

Appendix 4-5

Model Results at Indicator Points for 2012 – Wet Season

Results at Indicator Points - Normal Operation - 2012 (Wet Season)

Note: Shaded and bolded - value exceeded the WQO

(I) WSD Flushing Water Intakes and Cooling Water Intakes

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
WSD Flushing Water Intakes								
Assessment Criteria								
			>2	N/A	<1	<20000	<10	<10
WSD1	Near Butterfly Beach	without the Project (1a)	3.96	0.004	0.038	456	14.24	0.43
		with the Project (1b)	3.97	0.004	0.038	276	14.21	0.43
		Sensitivity Test - Higher Treatment Level (1c)	4.01	0.004	0.034	275	14.17	0.41
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.97	0.004	0.038	276	14.21	0.43
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.97	0.004	0.038	1047	14.21	0.43
		Treated Effluent at Emergency Bypass for 12 days (6)	3.96	0.004	0.040	279	14.21	0.43
WSD2	Near LRT Terminus	without the Project (1a)	3.99	0.004	0.039	2463	12.97	0.52
		with the Project (1b)	4.00	0.004	0.039	2443	12.94	0.51
		Sensitivity Test - Higher Treatment Level (1c)	4.05	0.004	0.036	2442	12.91	0.50
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.00	0.004	0.039	2445	12.94	0.51
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.00	0.004	0.040	2770	12.94	0.51
		Treated Effluent at Emergency Bypass for 12 days (5)	4.00	0.005	0.044	2457	12.94	0.56
WSD3	Near Hong Kong Garden	without the Project (1a)	4.11	0.004	0.042	282	11.59	0.38
		with the Project (1b)	4.11	0.004	0.042	85	11.56	0.38
		Sensitivity Test - Higher Treatment Level (1c)	4.15	0.004	0.041	81	11.54	0.38
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.11	0.004	0.042	134	11.56	0.38
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.11	0.004	0.042	316	11.56	0.38
		Treated Effluent at Emergency Bypass for 12 days (5)	4.11	0.004	0.042	85	11.56	0.38
WSD4	Tsuen Wan	without the Project (1a)	4.29	0.004	0.042	1375	9.06	0.59
		with the Project (1b)	4.29	0.004	0.042	1374	9.04	0.59
		Sensitivity Test - Higher Treatment Level (1c)	4.31	0.004	0.042	1374	9.02	0.59
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.29	0.004	0.042	1374	9.04	0.59
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.29	0.004	0.042	1374	9.04	0.59
		Treated Effluent at Emergency Bypass for 12 days (5)	4.29	0.004	0.042	1374	9.04	0.62
WSD5	Tsing Yi	without the Project (1a)	4.14	0.006	0.056	2290	8.88	0.71
		with the Project (1b)	4.14	0.006	0.056	2290	8.87	0.71
		Sensitivity Test - Higher Treatment Level (1c)	4.16	0.006	0.056	2290	8.85	0.71
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.14	0.006	0.056	2290	8.87	0.71
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.14	0.006	0.056	2290	8.87	0.71
		Treated Effluent at Emergency Bypass for 12 days (5)	4.14	0.006	0.056	2290	8.87	0.75
WSD6	Cheung Sha Wan	without the Project (1a)	4.07	0.011	0.110	11127	9.57	2.25
		with the Project (1b)	4.08	0.011	0.110	11126	9.56	2.25
		Sensitivity Test - Higher Treatment Level (1c)	4.09	0.011	0.110	11126	9.56	2.25
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.08	0.011	0.110	11126	9.56	2.25
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.08	0.011	0.110	11126	9.56	2.25
		Treated Effluent at Emergency Bypass for 12 days (5)	4.08	0.011	0.110	11126	9.63	2.28
WSD7	Kowloon South	without the Project (1a)	4.38	0.008	0.081	5263	7.25	1.20
		with the Project (1b)	4.38	0.008	0.081	5262	7.24	1.20
		Sensitivity Test - Higher Treatment Level (1c)	4.39	0.008	0.081	5262	7.24	1.20
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.38	0.008	0.081	5262	7.24	1.20
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.38	0.008	0.081	5262	7.24	1.20
		Treated Effluent at Emergency Bypass for 12 days (5)	4.38	0.008	0.081	5262	7.26	1.23
WSD8	Yau Ma Tei	without the Project (1a)	4.37	0.009	0.090	2399	7.12	0.94
		with the Project (1b)	4.37	0.009	0.090	2399	7.12	0.94
		Sensitivity Test - Higher Treatment Level (1c)	4.38	0.009	0.090	2399	7.11	0.94
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.37	0.009	0.090	2399	7.12	0.94
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.37	0.009	0.090	2399	7.12	0.94
		Treated Effluent at Emergency Bypass for 12 days (5)	4.37	0.009	0.090	2399	7.12	0.97
WSD9	Tai Wan	without the Project (1a)	4.55	0.009	0.089	3115	6.77	0.89
		with the Project (1b)	4.55	0.009	0.089	3115	6.76	0.89
		Sensitivity Test - Higher Treatment Level (1c)	4.56	0.009	0.089	3115	6.76	0.89
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.55	0.009	0.089	3115	6.76	0.89
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.55	0.009	0.089	3115	6.76	0.89
		Treated Effluent at Emergency Bypass for 12 days (5)	4.55	0.009	0.089	3115	6.76	0.93
WSD10	Cha Kwo Ling	without the Project (1a)	4.64	0.014	0.137	1601	6.97	1.05
		with the Project (1b)	4.64	0.014	0.137	1601	6.97	1.05
		Sensitivity Test - Higher Treatment Level (1c)	4.65	0.014	0.137	1601	6.97	1.05
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.64	0.014	0.137	1601	6.97	1.05
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.64	0.014	0.137	1601	6.97	1.05
		Treated Effluent at Emergency Bypass for 12 days (5)	4.64	0.014	0.137	1601	7.10	1.11

