

APPENDIX 7B

**Water Quality Modelling
Results**

7B. WATER QUALITY MODELLING RESULTS

Table 7B.1 Predicted Water Quality Results for Scenario 1 – Dry Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	27.44 (25.82 - 28.63)	4.63 (4.15 - 6.41)	33.49 (26.23 - 43.30)	4.99 (3.72 - 6.59)	6.99E+03 (1.11E+03 - 1.85E+04)	0.043 (0.026 - 0.062)	2.57 (1.91 - 3.33)
DM2	28.56 (27.87 - 28.99)	4.61 (4.19 - 6.04)	25.15 (21.57 - 34.75)	3.67 (3.05 - 5.47)	3.38E+03 (3.64E+02 - 2.86E+04)	0.027 (0.019 - 0.049)	1.95 (1.60 - 2.73)
DM3	29.22 (28.56 - 29.79)	4.02 (3.66 - 5.93)	21.53 (18.63 - 23.78)	3.75 (3.34 - 4.42)	2.34E+02 (4.78E+01 - 1.66E+03)	0.017 (0.012 - 0.023)	1.36 (0.99 - 1.69)
DM4	29.96 (29.58 - 30.52)	3.88 (3.65 - 5.40)	19.68 (17.57 - 21.38)	4.49 (3.55 - 5.32)	9.98E+01 (5.41E+01 - 3.03E+02)	0.012 (0.010 - 0.016)	0.83 (0.58 - 1.12)
DM5	30.63 (29.22 - 31.98)	5.40 (5.10 - 7.18)	21.18 (19.66 - 23.64)	5.48 (5.27 - 5.69)	1.88E+02 (3.18E+01 - 8.10E+02)	0.008 (0.004 - 0.009)	0.38 (0.29 - 0.45)
A	28.40 (27.86 - 28.81)	5.63 (4.71 - 6.97)	27.96 (25.70 - 31.40)	3.92 (3.65 - 4.29)	1.50E+02 (7.13E+01 - 3.53E+02)	0.022 (0.018 - 0.029)	1.84 (1.64 - 2.08)
B	30.64 (30.02 - 31.75)	4.76 (3.96 - 6.36)	20.33 (19.21 - 21.52)	5.26 (4.82 - 5.52)	1.50E+02 (3.70E+01 - 5.62E+02)	0.009 (0.007 - 0.013)	0.52 (0.33 - 0.74)
C	28.09 (27.42 - 28.81)	4.46 (3.58 - 6.65)	30.86 (26.35 - 37.58)	4.25 (3.76 - 4.98)	4.87E+02 (1.62E+02 - 1.26E+03)	0.027 (0.019 - 0.035)	2.01 (1.66 - 2.26)
D	25.74 (25.06 - 26.46)	3.06 (1.62 - 6.52)	70.85 (55.65 - 103.20)	11.59 (8.90 - 15.19)	2.79E+04 (8.26E+03 - 5.86E+04)	0.093 (0.073 - 0.109)	3.96 (3.40 - 4.44)
E	29.06 (28.67 - 29.50)	5.29 (4.92 - 6.83)	22.54 (21.02 - 25.00)	4.48 (3.95 - 4.93)	3.00E+02 (5.33E+01 - 1.05E+03)	0.012 (0.009 - 0.016)	1.05 (0.79 - 1.32)
F	24.93 (23.68 - 26.05)	5.48 (4.69 - 7.53)	37.26 (32.07 - 45.19)	5.07 (4.38 - 6.37)	9.85E+03 (4.51E+03 - 4.12E+04)	0.047 (0.042 - 0.055)	2.95 (2.67 - 3.17)
G	28.90 (28.71 - 29.03)	4.12 (3.17 - 6.41)	32.58 (27.81 - 44.11)	4.66 (4.04 - 6.09)	6.70E+03 (3.00E+03 - 1.55E+04)	0.035 (0.031 - 0.039)	2.27 (1.93 - 2.46)
H	31.35 (30.25 - 32.11)	6.05 (5.63 - 7.11)	20.81 (20.15 - 22.17)	5.50 (5.04 - 5.85)	5.43E+01 (1.77E+01 - 1.86E+02)	0.006 (0.005 - 0.008)	0.31 (0.21 - 0.39)
I	28.91 (28.25 - 29.56)	4.05 (3.57 - 5.75)	18.09 (15.55 - 19.56)	3.04 (2.45 - 3.57)	3.48E+03 (5.12E+02 - 1.18E+04)	0.013 (0.011 - 0.015)	1.17 (1.05 - 1.28)
J2	31.41 (30.42 - 32.17)	5.16 (4.69 - 6.86)	20.12 (19.40 - 20.93)	5.28 (4.98 - 5.51)	8.79E+01 (3.36E+01 - 3.24E+02)	0.008 (0.006 - 0.011)	0.39 (0.25 - 0.54)
K1	28.52 (27.96 - 29.05)	6.44 (5.57 - 7.96)	27.16 (24.35 - 30.38)	3.91 (3.69 - 4.19)	8.85E+01 (4.25E+01 - 1.84E+02)	0.020 (0.015 - 0.026)	1.74 (1.40 - 1.94)
K2	28.89 (28.33 - 29.53)	4.44 (4.12 - 6.34)	21.50 (20.26 - 22.72)	4.66 (4.12 - 5.24)	1.27E+03 (6.04E+02 - 1.99E+03)	0.011 (0.008 - 0.014)	0.88 (0.69 - 1.11)
L1	28.74 (28.36 - 28.94)	4.42 (3.65 - 5.98)	29.17 (26.54 - 35.33)	4.10 (3.66 - 5.51)	6.13E+03 (1.92E+03 - 6.48E+04)	0.032 (0.029 - 0.048)	2.24 (1.93 - 2.65)
L2	23.58 (21.83 - 25.28)	4.40 (3.99 - 7.06)	46.03 (41.56 - 57.78)	6.25 (5.67 - 8.02)	1.71E+04 (7.66E+03 - 3.46E+04)	0.046 (0.038 - 0.056)	2.89 (2.54 - 3.26)

Table 7B.2 Predicted Water Quality Results for Scenario 1 – Wet Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	4.18 (3.49 - 4.90)	5.46 (5.03 - 6.80)	37.69 (28.37 - 47.27)	0.86 (0.23 - 2.23)	7.60E+01 (2.38E+00 - 1.63E+03)	0.015 (0.003 - 0.042)	1.77 (1.09 - 2.64)
DM2	4.11 (3.44 - 4.70)	4.43 (3.91 - 6.21)	39.96 (32.09 - 53.03)	1.22 (0.46 - 4.00)	2.84E+02 (2.82E+01 - 1.00E+04)	0.028 (0.005 - 0.095)	2.16 (1.51 - 3.32)
DM3	4.71 (4.16 - 5.42)	6.27 (6.07 - 6.64)	28.19 (22.12 - 34.04)	0.23 (0.15 - 0.44)	5.01E+00 (5.11E-01 - 5.63E+01)	0.002 (0.001 - 0.006)	1.00 (0.81 - 1.40)
DM4	5.09 (4.17 - 6.18)	5.36 (5.17 - 6.20)	28.62 (24.61 - 34.56)	0.25 (0.16 - 0.38)	2.40E+01 (4.19E+00 - 1.28E+02)	0.001 (0.001 - 0.002)	0.85 (0.80 - 0.97)
DM5	5.64 (2.51 - 9.63)	4.59 (4.51 - 4.94)	35.90 (21.99 - 51.96)	0.55 (0.49 - 0.68)	7.96E+01 (7.32E+00 - 2.89E+02)	0.004 (0.003 - 0.005)	0.80 (0.73 - 0.85)
A	4.69 (4.17 - 5.23)	6.96 (6.90 - 7.18)	27.77 (22.78 - 31.55)	0.17 (0.12 - 0.23)	3.24E+00 (2.38E-01 - 3.10E+01)	0.001 (0.000 - 0.002)	0.83 (0.68 - 1.03)
B	5.87 (3.83 - 8.00)	4.93 (4.86 - 5.68)	29.36 (23.84 - 40.04)	0.42 (0.28 - 0.52)	7.09E+01 (2.26E+01 - 2.60E+02)	0.003 (0.002 - 0.004)	0.79 (0.76 - 0.84)
C	4.66 (4.10 - 5.22)	6.89 (6.83 - 7.11)	29.28 (23.93 - 34.89)	0.19 (0.10 - 0.41)	1.49E+00 (4.62E-02 - 1.81E+01)	0.001 (0.000 - 0.005)	0.97 (0.73 - 1.37)
D	3.49 (3.10 - 3.81)	5.83 (4.90 - 7.30)	43.04 (38.34 - 50.24)	1.59 (0.79 - 3.14)	7.29E+02 (1.42E+02 - 2.47E+03)	0.024 (0.009 - 0.059)	2.00 (1.40 - 2.81)
E	4.52 (3.73 - 5.24)	5.95 (5.88 - 6.42)	25.31 (19.39 - 31.55)	0.27 (0.22 - 0.33)	2.93E+02 (3.16E+01 - 9.77E+02)	0.001 (0.001 - 0.002)	0.74 (0.68 - 0.81)
F	4.06 (3.45 - 4.71)	6.11 (5.77 - 7.13)	41.58 (30.70 - 51.77)	1.12 (0.25 - 2.69)	1.22E+03 (1.43E+01 - 2.41E+04)	0.012 (0.002 - 0.025)	1.73 (1.02 - 2.29)
G	2.99 (2.42 - 3.64)	1.81 (1.28 - 4.68)	62.59 (53.67 - 74.81)	5.74 (3.04 - 10.02)	7.44E+03 (1.07E+03 - 3.90E+04)	0.177 (0.075 - 0.280)	4.64 (3.73 - 5.66)
H	6.24 (3.01 - 9.36)	4.80 (4.71 - 5.13)	31.76 (21.09 - 48.24)	0.54 (0.48 - 0.60)	2.83E+01 (4.66E+00 - 1.63E+02)	0.004 (0.003 - 0.006)	0.78 (0.72 - 0.84)
I	4.48 (4.05 - 4.95)	5.93 (5.71 - 6.45)	31.40 (27.91 - 37.00)	0.41 (0.25 - 0.61)	1.00E+03 (8.45E+01 - 4.43E+03)	0.004 (0.002 - 0.007)	1.14 (1.01 - 1.33)
J2	7.79 (4.80 - 10.38)	4.82 (4.77 - 5.10)	26.08 (19.54 - 37.45)	0.51 (0.41 - 0.61)	6.35E+01 (7.53E+00 - 2.30E+02)	0.004 (0.003 - 0.006)	0.77 (0.72 - 0.82)
K1	4.66 (4.05 - 5.22)	6.91 (6.72 - 7.44)	26.80 (21.43 - 30.76)	0.19 (0.13 - 0.27)	1.78E+01 (4.09E-01 - 1.17E+02)	0.001 (0.001 - 0.001)	0.77 (0.65 - 0.95)
K2	4.55 (3.72 - 5.30)	5.36 (5.26 - 5.81)	26.25 (20.56 - 30.05)	0.31 (0.24 - 0.37)	8.88E+02 (3.67E+02 - 1.38E+03)	0.001 (0.001 - 0.002)	0.72 (0.65 - 0.77)
L1	2.37 (1.96 - 3.00)	1.25 (<0.5 - 3.04)	84.09 (64.41 - 101.50)	14.25 (6.60 - 20.81)	1.31E+05 (2.35E+04 - 3.53E+05)	0.240 (0.166 - 0.283)	5.46 (4.58 - 6.28)
L2	3.55 (2.65 - 4.15)	5.99 (5.59 - 7.40)	41.65 (36.70 - 45.36)	1.50 (0.52 - 2.96)	2.37E+03 (1.10E+02 - 3.07E+04)	0.019 (0.006 - 0.034)	1.84 (1.37 - 2.38)

