Appendix 5.10i

Construction Phase Nutrient and Contaminant Concentrations at WSRs

Construction Phase Nutrient and Contaminant Concentrations at WSRs

WSRs	ID	Dilution Potential, See Note 3				Cumulative Concentrations (R1 + R2)																		
		Contaminant Release from TKO 137 (R1)		Contaminant Release from TKO 132 (R2)		Total Inorganic Nitrogen (TIN) (mg/L), see Note 4		Unionized Ammonia (UIA) (mg/L), See Note 4		Ammonia Nitrogen (NH_3-N) (mg/L)			Arsenic (µg/L)		Copper (µg/L)		Zinc (µg/L)		Polychlorinated Biphenyls (PCBs) (µg/L)		Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L)		Tributyltin (TBT) (µg/L)	
Maximum Concentration in Elutriates, See Note 1 and Note 2		**-**	**-**	**-**	**-**	**3.97**		**0.9336**		**3.82**			**37**		**4.8**		**73**		**0.18**		**9**		**0.015**	
Description:		**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Criteria**	**Predicted Level**	**Criteria**	**Predicted Level**	**Criteria**	**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**	
											Wet Season	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**
Assessment Criteria, See Note 5		-	-	-	-	See below	-	See below	-	See below	-	-	13		1.3		8		0.03		0.2		0.006	
Flushing Water Intake																								
Tseung Kwan O	FW1	3.79E+03	2.29E+03	1.78E+03	1.06E+03	-	0.004380	-	0.001030	0.92	0.0031584	0.0052700	0.0305917	0.0510441	0.0046284	0.0077124	0.0603567	0.1007086	0.0001488	0.0002483	0.0074412	0.0124161	0.0000124	0.0000207
Cha Kwo Ling	FW2	5.80E+03	3.19E+03	2.78E+03	1.83E+03	-	0.002762	-	0.000650	0.91	0.0020337	0.0032826	0.0196977	0.0317945	0.0029862	0.0049088	0.0388631	0.0627298	0.0000958	0.0001547	0.0047913	0.0077338	0.0000080	0.0000129
Sai Wan Ho	FW3	6.03E+03	3.76E+03	3.91E+03	4.08E+03	-	0.001850	-	0.000435	0.91	0.0016096	0.0019507	0.0155908	0.0188944	0.0024369	0.0031154	0.0307602	0.0372781	0.0000758	0.0000919	0.0037924	0.0045959	0.0000063	0.0000077
Quarry Bay	FW4	5.95E+03	3.80E+03	3.98E+03	3.46E+03	-	0.001928	-	0.000453	0.88	0.0016021	0.0021075	0.0155173	0.0204131	0.0024331	0.0033055	0.0306152	0.0402745	0.0000755	0.0000993	0.0037745	0.0049654	0.0000063	0.0000083
Heng Fa Chuen	FW5	6.22E+03	4.77E+03	4.59E+03	7.59E+03	-	0.001429	-	0.000336	0.91	0.0014464	0.0013043	0.0140097	0.0126333	0.0022197	0.0021630	0.0276408	0.0249252	0.0000682	0.0000615	0.0034078	0.0030730	0.0000057	0.0000051