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
WSD11	Yau Tong	without the Project (1a)	4.64	0.010	0.101	1726	6.81	0.91
		with the Project (1b)	4.64	0.010	0.101	1726	6.81	0.91
		Sensitivity Test - Higher Treatment Level (1c)	4.65	0.010	0.101	1726	6.81	0.91
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.64	0.010	0.101	1726	6.81	0.91
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.64	0.010	0.101	1726	6.81	0.91
		Treated Effluent at Emergency Bypass for 12 days (5)	4.64	0.010	0.101	1726	6.87	0.96
WSD12	Tseung Kwan O	without the Project (1a)	5.26	0.003	0.033	712	5.58	0.84
		with the Project (1b)	5.26	0.003	0.033	712	5.58	0.84
		Sensitivity Test - Higher Treatment Level (1c)	5.26	0.003	0.033	712	5.58	0.84
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	5.26	0.003	0.033	712	5.58	0.84
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	5.26	0.003	0.033	712	5.58	0.84
		Treated Effluent at Emergency Bypass for 12 days (5)	5.26	0.003	0.033	712	5.64	0.86
WSD13	Siu Sai Wan	without the Project (1a)	5.05	0.006	0.055	7000	6.22	1.10
		with the Project (1b)	5.05	0.006	0.055	7000	6.22	1.10
		Sensitivity Test - Higher Treatment Level (1c)	5.06	0.006	0.055	7000	6.22	1.10
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	5.05	0.006	0.055	7000	6.22	1.10
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	5.05	0.006	0.055	7000	6.22	1.10
		Treated Effluent at Emergency Bypass for 12 days (5)	5.05	0.006	0.055	7000	6.22	1.10
WSD14	Heng Fa Chuen	without the Project (1a)	4.65	0.006	0.057	3350	6.46	0.81
		with the Project (1b)	4.65	0.006	0.057	3350	6.45	0.81
		Sensitivity Test - Higher Treatment Level (1c)	4.66	0.006	0.057	3350	6.45	0.81
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.65	0.006	0.057	3350	6.45	0.81
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.65	0.006	0.057	3350	6.45	0.81
		Treated Effluent at Emergency Bypass for 12 days (5)	4.65	0.006	0.057	3350	6.45	0.81
WSD15	Sai Wan Ho	without the Project (1a)	4.59	0.006	0.064	6170	6.65	0.88
		with the Project (1b)	4.59	0.006	0.064	6170	6.65	0.88
		Sensitivity Test - Higher Treatment Level (1c)	4.59	0.006	0.063	6170	6.65	0.88
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.59	0.006	0.064	6170	6.65	0.88
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.59	0.006	0.064	6170	6.65	0.88
		Treated Effluent at Emergency Bypass for 12 days (5)	4.59	0.006	0.064	6170	6.65	0.91
WSD16	Quarry Bay	without the Project (1a)	4.57	0.007	0.071	9027	6.81	0.94
		with the Project (1b)	4.58	0.007	0.071	9027	6.81	0.94
		Sensitivity Test - Higher Treatment Level (1c)	4.58	0.007	0.071	9027	6.81	0.94
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.58	0.007	0.071	9027	6.81	0.94
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.58	0.007	0.071	9027	6.81	0.94
		Treated Effluent at Emergency Bypass for 12 days (5)	4.58	0.007	0.071	9027	6.81	0.94
WSD17	North Point	without the Project (1a)	4.54	0.007	0.074	17002	6.83	1.07
		with the Project (1b)	4.54	0.007	0.074	17002	6.83	1.07
		Sensitivity Test - Higher Treatment Level (1c)	4.55	0.007	0.074	17002	6.82	1.07
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.54	0.007	0.074	17002	6.83	1.07
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.54	0.007	0.074	17002	6.83	1.07
		Treated Effluent at Emergency Bypass for 12 days (5)	4.54	0.007	0.074	17002	6.83	1.10
WSD18	Central Water Front	without the Project (1a)	4.40	0.012	0.123	8777	7.40	0.90
		with the Project (1b)	4.40	0.012	0.123	8777	7.39	0.90
		Sensitivity Test - Higher Treatment Level (1c)	4.41	0.012	0.122	8777	7.39	0.90
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.40	0.012	0.123	8777	7.39	0.90
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.40	0.012	0.123	8777	7.39	0.90
		Treated Effluent at Emergency Bypass for 12 days (5)	4.40	0.012	0.123	8777	7.39	0.93
WSD19	Sheung Wan	without the Project (1a)	4.41	0.013	0.131	18911	7.65	1.24
		with the Project (1b)	4.41	0.013	0.131	18910	7.64	1.24
		Sensitivity Test - Higher Treatment Level (1c)	4.42	0.013	0.131	18910	7.64	1.24
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.41	0.013	0.131	18910	7.64	1.24
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.41	0.013	0.131	18911	7.64	1.24
		Treated Effluent at Emergency Bypass for 12 days (5)	4.41	0.013	0.131	18911	7.64	1.27
WSD20	Kennedy Town	without the Project (1a)	4.70	0.008	0.080	469	7.42	0.53
		with the Project (1b)	4.70	0.008	0.080	469	7.41	0.53
		Sensitivity Test - Higher Treatment Level (1c)	4.72	0.008	0.080	469	7.40	0.53
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.70	0.008	0.080	469	7.41	0.53
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.70	0.008	0.080	469	7.41	0.53
		Treated Effluent at Emergency Bypass for 12 days (5)	4.70	0.008	0.080	469	7.41	0.55
WSD21	Ap Lei Chau	without the Project (1a)	5.17	0.003	0.035	5063	6.26	0.39
		with the Project (1b)	5.17	0.003	0.035	5063	6.25	0.39
		Sensitivity Test - Higher Treatment Level (1c)	5.17	0.003	0.035	5063	6.25	0.39
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	5.17	0.003	0.035	5063	6.25	0.39
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	5.17	0.003	0.035	5063	6.25	0.39
		Treated Effluent at Emergency Bypass for 12 days (5)	5.16	0.003	0.035	5063	6.25	0.39

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cooling Water Intakes								
Assessment Criteria			N/A	N/A	N/A	N/A	N/A	N/A
C1	CLP Black Point Power Station	without the Project (1a)	3.43	0.009	0.082	620	24.01	0.69
		with the Project (1b)	3.44	0.009	0.082	554	23.99	0.69
		Sensitivity Test - Higher Treatment Level (1c)	3.46	0.008	0.080	553	23.98	0.68
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.44	0.009	0.082	554	23.99	0.69
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.44	0.009	0.082	554	23.99	0.69
		Treated Effluent at Emergency Bypass for 12 days (5)	3.44	0.009	0.082	554	23.99	0.69
C2	Castle Peak Power Station	without the Project (1a)	3.66	0.005	0.047	685	21.08	0.53
		with the Project (1b)	3.66	0.005	0.047	521	21.06	0.53
		Sensitivity Test - Higher Treatment Level (1c)	3.69	0.005	0.045	521	21.03	0.52
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.66	0.005	0.047	521	21.06	0.53
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.66	0.005	0.047	964	21.06	0.53
		Treated Effluent at Emergency Bypass for 12 days (5)	3.66	0.005	0.047	521	21.06	0.53
C3	Castle Peak Power Station	without the Project (1a)	3.67	0.005	0.045	715	21.03	0.51
		with the Project (1b)	3.67	0.005	0.045	227	21.00	0.51
		Sensitivity Test - Higher Treatment Level (1c)	3.71	0.004	0.042	224	20.97	0.49
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.67	0.005	0.045	297	21.00	0.51
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.67	0.005	0.045	1200	21.00	0.51
		Treated Effluent at Emergency Bypass for 12 days (5)	3.67	0.005	0.050	228	21.00	0.51
C4	China Cement Plant	without the Project (1a)	3.71	0.004	0.042	810	19.75	0.49
		with the Project (1b)	3.71	0.004	0.042	218	19.73	0.48
		Sensitivity Test - Higher Treatment Level (1c)	3.75	0.004	0.039	215	19.70	0.47
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.71	0.004	0.042	383	19.73	0.48
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.71	0.004	0.042	2985	19.73	0.48
		Treated Effluent at Emergency Bypass for 12 days (5)	3.71	0.006	0.060	220	19.73	0.53
C5	Shui Wing Steel Mill	without the Project (1a)	3.71	0.004	0.042	847	19.68	0.49
		with the Project (1b)	3.71	0.004	0.042	213	19.65	0.48
		Sensitivity Test - Higher Treatment Level (1c)	3.75	0.004	0.039	210	19.63	0.47
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.71	0.004	0.042	428	19.65	0.48
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.71	0.004	0.042	3826	19.65	0.48
		Treated Effluent at Emergency Bypass for 12 days (5)	3.71	0.006	0.062	216	19.65	0.53
C6	Tuen Mun	without the Project (1a)	3.97	0.004	0.039	1009	13.18	0.46
		with the Project (1b)	3.98	0.004	0.039	908	13.16	0.46
		Sensitivity Test - Higher Treatment Level (1c)	4.02	0.004	0.036	908	13.13	0.44
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.98	0.004	0.039	908	13.16	0.46
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.98	0.004	0.039	2352	13.16	0.46
		Treated Effluent at Emergency Bypass for 12 days (5)	3.98	0.004	0.043	913	13.16	0.47
C7	Airport 1	without the Project (1a)	3.81	0.004	0.039	216	17.51	0.46
		with the Project (1b)	3.82	0.004	0.039	210	17.49	0.45
		Sensitivity Test - Higher Treatment Level (1c)	3.86	0.004	0.036	209	17.46	0.44
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.82	0.004	0.039	210	17.49	0.45
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.82	0.004	0.039	210	17.49	0.45
		Treated Effluent at Emergency Bypass for 12 days (5)	3.82	0.004	0.039	209	17.49	0.46
C8	Airport 2	without the Project (1a)	4.00	0.003	0.032	21	12.66	0.56
		with the Project (1b)	4.00	0.003	0.032	19	12.63	0.56
		Sensitivity Test - Higher Treatment Level (1c)	4.04	0.003	0.030	19	12.61	0.56
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.00	0.003	0.032	19	12.63	0.56
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.00	0.003	0.032	19	12.63	0.56
		Treated Effluent at Emergency Bypass for 12 days (5)	4.00	0.003	0.032	19	12.63	0.56
C9	Airport 3	without the Project (1a)	4.09	0.004	0.036	968	15.33	0.74
		with the Project (1b)	4.10	0.004	0.036	968	15.32	0.74
		Sensitivity Test - Higher Treatment Level (1c)	4.13	0.004	0.035	968	15.30	0.74
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.10	0.004	0.036	968	15.32	0.74
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.10	0.004	0.036	968	15.32	0.74
		Treated Effluent at Emergency Bypass for 12 days (5)	4.10	0.004	0.036	968	15.32	0.74
C10	Airport 4	without the Project (1a)	3.97	0.004	0.034	476	15.38	0.71
		with the Project (1b)	3.97	0.004	0.034	476	15.37	0.72
		Sensitivity Test - Higher Treatment Level (1c)	4.00	0.004	0.033	476	15.35	0.71
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.97	0.004	0.034	476	15.37	0.72
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.97	0.004	0.034	476	15.37	0.72
		Treated Effluent at Emergency Bypass for 12 days (5)	3.97	0.004	0.034	476	15.37	0.72
C11	Tsuen Wan	without the Project (1a)	4.28	0.005	0.048	1713	8.96	0.81
		with the Project (1b)	4.28	0.005	0.048	1713	8.94	0.81
		Sensitivity Test - Higher Treatment Level (1c)	4.31	0.005	0.048	1713	8.92	0.81
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.28	0.005	0.048	1713	8.94	0.81
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.28	0.005	0.048	1713	8.94	0.81
		Treated Effluent at Emergency Bypass for 12 days (5)	4.28	0.005	0.048	1713	8.94	0.84