Table 7B.3 Predicted Water Quality Results for Scenario 1 – Annual Average

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	15.81	5.05	35.59	2.92	3532	0.0287	2.17
DM2	EPD Monitoring Station: DM2	16.34	4.52	32.56	2.45	1829	0.0271	2.05
DM3	EPD Monitoring Station: DM3	16.97	5.14	24.86	1.99	120	0.0095	1.18
DM4	EPD Monitoring Station: DM4	17.53	4.62	24.15	2.37	62	0.0067	0.84
DM5	EPD Monitoring Station: DM5	18.13	4.99	28.54	3.02	134	0.0058	0.59
A	Mangrove near Ngau Hom Shek	16.54	6.30	27.87	2.04	77	0.0115	1.34
B	Cooling Water Intake for CLP Black Point Power Station	18.26	4.84	24.85	2.84	111	0.0060	0.66
C	Oyster Bed near Lau Fau Shan	16.37	5.67	30.07	2.22	244	0.0141	1.49
D	Mai Po Nature Reserve Area	14.61	4.44	56.95	6.59	14304	0.0583	2.98
E	Pak Nai SSSI	16.79	5.62	23.93	2.38	297	0.0066	0.89
F	Tsim Bei Tsui SSSI	14.49	5.79	39.42	3.09	5534	0.0293	2.34
G	Mangroves & Mudflat at Futian	15.95	2.96	47.59	5.20	7067	0.1057	3.45
H	Sha Chau & Lung Kwu Chau	18.79	5.42	26.29	3.02	41	0.0052	0.54
I	Oyster Beds at Shekou	16.70	4.99	24.75	1.72	2242	0.0083	1.15
J2	Chinese White Dolphin Feeding Ground	19.60	4.99	23.10	2.89	76	0.0059	0.58
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	16.59	6.68	26.98	2.05	53	0.0105	1.25
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	16.72	4.90	23.88	2.48	1077	0.0062	0.80
L1	Ramsar Site (North)	15.56	2.84	56.63	9.17	68716	0.1360	3.85
L2	Ramsar Site (South)	13.56	5.19	43.84	3.88	9708	0.0328	2.36

Table 7B.4 Predicted Water Quality Results for Scenario 2 – Dry Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	27.35 (25.70 - 28.51)	4.63 (4.19 - 6.43)	34.35 (27.28 - 44.56)	5.08 (3.82 - 6.73)	7.29E+03 (1.10E+03 - 1.98E+04)	0.0435 (0.0264 - 0.0624)	2.63 (1.98 - 3.42)
DM2	28.46 (27.81 - 28.88)	4.66 (4.22 - 6.07)	26.01 (22.52 - 35.41)	3.76 (3.19 - 5.50)	3.26E+03 (4.14E+02 - 2.91E+04)	0.0269 (0.0205 - 0.0493)	2.00 (1.67 - 2.75)
DM3	29.21 (28.46 - 29.87)	4.11 (3.78 - 5.94)	21.63 (18.16 - 24.14)	3.81 (3.42 - 4.49)	2.48E+02 (4.28E+01 - 1.75E+03)	0.0170 (0.0119 - 0.0232)	1.35 (0.96 - 1.66)
DM4	29.95 (29.56 - 30.51)	3.87 (3.60 - 5.38)	19.79 (17.58 - 21.45)	4.52 (3.71 - 5.32)	1.00E+02 (5.27E+01 - 2.67E+02)	0.0121 (0.0097 - 0.0161)	0.83 (0.58 - 1.12)
DM5	30.63 (29.22 - 31.98)	5.40 (5.12 - 7.19)	21.18 (19.66 - 23.64)	5.48 (5.27 - 5.69)	1.88E+02 (3.16E+01 - 8.10E+02)	0.0076 (0.0044 - 0.0093)	0.38 (0.29 - 0.45)
A	28.41 (27.81 - 28.82)	5.65 (4.77 - 7.03)	27.86 (25.88 - 31.13)	3.98 (3.75 - 4.34)	1.57E+02 (7.74E+01 - 3.56E+02)	0.0217 (0.0175 - 0.0283)	1.82 (1.62 - 2.07)
B	30.64 (30.01 - 31.74)	4.75 (3.97 - 6.36)	20.33 (19.22 - 21.56)	5.27 (4.84 - 5.54)	1.51E+02 (3.74E+01 - 5.60E+02)	0.0092 (0.0071 - 0.0125)	0.52 (0.33 - 0.73)
C	28.06 (27.31 - 28.82)	4.55 (3.70 - 6.73)	30.86 (26.39 - 36.76)	4.31 (3.84 - 4.99)	5.17E+02 (1.62E+02 - 1.48E+03)	0.0266 (0.0192 - 0.0356)	2.02 (1.64 - 2.33)
D	25.65 (24.93 - 26.35)	3.14 (1.76 - 6.52)	70.60 (56.16 - 101.90)	11.56 (9.00 - 15.22)	2.87E+04 (8.83E+03 - 5.70E+04)	0.0929 (0.0738 - 0.1082)	4.01 (3.46 - 4.45)
E	29.07 (28.66 - 29.52)	5.32 (4.96 - 6.84)	22.45 (20.85 - 24.83)	4.53 (3.92 - 5.00)	3.00E+02 (5.15E+01 - 1.03E+03)	0.0117 (0.0089 - 0.0159)	1.02 (0.78 - 1.31)
F	24.83 (23.56 - 25.93)	5.46 (4.68 - 7.54)	38.12 (32.97 - 46.16)	5.15 (4.48 - 6.46)	1.00E+04 (4.71E+03 - 4.11E+04)	0.0472 (0.0428 - 0.0554)	3.01 (2.74 - 3.23)
G	28.75 (28.55 - 28.89)	4.11 (3.23 - 6.42)	33.44 (28.45 - 45.12)	4.69 (4.07 - 6.08)	6.92E+03 (3.11E+03 - 1.57E+04)	0.0351 (0.0317 - 0.0390)	2.34 (2.02 - 2.53)
H	31.35 (30.24 - 32.11)	6.05 (5.63 - 7.11)	20.81 (20.15 - 22.18)	5.50 (5.04 - 5.86)	5.41E+01 (1.77E+01 - 1.85E+02)	0.0064 (0.0045 - 0.0082)	0.31 (0.21 - 0.39)
I	28.55 (27.63 - 29.40)	4.48 (3.83 - 5.89)	17.88 (15.81 - 19.73)	2.83 (2.27 - 3.55)	5.05E+03 (8.21E+02 - 1.37E+04)	0.0134 (0.0113 - 0.0154)	1.28 (1.09 - 1.39)
J2	31.40 (30.41 - 32.17)	5.15 (4.69 - 6.86)	20.13 (19.41 - 20.95)	5.29 (4.98 - 5.52)	8.85E+01 (3.37E+01 - 3.25E+02)	0.0079 (0.0056 - 0.0106)	0.38 (0.25 - 0.54)
K1	28.54 (27.92 - 29.08)	6.47 (5.59 - 7.95)	27.04 (24.29 - 30.29)	3.99 (3.78 - 4.24)	9.26E+01 (4.66E+01 - 1.90E+02)	0.0195 (0.0141 - 0.0255)	1.71 (1.35 - 1.94)
K2	28.89 (28.34 - 29.55)	4.47 (4.12 - 6.31)	21.46 (20.14 - 22.49)	4.71 (4.10 - 5.30)	1.27E+03 (5.95E+02 - 1.99E+03)	0.0107 (0.0081 - 0.0136)	0.86 (0.67 - 1.11)
L1	28.62 (28.24 - 28.80)	4.39 (3.69 - 6.01)	30.14 (27.18 - 36.74)	4.15 (3.69 - 5.53)	6.04E+03 (2.00E+03 - 6.21E+04)	0.0323 (0.0288 - 0.0474)	2.30 (2.00 - 2.70)
L2	23.45 (21.69 - 25.11)	4.38 (3.95 - 7.02)	47.04 (42.39 - 60.49)	6.34 (5.79 - 8.26)	1.74E+04 (7.81E+03 - 3.49E+04)	0.0468 (0.0388 - 0.0563)	2.94 (2.60 - 3.32)