Siu Sai Wan	FW6	6.36E+03	7.18E+03	4.44E+03	1.60E+04	-	0.001160	-	0.000273	0.91	0.0014606	0.0007715	0.0141468	0.0074728	0.0022286	0.0013179	0.0279114	0.0147436	0.0000688	0.0000364	0.0034411	0.0018177	0.0000057	0.0000030
Seawater Intake																								
TKO Desalination Plant	SW1	4.88E+03	9.56E+03	1.10E+04	5.32E+04	0.27	0.000832	0.019	0.000196	-	0.0011296	0.0004713	0.0109412	0.0045645	0.0019314	0.0008536	0.0215867	0.0090057	0.0000532	0.0000222	0.0026614	0.0011103	0.0000044	0.0000019
Cooling Water Intake																								
Kai Tak District Cooling System	CW1	7.28E+03	3.67E+03	3.79E+03	2.53E+03	-	0.002123	-	0.000499	-	0.0015325	0.0025529	0.0148440	0.0247267	0.0022690	0.0038889	0.0292869	0.0487852	0.0000722	0.0001203	0.0036107	0.0060146	0.0000060	0.0000100
Yau Tong Bay Ice Plant	CW2	5.54E+03	3.15E+03	2.59E+03	1.79E+03	-	0.002861	-	0.000673	-	0.0021627	0.0033433	0.0209474	0.0323825	0.0031691	0.0049941	0.0413286	0.0638898	0.0001019	0.0001575	0.0050953	0.0078768	0.0000085	0.0000131
Tai Koo Place	CW3	5.87E+03	3.77E+03	3.87E+03	3.39E+03	-	0.001962	-	0.000461	-	0.0016380	0.0021386	0.0158654	0.0207139	0.0024841	0.0033503	0.0313019	0.0408680	0.0000772	0.0001008	0.0038591	0.0050385	0.0000064	0.0000084
North Point Government Office	CW4	5.86E+03	3.81E+03	3.94E+03	3.36E+03	-	0.001954	-	0.000460	-	0.0016213	0.0021390	0.0157032	0.0207184	0.0024639	0.0033437	0.0309820	0.0408769	0.0000764	0.0001008	0.0038197	0.0050396	0.0000064	0.0000084
Pamela Youde Nethersole Eastern Hospital	CW5	6.33E+03	5.45E+03	4.51E+03	1.04E+04	-	0.001308	-	0.000308	-	0.0014511	0.0010666	0.0140548	0.0103305	0.0022181	0.0017989	0.0277297	0.0203818	0.0000684	0.0000503	0.0034187	0.0025128	0.0000057	0.0000042
Gazetted Bathing Beach																								
Big Wave Bay	B1	5.86E+03	4.84E+04	6.12E+03	1.35E+05	0.001	0.000719	0.019	0.000169	-	0.0012764	0.0001073	0.0123630	0.0010397	0.0020304	0.0001866	0.0243919	0.0020512	0.0000601	0.0000051	0.0030072	0.0002529	0.0000050	0.0000004
Rocky Bay	B2	5.78E+03	4.75E+04	6.48E+03	1.59E+05	0.001	0.000704	0.019	0.000166	-	0.0012505	0.0001046	0.0121124	0.0010128	0.0020038	0.0001841	0.0238974	0.0019982	0.0000589	0.0000049	0.0029463	0.0002464	0.0000049	0.0000004
Shek O	B3	7.33E+03	1.05E+05	8.36E+03	2.69E+05	0.001	0.000535	0.019	0.000126	-	0.0009780	0.0000508	0.0094732	0.0004916	0.0015699	0.0000877	0.0186904	0.0009699	0.0000461	0.0000024	0.0023043	0.0001196	0.0000038	0.0000002
