.08 - 0.46)	0.31 (0.12 - 0.54)	0.37 (0.12 - 0.64)	0.38 (0.14 - 0.65)
Total Kjeldahl Nitrogen (mg/L)	0.22 (0.16 - 0.30)	0.28 (0.14 - 0.38)	0.31 (0.21 - 0.43)	0.37 (0.23 - 0.49)	0.36 (0.22 - 0.45)
Total Nitrogen (mg/L)	0.34 (0.23 - 0.47)	0.43 (0.22 - 0.63)	0.47 (0.26 - 0.69)	0.55 (0.28 - 0.77)	0.55 (0.29 - 0.79)
Orthophosphate Phosphorus (mg/L)	0.02 (0.01 - 0.03)	0.03 (<0.01 - 0.04)	0.03 (0.01 - 0.04)	0.04 (0.01 - 0.05)	0.03 (0.01 - 0.05)
Total Phosphorus (mg/L)	0.03 (0.02 - 0.05)	0.04 (0.02 - 0.06)	0.05 (0.03 - 0.06)	0.05 (0.03 - 0.07)	0.05 (0.03 - 0.07)
Silica (as SiO ₂) (mg/L)	0.7 (0.4 - 1.2)	0.7 (0.2 - 1.4)	0.8 (0.2 - 1.5)	0.9 (0.2 - 1.7)	0.9 (0.2 - 1.8)
Chlorophyll- <i>a</i> (µg/L)	2.5 (0.9 - 6.0)	2.4 (0.8 - 6.0)	2.4 (0.9 - 7.2)	2.8 (0.8 - 9.1)	2.6 (0.8 - 9.0)
<i>E. coli</i> (count/100mL)	640 (88 - 4500)	1600 (120 - 31000)	2400 (310 - 11000)	7700 (2500 - 23000)	5700 (1200 - 33000)
Faecal Coliforms (count/100mL)	1300 (300 - 9100)	3600 (340 - 50000)	5200 (770 - 33000)	17000 (6800 - 40000)	12000 (2300 - 89000)

Note : 1. Unless otherwise specified, data presented are depth-averaged (A) values calculated by taking the means of three depths: Surface (S), Mid-depth (M), Bottom (B).

2. Data presented are annual arithmetic means of the depth-averaged results except for *E. coli* and faecal coliforms which are annual geometric means.

3. Data in brackets indicate the ranges.

Summary of water quality statistics for the Victoria Harbour WCZ 2005 (continued)