Table 7B.5 Predicted Water Quality Results for Scenario 2 – Wet Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	4.15 (3.45 - 4.89)	5.39 (4.92 - 6.84)	38.02 (28.52 - 48.26)	0.89 (0.21 - 2.38)	7.99E+01 (1.65E+00 - 1.83E+03)	0.0153 (0.0024 - 0.0459)	1.78 (1.06 - 2.71)
DM2	4.11 (3.44 - 4.74)	4.42 (3.86 - 6.29)	39.84 (31.34 - 53.36)	1.22 (0.44 - 4.03)	2.59E+02 (2.27E+01 - 1.03E+04)	0.0275 (0.0049 - 0.0963)	2.12 (1.42 - 3.33)
DM3	4.71 (4.15 - 5.42)	6.28 (6.06 - 6.63)	28.15 (22.37 - 34.30)	0.23 (0.15 - 0.47)	6.42E+00 (6.68E-01 - 8.16E+01)	0.0019 (0.0008 - 0.0068)	0.98 (0.81 - 1.39)
DM4	5.10 (4.19 - 6.17)	5.35 (5.17 - 6.19)	28.62 (24.58 - 34.54)	0.26 (0.16 - 0.38)	2.48E+01 (4.75E+00 - 1.26E+02)	0.0014 (0.0009 - 0.0022)	0.85 (0.81 - 0.97)
DM5	5.64 (2.52 - 9.61)	4.58 (4.51 - 4.94)	35.89 (22.02 - 51.96)	0.55 (0.49 - 0.68)	7.97E+01 (7.23E+00 - 2.83E+02)	0.0039 (0.0032 - 0.0053)	0.80 (0.73 - 0.85)
A	4.66 (4.14 - 5.21)	6.95 (6.86 - 7.18)	27.82 (22.85 - 31.59)	0.18 (0.12 - 0.25)	3.51E+00 (2.64E-01 - 3.36E+01)	0.0010 (0.0005 - 0.0018)	0.84 (0.68 - 1.03)
B	5.88 (3.86 - 7.97)	4.93 (4.86 - 5.66)	29.36 (23.84 - 40.01)	0.42 (0.28 - 0.52)	7.10E+01 (2.05E+01 - 2.60E+02)	0.0027 (0.0016 - 0.0040)	0.79 (0.76 - 0.83)
C	4.63 (4.07 - 5.21)	6.87 (6.78 - 7.12)	29.55 (24.14 - 35.48)	0.21 (0.10 - 0.48)	1.72E+00 (4.84E-02 - 2.30E+01)	0.0017 (0.0005 - 0.0058)	0.98 (0.73 - 1.42)
D	3.44 (3.06 - 3.77)	5.74 (4.71 - 7.29)	43.66 (38.68 - 51.31)	1.65 (0.79 - 3.31)	7.48E+02 (1.40E+02 - 2.58E+03)	0.0253 (0.0096 - 0.0627)	2.05 (1.42 - 2.90)
E	4.51 (3.72 - 5.24)	5.95 (5.87 - 6.40)	25.23 (19.37 - 31.86)	0.28 (0.22 - 0.33)	2.97E+02 (3.33E+01 - 1.00E+03)	0.0014 (0.0011 - 0.0018)	0.74 (0.68 - 0.80)
F	4.01 (3.41 - 4.67)	6.07 (5.71 - 7.12)	42.08 (31.22 - 52.32)	1.15 (0.26 - 2.73)	1.20E+03 (1.47E+01 - 2.42E+04)	0.0125 (0.0024 - 0.0261)	1.76 (1.03 - 2.33)
G	3.00 (2.38 - 3.64)	1.82 (1.29 - 4.72)	62.22 (53.09 - 74.96)	5.62 (2.96 - 9.98)	7.18E+03 (9.74E+02 - 3.87E+04)	0.1738 (0.0702 - 0.2812)	4.60 (3.65 - 5.67)
H	6.24 (3.06 - 9.37)	4.79 (4.71 - 5.13)	31.78 (21.07 - 48.34)	0.54 (0.48 - 0.60)	2.81E+01 (4.63E+00 - 1.63E+02)	0.0040 (0.0030 - 0.0059)	0.78 (0.72 - 0.83)
I	4.45 (4.03 - 4.93)	5.59 (5.34 - 6.38)	34.11 (28.97 - 40.60)	0.47 (0.27 - 0.69)	1.34E+03 (1.13E+02 - 6.55E+03)	0.0047 (0.0022 - 0.0073)	1.22 (1.04 - 1.36)
J2	7.79 (4.80 - 10.38)	4.81 (4.77 - 5.10)	26.10 (19.54 - 37.58)	0.51 (0.41 - 0.61)	6.37E+01 (7.60E+00 - 2.31E+02)	0.0039 (0.0026 - 0.0058)	0.77 (0.72 - 0.82)
K1	4.64 (4.03 - 5.21)	6.90 (6.71 - 7.44)	26.79 (21.41 - 30.80)	0.20 (0.13 - 0.27)	1.83E+01 (4.30E-01 - 1.18E+02)	0.0010 (0.0006 - 0.0015)	0.77 (0.66 - 0.94)
K2	4.54 (3.71 - 5.33)	5.34 (5.24 - 5.79)	26.21 (20.49 - 29.93)	0.31 (0.24 - 0.37)	8.84E+02 (2.91E+02 - 1.40E+03)	0.0015 (0.0011 - 0.0020)	0.72 (0.66 - 0.78)
L1	2.37 (1.92 - 3.05)	1.45 (<0.5 - 4.45)	83.82 (63.33 - 101.90)	14.12 (6.31 - 20.89)	1.29E+05 (2.17E+04 - 3.54E+05)	0.2390 (0.1578 - 0.2833)	5.46 (4.48 - 6.31)
L2	3.50 (2.63 - 4.11)	5.95 (5.54 - 7.39)	42.09 (37.10 - 46.03)	1.53 (0.53 - 2.97)	2.36E+03 (1.11E+02 - 3.03E+04)	0.0197 (0.0059 - 0.0344)	1.87 (1.39 - 2.43)

Table 7B.6 Predicted Water Quality Results for Scenario 2 – Annual Average

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	15.75	5.01	36.19	2.99	3684	0.0294	2.20
DM2	EPD Monitoring Station: DM2	16.28	4.54	32.93	2.49	1762	0.0272	2.06
DM3	EPD Monitoring Station: DM3	16.96	5.19	24.89	2.02	127	0.0095	1.17
DM4	EPD Monitoring Station: DM4	17.52	4.61	24.21	2.39	63	0.0067	0.84
DM5	EPD Monitoring Station: DM5	18.14	4.99	28.54	3.02	134	0.0058	0.59
A	Mangrove near Ngau Hom Shek	16.54	6.30	27.84	2.08	80	0.0113	1.33
B	Cooling Water Intake for CLP Black Point Power Station	18.26	4.84	24.85	2.85	111	0.0060	0.66
C	Oyster Bed near Lau Fau Shan	16.34	5.71	30.21	2.26	259	0.0142	1.50
D	Mai Po Nature Reserve Area	14.54	4.44	57.13	6.61	14709	0.0591	3.03
E	Pak Nai SSSI	16.79	5.63	23.84	2.40	298	0.0065	0.88
F	Tsim Bei Tsui SSSI	14.42	5.76	40.10	3.15	5602	0.0299	2.39
G	Mangroves & Mudflat at Futian	15.88	2.97	47.83	5.16	7050	0.1044	3.47
H	Sha Chau & Lung Kwu Chau	18.79	5.42	26.30	3.02	41	0.0052	0.54
I	Oyster Beds at Shekou	16.50	5.04	26.00	1.65	3195	0.0090	1.25
J2	Chinese White Dolphin Feeding Ground	19.59	4.98	23.12	2.90	76	0.0059	0.58
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	16.59	6.69	26.92	2.09	55	0.0103	1.24
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	16.72	4.90	23.84	2.51	1077	0.0061	0.79
L1	Ramsar Site (North)	15.49	2.92	56.98	9.14	67472	0.1357	3.88
L2	Ramsar Site (South)	13.48	5.17	44.57	3.93	9861	0.0333	2.41

Table 7B.7 Differences in Dry Season Results Between Scenario 2 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.33%	0.00%	2.57%	1.80%	4.29%	1.40%	2.33%
DM2	EPD Monitoring Station: DM2	-0.35%	1.08%	3.42%	2.45%	-3.55%	0.75%	2.56%
DM3	EPD Monitoring Station: DM3	-0.03%	2.24%	0.46%	1.60%	5.98%	-0.58%	-0.74%
DM4	EPD Monitoring Station: DM4	-0.03%	-0.26%	0.56%	0.67%	0.20%	0.83%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.04%	0.36%	-0.36%	1.53%	4.67%	-1.36%	-1.09%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	-0.21%	0.00%	0.19%	0.67%	-1.08%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.11%	2.02%	0.00%	1.41%	6.16%	-0.37%	0.50%
D	Mai Po Nature Reserve Area	-0.35%	2.61%	-0.35%	-0.26%	2.87%	0.22%	1.26%
E	Pak Nai SSSI	0.03%	0.57%	-0.40%	1.12%	0.00%	-1.68%	-2.86%
F	Tsim Bei Tsui SSSI	-0.40%	-0.36%	2.31%	1.58%	1.52%	1.29%	2.03%
G	Mangroves & Mudflat at Futian	-0.52%	-0.24%	2.64%	0.64%	3.28%	0.86%	3.08%
H	Sha Chau & Lung Kwu Chau	0.00%	0.00%	0.00%	0.00%	-0.37%	0.00%	0.00%
I	Oyster Beds at Shekou	-1.25%	10.62%	-1.16%	-6.91%	45.11%	6.35%	9.40%
J2	Chinese White Dolphin Feeding Ground	-0.03%	-0.19%	0.05%	0.19%	0.68%	-1.25%	-2.56%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.07%	0.47%	-0.44%	2.05%	4.63%	-2.50%	-1.72%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.00%	0.68%	-0.19%	1.07%	0.00%	-1.83%	-2.27%
L1	Ramsar Site (North)	-0.42%	-0.68%	3.33%	1.22%	-1.47%	0.00%	2.68%
L2	Ramsar Site (South)	-0.55%	-0.45%	2.19%	1.44%	1.75%	1.08%	1.73%

Table 7B.8 Differences in Wet Season Results between Scenario 2 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.72%	-1.28%	0.88%	3.49%	5.13%	5.52%	0.56%
DM2	EPD Monitoring Station: DM2	0.00%	-0.23%	-0.30%	0.00%	-8.80%	-0.36%	-1.85%
DM3	EPD Monitoring Station: DM3	0.00%	0.16%	-0.14%	0.00%	28.14%	0.00%	-2.00%
DM4	EPD Monitoring Station: DM4	0.20%	-0.19%	0.00%	4.00%	3.33%	0.00%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	-0.22%	-0.03%	0.00%	0.13%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	-0.64%	-0.14%	0.18%	5.88%	8.33%	11.11%	1.20%
B	Cooling Water Intake for CLP Black Point Power Station	0.17%	0.00%	0.00%	0.00%	0.14%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.43%	-0.29%	0.92%	10.53%	15.44%	13.33%	1.03%
D	Mai Po Nature Reserve Area	-1.43%	-1.54%	1.44%	3.77%	2.61%	5.86%	2.50%
E	Pak Nai SSSI	-0.22%	0.00%	-0.32%	3.70%	1.37%	0.00%	0.00%
F	Tsim Bei Tsui SSSI	-1.23%	-0.65%	1.20%	2.68%	-1.64%	4.17%	1.73%
G	Mangroves & Mudflat at Futian	0.33%	0.55%	-0.59%	-2.09%	-3.49%	-1.59%	-0.86%
H	Sha Chau & Lung Kwu Chau	0.00%	-0.21%	0.06%	0.00%	-0.71%	0.00%	0.00%
I	Oyster Beds at Shekou	-0.67%	-5.73%	8.63%	14.63%	34.00%	17.50%	7.02%
J2	Chinese White Dolphin Feeding Ground	0.00%	-0.21%	0.08%	0.00%	0.31%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	-0.43%	-0.14%	-0.04%	5.26%	2.81%	0.00%	0.00%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	-0.22%	-0.37%	-0.15%	0.00%	-0.45%	0.00%	0.00%
L1	Ramsar Site (North)	0.00%	2.11%	-0.32%	-0.91%	-1.53%	-0.33%	0.00%
L2	Ramsar Site (South)	-1.41%	-0.67%	1.06%	2.00%	-0.42%	2.60%	1.63%