Clear Water Bay First	B4	1.91E+05	4.43E+05	3.16E+05	4.43E+05	0.04	0.000026	0.020	0.000006	-	0.0000321	0.0000173	0.0003108	0.0001671	0.0000534	0.0000273	0.0006132	0.0003297	0.0000015	0.0000008	0.0000756	0.0000406	0.0000001	0.0000001
Clear Water Bay Second	B5	1.79E+05	4.43E+05	3.00E+05	4.43E+05	0.04	0.000027	0.020	0.000006	-	0.0000341	0.0000173	0.0003308	0.0001671	0.0000569	0.0000273	0.0006526	0.0003297	0.0000016	0.0000008	0.0000805	0.0000406	0.0000001	0.0000001
Potential Water Sports Area																								
Junk Bay	WS1	3.39E+03	2.15E+03	1.62E+03	1.03E+03	0.16	0.004659	0.019	0.001096	-	0.0034826	0.0054825	0.0337325	0.0531026	0.0051143	0.0080525	0.0665532	0.1047700	0.0001641	0.0002583	0.0082052	0.0129168	0.0000137	0.0000215
Secondary Contact Recreation Subzone																								
Junk Bay West	C1a	3.58E+03	2.24E+03	1.16E+03	7.22E+02	0.16	0.005901	0.019	0.001388		0.0043631	0.0069927	0.0422604	0.0677300	0.0061816	0.0099013	0.0833786	0.1336294	0.0002056	0.0003295	0.0102796	0.0164749	0.0000171	0.0000275
Junk Bay West	C1d	3.45E+03	2.42E+03	1.75E+03	2.06E+03	0.16	0.003490	0.019	0.000821		0.0032864	0.0034292	0.0318313	0.0332150	0.0048536	0.0053418	0.0628022	0.0655322	0.0001549	0.0001616	0.0077427	0.0080793	0.0000129	0.0000135
Junk Bay West	C1f	2.99E+03	2.05E+03	8.35E+02	6.94E+02	0.16	0.006871	0.019	0.001616		0.0058515	0.0073704	0.0566769	0.0713883	0.0081896	0.0104828	0.1118221	0.1408472	0.0002757	0.0003473	0.0137863	0.0173647	0.0000230	0.0000289
Junk Bay West	C1g	3.40E+03	2.19E+03	1.03E+03	6.91E+02	0.16	0.006289	0.019	0.001479		0.0048299	0.0072725	0.0467819	0.0704406	0.0068047	0.0102779	0.0922995	0.1389774	0.0002276	0.0003427	0.0113794	0.0171342	0.0000190	0.0000286
Junk Bay West	CR1	3.11E+03	2.07E+03	9.61E+02	6.97E+02	0.16	0.006511	0.019	0.001531		0.0052044	0.0073251	0.0504087	0.0709502	0.0073428	0.0104136	0.0994550	0.1399829	0.0002452	0.0003452	0.0122616	0.0172582	0.0000204	0.0000288
Coral Communities																								
Junk Bay West	C1a	3.51E+03	2.24E+03	1.07E+03	7.22E+02	0.18	0.006063	0.019	0.001426	-	0.0046682	0.0069999	0.0452151	0.0678002	0.0065776	0.0099119	0.0892081	0.1337680	0.0002200	0.0003298	0.0109983	0.0164920	0.0000183	0.0000275
Junk Bay West	C1d	3.33E+03	2.33E+03	2.05E+03	1.76E+03	0.19	0.003546	0.020	0.000834	-	0.0030082	0.0038154	0.0291367	0.0369558	0.0045296	0.0058670	0.0574859	0.0729128	0.0001417	0.0001798	0.0070873	0.0089893	0.0000118	0.0000150