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
C12	MTRC Tsing Yi Station	without the Project (1a)	4.14	0.006	0.056	2290	8.88	0.71
		with the Project (1b)	4.14	0.006	0.056	2290	8.87	0.71
		Sensitivity Test - Higher Treatment Level (1c)	4.16	0.006	0.056	2290	8.85	0.71
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.14	0.006	0.056	2290	8.87	0.71
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.14	0.006	0.056	2290	8.87	0.71
		Treated Effluent at Emergency Bypass for 12 days (5)	4.14	0.006	0.056	2290	8.87	0.75
C13	Tsing Yi Power Station	without the Project (1a)	4.26	0.019	0.184	965	7.78	0.94
		with the Project (1b)	4.26	0.019	0.184	965	7.77	0.94
		Sensitivity Test - Higher Treatment Level (1c)	4.27	0.019	0.184	965	7.76	0.94
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.26	0.019	0.184	965	7.77	0.94
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.26	0.019	0.184	965	7.77	0.94
		Treated Effluent at Emergency Bypass for 12 days (5)	4.26	0.019	0.184	965	7.77	0.96

Remarks:

N/A: Not Available

Results at Indicator Points - Normal Operation - 2012 (Wet Season)

Note: Shaded and bolded - value exceeded the WQO

(II) Fish Culture Zones

ID	Indicator Point	Scenario	Surface Mean			90 percentile	90 percentile	DA	DA	DA
			DO (mg/L)	SS (mg/L)	NH4 (mg/L)	Bottom DO (mg/L)	DA DO (mg/L)	Ecoli (no./100ml)	UIA (mg/L)	TIN (mg/L)
Fish Culture Zones			Assessment Criteria for Local Marine Biota and Fisheries Resources			WQO (for Western Buffer WCZ)				
WQO (for Western Buffer WCZ)			≥5	N/A	≤0.7	≥2	≥5	≤610	≤0.021	≤0.4
F1	Ma Wan North	without the Project (1a)	4.64	7.61	0.03	4.03	4.00	12	0.003	0.57
		with the Project (1b)	4.64	7.60	0.03	4.04	4.00	7	0.003	0.57
		Sensitivity Test - Higher Treatment Level (1c)	4.67	7.59	0.03	4.09	4.04	7	0.003	0.57
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.64	7.60	0.03	4.04	4.00	8	0.003	0.57
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.64	7.60	0.03	4.04	4.00	8	0.003	0.57
		Treated Effluent at Emergency Bypass for 12 days (5)	4.65	7.60	0.03	4.04	4.00	7	0.003	0.57
F2	Ma Wan North	without the Project (1a)	4.68	7.51	0.03	4.03	4.03	10	0.003	0.57
		with the Project (1b)	4.68	7.50	0.03	4.03	4.03	6	0.003	0.57
		Sensitivity Test - Higher Treatment Level (1c)	4.70	7.49	0.03	4.08	4.08	6	0.003	0.57
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.68	7.50	0.03	4.03	4.03	7	0.003	0.57
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.68	7.50	0.03	4.03	4.03	7	0.003	0.57
		Treated Effluent at Emergency Bypass for 12 days (5)	4.69	7.50	0.03	4.03	4.03	6	0.003	0.57

DA = Depth Average

N/A = Not Available

(III) Others

ID	Indicator Point	Scenario	90 percentile	Mean Depth-averaged Results					90 percentile	Max.	
			DA DO (mg/L)	DO (mg/L)	UIA (mg/L)	TIN (mg/L)	E.coli (no./100mL)	SS (mg/L)	BOD5 (mg/L)	Bottom DO (mg/L)	Sedimentation Rate (g/m ² /d)
Artificial Reefs			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
AR1	Airport	without the Project (1a)	3.83	4.20	0.003	0.71	25	10.92	0.35	3.83	7.43
		with the Project (1b)	3.83	4.20	0.003	0.71	21	10.90	0.35	3.83	7.41
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.24	0.003	0.70	20	10.88	0.34	3.83	7.39
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.83	4.20	0.003	0.71	21	10.90	0.35	3.83	7.41
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.83	4.20	0.003	0.71	21	10.90	0.35	3.83	7.41
		Treated Effluent at Emergency Bypass for 12 days (5)	3.83	4.21	0.003	0.71	20	10.89	0.35	3.83	7.41
AR2	Sha Chau and Lung Kwu Chau	without the Project (1a)	3.43	3.89	0.004	0.78	121	14.49	0.43	3.16	8.93
		with the Project (1b)	3.45	3.90	0.004	0.78	79	14.46	0.43	3.16	8.91
		Sensitivity Test - Higher Treatment Level (1c)	3.76	3.93	0.003	0.78	77	14.44	0.41	3.22	8.89
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.45	3.90	0.004	0.78	79	14.46	0.43	3.17	8.91
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.45	3.90	0.004	0.78	79	14.46	0.43	3.17	8.91
		Treated Effluent at Emergency Bypass for 12 days (5)	3.46	3.90	0.004	0.78	78	14.45	0.42	3.17	8.91
Gazetted Beaches			≥4	N/A	≤0.021	≤0.5	≤180	N/A	N/A	≥2	N/A
B1	Butterfly	without the Project (1a)	3.87	4.39	0.003	0.66	103	9.35	0.33	3.85	4.43
		with the Project (1b)	3.87	4.39	0.003	0.66	63	9.33	0.33	3.85	4.41
		Sensitivity Test - Higher Treatment Level (1c)	3.88	4.43	0.003	0.66	61	9.30	0.32	3.85	4.40
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.87	4.39	0.003	0.66	64	9.33	0.33	3.85	4.41
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.87	4.39	0.003	0.66	67	9.33	0.33	3.85	4.41
		Treated Effluent at Emergency Bypass for 12 days (5)	3.87	4.39	0.003	0.66	69	9.33	0.34	3.85	4.42