Table 7B.9 Differences in Annual Average Results between Scenario 2 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.38%	-0.79%	1.69%	2.40%	4.32%	2.44%	1.38%
DM2	EPD Monitoring Station: DM2	-0.37%	0.44%	1.14%	1.63%	-3.71%	0.37%	0.49%
DM3	EPD Monitoring Station: DM3	-0.06%	0.97%	0.12%	1.51%	6.06%	0.00%	-0.85%
DM4	EPD Monitoring Station: DM4	-0.06%	-0.22%	0.25%	0.84%	1.05%	0.00%	0.00%
DM5	EPD Monitoring Station: DM5	0.06%	0.00%	0.00%	0.00%	0.14%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.00%	0.00%	-0.11%	1.96%	4.75%	-1.74%	-0.75%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	0.00%	0.00%	0.35%	0.38%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.18%	0.71%	0.47%	1.80%	6.10%	0.71%	0.67%
D	Mai Po Nature Reserve Area	-0.48%	0.00%	0.32%	0.30%	2.83%	1.37%	1.68%
E	Pak Nai SSSI	0.00%	0.18%	-0.38%	0.84%	0.59%	-1.52%	-1.12%
F	Tsim Bei Tsui SSSI	-0.48%	-0.52%	1.73%	1.94%	1.24%	2.05%	2.14%
G	Mangroves & Mudflat at Futian	-0.44%	0.34%	0.50%	-0.77%	-0.23%	-1.23%	0.58%
H	Sha Chau & Lung Kwu Chau	0.00%	0.00%	0.04%	0.00%	-0.36%	0.00%	0.00%
I	Oyster Beds at Shekou	-1.20%	1.00%	5.05%	-4.07%	42.51%	8.43%	8.70%
J2	Chinese White Dolphin Feeding Ground	-0.05%	-0.20%	0.09%	0.35%	0.50%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.00%	0.15%	-0.22%	1.95%	4.31%	-1.90%	-0.80%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.00%	0.00%	-0.17%	1.21%	0.02%	-1.61%	-1.25%
L1	Ramsar Site (North)	-0.45%	0.00%	0.62%	-0.33%	-1.81%	-0.22%	0.78%
L2	Ramsar Site (South)	-0.59%	-0.39%	1.67%	1.29%	1.58%	1.52%	2.12%

Table 7B.10 Predicted Water Quality Results for Scenario 3 – Dry Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	27.28 (25.64 - 28.43)	4.62 (4.20 - 6.43)	35.05 (28.04 - 45.78)	5.12 (3.85 - 6.77)	7.39E+03 (1.11E+03 - 1.98E+04)	0.0439 (0.0266 - 0.0632)	2.67 (2.00 - 3.48)
DM2	28.39 (27.75 - 28.82)	4.62 (4.25 - 6.07)	26.65 (22.96 - 35.99)	3.79 (3.19 - 5.49)	3.29E+03 (4.34E+02 - 2.90E+04)	0.0272 (0.0211 - 0.0492)	2.04 (1.72 - 2.79)
DM3	29.20 (28.42 - 29.92)	4.11 (3.77 - 5.93)	21.80 (17.95 - 24.40)	3.85 (3.41 - 4.54)	2.44E+02 (4.27E+01 - 1.70E+03)	0.0170 (0.0117 - 0.0235)	1.35 (0.94 - 1.69)
DM4	29.94 (29.55 - 30.51)	3.83 (3.53 - 5.38)	19.83 (17.57 - 21.51)	4.52 (3.71 - 5.31)	1.02E+02 (5.22E+01 - 2.52E+02)	0.0121 (0.0097 - 0.0163)	0.84 (0.58 - 1.14)
DM5	30.63 (29.22 - 31.98)	5.40 (5.11 - 7.19)	21.18 (19.66 - 23.64)	5.48 (5.27 - 5.69)	1.89E+02 (3.19E+01 - 8.12E+02)	0.0076 (0.0044 - 0.0093)	0.38 (0.29 - 0.45)
A	28.42 (27.79 - 28.81)	5.68 (4.85 - 7.07)	27.97 (25.79 - 31.34)	4.03 (3.81 - 4.30)	1.53E+02 (7.70E+01 - 3.60E+02)	0.0214 (0.0171 - 0.0282)	1.81 (1.57 - 2.07)
B	30.64 (30.01 - 31.75)	4.75 (3.96 - 6.36)	20.32 (19.21 - 21.57)	5.28 (4.84 - 5.54)	1.51E+02 (3.75E+01 - 5.68E+02)	0.0092 (0.0071 - 0.0124)	0.52 (0.33 - 0.72)
C	28.06 (27.29 - 28.81)	4.57 (3.78 - 6.76)	31.06 (26.60 - 37.16)	4.34 (3.89 - 5.00)	5.17E+02 (1.57E+02 - 1.49E+03)	0.0265 (0.0191 - 0.0356)	2.02 (1.63 - 2.34)
D	25.59 (24.87 - 26.29)	3.10 (1.72 - 6.47)	71.85 (57.02 - 107.50)	11.60 (9.08 - 15.45)	2.90E+04 (9.16E+03 - 6.12E+04)	0.0933 (0.0750 - 0.1105)	4.05 (3.50 - 4.50)
E	29.10 (28.68 - 29.54)	5.33 (4.92 - 6.83)	22.35 (20.56 - 24.44)	4.58 (3.93 - 5.07)	3.00E+02 (5.13E+01 - 1.03E+03)	0.0114 (0.0087 - 0.0154)	1.00 (0.76 - 1.28)
F	24.76 (23.46 - 25.88)	5.45 (4.68 - 7.54)	38.85 (33.25 - 47.21)	5.17 (4.48 - 6.46)	1.01E+04 (4.75E+03 - 4.13E+04)	0.0477 (0.0433 - 0.0561)	3.05 (2.78 - 3.26)
G	28.66 (28.46 - 28.81)	4.05 (3.16 - 6.43)	34.54 (29.03 - 46.90)	4.74 (4.08 - 6.07)	7.03E+03 (3.14E+03 - 1.59E+04)	0.0354 (0.0323 - 0.0392)	2.39 (2.08 - 2.57)
H	31.35 (30.24 - 32.11)	6.06 (5.64 - 7.11)	20.81 (20.15 - 22.18)	5.50 (5.04 - 5.86)	5.41E+01 (1.76E+01 - 1.86E+02)	0.0064 (0.0045 - 0.0082)	0.31 (0.21 - 0.39)
I	28.41 (27.54 - 29.28)	4.52 (3.85 - 5.90)	18.04 (15.97 - 20.05)	2.73 (2.22 - 3.42)	5.26E+03 (8.90E+02 - 1.36E+04)	0.0136 (0.0115 - 0.0156)	1.34 (1.15 - 1.45)
J2	31.40 (30.41 - 32.17)	5.15 (4.69 - 6.86)	20.13 (19.40 - 20.96)	5.29 (4.98 - 5.52)	8.85E+01 (3.37E+01 - 3.27E+02)	0.0079 (0.0056 - 0.0106)	0.38 (0.25 - 0.54)
K1	28.57 (27.91 - 29.14)	6.48 (5.65 - 7.96)	27.05 (24.15 - 30.28)	4.05 (3.84 - 4.35)	9.09E+01 (4.83E+01 - 1.93E+02)	0.0191 (0.0134 - 0.0253)	1.68 (1.28 - 1.93)
K2	28.91 (28.34 - 29.56)	4.48 (4.16 - 6.30)	21.40 (20.02 - 22.25)	4.74 (4.13 - 5.34)	1.27E+03 (5.94E+02 - 1.94E+03)	0.0106 (0.0081 - 0.0132)	0.84 (0.66 - 1.08)
L1	28.53 (28.17 - 28.72)	4.36 (3.60 - 6.01)	30.96 (27.71 - 38.39)	4.17 (3.70 - 5.52)	6.04E+03 (2.09E+03 - 6.11E+04)	0.0325 (0.0289 - 0.0473)	2.34 (2.05 - 2.73)
L2	23.39 (21.52 - 25.07)	4.34 (3.88 - 7.19)	47.99 (42.83 - 61.03)	6.38 (5.80 - 8.20)	1.75E+04 (7.87E+03 - 3.52E+04)	0.0472 (0.0391 - 0.0572)	2.98 (2.63 - 3.36)