Junk Bay West	C1e	2.80E+03	2.09E+03	1.02E+03	7.69E+02	0.19	0.006177	0.020	0.001453	-	0.0050929	0.0067936	0.0493293	0.0658014	0.0072914	0.0097317	0.0973254	0.1298244	0.0002400	0.0003201	0.0119990	0.0160058	0.0000200	0.0000267
Junk Bay West	C1f	2.81E+03	2.02E+03	6.69E+02	7.07E+02	0.19	0.007465	0.020	0.001755	-	0.0070710	0.0072946	0.0684886	0.0706546	0.0097741	0.0104055	0.1351262	0.1393996	0.0003332	0.0003437	0.0166594	0.0171863	0.0000278	0.0000286
Junk Bay West	C1g	3.23E+03	2.18E+03	8.24E+02	6.91E+02	0.18	0.006808	0.019	0.001601	-	0.0058172	0.0072842	0.0563447	0.0705534	0.0080832	0.0103003	0.1111666	0.1392000	0.0002741	0.0003432	0.0137055	0.0171616	0.0000228	0.0000286
Junk Bay	C2	2.43E+03	2.02E+03	1.53E+03	2.29E+03	0.19	0.003968	0.020	0.000933	-	0.0040735	0.0035630	0.0394551	0.0345107	0.0061470	0.0057151	0.0778438	0.0680886	0.0001919	0.0001679	0.0095972	0.0083945	0.0000160	0.0000140
Lohas Park	C3	2.98E+03	2.27E+03	1.87E+03	1.19E+03	0.18	0.004266	0.019	0.001003	-	0.0033217	0.0048875	0.0321735	0.0473393	0.0050118	0.0072432	0.0634774	0.0933992	0.0001565	0.0002303	0.0078260	0.0115150	0.0000130	0.0000192
Junk Island	C4	2.95E+03	2.32E+03	9.48E+02	8.77E+02	0.18	0.005884	0.019	0.001384	-	0.0053213	0.0060023	0.0515411	0.0581374	0.0075330	0.0086207	0.1016893	0.1147036	0.0002507	0.0002828	0.0125370	0.0141415	0.0000209	0.0000236
TKO INNOPARK	C5a	3.20E+03	2.20E+03	2.26E+03	1.37E+03	0.18	0.003854	0.019	0.000906	-	0.0028837	0.0045332	0.0279306	0.0439081	0.0044038	0.0068339	0.0551064	0.0866294	0.0001359	0.0002136	0.0067939	0.0106803	0.0000113	0.0000178
TKO INNOPARK	C5b	2.83E+03	2.10E+03	2.41E+03	1.41E+03	0.18	0.003883	0.019	0.000913	-	0.0029354	0.0045373	0.0284317	0.0439480	0.0045704	0.0068943	0.0560949	0.0867083	0.0001383	0.0002138	0.0069158	0.0106901	0.0000115	0.0000178
TKO INNOPARK	C5c	2.81E+03	2.03E+03	2.61E+03	1.48E+03	0.18	0.003788	0.019	0.000891	-	0.0028252	0.0044641	0.0273648	0.0432384	0.0044396	0.0068382	0.0539899	0.0853082	0.0001331	0.0002103	0.0066563	0.0105175	0.0000111	0.0000175
TKO INNOPARK	C5d	2.57E+03	1.94E+03	3.12E+03	1.64E+03	0.18	0.003648	0.019	0.000858	-	0.0027123	0.0043079	0.0262713	0.0417253	0.0043809	0.0067034	0.0518326	0.0823229	0.0001278	0.0002030	0.0063903	0.0101494	0.0000107	0.0000169