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
B2	Castle Peak	without the Project (1a)	4.17	4.94	0.003	0.64	110	8.96	0.43	3.90	0.00
		with the Project (1b)	4.19	4.95	0.003	0.64	103	8.94	0.43	3.90	0.00
		Sensitivity Test - Higher Treatment Level (1c)	4.38	4.99	0.003	0.64	103	8.92	0.42	3.91	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.19	4.95	0.003	0.64	103	8.94	0.43	3.90	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.19	4.95	0.003	0.64	105	8.94	0.43	3.90	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	4.19	4.96	0.003	0.65	102	8.95	0.44	3.90	0.00
B3	Kadoorie	without the Project (1a)	3.95	4.69	0.003	0.65	193	9.21	0.41	3.87	0.00
		with the Project (1b)	3.95	4.70	0.003	0.65	175	9.18	0.41	3.87	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.98	4.74	0.003	0.64	175	9.16	0.40	3.87	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.95	4.70	0.003	0.65	176	9.18	0.41	3.87	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.95	4.70	0.003	0.65	179	9.18	0.41	3.87	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.95	4.71	0.003	0.65	175	9.19	0.42	3.87	0.00
B4	Cafeteria Old	without the Project (1a)	3.91	4.56	0.003	0.66	356	9.24	0.41	3.86	0.00
		with the Project (1b)	3.91	4.57	0.003	0.66	327	9.22	0.40	3.86	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.92	4.61	0.003	0.65	327	9.20	0.39	3.87	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.91	4.57	0.003	0.66	329	9.22	0.40	3.86	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.91	4.57	0.003	0.66	333	9.22	0.40	3.86	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.91	4.57	0.003	0.66	326	9.23	0.41	3.86	0.00
B5	Cafeteria New	without the Project (1a)	3.91	4.56	0.003	0.66	356	9.24	0.41	3.86	0.00
		with the Project (1b)	3.91	4.57	0.003	0.66	327	9.22	0.40	3.86	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.92	4.61	0.003	0.65	327	9.20	0.39	3.87	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.91	4.57	0.003	0.66	329	9.22	0.40	3.86	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.91	4.57	0.003	0.66	333	9.22	0.40	3.86	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.91	4.57	0.003	0.66	326	9.23	0.41	3.86	0.00
B6	Golden Beach	without the Project (1a)	3.89	4.49	0.003	0.66	447	9.37	0.43	3.85	0.00
		with the Project (1b)	3.89	4.50	0.003	0.66	411	9.35	0.43	3.85	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.90	4.54	0.003	0.66	410	9.33	0.41	3.86	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.89	4.50	0.003	0.66	413	9.35	0.43	3.85	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.89	4.50	0.003	0.66	418	9.35	0.43	3.85	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.89	4.50	0.004	0.66	410	9.36	0.43	3.85	0.00
B7	Anglers'	without the Project (1a)	4.06	4.63	0.004	0.57	86	7.43	0.31	4.11	6.90
		with the Project (1b)	4.07	4.63	0.004	0.57	77	7.42	0.31	4.12	6.88
		Sensitivity Test - Higher Treatment Level (1c)	4.12	4.65	0.003	0.56	77	7.41	0.31	4.18	6.86
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.07	4.63	0.004	0.57	77	7.42	0.31	4.12	6.88
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.07	4.63	0.004	0.57	78	7.42	0.31	4.12	6.88
		Treated Effluent at Emergency Bypass for 12 days (5)	4.07	4.64	0.004	0.57	77	7.42	0.31	4.11	6.89
WQO (for Western Buffer WCZ)			≥4	N/A	≤0.021	≤0.4	≤180	N/A	N/A	≥2	N/A
B8	Gemini	without the Project (1a)	4.10	4.64	0.004	0.56	46	7.37	0.31	4.16	5.67
		with the Project (1b)	4.11	4.65	0.004	0.56	41	7.36	0.31	4.17	5.66
		Sensitivity Test - Higher Treatment Level (1c)	4.17	4.66	0.004	0.56	40	7.35	0.31	4.24	5.66
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.11	4.65	0.004	0.56	41	7.36	0.31	4.17	5.66
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.11	4.65	0.004	0.56	41	7.36	0.31	4.17	5.66
		Treated Effluent at Emergency Bypass for 12 days (5)	4.11	4.65	0.004	0.56	40	7.36	0.31	4.16	5.66
B9	Hoi Mei Wan	without the Project (1a)	4.18	4.66	0.004	0.55	26	7.27	0.31	4.35	6.08
		with the Project (1b)	4.20	4.66	0.004	0.55	22	7.26	0.31	4.37	6.08
		Sensitivity Test - Higher Treatment Level (1c)	4.31	4.68	0.004	0.55	22	7.25	0.31	4.50	6.07
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.20	4.66	0.004	0.55	22	7.26	0.31	4.37	6.08
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.20	4.66	0.004	0.55	22	7.26	0.31	4.37	6.08
		Treated Effluent at Emergency Bypass for 12 days (5)	4.19	4.67	0.004	0.55	22	7.26	0.31	4.36	6.08
B10	Casam	without the Project (1a)	4.07	4.63	0.003	0.56	37	7.34	0.30	4.11	7.08
		with the Project (1b)	4.07	4.63	0.003	0.56	33	7.33	0.30	4.12	7.07
		Sensitivity Test - Higher Treatment Level (1c)	4.16	4.65	0.003	0.56	33	7.32	0.30	4.20	7.05
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.07	4.63	0.003	0.56	33	7.33	0.30	4.12	7.07
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.07	4.63	0.003	0.56	33	7.33	0.30	4.12	7.07
		Treated Effluent at Emergency Bypass for 12 days (5)	4.07	4.64	0.003	0.56	33	7.33	0.30	4.11	7.07