Table 7B.11 Predicted Water Quality Results for Scenario 3 – Wet Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	4.16 (3.45 - 4.90)	5.39 (4.91 - 6.86)	37.77 (28.14 - 48.16)	0.89 (0.20 - 2.39)	7.74E+01 (1.38E+00 - 1.85E+03)	0.0151 (0.0022 - 0.0462)	1.75 (1.01 - 2.69)
DM2	4.11 (3.44 - 4.76)	4.44 (3.86 - 6.33)	39.56 (30.66 - 53.17)	1.21 (0.42 - 4.02)	2.48E+02 (1.87E+01 - 1.03E+04)	0.0271 (0.0047 - 0.0957)	2.08 (1.36 - 3.30)
DM3	4.71 (4.15 - 5.41)	6.27 (5.99 - 6.63)	28.13 (22.97 - 34.12)	0.23 (0.15 - 0.46)	6.90E+00 (8.40E-01 - 9.12E+01)	0.0019 (0.0008 - 0.0068)	0.96 (0.81 - 1.36)
DM4	5.10 (4.19 - 6.19)	5.35 (5.17 - 6.21)	28.67 (24.60 - 34.58)	0.26 (0.16 - 0.38)	2.27E+01 (3.87E+00 - 1.30E+02)	0.0014 (0.0009 - 0.0022)	0.85 (0.80 - 0.97)
DM5	5.64 (2.53 - 9.61)	4.58 (4.51 - 4.94)	35.90 (22.03 - 51.96)	0.55 (0.49 - 0.68)	8.00E+01 (7.38E+00 - 2.82E+02)	0.0039 (0.0032 - 0.0053)	0.80 (0.73 - 0.85)
A	4.65 (4.13 - 5.20)	6.95 (6.84 - 7.18)	27.78 (22.81 - 31.46)	0.18 (0.12 - 0.25)	4.06E+00 (2.75E-01 - 4.08E+01)	0.0010 (0.0005 - 0.0018)	0.82 (0.68 - 1.00)
B	5.88 (3.86 - 7.97)	4.93 (4.86 - 5.66)	29.36 (23.84 - 40.01)	0.42 (0.28 - 0.52)	7.10E+01 (2.07E+01 - 2.58E+02)	0.0027 (0.0016 - 0.0040)	0.79 (0.76 - 0.83)
C	4.62 (4.06 - 5.20)	6.87 (6.78 - 7.12)	29.49 (24.30 - 35.37)	0.21 (0.10 - 0.49)	1.79E+00 (4.50E-02 - 2.42E+01)	0.0017 (0.0005 - 0.0059)	0.97 (0.72 - 1.40)
D	3.44 (3.06 - 3.80)	5.75 (4.72 - 7.29)	43.34 (38.19 - 51.03)	1.63 (0.77 - 3.29)	7.41E+02 (1.40E+02 - 2.56E+03)	0.0250 (0.0093 - 0.0622)	2.01 (1.38 - 2.87)
E	4.52 (3.73 - 5.25)	5.94 (5.86 - 6.41)	25.24 (19.35 - 31.80)	0.28 (0.22 - 0.34)	2.99E+02 (3.23E+01 - 1.02E+03)	0.0014 (0.0011 - 0.0018)	0.74 (0.68 - 0.80)
F	4.01 (3.41 - 4.67)	6.06 (5.71 - 7.12)	41.82 (31.00 - 52.19)	1.14 (0.25 - 2.73)	1.17E+03 (1.43E+01 - 2.41E+04)	0.0124 (0.0023 - 0.0261)	1.73 (1.00 - 2.32)
G	2.99 (2.38 - 3.61)	1.82 (1.30 - 4.73)	62.00 (52.83 - 74.76)	5.63 (2.94 - 10.00)	7.21E+03 (9.61E+02 - 3.90E+04)	0.1728 (0.0694 - 0.2793)	4.57 (3.62 - 5.64)
H	6.24 (3.01 - 9.36)	4.79 (4.70 - 5.13)	31.78 (21.08 - 48.39)	0.54 (0.48 - 0.60)	2.82E+01 (4.60E+00 - 1.60E+02)	0.0040 (0.0030 - 0.0058)	0.78 (0.72 - 0.84)
I	4.42 (4.02 - 4.89)	5.52 (5.24 - 6.38)	34.84 (29.65 - 41.62)	0.48 (0.28 - 0.69)	1.11E+03 (8.86E+01 - 4.84E+03)	0.0048 (0.0022 - 0.0082)	1.25 (1.08 - 1.43)
J2	7.79 (4.79 - 10.39)	4.81 (4.77 - 5.10)	26.10 (19.53 - 37.59)	0.51 (0.41 - 0.61)	6.35E+01 (7.56E+00 - 2.30E+02)	0.0039 (0.0026 - 0.0058)	0.77 (0.72 - 0.82)
K1	4.63 (4.02 - 5.20)	6.89 (6.68 - 7.44)	26.77 (21.41 - 30.71)	0.20 (0.13 - 0.28)	1.92E+01 (4.93E-01 - 1.27E+02)	0.0010 (0.0006 - 0.0015)	0.76 (0.65 - 0.92)
K2	4.54 (3.73 - 5.32)	5.34 (5.23 - 5.80)	26.22 (20.49 - 29.96)	0.31 (0.24 - 0.37)	8.86E+02 (2.85E+02 - 1.39E+03)	0.0015 (0.0012 - 0.0020)	0.72 (0.66 - 0.78)
L1	2.37 (1.92 - 3.06)	1.46 (<0.5 - 4.46)	83.42 (62.98 - 101.70)	14.08 (6.28 - 20.79)	1.29E+05 (2.15E+04 - 3.53E+05)	0.2375 (0.1573 - 0.2822)	5.41 (4.45 - 6.28)
L2	3.51 (2.63 - 4.13)	5.94 (5.54 - 7.39)	41.83 (36.62 - 45.89)	1.52 (0.51 - 2.96)	2.32E+03 (1.00E+02 - 3.01E+04)	0.0196 (0.0056 - 0.0344)	1.84 (1.35 - 2.41)

Table 7B.12 Predicted Water Quality Results for Scenario 3 – Annual Average

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	15.72	5.00	36.41	3.00	3732	0.0295	2.21
DM2	EPD Monitoring Station: DM2	16.25	4.53	33.11	2.50	1770	0.0272	2.06
DM3	EPD Monitoring Station: DM3	16.96	5.19	24.97	2.04	126	0.0094	1.16
DM4	EPD Monitoring Station: DM4	17.52	4.59	24.25	2.39	62	0.0068	0.84
DM5	EPD Monitoring Station: DM5	18.13	4.99	28.54	3.02	134	0.0058	0.59
A	Mangrove near Ngau Hom Shek	16.54	6.32	27.88	2.10	79	0.0112	1.31
B	Cooling Water Intake for CLP Black Point Power Station	18.26	4.84	24.84	2.85	111	0.0059	0.66
C	Oyster Bed near Lau Fau Shan	16.34	5.72	30.28	2.27	259	0.0141	1.49
D	Mai Po Nature Reserve Area	14.52	4.43	57.60	6.62	14866	0.0591	3.03
E	Pak Nai SSSI	16.81	5.64	23.80	2.43	300	0.0064	0.87
F	Tsim Bei Tsui SSSI	14.39	5.75	40.34	3.16	5628	0.0301	2.39
G	Mangroves & Mudflat at Futian	15.83	2.94	48.27	5.18	7120	0.1041	3.48
H	Sha Chau & Lung Kwu Chau	18.80	5.42	26.30	3.02	41	0.0052	0.54
I	Oyster Beds at Shekou	16.42	5.02	26.44	1.61	3184	0.0092	1.29
J2	Chinese White Dolphin Feeding Ground	19.59	4.98	23.12	2.90	76	0.0059	0.58
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	16.60	6.68	26.91	2.12	55	0.0101	1.22
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	16.73	4.91	23.81	2.52	1078	0.0060	0.78
L1	Ramsar Site (North)	15.45	2.91	57.19	9.13	67622	0.1350	3.87
L2	Ramsar Site (South)	13.45	5.14	44.91	3.95	9901	0.0334	2.41

Table 7B.13 Differences in Dry Season Results between Scenario 3 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.58%	-0.22%	4.66%	2.61%	5.72%	2.33%	3.89%
DM2	EPD Monitoring Station: DM2	-0.60%	0.22%	5.96%	3.27%	-2.66%	1.87%	4.62%
DM3	EPD Monitoring Station: DM3	-0.07%	2.24%	1.25%	2.67%	4.27%	-0.58%	-0.74%
DM4	EPD Monitoring Station: DM4	-0.07%	-1.29%	0.76%	0.67%	2.20%	0.83%	1.20%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.07%	0.89%	0.04%	2.81%	2.00%	-2.73%	-1.63%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	-0.21%	-0.05%	0.38%	0.67%	-1.08%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.11%	2.47%	0.65%	2.12%	6.16%	-0.75%	0.50%
D	Mai Po Nature Reserve Area	-0.58%	1.31%	1.41%	0.09%	3.94%	0.65%	2.27%
E	Pak Nai SSSI	0.14%	0.76%	-0.84%	2.23%	0.00%	-4.20%	-4.76%
F	Tsim Bei Tsui SSSI	-0.68%	-0.55%	4.27%	1.97%	2.54%	2.36%	3.39%
G	Mangroves & Mudflat at Futian	-0.83%	-1.70%	6.02%	1.72%	4.93%	1.72%	5.29%
H	Sha Chau & Lung Kwu Chau	0.00%	0.17%	0.00%	0.00%	-0.37%	0.00%	0.00%
I	Oyster Beds at Shekou	-1.73%	11.60%	-0.28%	-10.20%	51.15%	7.94%	14.53%
J2	Chinese White Dolphin Feeding Ground	-0.03%	-0.19%	0.05%	0.19%	0.68%	-1.25%	-2.56%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.18%	0.62%	-0.41%	3.58%	2.71%	-4.50%	-3.45%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.07%	0.90%	-0.47%	1.72%	0.00%	-2.75%	-4.55%
L1	Ramsar Site (North)	-0.73%	-1.36%	6.14%	1.71%	-1.47%	0.62%	4.46%
L2	Ramsar Site (South)	-0.81%	-1.36%	4.26%	2.08%	2.34%	1.94%	3.11%

Table 7B.14 Differences in Wet Season Results between Scenario 3 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.48%	-1.28%	0.21%	3.49%	1.84%	4.14%	-1.13%
DM2	EPD Monitoring Station: DM2	0.00%	0.23%	-1.00%	-0.82%	-12.68%	-1.81%	-3.70%
DM3	EPD Monitoring Station: DM3	0.00%	0.00%	-0.21%	0.00%	37.72%	0.00%	-4.00%
DM4	EPD Monitoring Station: DM4	0.20%	-0.19%	0.17%	4.00%	-5.42%	0.00%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	-0.22%	0.00%	0.00%	0.50%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	-0.85%	-0.14%	0.04%	5.88%	25.31%	11.11%	-1.20%
B	Cooling Water Intake for CLP Black Point Power Station	0.17%	0.00%	0.00%	0.00%	0.14%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.65%	-0.29%	0.72%	10.53%	20.13%	13.33%	0.00%
D	Mai Po Nature Reserve Area	-1.43%	-1.37%	0.70%	2.52%	1.65%	4.60%	0.50%
E	Pak Nai SSSI	0.00%	-0.17%	-0.28%	3.70%	2.05%	0.00%	0.00%
F	Tsim Bei Tsui SSSI	-1.23%	-0.82%	0.58%	1.79%	-4.10%	3.33%	0.00%
G	Mangroves & Mudflat at Futian	0.00%	0.55%	-0.94%	-1.92%	-3.09%	-2.15%	-1.51%
H	Sha Chau & Lung Kwu Chau	0.00%	-0.21%	0.06%	0.00%	-0.35%	0.00%	0.00%
I	Oyster Beds at Shekou	-1.34%	-6.91%	10.96%	17.07%	11.00%	20.00%	9.65%
J2	Chinese White Dolphin Feeding Ground	0.00%	-0.21%	0.08%	0.00%	0.00%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	-0.64%	-0.29%	-0.11%	5.26%	7.87%	0.00%	-1.30%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	-0.22%	-0.37%	-0.11%	0.00%	-0.23%	0.00%	0.00%
L1	Ramsar Site (North)	0.00%	2.82%	-0.80%	-1.19%	-1.53%	-0.96%	-0.92%
L2	Ramsar Site (South)	-1.13%	-0.83%	0.43%	1.33%	-2.11%	2.08%	0.00%