Fat Tong Chau	C6a	2.98E+03	1.94E+03	2.99E+03	1.69E+03	0.19	0.003531	0.020	0.000830		0.0025627	0.0042334	0.0248224	0.0410039	0.0040603	0.0066101	0.0489740	0.0808995	0.0001208	0.0001995	0.0060379	0.0099739	0.0000101	0.0000166
Fat Tong Chau	C6b	2.78E+03	1.84E+03	3.20E+03	1.81E+03	0.19	0.003512	0.020	0.000826	-	0.0025657	0.0041935	0.0248513	0.0406179	0.0041219	0.0066306	0.0490309	0.0801381	0.0001209	0.0001976	0.0060449	0.0098800	0.0000101	0.0000165
Tit Cham Chau	C7	5.42E+03	6.20E+03	1.19E+04	3.81E+04	0.30	0.000906	0.019	0.000213	-	0.0010266	0.0007168	0.0099433	0.0069432	0.0017508	0.0013042	0.0196178	0.0136988	0.0000484	0.0000338	0.0024186	0.0016889	0.0000040	0.0000028
Kwun Tsai	C8	7.47E+03	9.53E+03	1.75E+04	5.12E+04	0.30	0.000627	0.019	0.000147	-	0.0007304	0.0004754	0.0070743	0.0046043	0.0012526	0.0008596	0.0139574	0.0090843	0.0000344	0.0000224	0.0017208	0.0011200	0.0000029	0.0000019
Tin Ha Au	C9	5.08E+03	1.03E+04	1.12E+04	5.52E+04	0.30	0.000797	0.019	0.000187	-	0.0010916	0.0004416	0.0105727	0.0042769	0.0018634	0.0007986	0.0208596	0.0084381	0.0000514	0.0000208	0.0025717	0.0010403	0.0000043	0.0000017
Tin Ha Shan	C10	6.33E+03	9.68E+03	1.39E+04	5.45E+04	0.30	0.000698	0.019	0.000164	-	0.0008778	0.0004645	0.0085027	0.0044992	0.0014983	0.0008418	0.0167756	0.0088768	0.0000414	0.0000219	0.0020682	0.0010944	0.0000034	0.0000018
Tai Miu Wan	C11	9.42E+03	1.06E+04	2.07E+04	6.20E+04	0.30	0.000525	0.019	0.000124	-	0.0005902	0.0004208	0.0057167	0.0040754	0.0010070	0.0007638	0.0112790	0.0080406	0.0000278	0.0000198	0.0013906	0.0009913	0.0000023	0.0000017
Tung Lung Chau West	C12	8.37E+03	4.00E+03	1.34E+04	2.91E+04	0.32	0.000949	0.020	0.000223	-	0.0007409	0.0010860	0.0071767	0.0105191	0.0012296	0.0019896	0.0141595	0.0207540	0.0000349	0.0000512	0.0017457	0.0025587	0.0000029	0.0000043
Tung Lung Chau North	C13	5.93E+03	5.46E+03	1.30E+04	4.39E+04	0.30	0.000897	0.019	0.000211	-	0.0009391	0.0007866	0.0090958	0.0076188	0.0016017	0.0014462	0.0179458	0.0150317	0.0000442	0.0000371	0.0022125	0.0018532	0.0000037	0.0000031
Tung Lung Chau North	C14	6.77E+03	8.39E+03	1.46E+04	5.95E+04	0.30	0.000699	0.019	0.000164	-	0.0008249	0.0005194	0.0079903	0.0050312	0.0014057	0.0009506	0.0157646	0.0099264	0.0000389	0.0000245	0.0019436	0.0012238	0.0000032	0.0000020

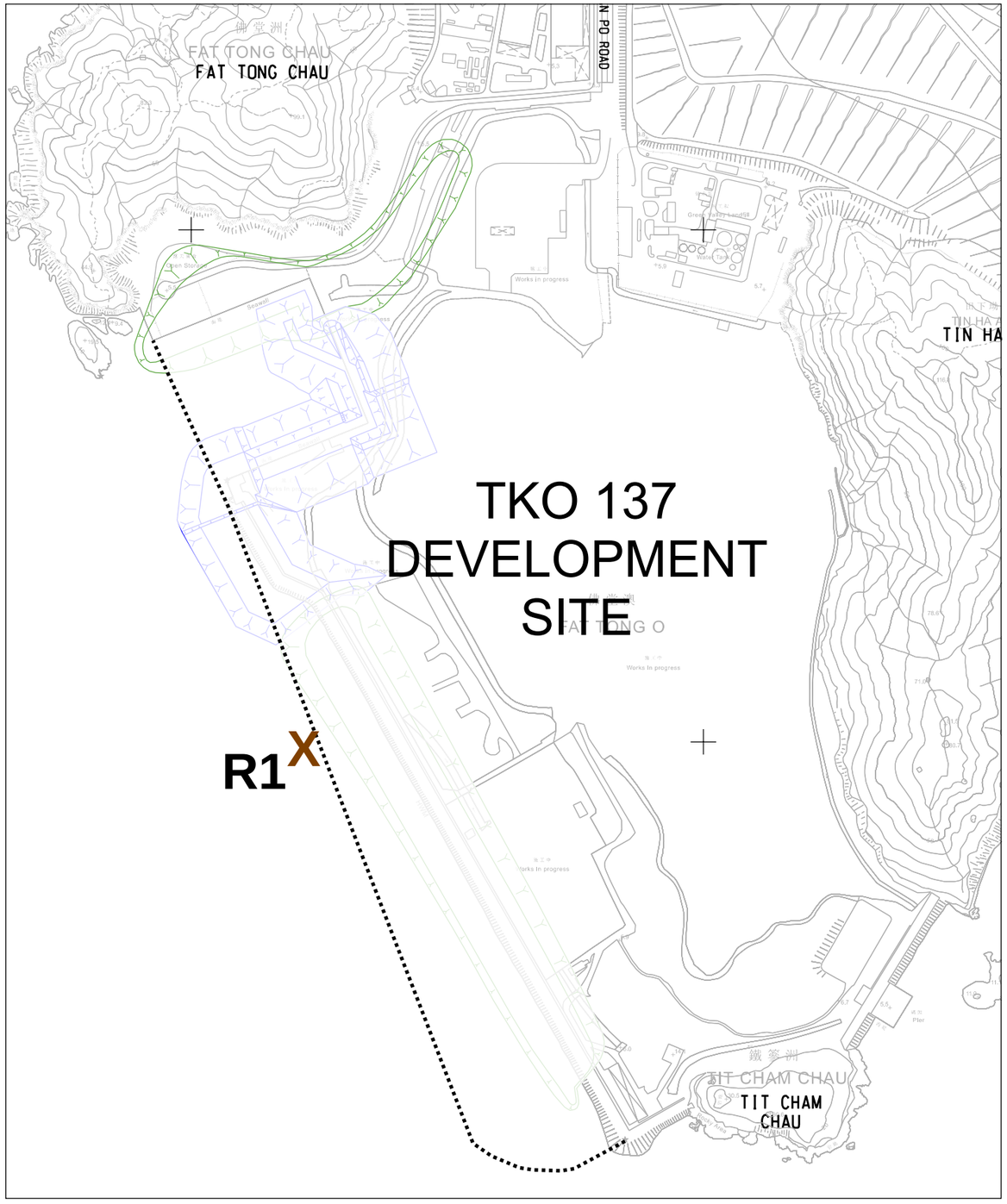
Construction Phase Nutrient and Contaminant Concentrations at WSRs

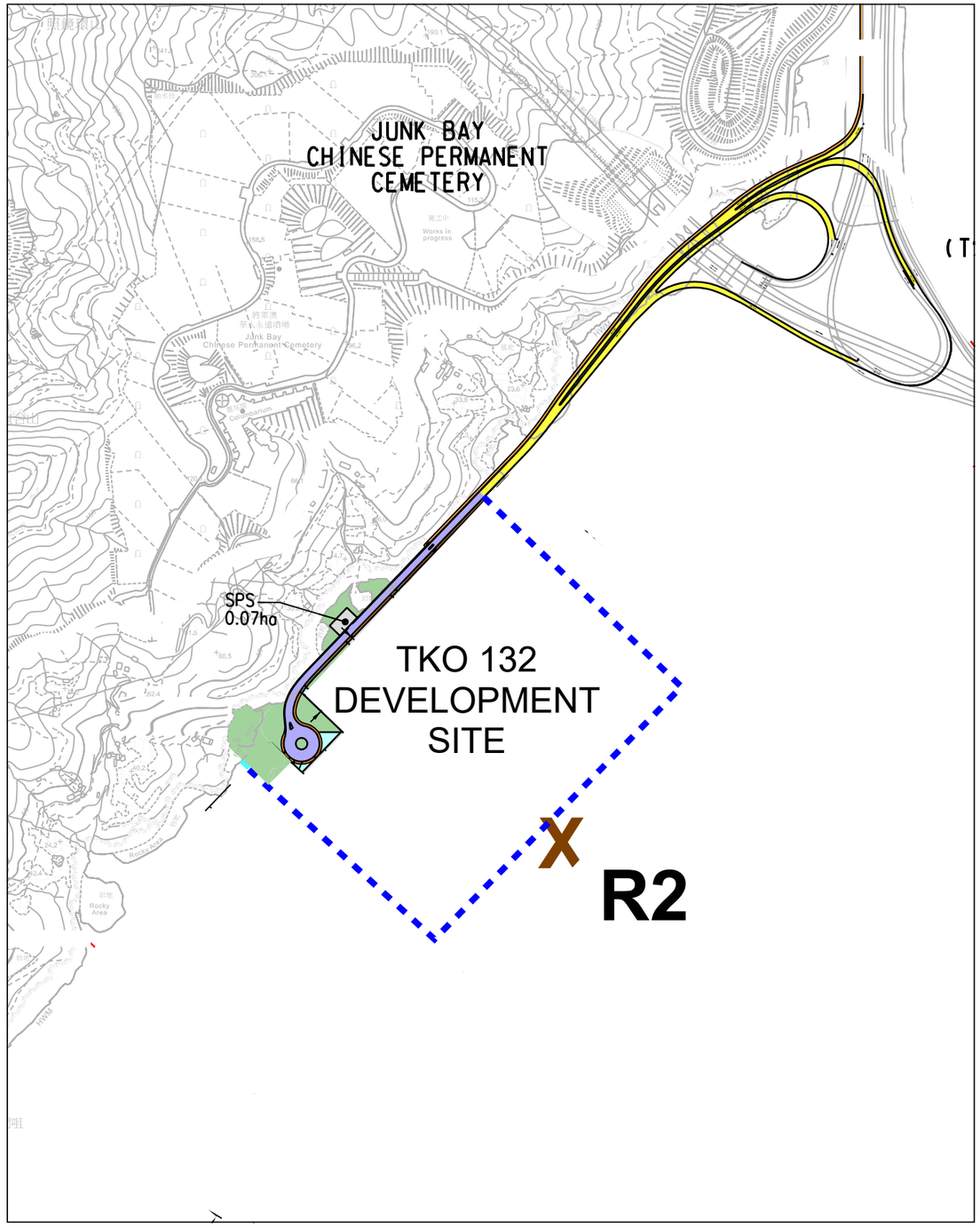