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
B11	Lido	without the Project (1a)	3.99	4.61	0.003	0.57	47	7.37	0.30	3.94	6.73
		with the Project (1b)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Sensitivity Test - Higher Treatment Level (1c)	4.05	4.63	0.003	0.57	42	7.35	0.29	3.99	6.69
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Treated Effluent at Emergency Bypass for 12 days (5)	3.99	4.62	0.003	0.57	42	7.36	0.30	3.95	6.71
B12	Ting Kau	without the Project (1a)	3.99	4.61	0.003	0.57	47	7.37	0.30	3.94	6.73
		with the Project (1b)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Sensitivity Test - Higher Treatment Level (1c)	4.05	4.63	0.003	0.57	42	7.35	0.29	3.99	6.69
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.99	4.61	0.003	0.57	42	7.36	0.29	3.94	6.71
		Treated Effluent at Emergency Bypass for 12 days (5)	3.99	4.62	0.003	0.57	42	7.36	0.30	3.95	6.71
B13	Approach	without the Project (1a)	3.97	4.61	0.003	0.57	72	7.41	0.30	3.92	6.35
		with the Project (1b)	3.98	4.61	0.003	0.57	63	7.40	0.30	3.92	6.33
		Sensitivity Test - Higher Treatment Level (1c)	4.02	4.63	0.003	0.57	63	7.39	0.30	3.94	6.32
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.98	4.61	0.003	0.57	64	7.40	0.30	3.92	6.33
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.98	4.61	0.003	0.57	64	7.40	0.30	3.92	6.33
		Treated Effluent at Emergency Bypass for 12 days (5)	3.98	4.62	0.003	0.57	63	7.40	0.30	3.92	6.33
B14	Tung Wan, Ma Wan	without the Project (1a)	4.49	4.75	0.003	0.55	120	7.41	0.32	3.98	0.00
		with the Project (1b)	4.51	4.76	0.003	0.55	118	7.40	0.32	3.98	0.00
		Sensitivity Test - Higher Treatment Level (1c)	4.54	4.77	0.003	0.55	118	7.39	0.32	4.02	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.51	4.76	0.003	0.55	118	7.40	0.32	3.98	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.51	4.76	0.003	0.55	118	7.40	0.32	3.98	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	4.51	4.76	0.003	0.55	118	7.40	0.32	3.98	0.00
Non - Gazetted Beaches											
WQO (for North Western WCZ)											
U1	Lung Kwu Upper	without the Project (1a)	3.88	4.46	0.004	0.76	25	13.16	0.43	3.35	0.00
		with the Project (1b)	3.88	4.46	0.004	0.76	20	13.14	0.43	3.36	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.88	4.50	0.003	0.75	20	13.11	0.42	3.43	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.88	4.46	0.004	0.76	20	13.14	0.43	3.36	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.88	4.46	0.004	0.76	20	13.14	0.43	3.36	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.88	4.47	0.004	0.76	20	13.13	0.43	3.36	0.00
U2	Lung Kwu Lower	without the Project (1a)	3.83	4.16	0.004	0.79	531	13.23	0.58	3.52	0.00
		with the Project (1b)	3.83	4.16	0.004	0.79	509	13.21	0.58	3.55	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.20	0.004	0.78	508	13.18	0.57	3.75	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.83	4.16	0.004	0.79	509	13.21	0.58	3.55	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.83	4.16	0.004	0.79	509	13.21	0.58	3.55	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.83	4.16	0.005	0.79	507	13.20	0.59	3.55	0.00
Marine Parks											
WQO (for North Western WCZ)											
MP1	Indicator Point 1 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (1a)	3.41	3.92	0.004	0.77	155	13.75	0.42	3.23	9.17
		with the Project (1b)	3.44	3.92	0.004	0.77	95	13.72	0.41	3.24	9.15
		Sensitivity Test - Higher Treatment Level (1c)	3.67	3.96	0.003	0.77	92	13.70	0.40	3.41	9.13
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.44	3.92	0.004	0.77	96	13.72	0.41	3.24	9.15
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.44	3.92	0.004	0.77	95	13.72	0.41	3.25	9.15
		Treated Effluent at Emergency Bypass for 12 days (5)	3.45	3.93	0.004	0.77	94	13.71	0.41	3.25	9.15
MP2	Indicator Point 2 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (1a)	3.27	3.89	0.004	0.77	860	14.66	0.46	3.28	8.65
		with the Project (1b)	3.27	3.90	0.004	0.77	682	14.62	0.45	3.29	8.62
		Sensitivity Test - Higher Treatment Level (1c)	3.36	3.94	0.004	0.76	678	14.59	0.43	3.43	8.60
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.28	3.90	0.004	0.77	685	14.62	0.45	3.29	8.62
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.28	3.90	0.004	0.77	683	14.62	0.45	3.29	8.62
		Treated Effluent at Emergency Bypass for 12 days (5)	3.28	3.90	0.004	0.77	681	14.60	0.45	3.29	8.62

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
MP3	Indicator Point 3 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (1a)	3.15	3.76	0.004	0.81	198	17.49	0.50	3.10	8.56
		with the Project (1b)	3.15	3.77	0.004	0.81	152	17.47	0.50	3.10	8.54
		Sensitivity Test - Higher Treatment Level (1c)	3.17	3.80	0.004	0.81	151	17.45	0.49	3.11	8.51
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.15	3.77	0.004	0.81	153	17.47	0.50	3.10	8.54
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.15	3.77	0.004	0.81	152	17.47	0.50	3.10	8.54
		Treated Effluent at Emergency Bypass for 12 days (5)	3.15	3.77	0.004	0.81	152	17.45	0.50	3.10	8.53
MP4	Indicator Point 4 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (1a)	3.78	3.92	0.003	0.78	42	15.44	0.42	3.25	7.84
		with the Project (1b)	3.79	3.93	0.003	0.78	33	15.42	0.42	3.27	7.81
		Sensitivity Test - Higher Treatment Level (1c)	3.82	3.96	0.003	0.77	32	15.40	0.41	3.48	7.79
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.79	3.93	0.003	0.78	33	15.42	0.42	3.27	7.81
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.79	3.93	0.003	0.78	33	15.42	0.42	3.27	7.81
		Treated Effluent at Emergency Bypass for 12 days (5)	3.80	3.93	0.003	0.78	32	15.41	0.42	3.28	7.81
Seagrass Beds											
WQO (for Deep Bay WCZ - Inner Subzone)			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
SG8	Mai Po	without the Project (1a)	0.00	0.41	0.214	3.13	2230	61.88	12.40	0.00	0.00
		with the Project (1b)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Sensitivity Test - Higher Treatment Level (1c)	0.00	0.41	0.214	3.13	2230	61.86	12.40	0.00	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	0.00	0.41	0.214	3.13	2218	61.86	12.40	0.00	0.00
SG2	Sha Kong Tsuen	without the Project (1a)	3.76	4.10	0.019	1.02	282	21.68	1.26	3.42	0.00
		with the Project (1b)	3.76	4.10	0.019	1.02	282	21.67	1.26	3.42	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.77	4.11	0.019	1.02	282	21.65	1.26	3.45	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.76	4.10	0.019	1.02	282	21.67	1.26	3.42	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.76	4.10	0.019	1.02	282	21.67	1.26	3.42	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.76	4.10	0.019	1.02	279	21.67	1.26	3.42	0.00
SG3	Ngau Hom Shek	without the Project (1a)	3.81	4.12	0.017	0.99	795	21.17	1.37	3.76	0.00
		with the Project (1b)	3.81	4.12	0.017	0.99	795	21.16	1.37	3.76	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.82	4.13	0.016	0.99	795	21.15	1.37	3.78	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.81	4.12	0.017	0.99	795	21.16	1.37	3.76	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.81	4.12	0.017	0.99	795	21.16	1.37	3.76	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.81	4.12	0.017	0.99	789	21.16	1.37	3.76	0.00
SG4	Ngau Hom Shek	without the Project (1a)	3.82	4.01	0.021	1.04	17725	23.31	3.07	3.55	0.00
		with the Project (1b)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.03	0.021	1.04	17722	23.28	3.06	3.74	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.82	4.02	0.021	1.04	17671	23.29	3.07	3.58	0.00
SG1	Sheung Pak Nai	without the Project (1a)	3.32	3.89	0.009	0.90	7708	16.90	1.31	3.14	0.00
		with the Project (1b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.44	3.92	0.009	0.89	7704	16.87	1.30	3.15	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.33	3.90	0.009	0.90	7685	16.88	1.31	3.14	0.00
SG9	Ha Pak Nai	without the Project (1a)	3.32	3.89	0.009	0.90	7708	16.90	1.31	3.14	0.00
		with the Project (1b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.44	3.92	0.009	0.89	7704	16.87	1.30	3.15	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.33	3.90	0.009	0.90	7685	16.88	1.31	3.14	0.00