Table 7B.15 Differences in Annual Average Results between Scenario 3 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.57%	-0.99%	2.30%	2.74%	5.67%	2.79%	1.84%
DM2	EPD Monitoring Station: DM2	-0.55%	0.22%	1.69%	2.04%	-3.26%	0.37%	0.49%
DM3	EPD Monitoring Station: DM3	-0.06%	0.97%	0.44%	2.51%	4.92%	-1.05%	-1.69%
DM4	EPD Monitoring Station: DM4	-0.06%	-0.65%	0.41%	0.84%	0.44%	1.49%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.00%	0.00%	0.37%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.00%	0.32%	0.04%	2.94%	2.82%	-2.61%	-2.24%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	0.00%	-0.04%	0.35%	0.31%	-1.67%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.18%	0.88%	0.70%	2.25%	6.01%	0.00%	0.00%
D	Mai Po Nature Reserve Area	-0.62%	-0.23%	1.14%	0.46%	3.92%	1.37%	1.68%
E	Pak Nai SSSI	0.12%	0.36%	-0.54%	2.10%	1.03%	-3.03%	-2.25%
F	Tsim Bei Tsui SSSI	-0.69%	-0.69%	2.33%	2.27%	1.71%	2.73%	2.14%
G	Mangroves & Mudflat at Futian	-0.75%	-0.68%	1.43%	-0.38%	0.76%	-1.51%	0.87%
H	Sha Chau & Lung Kwu Chau	0.05%	0.00%	0.04%	0.00%	-0.31%	0.00%	0.00%
I	Oyster Beds at Shekou	-1.68%	0.60%	6.83%	-6.40%	42.02%	10.84%	12.17%
J2	Chinese White Dolphin Feeding Ground	-0.05%	-0.20%	0.09%	0.35%	0.41%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.06%	0.00%	-0.26%	3.41%	3.63%	-3.81%	-2.40%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.06%	0.20%	-0.29%	1.61%	0.05%	-3.23%	-2.50%
L1	Ramsar Site (North)	-0.71%	-0.34%	0.99%	-0.44%	-1.59%	-0.74%	0.52%
L2	Ramsar Site (South)	-0.81%	-0.96%	2.44%	1.80%	1.99%	1.83%	2.12%

Table 7B.16 Predicted Water Quality Results for Scenario 4 – Dry Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	27.26 (25.64 - 28.40)	4.55 (4.05 - 6.39)	35.63 (28.22 - 46.50)	5.12 (3.82 - 6.71)	7.23E+03 (1.09E+03 - 2.03E+04)	0.0443 (0.0268 - 0.0629)	2.70 (2.02 - 3.51)
DM2	28.37 (27.71 - 28.79)	4.48 (4.16 - 6.00)	27.18 (23.31 - 36.89)	3.82 (3.21 - 5.57)	3.34E+03 (4.33E+02 - 2.87E+04)	0.0281 (0.0217 - 0.0505)	2.09 (1.76 - 2.85)
DM3	29.18 (28.43 - 29.90)	4.03 (3.65 - 5.85)	21.96 (17.93 - 24.64)	3.84 (3.41 - 4.49)	2.48E+02 (4.29E+01 - 1.68E+03)	0.0174 (0.0120 - 0.0240)	1.38 (0.97 - 1.71)
DM4	29.94 (29.59 - 30.49)	3.83 (3.44 - 5.29)	19.77 (17.53 - 21.31)	4.52 (3.72 - 5.29)	1.01E+02 (4.88E+01 - 2.45E+02)	0.0123 (0.0097 - 0.0165)	0.84 (0.59 - 1.13)
DM5	30.62 (29.21 - 31.98)	5.40 (5.12 - 7.20)	21.19 (19.65 - 23.65)	5.48 (5.27 - 5.69)	1.87E+02 (3.16E+01 - 8.02E+02)	0.0076 (0.0044 - 0.0093)	0.37 (0.29 - 0.45)
A	28.39 (27.80 - 28.78)	5.67 (4.82 - 7.02)	28.40 (26.26 - 31.83)	4.00 (3.79 - 4.34)	1.44E+02 (7.03E+01 - 3.40E+02)	0.0217 (0.0175 - 0.0287)	1.84 (1.61 - 2.13)
B	30.63 (29.98 - 31.74)	4.72 (3.96 - 6.35)	20.37 (19.26 - 21.59)	5.29 (4.84 - 5.56)	1.52E+02 (3.84E+01 - 5.80E+02)	0.0092 (0.0071 - 0.0125)	0.51 (0.33 - 0.73)
C	28.05 (27.29 - 28.79)	4.42 (3.68 - 6.68)	31.60 (26.98 - 38.49)	4.34 (3.88 - 5.01)	4.85E+02 (1.55E+02 - 1.30E+03)	0.0267 (0.0193 - 0.0356)	2.04 (1.66 - 2.32)
D	25.55 (24.80 - 26.28)	2.98 (1.54 - 6.42)	73.56 (58.39 - 109.80)	11.73 (9.02 - 15.76)	2.82E+04 (8.65E+03 - 5.56E+04)	0.0940 (0.0742 - 0.1087)	4.09 (3.52 - 4.59)
E	29.06 (28.65 - 29.54)	5.34 (4.98 - 6.82)	22.54 (20.79 - 24.92)	4.56 (3.88 - 5.09)	2.94E+02 (4.59E+01 - 1.01E+03)	0.0115 (0.0086 - 0.0158)	1.02 (0.75 - 1.33)
F	24.74 (23.46 - 25.90)	5.40 (4.64 - 7.51)	39.36 (33.62 - 47.98)	5.16 (4.46 - 6.40)	1.01E+04 (4.62E+03 - 4.15E+04)	0.0478 (0.0434 - 0.0559)	3.08 (2.81 - 3.29)
G	28.66 (28.45 - 28.82)	3.97 (3.06 - 6.40)	35.08 (29.39 - 49.72)	4.73 (4.06 - 6.27)	6.56E+03 (2.94E+03 - 1.55E+04)	0.0360 (0.0330 - 0.0396)	2.43 (2.12 - 2.64)
H	31.35 (30.26 - 32.11)	6.07 (5.63 - 7.11)	20.81 (20.15 - 22.21)	5.50 (5.04 - 5.86)	5.37E+01 (1.77E+01 - 1.81E+02)	0.0064 (0.0045 - 0.0082)	0.31 (0.21 - 0.39)
I	28.25 (27.48 - 29.07)	4.35 (3.89 - 5.80)	18.14 (15.57 - 20.92)	2.80 (2.30 - 3.29)	9.27E+03 (2.06E+03 - 1.65E+04)	0.0152 (0.0126 - 0.0175)	1.40 (1.24 - 1.50)
J2	31.40 (30.38 - 32.17)	5.16 (4.68 - 6.86)	20.14 (19.41 - 20.98)	5.29 (4.98 - 5.53)	8.97E+01 (3.35E+01 - 3.37E+02)	0.0079 (0.0056 - 0.0106)	0.38 (0.25 - 0.53)
K1	28.53 (27.92 - 29.11)	6.46 (5.65 - 7.96)	27.49 (24.51 - 30.64)	4.02 (3.82 - 4.30)	8.47E+01 (4.37E+01 - 1.76E+02)	0.0195 (0.0137 - 0.0257)	1.72 (1.32 - 1.97)
K2	28.87 (28.31 - 29.53)	4.46 (4.13 - 6.24)	21.57 (20.17 - 22.50)	4.75 (4.09 - 5.38)	1.28E+03 (5.98E+02 - 1.98E+03)	0.0107 (0.0081 - 0.0135)	0.85 (0.65 - 1.12)
L1	28.52 (28.17 - 28.72)	4.30 (3.51 - 5.96)	31.64 (28.24 - 38.92)	4.20 (3.70 - 5.65)	6.11E+03 (2.23E+03 - 6.58E+04)	0.0334 (0.0296 - 0.0483)	2.39 (2.09 - 2.79)
L2	23.39 (21.59 - 25.12)	4.31 (3.90 - 6.93)	48.49 (43.14 - 64.77)	6.35 (5.76 - 8.54)	1.73E+04 (7.81E+03 - 3.49E+04)	0.0474 (0.0396 - 0.0571)	3.01 (2.66 - 3.40)

