Appendix 6.4 Model Results for Gazetted and Non-Gazetted Beaches

Note: Shaded and bolded - value exceeded the assessment criteria

ID	Indicator Point	Scenario	Bottom 10%ile DO (mg/L)	Depth Averaged 10%ile DO (mg/L)	GM *E.coli* (no./100mL)	Mean PO_4 (mg/L)	Mean TIN (mg/L)	Mean UIA (mg/L)	Max 4-d Mean UIA (mg/L)	Maximum TRC (mg/L)
Gazetted Beaches										
Assessment Criteria (for Western Buffer WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.04	≤ 0.4	≤ 0.021	≤ 0.035	≤ 0.008
B7	Anglers'	2014 - Without HATS Stage 2A (1a)	5.22	5.31	96	0.02194	0.3746	0.011	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.22	5.30	79	0.01924	0.3570	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.20	5.30	96	0.02221	0.3828	0.012	0.014	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.28	5.37	78	0.02095	0.3821	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.28	5.37	53	0.02094	0.3820	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.30	5.39	78	0.02036	0.3706	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.24	5.34	78	0.02171	0.3974	0.013	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.27	5.36	78	0.01698	0.3825	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.41	5.50	78	0.01965	**0.4317**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.38	5.48	89	0.02044	**0.4555**	0.008	0.011	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	78	0.02095	0.3821	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	78	0.02096	0.3821	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	78	0.02095	0.3821	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	99	0.02205	0.3753	0.011	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	97	0.02198	0.3747	0.011	0.014	-
B8	Gemini	2014 - Without HATS Stage 2A (1a)	5.20	5.30	97	0.02175	0.3702	0.011	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.20	5.29	71	0.01906	0.3525	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.18	5.28	99	0.02202	0.3783	0.012	0.015	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.26	5.35	64	0.02076	0.3775	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.26	5.35	46	0.02075	0.3773	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.28	5.37	63	0.02016	0.3659	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.22	5.32	65	0.02152	0.3928	0.013	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.25	5.34	64	0.01677	0.3779	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.39	5.49	64	0.01945	**0.4276**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.36	5.46	72	0.02024	**0.4515**	0.008	0.011	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	64	0.02076	0.3775	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	64	0.02076	0.3775	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	64	0.02076	0.3775	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	100	0.02186	0.3709	0.011	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	98	0.02179	0.3702	0.011	0.014	-
B9	Hoi Mei Wan	2014 - Without HATS Stage 2A (1a)	5.20	5.30	67	0.02163	0.3669	0.012	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.20	5.29	51	0.01895	0.3494	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.18	5.28	67	0.02191	0.3750	0.012	0.015	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.26	5.34	45	0.02062	0.3740	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.26	5.34	34	0.02061	0.3739	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.28	5.36	45	0.02002	0.3624	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.22	5.32	45	0.02139	0.3894	0.013	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.25	5.34	45	0.01660	0.3745	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.39	5.49	45	0.01931	**0.4247**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.36	5.46	50	0.02010	**0.4486**	0.008	0.011	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	45	0.02062	0.3741	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	45	0.02063	0.3741	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	45	0.02062	0.3740	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	69	0.02174	0.3676	0.012	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	67	0.02167	0.3669	0.012	0.014	-
B10	Casam	2014 - Without HATS Stage 2A (1a)	5.47	5.50	93	0.02224	0.3812	0.011	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.47	5.52	105	0.01954	0.3643	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.45	5.48	98	0.02251	0.3895	0.012	0.014	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.53	5.56	92	0.02122	0.3883	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.53	5.56	55	0.02120	0.3881	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.56	5.59	92	0.02063	0.3768	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.49	5.52	92	0.02198	**0.4035**	0.012	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.52	5.55	92	0.01727	0.3888	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.67	5.69	92	0.01992	**0.4359**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.64	5.66	105	0.02071	**0.4595**	0.008	0.010	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	92	0.02122	0.3883	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	92	0.02122	0.3883	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	92	0.02122	0.3883	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	95	0.02236	0.3820	0.011	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	93	0.02228	0.3812	0.011	0.014	-
B11	Lido	2014 - Without HATS Stage 2A (1a)	5.50	5.54	62	0.02224	0.3807	0.011	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.49	5.55	71	0.01956	0.3643	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.48	5.52	63	0.02250	0.3890	0.012	0.014	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.58	5.61	57	0.02121	0.3877	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.58	5.61	41	0.02120	0.3876	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.61	5.63	57	0.02062	0.3762	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.53	5.58	57	0.02197	**0.4029**	0.013	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.57	5.61	57	0.01727	0.3882	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.69	5.72	57	0.01992	**0.4349**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.67	5.69	64	0.02071	**0.4584**	0.008	0.010	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	57	0.02121	0.3877	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	57	0.02122	0.3878	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	57	0.02121	0.3877	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	63	0.02236	0.3815	0.011	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	62	0.02229	0.3807	0.011	0.014	-