WSRs	ID	Dilution Potential, See Note 3				Cumulative Concentrations (R1 + R2)																			
		Contaminant Release from TKO 137 (R1)		Contaminant Release from TKO 132 (R2)		Total Inorganic Nitrogen (TIN) (mg/L), see Note 4		Unionized Ammonia (UIA) (mg/L), See Note 4		Ammonia Nitrogen (NH_3-N) (mg/L)			Arsenic (µg/L)		Copper (µg/L)		Zinc (µg/L)		Polychlorinated Biphenyls (PCBs) (µg/L)		Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L)		Tributyltin (TBT) (µg/L)	
Maximum Concentration in Elutriates, See Note 1 and Note 2		**-**	**-**	**-**	**-**	**3.97**		**0.9336**		**3.82**			**37**		**4.8**		**73**		**0.18**		**9**		**0.015**	
Description:		**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Criteria**	**Predicted Level**	**Criteria**	**Predicted Level**	**Criteria**	**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**		**Predicted Level**	
											Wet Season	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**	**Wet Season**	**Dry Season**
Assessment Criteria, See Note 5		-	-	-	-	See below	-	See below	-	See below	-	-	13		1.3		8		0.03		0.2		0.006	
Coral Communities																									
Tung Lung Chau North	C15	9.55E+03	2.17E+04	2.09E+04	1.29E+05	0.23	0.000410	0.020	0.000096	-	0.0005825	0.0002057	0.0056424	0.0019919	0.0009938	0.0003737	0.0111323	0.0039300	0.0000274	0.0000097	0.0013725	0.0004845	0.0000023	0.0000008
Tung Lung Chau East	C16	4.09E+04	1.61E+05	7.97E+04	3.63E+05	0.23	0.000091	0.020	0.000021	-	0.0001414	0.0000343	0.0013692	0.0003325	0.0002387	0.0000587	0.0027013	0.0006560	0.0000067	0.0000016	0.0003330	0.0000809	0.0000006	0.0000001
Tung Lung Chau East	C17	3.02E+04	2.04E+05	5.51E+04	3.82E+05	0.23	0.000117	0.020	0.000027	-	0.0001959	0.0000288	0.0018979	0.0002788	0.0003291	0.0000484	0.0037445	0.0005500	0.0000092	0.0000014	0.0004616	0.0000678	0.0000008	0.0000001
Tung Lung Chau South	C18	3.71E+04	1.51E+04	5.17E+04	9.79E+04	0.32	0.000243	0.020	0.000057	-	0.0001768	0.0002915	0.0017123	0.0028236	0.0002894	0.0005316	0.0033782	0.0055709	0.0000083	0.0000137	0.0004165	0.0006868	0.0000007	0.0000011
Cape Collinson	C19	1.21E+04	8.91E+03	2.16E+04	2.25E+04	0.30	0.000567	0.019	0.000133	-	0.0004929	0.0005984	0.0047740	0.0057961	0.0008264	0.0010325	0.0094190	0.0114355	0.0000232	0.0000282	0.0011612	0.0014099	0.0000019	0.0000023