Parameter	Victoria Harbour (West)		Stonecutters Island	Rambler Channel	
	VM7	VM8	VM15	VM12	VM14
Number of samples	12	12	12	12	12
Temperature (°C)	23.1 (15.8 - 27.9)	23.1 (15.6 - 27.7)	23.0 (16.0 - 27.8)	23.1 (15.8 - 27.7)	23.4 (15.9 - 27.9)
Salinity	30.9 (26.3 - 32.8)	31.1 (27.4 - 32.9)	31.3 (26.6 - 32.9)	31.0 (27.7 - 33.0)	29.6 (23.0 - 33.0)
Dissolved Oxygen (mg/L)	5.6 (4.9 - 6.6)	5.8 (4.3 - 7.1)	5.5 (4.5 - 7.0)	5.4 (3.8 - 6.4)	5.7 (4.8 - 6.9)
Bottom	5.4 (3.8 - 6.5)	5.6 (2.5 - 7.1)	5.3 (3.1 - 6.7)	5.3 (2.9 - 6.2)	5.6 (3.7 - 6.9)
Dissolved Oxygen (% Saturation)	78 (72 - 99)	80 (61 - 108)	77 (64 - 105)	75 (54 - 94)	80 (68 - 105)
Bottom	75 (54 - 94)	78 (35 - 108)	74 (43 - 101)	74 (42 - 92)	79 (52 - 103)
pH	8.0 (7.7 - 8.2)	8.1 (7.7 - 8.2)	8.0 (7.6 - 8.2)	8.0 (7.7 - 8.2)	8.1 (7.7 - 8.2)
Secchi Disc Depth (m)	1.8 (0.9 - 3.2)	1.9 (1.2 - 2.5)	1.9 (1.2 - 2.7)	1.7 (1.2 - 2.5)	1.8 (1.5 - 2.3)
Turbidity (NTU)	10.8 (5.9 - 16.1)	11.9 (5.4 - 22.0)	10.7 (5.8 - 16.2)	14.4 (6.4 - 22.1)	11.3 (5.4 - 17.1)
Suspended Solids (mg/L)	4.1 (2.1 - 8.7)	5.2 (1.8 - 16.3)	5.1 (2.1 - 10.3)	7.2 (3.1 - 15.7)	4.7 (2.6 - 10.7)
5-day Biochemical Oxygen Demand (mg/L)	1.0 (0.6 - 1.4)	0.8 (0.5 - 1.4)	0.8 (0.5 - 1.2)	0.7 (0.4 - 1.2)	0.8 (0.4 - 1.6)
Ammonia Nitrogen (mg/L)	0.21 (0.12 - 0.32)	0.18 (0.09 - 0.30)	0.23 (0.08 - 0.32)	0.20 (0.14 - 0.25)	0.17 (0.10 - 0.25)
Unionised Ammonia (mg/L)	0.009 (0.004 - 0.018)	0.009 (0.003 - 0.022)	0.009 (0.005 - 0.014)	0.008 (0.005 - 0.012)	0.008 (0.004 - 0.013)
Nitrite Nitrogen (mg/L)	0.03 (0.01 - 0.06)	0.04 (0.01 - 0.07)	0.03 (0.02 - 0.06)	0.04 (0.02 - 0.07)	0.05 (0.01 - 0.09)
Nitrate Nitrogen (mg/L)	0.19 (0.08 - 0.45)	0.18 (0.08 - 0.49)	0.16 (0.09 - 0.31)	0.20 (0.09 - 0.45)	0.27 (0.09 - 0.67)
Total Inorganic Nitrogen (mg/L)	0.43 (0.28 - 0.83)	0.40 (0.22 - 0.76)	0.42 (0.19 - 0.63)	0.44 (0.31 - 0.71)	0.49 (0.29 - 0.91)
Total Kjeldahl Nitrogen (mg/L)	0.36 (0.24 - 0.42)	0.37 (0.20 - 1.00)	0.39 (0.25 - 0.51)	0.40 (0.26 - 1.13)	0.34 (0.23 - 0.79)
Total Nitrogen (mg/L)	0.58 (0.47 - 0.93)	0.59 (0.34 - 1.16)	0.58 (0.36 - 0.76)	0.63 (0.43 - 1.31)	0.66 (0.40 - 1.02)
Orthophosphate Phosphorus (mg/L)	0.04 (0.02 - 0.05)	0.03 (0.01 - 0.05)	0.04 (0.02 - 0.05)	0.03 (0.02 - 0.04)	0.03 (0.02 - 0.04)
Total Phosphorus (mg/L)	0.05 (0.04 - 0.06)	0.05 (0.03 - 0.17)	0.05 (0.03 - 0.07)	0.06 (0.04 - 0.17)	0.05 (0.03 - 0.11)
Silica (as SiO ₂) (mg/L)	1.0 (0.7 - 1.9)	1.0 (0.6 - 1.8)	0.9 (0.2 - 2.0)	1.1 (0.7 - 2.4)	1.3 (0.8 - 2.8)
Chlorophyll- <i>a</i> (µg/L)	2.2 (0.8 - 7.6)	2.0 (0.9 - 6.4)	3.2 (0.7 - 12.3)	1.8 (0.9 - 4.8)	2.8 (0.8 - 11.8)
<i>E. coli</i> (count/100mL)	9100 (1200 - 35000)	4900 (790 - 40000)	5400 (490 - 22000)	4000 (1200 - 17000)	2100 (520 - 8700)
Faecal Coliforms (count/100mL)	21000 (2700 - 130000)	12000 (1500 - 140000)	13000 (1800 - 97000)	9700 (2600 - 35000)	4700 (1500 - 31000)

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