Appendix 6.4 Model Results for Gazetted and Non-Gazetted Beaches

Note: Shaded and bolded - value exceeded the assessment criteria

ID	Indicator Point	Scenario	Bottom 10%ile DO (mg/L)	Depth Averaged 10%ile DO (mg/L)	GM *E.coli* (no./100mL)	Mean PO_4 (mg/L)	Mean TIN (mg/L)	Mean UIA (mg/L)	Max 4-d Mean UIA (mg/L)	Maximum TRC (mg/L)
Gazetted Beaches										
Assessment Criteria (for Western Buffer WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.04	≤ 0.4	≤ 0.021	≤ 0.035	≤ 0.008
B12	Ting Kau	2014 - Without HATS Stage 2A (1a)	5.50	5.57	138	0.02229	0.3796	0.011	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.47	5.58	144	0.01959	0.3633	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.49	5.54	144	0.02256	0.3880	0.012	0.014	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.58	5.63	140	0.02125	0.3865	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.59	5.64	93	0.02123	0.3863	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.61	5.65	140	0.02066	0.3750	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.54	5.61	140	0.02201	**0.4019**	0.012	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.57	5.63	140	0.01729	0.3870	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.70	5.75	140	0.01995	**0.4331**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.67	5.72	158	0.02075	**0.4568**	0.008	0.010	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	140	0.02125	0.3865	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	140	0.02125	0.3866	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	140	0.02125	0.3865	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	139	0.02242	0.3805	0.011	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	138	0.02234	0.3797	0.011	0.014	-
B13	Approach	2014 - Without HATS Stage 2A (1a)	5.30	5.41	**207**	0.02251	0.3811	0.012	0.014	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.27	5.40	**203**	0.01980	0.3647	0.010	0.013	0.0000
		2021 - Without HATS Stage 2A (2a)	5.28	5.39	**204**	0.02279	0.3895	0.012	0.015	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.35	5.45	**191**	0.02141	0.3874	0.012	0.015	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.35	5.45	172	0.02140	0.3873	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.37	5.48	**191**	0.02081	0.3758	0.011	0.014	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.32	5.43	**191**	0.02218	**0.4029**	0.013	0.016	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.34	5.45	**191**	0.01741	0.3879	0.012	0.015	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.49	5.57	**190**	0.02010	**0.4355**	0.008	0.010	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.47	5.55	**204**	0.02091	**0.4595**	0.008	0.011	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	**191**	0.02141	0.3875	0.012	0.015	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	**191**	0.02141	0.3875	0.012	0.015	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	**191**	0.02141	0.3875	0.012	0.015	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	**210**	0.02265	0.3823	0.012	0.014	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	**208**	0.02256	0.3813	0.012	0.014	-
B14	Tung Wan,	2014 - Without HATS Stage 2A (1a)	5.41	5.48	14	0.02077	0.3502	0.011	0.013	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.36	5.46	7	0.01829	0.3361	0.010	0.012	0.0000
		2021 - Without HATS Stage 2A (2a)	5.39	5.46	14	0.02107	0.3582	0.011	0.014	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.45	5.51	6	0.01990	0.3591	0.012	0.014	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.45	5.51	6	0.01990	0.3591	0.012	0.014	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.47	5.53	6	0.01928	0.3469	0.011	0.013	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.41	5.49	6	0.02070	0.3752	0.012	0.015	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.44	5.51	6	0.01589	0.3597	0.012	0.014	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.59	5.65	6	0.01858	**0.4082**	0.007	0.009	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.55	5.63	7	0.01938	**0.4326**	0.008	0.010	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	6	0.01990	0.3591	0.012	0.014	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	6	0.01991	0.3592	0.012	0.014	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	6	0.01990	0.3591	0.012	0.014	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	14	0.02088	0.3508	0.011	0.013	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	14	0.02081	0.3503	0.011	0.013	-
Assessment Criteria (for Semi-enclosed Bay in Southern WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.01	≤ 0.1	≤ 0.021	≤ 0.035	≤ 0.008
B16	Cheung Sha	2014 - Without HATS Stage 2A (1a)	5.25	5.90	31	**0.01119**	**0.1826**	0.004	0.006	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.06	5.70	30	**0.01070**	**0.1828**	0.004	0.006	0.0000
		2021 - Without HATS Stage 2A (2a)	5.25	5.90	34	**0.01130**	**0.1851**	0.004	0.006	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.25	5.90	34	**0.01094**	**0.1849**	0.004	0.006	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.25	5.90	34	**0.01094**	**0.1849**	0.004	0.006	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.25	5.90	34	**0.01077**	**0.1816**	0.004	0.006	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.24	5.90	34	**0.01116**	**0.1893**	0.004	0.006	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.25	5.90	34	0.00999	**0.1878**	0.004	0.006	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.26	5.91	34	**0.01058**	**0.1941**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.26	5.91	36	**0.01080**	**0.2002**	0.004	0.006	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	34	**0.01094**	**0.1849**	0.004	0.006	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	34	**0.01094**	**0.1849**	0.004	0.006	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	34	**0.01094**	**0.1849**	0.004	0.006	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	31	**0.01122**	**0.1828**	0.004	0.006	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	31	**0.01120**	**0.1826**	0.004	0.006	-
B19	Silvermine	2014 - Without HATS Stage 2A (1a)	6.99	7.42	9	**0.01103**	**0.1664**	0.004	0.007	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	6.53	7.07	10	0.00961	**0.1666**	0.004	0.006	0.0000
		2021 - Without HATS Stage 2A (2a)	6.98	7.42	10	**0.01134**	**0.1729**	0.004	0.007	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	6.98	7.45	10	**0.01035**	**0.1719**	0.004	0.007	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	6.98	7.45	10	**0.01035**	**0.1719**	0.004	0.007	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	6.99	7.46	10	0.00990	**0.1634**	0.004	0.007	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	6.98	7.44	10	**0.01094**	**0.1831**	0.004	0.007	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	6.94	7.43	10	0.00759	**0.1760**	0.004	0.007	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	7.07	7.55	10	0.00935	**0.1953**	0.004	0.007	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	7.08	7.55	10	0.00999	**0.2109**	0.004	0.007	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	10	**0.01035**	**0.1719**	0.004	0.007	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	10	**0.01036**	**0.1719**	0.004	0.007	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	10	**0.01035**	**0.1719**	0.004	0.007	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	9	**0.01111**	**0.1670**	0.004	0.007	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	9	**0.01106**	**0.1665**	0.004	0.007	-