Cape Collinson	C20	1.49E+04	1.13E+04	2.63E+04	3.91E+04	0.30	0.000434	0.019	0.000102	-	0.0004008	0.0004353	0.0038817	0.0042159	0.0006709	0.0007679	0.0076584	0.0083179	0.0000189	0.0000205	0.0009442	0.0010255	0.0000016	0.0000017
Cape Collinson	C21	1.43E+04	2.24E+04	2.07E+04	8.17E+04	0.30	0.000348	0.019	0.000082	-	0.0004521	0.0002170	0.0043789	0.0021015	0.0007432	0.0003840	0.0086394	0.0041462	0.0000213	0.0000102	0.0010651	0.0005112	0.0000018	0.0000009
Tai Long Pai	C22	3.49E+04	1.56E+04	6.13E+04	5.31E+04	0.32	0.000254	0.020	0.000060	-	0.0001719	0.0003164	0.0016645	0.0030650	0.0002877	0.0005576	0.0032841	0.0060472	0.0000081	0.0000149	0.0004049	0.0007455	0.0000007	0.0000012
Shek Mei Tau	C23	1.51E+05	4.43E+05	2.57E+05	4.43E+05	0.03	0.000030	0.020	0.000007	-	0.0000402	0.0000173	0.0003894	0.0001671	0.0000671	0.0000273	0.0007683	0.0003297	0.0000019	0.0000008	0.0000947	0.0000407	0.0000002	0.0000001
So Shi Tau	C24	1.83E+05	4.43E+05	3.02E+05	4.43E+05	0.03	0.000026	0.020	0.000006	-	0.0000335	0.0000173	0.0003248	0.0001671	0.0000558	0.0000273	0.0006408	0.0003297	0.0000016	0.0000008	0.0000790	0.0000406	0.0000001	0.0000001
Tai Wan Tau	C25	1.84E+05	4.43E+05	3.03E+05	4.43E+05	0.03	0.000026	0.020	0.000006	-	0.0000333	0.0000173	0.0003228	0.0001671	0.0000554	0.0000273	0.0006369	0.0003297	0.0000016	0.0000008	0.0000785	0.0000406	0.0000001	0.0000001
Po Keng Teng	C26	1.87E+05	4.43E+05	3.13E+05	4.43E+05	0.03	0.000026	0.020	0.000006	-	0.0000326	0.0000173	0.0003157	0.0001671	0.0000543	0.0000273	0.0006229	0.0003297	0.0000015	0.0000008	0.0000768	0.0000406	0.0000001	0.0000001
Hong Kong Museum of Coastal Defence	C27	6.16E+03	4.03E+03	5.70E+03	5.41E+03	0.27	0.001531	0.019	0.000360	-	0.0012905	0.0016555	0.0124995	0.0160353	0.0020274	0.0027013	0.0246613	0.0316373	0.0000608	0.0000780	0.0030404	0.0039005	0.0000051	0.0000065
Coral Recipient Site																									
Junk Bay West	CR1	2.99E+03	2.05E+03	8.25E+02	6.97E+02	0.19	0.006882	0.020	0.001618	-	0.0059044	0.0073391	0.0571888	0.0710857	0.0082545	0.0104392	0.1128319	0.1402501	0.0002782	0.0003458	0.0139108	0.0172911	0.0000232	0.0000288
Fai Tong Chau	CR2	9.34E+02	7.49E+02	5.08E+03	3.45E+03	0.18	0.005739	0.019	0.001350	-	0.0048411	0.0062034	0.0468898	0.0600854	0.0087590	0.0111309	0.0925123	0.1185469	0.0002281	0.0002923	0.0114056	0.0146154	0.0000190	0.0000244
Amphioxus																									