Table 7B.17 Predicted Water Quality Results for Scenario 4 – Wet Season

	Salinity	DO	SS	BOD5	E.coli	UIA	TIN
DM1	3.98 (3.30 - 4.70)	5.41 (4.95 - 6.73)	36.98 (28.01 - 46.68)	0.91 (0.30 - 2.35)	8.53E+01 (4.21E+00 - 1.78E+03)	0.0158 (0.0044 - 0.0455)	1.84 (1.22 - 2.72)
DM2	3.87 (3.25 - 4.53)	4.43 (3.90 - 6.26)	38.37 (29.48 - 52.04)	1.27 (0.46 - 4.06)	3.21E+02 (2.86E+01 - 9.81E+03)	0.0284 (0.0066 - 0.0962)	2.19 (1.43 - 3.36)
DM3	4.60 (4.02 - 5.32)	6.27 (6.02 - 6.64)	27.40 (22.14 - 32.89)	0.24 (0.16 - 0.46)	8.88E+00 (1.16E+00 - 6.77E+01)	0.0020 (0.0009 - 0.0067)	0.98 (0.82 - 1.36)
DM4	5.05 (4.18 - 6.14)	5.34 (5.17 - 6.08)	27.99 (23.79 - 33.91)	0.26 (0.17 - 0.38)	2.43E+01 (4.61E+00 - 1.36E+02)	0.0015 (0.0010 - 0.0022)	0.84 (0.81 - 0.95)
DM5	5.63 (2.50 - 9.62)	4.58 (4.50 - 4.94)	35.94 (21.99 - 52.17)	0.55 (0.49 - 0.68)	8.09E+01 (7.37E+00 - 2.77E+02)	0.0039 (0.0032 - 0.0053)	0.80 (0.73 - 0.85)
A	4.58 (4.07 - 5.13)	6.97 (6.85 - 7.19)	27.18 (22.49 - 30.61)	0.18 (0.12 - 0.25)	3.78E+00 (2.62E-01 - 3.75E+01)	0.0010 (0.0005 - 0.0017)	0.83 (0.69 - 0.99)
B	5.85 (3.85 - 7.97)	4.92 (4.85 - 5.64)	29.29 (23.61 - 40.13)	0.42 (0.29 - 0.52)	7.16E+01 (2.13E+01 - 2.65E+02)	0.0027 (0.0016 - 0.0040)	0.79 (0.76 - 0.84)
C	4.53 (3.97 - 5.09)	6.90 (6.81 - 7.13)	28.69 (23.97 - 33.88)	0.20 (0.11 - 0.45)	1.63E+00 (4.82E-02 - 1.95E+01)	0.0017 (0.0005 - 0.0055)	0.98 (0.75 - 1.38)
D	3.31 (2.93 - 3.67)	5.81 (4.83 - 7.32)	42.35 (37.53 - 49.55)	1.61 (0.78 - 3.21)	7.23E+02 (1.42E+02 - 2.55E+03)	0.0244 (0.0094 - 0.0607)	2.05 (1.45 - 2.87)
E	4.48 (3.68 - 5.21)	5.94 (5.84 - 6.42)	25.02 (19.17 - 32.02)	0.28 (0.22 - 0.34)	2.97E+02 (3.30E+01 - 9.72E+02)	0.0014 (0.0011 - 0.0019)	0.74 (0.68 - 0.80)
F	3.87 (3.27 - 4.53)	6.09 (5.73 - 7.14)	40.88 (30.32 - 51.00)	1.14 (0.27 - 2.68)	1.13E+03 (1.27E+01 - 2.41E+04)	0.0125 (0.0026 - 0.0261)	1.78 (1.09 - 2.34)
G	2.80 (2.25 - 3.39)	1.83 (1.30 - 4.71)	61.34 (51.80 - 74.28)	5.72 (2.96 - 10.14)	7.29E+03 (1.06E+03 - 4.04E+04)	0.1741 (0.0701 - 0.2810)	4.65 (3.68 - 5.73)
H	6.24 (3.02 - 9.37)	4.79 (4.71 - 5.14)	31.79 (21.06 - 48.65)	0.54 (0.48 - 0.60)	2.82E+01 (4.69E+00 - 1.60E+02)	0.0040 (0.0030 - 0.0059)	0.78 (0.72 - 0.84)
I	3.95 (3.40 - 4.48)	4.99 (4.62 - 6.29)	34.11 (29.02 - 44.74)	0.58 (0.34 - 0.84)	1.98E+03 (2.18E+02 - 9.39E+03)	0.0063 (0.0032 - 0.0107)	1.24 (1.11 - 1.43)
J2	7.77 (4.67 - 10.38)	4.81 (4.76 - 5.09)	26.13 (19.55 - 38.15)	0.51 (0.42 - 0.61)	6.45E+01 (7.65E+00 - 2.31E+02)	0.0039 (0.0027 - 0.0058)	0.77 (0.72 - 0.82)
K1	4.58 (3.97 - 5.14)	6.90 (6.70 - 7.45)	26.29 (21.11 - 30.11)	0.20 (0.13 - 0.27)	1.89E+01 (5.06E-01 - 1.20E+02)	0.0010 (0.0006 - 0.0014)	0.77 (0.66 - 0.91)
K2	4.51 (3.66 - 5.28)	5.33 (5.23 - 5.79)	26.03 (20.24 - 30.07)	0.31 (0.24 - 0.38)	8.92E+02 (3.13E+02 - 1.45E+03)	0.0015 (0.0012 - 0.0020)	0.72 (0.66 - 0.78)
L1	2.22 (1.82 - 2.83)	1.42 (< 0.5 - 4.37)	83.09 (62.70 - 100.80)	14.31 (6.51 - 20.79)	1.32E+05 (2.22E+04 - 3.56E+05)	0.2387 (0.1636 - 0.2850)	5.49 (4.58 - 6.39)
L2	3.37 (2.51 - 3.99)	5.97 (5.57 - 7.38)	41.00 (35.86 - 44.69)	1.52 (0.53 - 2.95)	2.29E+03 (1.04E+02 - 2.98E+04)	0.0196 (0.0059 - 0.0343)	1.89 (1.44 - 2.44)

Table 7B.18 Predicted Water Quality Results for Scenario 4 – Annual Average

Indicator Point		Parameters						
		Salinity	DO	SS	BOD5	E. coli	UIA	TIN
		Ppt	Mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	15.62	4.98	36.31	3.02	3659	0.0300	2.27
DM2	EPD Monitoring Station: DM2	16.12	4.46	32.78	2.54	1829	0.0283	2.14
DM3	EPD Monitoring Station: DM3	16.89	5.15	24.68	2.04	128	0.0097	1.18
DM4	EPD Monitoring Station: DM4	17.49	4.58	23.88	2.39	63	0.0069	0.84
DM5	EPD Monitoring Station: DM5	18.13	4.99	28.57	3.02	134	0.0058	0.59
A	Mangrove near Ngau Hom Shek	16.49	6.32	27.79	2.09	74	0.0113	1.33
B	Cooling Water Intake for CLP Black Point Power Station	18.24	4.82	24.83	2.86	112	0.0060	0.65
C	Oyster Bed near Lau Fau Shan	16.29	5.66	30.15	2.27	243	0.0142	1.51
D	Mai Po Nature Reserve Area	14.43	4.39	57.96	6.67	14456	0.0592	3.07
E	Pak Nai SSSI	16.77	5.64	23.78	2.42	296	0.0065	0.88
F	Tsim Bei Tsui SSSI	14.30	5.74	40.12	3.15	5591	0.0302	2.43
G	Mangroves & Mudflat at Futian	15.73	2.90	48.21	5.23	6924	0.1050	3.54
H	Sha Chau & Lung Kwu Chau	18.80	5.43	26.30	3.02	41	0.0052	0.54
I	Oyster Beds at Shekou	16.10	4.67	26.13	1.69	5623	0.0107	1.32
J2	Chinese White Dolphin Feeding Ground	19.59	4.98	23.14	2.90	77	0.0059	0.57
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	16.55	6.68	26.89	2.11	52	0.0102	1.24
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	16.69	4.89	23.80	2.53	1086	0.0061	0.79
L1	Ramsar Site (North)	15.37	2.86	57.37	9.26	69106	0.1360	3.94
L2	Ramsar Site (South)	13.38	5.14	44.75	3.93	9799	0.0335	2.45

Table 7B.19 Differences in Dry Season Results between Scenario 4 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.66%	-1.73%	6.39%	2.61%	3.43%	3.26%	5.06%
DM2	EPD Monitoring Station: DM2	-0.67%	-2.82%	8.07%	4.09%	-1.18%	5.24%	7.18%
DM3	EPD Monitoring Station: DM3	-0.14%	0.25%	2.00%	2.40%	5.98%	1.75%	1.47%
DM4	EPD Monitoring Station: DM4	-0.07%	-1.29%	0.46%	0.67%	1.20%	2.50%	1.20%
DM5	EPD Monitoring Station: DM5	-0.03%	0.00%	0.05%	0.00%	-0.53%	0.00%	-2.63%
A	Mangrove near Ngau Hom Shek	-0.04%	0.71%	1.57%	2.04%	-4.00%	-1.36%	0.00%
B	Cooling Water Intake for CLP Black Point Power Station	-0.03%	-0.84%	0.20%	0.57%	1.33%	-1.08%	-1.92%
C	Oyster Bed near Lau Fau Shan	-0.14%	-0.90%	2.40%	2.12%	-0.41%	0.00%	1.49%
D	Mai Po Nature Reserve Area	-0.74%	-2.61%	3.82%	1.21%	1.08%	1.40%	3.28%
E	Pak Nai SSSI	0.00%	0.95%	0.00%	1.79%	-2.00%	-3.36%	-2.86%
F	Tsim Bei Tsui SSSI	-0.76%	-1.46%	5.64%	1.78%	2.54%	2.58%	4.41%
G	Mangroves & Mudflat at Futian	-0.83%	-3.64%	7.67%	1.50%	-2.09%	3.45%	7.05%
H	Sha Chau & Lung Kwu Chau	0.00%	0.33%	0.00%	0.00%	-1.10%	0.00%	0.00%
I	Oyster Beds at Shekou	-2.28%	7.41%	0.28%	-7.89%	166.38%	20.63%	19.66%
J2	Chinese White Dolphin Feeding Ground	-0.03%	0.00%	0.10%	0.19%	2.05%	-1.25%	-2.56%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.04%	0.31%	1.22%	2.81%	-4.29%	-2.50%	-1.15%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	-0.07%	0.45%	0.33%	1.93%	0.79%	-1.83%	-3.41%
L1	Ramsar Site (North)	-0.77%	-2.71%	8.47%	2.44%	-0.33%	3.41%	6.70%
L2	Ramsar Site (South)	-0.81%	-2.05%	5.34%	1.60%	1.17%	2.38%	4.15%

Table 7B.20 Differences in Wet Season Results between Scenario 4 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-4.78%	-0.92%	-1.88%	5.81%	12.24%	8.97%	3.95%
DM2	EPD Monitoring Station: DM2	-5.84%	0.00%	-3.98%	4.10%	13.03%	2.90%	1.39%
DM3	EPD Monitoring Station: DM3	-2.34%	0.00%	-2.80%	4.35%	77.25%	5.26%	-2.00%
DM4	EPD Monitoring Station: DM4	-0.79%	-0.37%	-2.20%	4.00%	1.25%	7.14%	-1.18%
DM5	EPD Monitoring Station: DM5	-0.18%	-0.22%	0.11%	0.00%	1.63%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	-2.35%	0.14%	-2.12%	5.88%	16.67%	11.11%	0.00%
B	Cooling Water Intake for CLP Black Point Power Station	-0.34%	-0.20%	-0.24%	0.00%	0.99%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	-2.58%	0.15%	-2.02%	5.26%	9.40%	13.33%	1.03%
D	Mai Po Nature Reserve Area	-5.16%	-0.34%	-1.60%	1.26%	-0.82%	2.09%	2.50%
E	Pak Nai SSSI	-0.88%	-0.17%	-1.15%	3.70%	1.37%	0.00%	0.00%
F	Tsim Bei Tsui SSSI	-4.68%	-0.33%	-1.68%	1.79%	-7.38%	4.17%	2.89%
G	Mangroves & Mudflat at Futian	-6.35%	1.10%	-2.00%	-0.35%	-2.02%	-1.42%	0.22%
H	Sha Chau & Lung Kwu Chau	0.00%	-0.21%	0.09%	0.00%	-0.35%	0.00%	0.00%
I	Oyster Beds at Shekou	-11.83%	-15.85%	8.63%	41.46%	98.00%	57.50%	8.77%
J2	Chinese White Dolphin Feeding Ground	-0.26%	-0.21%	0.19%	0.00%	1.57%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	-1.72%	-0.14%	-1.90%	5.26%	6.18%	0.00%	0.00%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	-0.88%	-0.56%	-0.84%	0.00%	0.45%	0.00%	0.00%
L1	Ramsar Site (North)	-6.33%	0.00%	-1.19%	0.42%	0.76%	-0.46%	0.55%
L2	Ramsar Site (South)	-5.07%	-0.33%	-1.56%	1.33%	-3.38%	2.08%	2.72%