Appendix 6.4 Model Results for Gazetted and Non-Gazetted Beaches

Note: Shaded and bolded - value exceeded the assessment criteria

ID	Indicator Point	Scenario	Bottom 10%ile DO (mg/L)	Depth Averaged 10%ile DO (mg/L)	GM *E.coli* (no./100mL)	Mean PO_4 (mg/L)	Mean TIN (mg/L)	Mean UIA (mg/L)	Max 4-d Mean UIA (mg/L)	Maximum TRC (mg/L)
Gazetted Beaches										
Assessment Criteria (for Semi-enclosed Bay in Southern WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.01	≤ 0.1	≤ 0.021	≤ 0.035	≤ 0.008
B27	Turtle Cove	2014 - Without HATS Stage 2A (1a)	4.81	6.03	72	0.00673	**0.1022**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	4.73	5.60	69	0.00664	**0.1027**	0.004	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	4.82	6.03	72	0.00674	**0.1024**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	4.83	6.03	72	0.00668	**0.1020**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	4.83	6.03	72	0.00668	**0.1020**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	4.83	6.03	72	0.00668	**0.1019**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	4.82	6.03	72	0.00671	**0.1025**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	4.83	6.02	72	0.00662	**0.1023**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	4.85	6.04	72	0.00666	**0.1029**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	4.84	6.03	79	0.00670	**0.1037**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	72	0.00668	**0.1020**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	72	0.00668	**0.1020**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	72	0.00668	**0.1020**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	72	0.00673	**0.1022**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	72	0.00673	**0.1022**	0.004	0.005	-
B28	Hairpin	2014 - Without HATS Stage 2A (1a)	4.70	6.16	109	0.00666	**0.1006**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	4.59	5.70	106	0.00652	**0.1002**	0.003	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	4.70	6.17	113	0.00667	**0.1008**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	4.71	6.17	113	0.00661	**0.1004**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	4.71	6.17	113	0.00661	**0.1004**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	4.71	6.16	113	0.00661	**0.1003**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	4.71	6.16	113	0.00664	**0.1009**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	4.71	6.16	113	0.00655	**0.1007**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	4.73	6.18	113	0.00659	**0.1013**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	4.72	6.18	124	0.00664	**0.1021**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	113	0.00662	**0.1004**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	113	0.00662	**0.1004**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	113	0.00661	**0.1004**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	109	0.00666	**0.1007**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	109	0.00666	**0.1006**	0.004	0.005	-
B29	Stanley Main	2014 - Without HATS Stage 2A (1a)	4.70	6.16	109	0.00666	**0.1006**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	4.59	5.70	106	0.00652	**0.1002**	0.003	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	4.70	6.17	113	0.00667	**0.1008**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	4.71	6.17	113	0.00661	**0.1004**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	4.71	6.17	113	0.00661	**0.1004**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	4.71	6.16	113	0.00661	**0.1003**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	4.71	6.16	113	0.00664	**0.1009**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	4.71	6.16	113	0.00655	**0.1007**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	4.73	6.18	113	0.00659	**0.1013**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	4.72	6.18	124	0.00664	**0.1021**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	113	0.00662	**0.1004**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	113	0.00662	**0.1004**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	113	0.00661	**0.1004**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	109	0.00666	**0.1007**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	109	0.00666	**0.1006**	0.004	0.005	-
B30	St. Stephen's	2014 - Without HATS Stage 2A (1a)	5.00	5.89	23	0.00788	**0.1227**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	4.92	5.56	20	0.00771	**0.1227**	0.004	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	5.00	5.89	24	0.00790	**0.1231**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.01	5.89	23	0.00781	**0.1227**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.01	5.89	23	0.00781	**0.1227**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.01	5.90	23	0.00779	**0.1222**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	4.98	5.88	23	0.00785	**0.1234**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.01	5.88	23	0.00766	**0.1228**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.03	5.92	23	0.00776	**0.1245**	0.004	0.004	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.01	5.91	25	0.00781	**0.1257**	0.004	0.004	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	23	0.00781	**0.1227**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	23	0.00781	**0.1227**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	23	0.00781	**0.1227**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	23	0.00788	**0.1227**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	23	0.00788	**0.1227**	0.004	0.005	-
B31	Chung Hom	2014 - Without HATS Stage 2A (1a)	5.05	5.70	115	0.00819	**0.1272**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.04	5.45	105	0.00804	**0.1281**	0.004	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	5.06	5.69	119	0.00822	**0.1278**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.06	5.71	112	0.00808	**0.1271**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.06	5.71	112	0.00808	**0.1271**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.07	5.71	112	0.00805	**0.1264**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.06	5.70	112	0.00814	**0.1281**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.06	5.70	112	0.00788	**0.1272**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.08	5.74	112	0.00802	**0.1295**	0.004	0.004	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.08	5.73	121	0.00808	**0.1311**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	112	0.00808	**0.1271**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	112	0.00808	**0.1271**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	112	0.00808	**0.1271**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	115	0.00820	**0.1273**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	115	0.00820	**0.1273**	0.004	0.005	-