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
SG6	Yam O	without the Project (1a)	4.55	5.07	0.003	0.56	2	10.01	0.48	3.94	0.00
		with the Project (1b)	4.55	5.08	0.003	0.56	1	10.00	0.47	3.94	0.00
		Sensitivity Test - Higher Treatment Level (1c)	4.58	5.10	0.003	0.56	1	9.98	0.47	3.96	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.56	5.08	0.003	0.56	1	10.00	0.47	3.94	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.56	5.08	0.003	0.56	1	10.00	0.47	3.94	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	4.56	5.09	0.003	0.56	1	10.00	0.48	3.95	0.00
SG7	Tai Ho Wan	without the Project (1a)	3.87	4.40	0.003	0.69	6	9.71	0.33	3.84	1.91
		with the Project (1b)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Sensitivity Test - Higher Treatment Level (1c)	3.88	4.44	0.003	0.68	5	9.67	0.32	3.84	1.90
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Treated Effluent at Emergency Bypass for 12 days (5)	3.87	4.41	0.003	0.69	5	9.68	0.33	3.84	1.91
SG5	San Tau	without the Project (1a)	3.85	4.26	0.004	0.69	555	10.97	0.61	3.26	8.45
		with the Project (1b)	3.85	4.27	0.004	0.69	555	10.95	0.61	3.27	8.43
		Sensitivity Test - Higher Treatment Level (1c)	3.85	4.30	0.004	0.68	555	10.93	0.60	3.29	8.41
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.85	4.27	0.004	0.69	555	10.95	0.61	3.27	8.43
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.85	4.27	0.004	0.69	555	10.95	0.61	3.27	8.43
		Treated Effluent at Emergency Bypass for 12 days (5)	3.85	4.27	0.004	0.69	552	10.95	0.61	3.27	8.43
Chinese White Dolphins			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
CWD1	near North of Lung Kwu Chau	without the Project (1a)	3.20	3.82	0.004	0.79	519	15.97	0.47	3.16	9.92
		with the Project (1b)	3.20	3.83	0.004	0.79	410	15.94	0.47	3.16	9.90
		Sensitivity Test - Higher Treatment Level (1c)	3.24	3.87	0.004	0.78	408	15.91	0.45	3.22	9.88
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.20	3.83	0.004	0.79	411	15.94	0.47	3.16	9.90
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.20	3.83	0.004	0.79	410	15.94	0.47	3.16	9.90
		Treated Effluent at Emergency Bypass for 12 days (5)	3.20	3.83	0.004	0.79	409	15.92	0.46	3.16	9.90
CWD2	North of Airport	without the Project (1a)	3.82	4.00	0.004	0.77	52	12.44	0.40	3.76	6.96
		with the Project (1b)	3.82	4.01	0.004	0.77	41	12.41	0.40	3.78	6.94
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.05	0.003	0.77	40	12.39	0.39	3.82	6.92
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.82	4.01	0.004	0.77	41	12.41	0.40	3.78	6.94
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.82	4.01	0.004	0.77	41	12.41	0.40	3.78	6.94
		Treated Effluent at Emergency Bypass for 12 days (5)	3.82	4.01	0.004	0.77	40	12.40	0.40	3.78	6.94
CWD3	near The Brothers	without the Project (1a)	3.84	4.23	0.003	0.69	29	10.40	0.33	3.83	7.64
		with the Project (1b)	3.84	4.23	0.003	0.69	15	10.38	0.32	3.83	7.62
		Sensitivity Test - Higher Treatment Level (1c)	3.84	4.27	0.003	0.69	15	10.36	0.31	3.83	7.59
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.84	4.23	0.003	0.69	15	10.38	0.32	3.83	7.62
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.84	4.23	0.003	0.69	15	10.38	0.32	3.83	7.62
		Treated Effluent at Emergency Bypass for 12 days (5)	3.84	4.23	0.003	0.69	15	10.37	0.32	3.83	7.62
CWD4	between Sha Chau and Lung Kwu Chau Marine Park	without the Project (1a)	3.34	3.88	0.004	0.78	149	14.88	0.44	3.16	8.36
		with the Project (1b)	3.36	3.89	0.004	0.78	95	14.86	0.43	3.16	8.34
		Sensitivity Test - Higher Treatment Level (1c)	3.62	3.93	0.003	0.78	93	14.83	0.42	3.21	8.31
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.37	3.89	0.004	0.78	96	14.86	0.43	3.16	8.34
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.37	3.89	0.004	0.78	96	14.86	0.43	3.16	8.34
		Treated Effluent at Emergency Bypass for 12 days (5)	3.36	3.89	0.004	0.78	94	14.84	0.43	3.16	8.34
Site of Special Scientific Interests			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
WQO (for Deep Bay WCZ - Inner Subzone)			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
S1	Tsim Bei Tsui SSSI	without the Project (1a)	1.73	2.43	0.117	2.03	1814	41.00	5.49	1.72	0.00
		with the Project (1b)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Sensitivity Test - Higher Treatment Level (1c)	1.73	2.43	0.117	2.03	1814	40.98	5.49	1.72	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	1.73	2.43	0.117	2.03	1802	40.98	5.49	1.72	0.00