Table 7B.21 Differences in Annual Average Results between Scenario 4 and Scenario 1

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	Mg/L	Mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-1.20%	-1.39%	2.02%	3.42%	3.61%	4.53%	4.61%
DM2	EPD Monitoring Station: DM2	-1.35%	-1.33%	0.68%	3.67%	-0.02%	4.43%	4.39%
DM3	EPD Monitoring Station: DM3	-0.47%	0.19%	-0.72%	2.51%	7.21%	2.11%	0.00%
DM4	EPD Monitoring Station: DM4	-0.23%	-0.87%	-1.12%	0.84%	1.00%	2.99%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.11%	0.00%	0.24%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	-0.30%	0.32%	-0.29%	2.45%	-3.43%	-1.74%	-0.75%
B	Cooling Water Intake for CLP Black Point Power Station	-0.11%	-0.41%	-0.08%	0.70%	1.17%	0.00%	-1.52%
C	Oyster Bed near Lau Fau Shan	-0.49%	-0.18%	0.27%	2.25%	-0.48%	0.71%	1.34%
D	Mai Po Nature Reserve Area	-1.23%	-1.13%	1.77%	1.21%	1.06%	1.54%	3.02%
E	Pak Nai SSSI	-0.12%	0.36%	-0.63%	1.68%	-0.25%	-1.52%	-1.12%
F	Tsim Bei Tsui SSSI	-1.31%	-0.86%	1.78%	1.94%	1.04%	3.07%	3.85%
G	Mangroves & Mudflat at Futian	-1.38%	-2.03%	1.30%	0.58%	-2.02%	-0.66%	2.61%
H	Sha Chau & Lung Kwu Chau	0.05%	0.18%	0.04%	0.00%	-0.85%	0.00%	0.00%
I	Oyster Beds at Shekou	-3.59%	-6.41%	5.58%	-1.74%	150.80%	28.92%	14.78%
J2	Chinese White Dolphin Feeding Ground	-0.05%	-0.20%	0.17%	0.35%	1.86%	0.00%	-1.72%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	-0.24%	0.00%	-0.33%	2.93%	-2.52%	-2.86%	-0.80%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	-0.18%	-0.20%	-0.34%	2.02%	0.88%	-1.61%	-1.25%
L1	Ramsar Site (North)	-1.22%	-2.05%	1.31%	0.98%	0.57%	0.00%	2.34%
L2	Ramsar Site (South)	-1.33%	-0.96%	2.08%	1.29%	0.94%	2.13%	3.81%

Table 7B.22 Differences in Dry Season Results Between Scenario 3 and Scenario 2

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.26%	-0.22%	2.04%	0.79%	1.37%	0.92%	1.52%
DM2	EPD Monitoring Station: DM2	-0.25%	-0.86%	2.46%	0.80%	0.92%	1.12%	2.00%
DM3	EPD Monitoring Station: DM3	-0.03%	0.00%	0.79%	1.05%	-1.61%	0.00%	0.00%
DM4	EPD Monitoring Station: DM4	-0.03%	-1.03%	0.20%	0.00%	2.00%	0.00%	1.20%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.04%	0.53%	0.39%	1.26%	-2.55%	-1.38%	-0.55%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	0.00%	-0.05%	0.19%	0.00%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	0.00%	0.44%	0.65%	0.70%	0.00%	-0.38%	0.00%
D	Mai Po Nature Reserve Area	-0.23%	-1.27%	1.77%	0.35%	1.05%	0.43%	1.00%
E	Pak Nai SSSI	0.10%	0.19%	-0.45%	1.10%	0.00%	-2.56%	-1.96%
F	Tsim Bei Tsui SSSI	-0.28%	-0.18%	1.92%	0.39%	1.00%	1.06%	1.33%
G	Mangroves & Mudflat at Futian	-0.31%	-1.46%	3.29%	1.07%	1.59%	0.85%	2.14%
H	Sha Chau & Lung Kwu Chau	0.00%	0.17%	0.00%	0.00%	0.00%	0.00%	0.00%
I	Oyster Beds at Shekou	-0.49%	0.89%	0.89%	-3.53%	4.16%	1.49%	4.69%
J2	Chinese White Dolphin Feeding Ground	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.11%	0.15%	0.04%	1.50%	-1.84%	-2.05%	-1.75%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.07%	0.22%	-0.28%	0.64%	0.00%	-0.93%	-2.33%
L1	Ramsar Site (North)	-0.31%	-0.68%	2.72%	0.48%	0.00%	0.62%	1.74%
L2	Ramsar Site (South)	-0.26%	-0.91%	2.02%	0.63%	0.57%	0.85%	1.36%

Table 7B.23 Differences in Wet Season Results between Scenario 3 and Scenario 2

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	mg/L	mg/L
DM1	EPD Monitoring Station: DM1	0.24%	0.00%	-0.66%	0.00%	-3.13%	-1.31%	-1.69%
DM2	EPD Monitoring Station: DM2	0.00%	0.45%	-0.70%	-0.82%	-4.25%	-1.45%	-1.89%
DM3	EPD Monitoring Station: DM3	0.00%	-0.16%	-0.07%	0.00%	7.48%	0.00%	-2.04%
DM4	EPD Monitoring Station: DM4	0.00%	0.00%	0.17%	0.00%	-8.47%	0.00%	0.00%
DM5	EPD Monitoring Station: DM5	0.00%	0.00%	0.03%	0.00%	0.38%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	-0.21%	0.00%	-0.14%	0.00%	15.67%	0.00%	-2.38%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
C	Oyster Bed near Lau Fau Shan	-0.22%	0.00%	-0.20%	0.00%	4.07%	0.00%	-1.02%
D	Mai Po Nature Reserve Area	0.00%	0.17%	-0.73%	-1.21%	-0.94%	-1.19%	-1.95%
E	Pak Nai SSSI	0.22%	-0.17%	0.04%	0.00%	0.67%	0.00%	0.00%
F	Tsim Bei Tsui SSSI	0.00%	-0.16%	-0.62%	-0.87%	-2.50%	-0.80%	-1.70%
G	Mangroves & Mudflat at Futian	-0.33%	0.00%	-0.35%	0.18%	0.42%	-0.58%	-0.65%
H	Sha Chau & Lung Kwu Chau	0.00%	0.00%	0.00%	0.00%	0.36%	0.00%	0.00%
I	Oyster Beds at Shekou	-0.67%	-1.25%	2.14%	2.13%	-17.16%	2.13%	2.46%
J2	Chinese White Dolphin Feeding Ground	0.00%	0.00%	0.00%	0.00%	-0.31%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	-0.22%	-0.14%	-0.07%	0.00%	4.92%	0.00%	-1.30%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.00%	0.00%	0.04%	0.00%	0.23%	0.00%	0.00%
L1	Ramsar Site (North)	0.00%	0.69%	-0.48%	-0.28%	0.00%	-0.63%	-0.92%
L2	Ramsar Site (South)	0.29%	-0.17%	-0.62%	-0.65%	-1.69%	-0.51%	-1.60%

Table 7B.24 Differences in Annual Average Results between Scenario 3 and Scenario 2

Indicator Point		Parameters						
		Salinity	DO	SS	BOD ₅	E. coli	UIA	TIN
		Ppt	mg/L	mg/L	mg/L	Count/100mL	Mg/L	mg/L
DM1	EPD Monitoring Station: DM1	-0.19%	-0.20%	0.61%	0.33%	1.30%	0.34%	0.45%
DM2	EPD Monitoring Station: DM2	-0.18%	-0.22%	0.55%	0.40%	0.47%	0.00%	0.00%
DM3	EPD Monitoring Station: DM3	0.00%	0.00%	0.32%	0.99%	-1.07%	-1.05%	-0.85%
DM4	EPD Monitoring Station: DM4	0.00%	-0.43%	0.17%	0.00%	-0.61%	1.49%	0.00%
DM5	EPD Monitoring Station: DM5	-0.06%	0.00%	0.00%	0.00%	0.22%	0.00%	0.00%
A	Mangrove near Ngau Hom Shek	0.00%	0.32%	0.14%	0.96%	-1.85%	-0.88%	-1.50%
B	Cooling Water Intake for CLP Black Point Power Station	0.00%	0.00%	-0.04%	0.00%	-0.07%	-1.67%	0.00%
C	Oyster Bed near Lau Fau Shan	0.00%	0.18%	0.23%	0.44%	-0.08%	-0.70%	-0.67%
D	Mai Po Nature Reserve Area	-0.14%	-0.23%	0.82%	0.15%	1.07%	0.00%	0.00%
E	Pak Nai SSSI	0.12%	0.18%	-0.17%	1.25%	0.44%	-1.54%	-1.14%
F	Tsim Bei Tsui SSSI	-0.21%	-0.17%	0.60%	0.32%	0.46%	0.67%	0.00%
G	Mangroves & Mudflat at Futian	-0.31%	-1.01%	0.92%	0.39%	0.99%	-0.29%	0.29%
H	Sha Chau & Lung Kwu Chau	0.05%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%
I	Oyster Beds at Shekou	-0.48%	-0.40%	1.69%	-2.42%	-0.34%	2.22%	3.20%
J2	Chinese White Dolphin Feeding Ground	0.00%	0.00%	0.00%	0.00%	-0.09%	0.00%	0.00%
K1	Seagrass Bed/ Horseshoe Crab Area between Ngau Hom Shek & Pak Nai SSSI	0.06%	-0.15%	-0.04%	1.44%	-0.65%	-1.94%	-1.61%
K2	Seagrass Bed/ Horseshoe Crab Area at Ha Pak Nai	0.06%	0.20%	-0.13%	0.40%	0.03%	-1.64%	-1.27%
L1	Ramsar Site (North)	-0.26%	-0.34%	0.37%	-0.11%	0.22%	-0.52%	-0.26%
L2	Ramsar Site (South)	-0.22%	-0.58%	0.76%	0.51%	0.41%	0.30%	0.00%