Appendix 6.4 Model Results for Gazetted and Non-Gazetted Beaches

Note: Shaded and bolded - value exceeded the assessment criteria

ID	Indicator Point	Scenario	Bottom 10%ile DO (mg/L)	Depth Averaged 10%ile DO (mg/L)	GM *E.coli* (no./100mL)	Mean PO_4 (mg/L)	Mean TIN (mg/L)	Mean UIA (mg/L)	Max 4-d Mean UIA (mg/L)	Maximum TRC (mg/L)
Gazetted Beaches										
Assessment Criteria (for Semi-enclosed Bay in Southern WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.01	≤ 0.1	≤ 0.021	≤ 0.035	≤ 0.008
B35	Deep Water	2014 - Without HATS Stage 2A (1a)	5.15	6.02	64	0.00822	**0.1256**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.00	5.70	54	0.00804	**0.1272**	0.004	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	5.14	6.02	67	0.00826	**0.1263**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.16	6.04	64	0.00806	**0.1250**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.16	6.04	64	0.00806	**0.1250**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.17	6.04	64	0.00803	**0.1243**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.16	6.03	64	0.00812	**0.1263**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.16	6.02	64	0.00782	**0.1254**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.18	6.07	64	0.00798	**0.1279**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.18	6.06	68	0.00807	**0.1299**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	64	0.00806	**0.1250**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	64	0.00806	**0.1250**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	64	0.00806	**0.1250**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	64	0.00823	**0.1257**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	64	0.00823	**0.1257**	0.004	0.005	-
Assessment Criteria (for Southern WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.02	≤ 0.1	≤ 0.021	≤ 0.035	≤ 0.008
B22	Lo So Shing	2014 - Without HATS Stage 2A (1a)	5.22	5.96	1	0.00967	**0.1634**	0.004	0.007	0.0004
		2014 - Early Phase of HATS Stage 2A (1b)	5.13	5.73	1	0.00941	**0.1649**	0.005	0.006	0.0003
		2021 - Without HATS Stage 2A (2a)	5.22	5.96	1	0.00972	**0.1647**	0.005	0.007	0.0004
		2021 - Late Phase of HATS Stage 2A (2b)	5.23	5.98	1	0.00954	**0.1649**	0.005	0.007	0.0004
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.23	5.98	1	0.00954	**0.1649**	0.005	0.007	0.0004
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.24	5.98	1	0.00944	**0.1630**	0.004	0.007	0.0004
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.21	5.96	1	0.00968	**0.1676**	0.005	0.008	0.0004
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.23	5.96	1	0.00895	**0.1654**	0.005	0.007	0.0004
		2021 - Early Phase of HATS Stage 2B (3a)	5.29	6.03	1	0.00935	**0.1715**	0.004	0.006	0.0004
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.28	6.02	1	0.00949	**0.1754**	0.004	0.006	0.0004
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	1	0.00955	**0.1649**	0.005	0.007	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	1	0.00955	**0.1649**	0.005	0.007	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	1	0.00955	**0.1649**	0.005	0.007	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	1	0.00968	**0.1635**	0.004	0.007	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	1	0.00968	**0.1635**	0.004	0.007	-
B23	Hung Shing Yeh	2014 - Without HATS Stage 2A (1a)	5.40	6.17	1	0.00931	**0.1608**	0.004	0.006	0.0030
		2014 - Early Phase of HATS Stage 2A (1b)	5.22	5.94	1	0.00906	**0.1627**	0.004	0.006	0.0028
		2021 - Without HATS Stage 2A (2a)	5.39	6.17	1	0.00935	**0.1621**	0.004	0.007	0.0037
		2021 - Late Phase of HATS Stage 2A (2b)	5.39	6.19	1	0.00917	**0.1623**	0.004	0.007	0.0039
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.39	6.19	1	0.00917	**0.1623**	0.004	0.007	0.0039