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile DA DO (mg/L)	DO (mg/L)	UIA (mg/L)	TIN (mg/L)	E.coli (no./100mL)	SS (mg/L)	BOD5 (mg/L)		
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
S2	Pak Nai SSSI	without the Project (1a)	3.23	3.86	0.008	0.89	406	17.21	0.73	3.13	0.00
		with the Project (1b)	3.24	3.86	0.008	0.89	404	17.19	0.73	3.13	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.27	3.88	0.008	0.89	404	17.18	0.73	3.15	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.24	3.86	0.008	0.89	404	17.19	0.73	3.13	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.24	3.86	0.008	0.89	404	17.19	0.73	3.13	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.23	3.86	0.008	0.89	402	17.19	0.73	3.13	0.00
S3	Inner Deep Bay	without the Project (1a)	1.74	2.45	0.094	1.84	709	36.14	4.37	1.72	0.00
		with the Project (1b)	1.74	2.45	0.094	1.84	709	36.12	4.37	1.72	0.00
		Sensitivity Test - Higher Treatment Level (1c)	1.74	2.45	0.094	1.83	709	36.11	4.37	1.72	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	1.74	2.45	0.094	1.84	709	36.12	4.37	1.72	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	1.74	2.45	0.094	1.84	709	36.12	4.37	1.72	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	1.74	2.45	0.094	1.84	704	36.12	4.37	1.72	0.00
S4	Mai Po	without the Project (1a)	0.00	0.41	0.214	3.13	2230	61.88	12.40	0.00	0.00
		with the Project (1b)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Sensitivity Test - Higher Treatment Level (1c)	0.00	0.41	0.214	3.13	2230	61.86	12.40	0.00	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	0.00	0.41	0.214	3.13	2230	61.87	12.40	0.00	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	0.00	0.41	0.214	3.13	2218	61.86	12.40	0.00	0.00
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
S5	Lung Kwu Chau, Tree Island and Sha Chau	without the Project (1a)	3.34	3.88	0.004	0.78	149	14.88	0.44	3.16	8.36
		with the Project (1b)	3.36	3.89	0.004	0.78	95	14.86	0.43	3.16	8.34
		Sensitivity Test - Higher Treatment Level (1c)	3.62	3.93	0.003	0.78	93	14.83	0.42	3.21	8.31
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.37	3.89	0.004	0.78	96	14.86	0.43	3.16	8.34
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.37	3.89	0.004	0.78	96	14.86	0.43	3.16	8.34
		Treated Effluent at Emergency Bypass for 12 days (5)	3.36	3.89	0.004	0.78	94	14.84	0.43	3.16	8.34
Corals			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	≤100
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	≤100
CR1	Near Sha Chau	without the Project (1a)	3.77	3.91	0.004	0.78	74	14.59	0.42	3.19	8.18
		with the Project (1b)	3.78	3.92	0.004	0.78	53	14.56	0.42	3.20	8.15
		Sensitivity Test - Higher Treatment Level (1c)	3.81	3.95	0.003	0.78	52	14.54	0.41	3.34	8.13
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.78	3.92	0.004	0.78	53	14.56	0.42	3.20	8.15
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.78	3.92	0.004	0.78	53	14.56	0.42	3.20	8.15
		Treated Effluent at Emergency Bypass for 12 days (5)	3.78	3.92	0.004	0.78	52	14.55	0.42	3.20	8.15
WQO (for Western Buffer WCZ)			≥4	N/A	≤0.021	≤0.4	N/A	N/A	N/A	≥2	≤100
CR2	Tsing Lung Tau	without the Project (1a)	4.04	4.61	0.004	0.57	27	7.51	0.31	4.08	7.10
		with the Project (1b)	4.04	4.62	0.004	0.57	20	7.50	0.31	4.08	7.08
		Sensitivity Test - Higher Treatment Level (1c)	4.07	4.63	0.003	0.56	20	7.49	0.30	4.13	7.07
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.04	4.62	0.003	0.57	20	7.50	0.31	4.08	7.08
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.04	4.62	0.004	0.57	20	7.50	0.31	4.08	7.08
		Treated Effluent at Emergency Bypass for 12 days (5)	4.04	4.62	0.004	0.57	20	7.50	0.31	4.08	7.09
CR3	Sham Tseng West	without the Project (1a)	4.06	4.63	0.004	0.56	25	7.45	0.31	4.11	6.04
		with the Project (1b)	4.07	4.63	0.004	0.56	18	7.44	0.31	4.12	6.04
		Sensitivity Test - Higher Treatment Level (1c)	4.11	4.65	0.003	0.56	18	7.43	0.31	4.18	6.03
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.07	4.63	0.004	0.56	18	7.44	0.31	4.12	6.04
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.07	4.63	0.004	0.56	19	7.44	0.31	4.12	6.04
		Treated Effluent at Emergency Bypass for 12 days (5)	4.07	4.63	0.004	0.56	18	7.44	0.31	4.11	6.04
CR4	Sham Tseng East	without the Project (1a)	4.06	4.63	0.004	0.57	86	7.43	0.31	4.11	6.90
		with the Project (1b)	4.07	4.63	0.004	0.57	77	7.42	0.31	4.12	6.88
		Sensitivity Test - Higher Treatment Level (1c)	4.12	4.65	0.003	0.56	77	7.41	0.31	4.18	6.86
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.07	4.63	0.004	0.57	77	7.42	0.31	4.12	6.88
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.07	4.63	0.004	0.57	78	7.42	0.31	4.12	6.88
		Treated Effluent at Emergency Bypass for 12 days (5)	4.07	4.64	0.004	0.57	77	7.42	0.31	4.11	6.89

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
CR5	Ap Lei Chau	without the Project (1a)	4.74	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
		with the Project (1b)	4.74	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
		Sensitivity Test - Higher Treatment Level (1c)	4.75	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.74	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.74	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
		Treated Effluent at Emergency Bypass for 12 days (5)	4.74	5.27	0.003	0.42	1034	5.90	0.29	4.59	5.15
CR6	Sandy bay	without the Project (1a)	4.60	5.17	0.003	0.45	220	6.10	0.29	4.58	5.20
		with the Project (1b)	4.60	5.17	0.003	0.45	220	6.10	0.29	4.58	5.20
		Sensitivity Test - Higher Treatment Level (1c)	4.60	5.17	0.003	0.45	220	6.09	0.29	4.58	5.20
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	4.60	5.17	0.003	0.45	220	6.10	0.29	4.58	5.20
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	4.60	5.17	0.003	0.45	220	6.10	0.29	4.58	5.20
		Treated Effluent at Emergency Bypass for 12 days (5)	4.60	5.17	0.003	0.45	220	6.10	0.29	4.58	5.20
Horsehoe Crab											
WQO (for Deep Bay WCZ - Inner Subzone)											
			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
HC1	near Sheung Pak Nai	without the Project (1a)	3.22	3.87	0.010	0.92	503	18.01	0.80	3.15	0.00
		with the Project (1b)	3.22	3.87	0.010	0.92	502	18.00	0.80	3.15	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.26	3.89	0.010	0.91	502	17.98	0.80	3.17	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.22	3.87	0.010	0.92	502	18.00	0.80	3.15	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.22	3.87	0.010	0.92	502	18.00	0.80	3.15	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.22	3.87	0.010	0.92	499	17.99	0.80	3.16	0.00
HC2	Ha Pak Nai	without the Project (1a)	3.32	3.89	0.009	0.90	7708	16.90	1.31	3.14	0.00
		with the Project (1b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.44	3.92	0.009	0.89	7704	16.87	1.30	3.15	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.33	3.90	0.009	0.90	7685	16.88	1.31	3.14	0.00
HC3	Ha Pak Nai	without the Project (1a)	3.32	3.89	0.009	0.90	7708	16.90	1.31	3.14	0.00
		with the Project (1b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.44	3.92	0.009	0.89	7704	16.87	1.30	3.15	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.33	3.90	0.009	0.90	7705	16.88	1.31	3.14	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.33	3.90	0.009	0.90	7685	16.88	1.31	3.14	0.00
WQO (for Deep Bay WCZ - Outer Subzone)											
			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
HC4	Nim Wan	without the Project (1a)	3.15	3.77	0.006	0.87	2006	16.58	0.76	3.09	0.00
		with the Project (1b)	3.15	3.78	0.006	0.87	1999	16.56	0.76	3.09	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.15	3.80	0.006	0.86	1998	16.55	0.75	3.09	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.15	3.78	0.006	0.87	1999	16.56	0.76	3.09	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.15	3.78	0.006	0.87	1999	16.56	0.76	3.09	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.15	3.78	0.006	0.87	1994	16.56	0.76	3.09	0.00
WQO (for North Western WCZ)											
			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
HC5	Lung Kwu Tan	without the Project (1a)	3.82	4.12	0.004	0.78	114	13.11	0.46	3.44	0.00
		with the Project (1b)	3.82	4.12	0.004	0.78	87	13.09	0.45	3.45	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.16	0.004	0.77	87	13.06	0.44	3.61	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.82	4.12	0.004	0.78	88	13.09	0.45	3.46	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.82	4.12	0.004	0.78	88	13.09	0.45	3.46	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.82	4.12	0.004	0.78	87	13.08	0.46	3.45	0.00
HC6	San Tau	without the Project (1a)	3.85	4.36	0.003	0.69	264	11.00	0.54	3.82	1.13
		with the Project (1b)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Sensitivity Test - Higher Treatment Level (1c)	3.85	4.40	0.003	0.69	264	10.96	0.54	3.83	1.13
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Treated Effluent at Emergency Bypass for 12 days (5)	3.85	4.37	0.003	0.69	262	10.97	0.54	3.82	1.13