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.41	6.20	1	0.00907	**0.1603**	0.004	0.006	0.0040
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.38	6.17	1	0.00932	**0.1651**	0.005	0.007	0.0038
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.39	6.16	1	0.00856	**0.1632**	0.005	0.007	0.0039
		2021 - Early Phase of HATS Stage 2B (3a)	5.45	6.23	1	0.00897	**0.1691**	0.004	0.005	0.0039
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.44	6.23	1	0.00911	**0.1731**	0.004	0.005	0.0040
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	1	0.00917	**0.1623**	0.004	0.007	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	1	0.00917	**0.1623**	0.004	0.007	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	1	0.00917	**0.1623**	0.004	0.007	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	1	0.00932	**0.1609**	0.004	0.006	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	1	0.00932	**0.1609**	0.004	0.006	-
B24	Big Wave Bay	2014 - Without HATS Stage 2A (1a)	5.41	5.50	3	0.00546	0.0796	0.002	0.008	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.44	5.52	3	0.00528	0.0829	0.002	0.006	0.0000
		2021 - Without HATS Stage 2A (2a)	5.42	5.50	3	0.00553	0.0807	0.002	0.008	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.50	5.59	2	0.00503	0.0763	0.002	0.007	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.50	5.59	2	0.00503	0.0763	0.002	0.007	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.50	5.60	2	0.00500	0.0759	0.002	0.007	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.49	5.59	2	0.00509	0.0774	0.002	0.007	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.49	5.58	2	0.00484	0.0766	0.002	0.007	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.53	5.63	2	0.00496	0.0789	0.002	0.006	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.52	5.62	2	0.00505	0.0807	0.002	0.006	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	2	0.00503	0.0764	0.002	0.007	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	2	0.00503	0.0764	0.002	0.007	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	2	0.00503	0.0763	0.002	0.007	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	3	0.00563	0.0819	0.003	0.011	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	3	0.00547	0.0797	0.002	0.008	-
B26	Shek O	2014 - Without HATS Stage 2A (1a)	5.02	5.30	20	0.00733	**0.1096**	0.004	0.005	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	5.04	5.33	18	0.00709	**0.1079**	0.004	0.005	0.0000
		2021 - Without HATS Stage 2A (2a)	5.04	5.30	20	0.00734	**0.1100**	0.004	0.005	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	5.06	5.33	20	0.00718	**0.1085**	0.004	0.005	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	5.06	5.33	20	0.00718	**0.1085**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	5.06	5.34	20	0.00717	**0.1083**	0.004	0.005	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	5.05	5.33	20	0.00721	**0.1090**	0.004	0.005	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	5.05	5.32	20	0.00710	**0.1086**	0.004	0.005	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	5.07	5.34	20	0.00716	**0.1096**	0.004	0.004	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	5.07	5.34	21	0.00720	**0.1105**	0.004	0.004	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	20	0.00719	**0.1085**	0.004	0.005	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	20	0.00719	**0.1085**	0.004	0.005	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	20	0.00719	**0.1085**	0.004	0.005	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	21	0.00740	**0.1106**	0.004	0.007	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	20	0.00733	**0.1096**	0.004	0.005	-

Appendix 6.4 Model Results for Gazetted and Non-Gazetted Beaches

Note: Shaded and bolded - value exceeded the assessment criteria

ID	Indicator Point	Scenario	Bottom 10%ile DO (mg/L)	Depth Averaged 10%ile DO (mg/L)	GM *E.coli* (no./100mL)	Mean PO_4 (mg/L)	Mean TIN (mg/L)	Mean UIA (mg/L)	Max 4-d Mean UIA (mg/L)	Maximum TRC (mg/L)
Non-Gazetted Beaches										
Assessment Criteria (for Semi-enclosed Bay in Southern WCZ)			≥ 2	≥ 4	≤ 180	≤ 0.01	≤ 0.1	≤ 0.021	≤ 0.035	≤ 0.008
U3	Discovery Bay	2014 - Without HATS Stage 2A (1a)	6.75	7.47	1	**0.01103**	**0.1844**	0.004	0.006	0.0000
		2014 - Early Phase of HATS Stage 2A (1b)	6.51	7.28	1	0.00955	**0.1853**	0.004	0.006	0.0000
		2021 - Without HATS Stage 2A (2a)	6.73	7.47	1	**0.01123**	**0.1904**	0.004	0.006	0.0000
		2021 - Late Phase of HATS Stage 2A (2b)	6.76	7.51	1	**0.01014**	**0.1898**	0.004	0.006	0.0000
		2021- Sensitivity Test - Stage 2A - Change of Storm Loading (2c)	6.76	7.51	1	**0.01013**	**0.1898**	0.004	0.006	0.0000
		2021 - Sensitivity Test - Stage 2A - Change of Sewage Flow Interception (2d)	6.77	7.52	1	0.00962	**0.1800**	0.004	0.006	0.0000
		Ultimate - Sensitivity Test - Stage 2A - Use of HATS Design Flow Rate (2e)	6.72	7.49	1	**0.01080**	**0.2028**	0.004	0.006	0.0000
		2021 - Sensitivity Test - Stage 2A - enhanced P-removal (2f)	6.70	7.43	1	0.00715	**0.1977**	0.004	0.006	0.0000
		2021 - Early Phase of HATS Stage 2B (3a)	6.89	7.65	1	0.00901	**0.2217**	0.004	0.005	0.0000
		Ultimate - Late Phase of HATS Stage 2B (3b)	6.87	7.64	1	0.00965	**0.2401**	0.004	0.005	0.0000
		2021 - Emergency Scenario due to heavy rainfall (overflow) (A)	-	-	1	**0.01014**	**0.1899**	0.004	0.006	-
		2021 - Emergency Scenario due to power failure at SCISTW (B)	-	-	1	**0.01014**	**0.1899**	0.004	0.006	-
		2021 - Emergency Scenario due to failure at Stage 2 PTWs (C)	-	-	1	**0.01014**	**0.1898**	0.004	0.006	-
		2014 - Emergency Scenario due to modification works at pumping station (D)	-	-	1	**0.01113**	**0.1851**	0.004	0.006	-
		2014 - Emergency Scenario due to modification works at NWK PS (E)	-	-	1	**0.01106**	**0.1845**	0.004	0.006	-