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile DA DO (mg/L)	DO (mg/L)	UIA (mg/L)	TIN (mg/L)	E.coli (no./100mL)	SS (mg/L)	BOD5 (mg/L)		
HC7	Sha Lo Wan	without the Project (1a)	3.83	4.12	0.003	0.74	7	11.93	0.35	3.83	9.13
		with the Project (1b)	3.83	4.13	0.003	0.74	7	11.91	0.35	3.83	9.11
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.16	0.003	0.74	7	11.90	0.35	3.83	9.10
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.83	4.13	0.003	0.74	7	11.91	0.35	3.83	9.11
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.83	4.13	0.003	0.74	7	11.91	0.35	3.83	9.11
		Treated Effluent at Emergency Bypass for 12 days (5)	3.83	4.13	0.003	0.74	7	11.91	0.35	3.83	9.11
HC8	Sai Tso Wan	without the Project (1a)	3.83	4.16	0.003	0.75	10	11.75	0.36	3.81	8.78
		with the Project (1b)	3.83	4.17	0.003	0.75	9	11.73	0.36	3.82	8.77
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.20	0.003	0.74	9	11.72	0.35	3.82	8.75
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.83	4.17	0.003	0.75	9	11.73	0.36	3.82	8.77
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.83	4.17	0.003	0.75	9	11.73	0.36	3.82	8.77
		Treated Effluent at Emergency Bypass for 12 days (5)	3.83	4.17	0.003	0.75	9	11.73	0.36	3.82	8.77
HC9	Nga Ying Kok	without the Project (1a)	3.85	4.41	0.003	0.72	11	11.45	0.40	3.84	7.95
		with the Project (1b)	3.85	4.41	0.003	0.72	11	11.44	0.40	3.84	7.94
		Sensitivity Test - Higher Treatment Level (1c)	3.85	4.43	0.003	0.72	11	11.43	0.40	3.84	7.94
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.85	4.41	0.003	0.72	11	11.44	0.40	3.84	7.94
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.85	4.41	0.003	0.72	11	11.44	0.40	3.84	7.94
		Treated Effluent at Emergency Bypass for 12 days (5)	3.85	4.41	0.003	0.72	11	11.43	0.40	3.84	7.94
HC10	Nga Ying Kok, Yi O	without the Project (1a)	3.87	4.44	0.003	0.71	16	11.72	0.42	3.86	8.26
		with the Project (1b)	3.87	4.44	0.003	0.71	16	11.71	0.42	3.86	8.25
		Sensitivity Test - Higher Treatment Level (1c)	3.88	4.46	0.003	0.71	16	11.70	0.42	3.86	8.23
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.87	4.44	0.003	0.71	16	11.71	0.42	3.86	8.25
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.87	4.44	0.003	0.71	16	11.71	0.42	3.86	8.25
		Treated Effluent at Emergency Bypass for 12 days (5)	3.87	4.44	0.003	0.71	16	11.71	0.42	3.86	8.25
HC11	Nga Ying Kok, Yi O	without the Project (1a)	3.95	4.58	0.004	0.70	25	11.06	0.46	3.94	8.96
		with the Project (1b)	3.95	4.58	0.004	0.70	24	11.05	0.46	3.94	8.95
		Sensitivity Test - Higher Treatment Level (1c)	3.97	4.59	0.004	0.70	24	11.05	0.45	3.94	8.94
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.95	4.58	0.004	0.70	24	11.05	0.46	3.94	8.95
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.95	4.58	0.004	0.70	24	11.05	0.46	3.94	8.95
		Treated Effluent at Emergency Bypass for 12 days (5)	3.95	4.58	0.004	0.70	24	11.05	0.45	3.94	8.95
Mangrove Communities											
WQO (for Deep Bay WCZ - Inner Subzone)											
			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
MG2	Lut Chau	without the Project (1a)	0.56	1.25	0.174	2.57	1718	52.64	8.84	0.38	0.00
		with the Project (1b)	0.56	1.25	0.174	2.57	1718	52.63	8.84	0.38	0.00
		Sensitivity Test - Higher Treatment Level (1c)	0.56	1.25	0.174	2.57	1718	52.62	8.84	0.38	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	0.56	1.25	0.174	2.57	1718	52.63	8.84	0.38	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	0.56	1.25	0.174	2.57	1718	52.63	8.84	0.38	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	0.56	1.25	0.174	2.57	1709	52.63	8.84	0.38	0.00
MG3	Tsim Bei Tsui	without the Project (1a)	1.73	2.43	0.117	2.03	1814	41.00	5.49	1.72	0.00
		with the Project (1b)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Sensitivity Test - Higher Treatment Level (1c)	1.73	2.43	0.117	2.03	1814	40.98	5.49	1.72	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	1.73	2.43	0.117	2.03	1814	40.99	5.49	1.72	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	1.73	2.43	0.117	2.03	1802	40.98	5.49	1.72	0.00
MG4	Sheung Pak Nai	without the Project (1a)	3.82	4.01	0.021	1.04	17725	23.31	3.07	3.55	0.00
		with the Project (1b)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Sensitivity Test - Higher Treatment Level (1c)	3.83	4.03	0.021	1.04	17722	23.28	3.06	3.74	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.82	4.02	0.021	1.04	17724	23.29	3.07	3.58	0.00
		Treated Effluent at Emergency Bypass for 12 days (5)	3.82	4.02	0.021	1.04	17671	23.29	3.07	3.58	0.00

ID	Indicator Point	Scenario	90 percentile	Mean Depth-averaged Results						90 percentile	Max.
			DA DO	DO	UIA	TIN	E.coli	SS	BOD5	Bottom DO	Sedimentation
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)	(mg/L)	(g/m ² /d)
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
MG5	Tai Ho Wan	without the Project (1a)	3.87	4.40	0.003	0.69	6	9.71	0.33	3.84	1.91
		with the Project (1b)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Sensitivity Test - Higher Treatment Level (1c)	3.88	4.44	0.003	0.68	5	9.67	0.32	3.84	1.90
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.87	4.41	0.003	0.69	5	9.69	0.32	3.84	1.91
		Treated Effluent at Emergency Bypass for 12 days (5)	3.87	4.41	0.003	0.69	5	9.68	0.33	3.84	1.91
MG6	San Tau	without the Project (1a)	3.85	4.36	0.003	0.69	264	11.00	0.54	3.82	1.13
		with the Project (1b)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Sensitivity Test - Higher Treatment Level (1c)	3.85	4.40	0.003	0.69	264	10.96	0.54	3.83	1.13
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.85	4.36	0.003	0.69	264	10.98	0.54	3.82	1.13
		Treated Effluent at Emergency Bypass for 12 days (5)	3.85	4.37	0.003	0.69	262	10.97	0.54	3.82	1.13
MG7	Yi O	without the Project (1a)	3.89	4.51	0.003	0.72	5	10.55	0.38	3.83	5.45
		with the Project (1b)	3.90	4.51	0.003	0.72	5	10.54	0.38	3.83	5.45
		Sensitivity Test - Higher Treatment Level (1c)	3.94	4.53	0.003	0.71	5	10.53	0.38	3.83	5.44
		Untreated Effluent at Twins Outfall for 6 hrs (3a)	3.90	4.51	0.003	0.72	5	10.54	0.38	3.83	5.45
		Untreated Effluent at Emergency Bypass for 6 hrs (3b)	3.90	4.51	0.003	0.72	5	10.54	0.38	3.83	5.45
		Treated Effluent at Emergency Bypass for 12 days (5)	3.90	4.51	0.003	0.72	5	10.54	0.38	3.83	5.45

Remarks:

N/A: Not Available