Tit Cham Chau	A1	1.16E+04	3.52E+03	2.57E+04	3.17E+04	0.30	0.000875	0.019	0.000206	-	0.0004770	0.0012071	0.0046203	0.0116918	0.0005994	0.0015168	0.0091157	0.0230677	0.0000225	0.0000569	0.0011239	0.0028440	0.0000019	0.0000047
Tathong Channel	A2	9.23E+03	5.20E+03	1.81E+04	1.24E+04	0.30	0.000867	0.019	0.000204	-	0.0006243	0.0010443	0.0060469	0.0101154	0.0007845	0.0013123	0.0119304	0.0199573	0.0000294	0.0000492	0.0014709	0.0024605	0.0000025	0.0000041
Site of Special Scientific Interest																									
Shek O Headland	SS1	1.61E+05	4.43E+05	3.15E+05	4.43E+05	0.001	0.000028	0.019	0.000006	-	0.0000359	0.0000173	0.0003475	0.0001671	0.0000451	0.0000217	0.0006856	0.0003297	0.0000017	0.0000008	0.0000845	0.0000406	0.0000001	0.0000001
Fisheries Sensitive Receiver																									
Tung Lung Chau Fish Culture Zone	F1	3.23E+03	4.53E+03	6.48E+03	4.05E+04	0.27	0.001407	0.019	0.000331	-	0.0017708	0.0009369	0.0171519	0.0090742	0.0022251	0.0011772	0.0338403	0.0179032	0.0000834	0.0000441	0.0041721	0.0022072	0.0000070	0.0000037
Po Tai O Fish Culture Zone	F2	1.61E+05	4.43E+05	3.15E+05	4.43E+05	0.04	0.000028	0.020	0.000006	-	0.0000359	0.0000173	0.0003475	0.0001671	0.0000451	0.0000217	0.0006856	0.0003297	0.0000017	0.0000008	0.0000845	0.0000406	0.0000001	0.0000001
Important Spawning Ground of Commercial Fisheries Resources	SG1	1.65E+04	8.31E+04	2.21E+04	2.61E+05	0.001	0.000242	0.019	0.000057	-	0.0004048	0.0000606	0.0039205	0.0005868	0.0005086	0.0000761	0.0077351	0.0011577	0.0000191	0.0000029	0.0009536	0.0001427	0.0000016	0.0000002
Important Spawning Ground of Commercial Fisheries Resources	SG2	1.59E+04	3.04E+04	2.23E+04	1.36E+05	0.30	0.000294	0.019	0.000069	-	0.0004115	0.0001540	0.0039861	0.0014913	0.0005171	0.0001935	0.0078644	0.0029422	0.0000194	0.0000073	0.0009696	0.0003627	0.0000016	0.0000006
Important Spawning Ground of Commercial Fisheries Resources	SG3	1.03E+04	3.12E+04	2.16E+04	1.73E+05	0.24	0.000360	0.020	0.000085	-	0.0005487	0.0001445	0.0053146	0.0014000	0.0006895	0.0001816	0.0104855	0.0027622	0.0000259	0.0000068	0.0012927	0.0003406	0.0000022	0.0000006
Important Nursery Ground of Commercial Fisheries Resources	NG1	2.41E+05	4.43E+05	3.84E+05	4.43E+05	0.04	0.000022	0.020	0.000005	-	0.0000258	0.0000173	0.0002496	0.0001671	0.0000324	0.0000217	0.0004925	0.0003297	0.0000012	0.0000008	0.0000607	0.0000406	0.0000001	0.0000001
Typhoon Shelter																									
Sam Ka Tsuen	T1	5.67E+03	3.14E+03	2.48E+03	1.67E+03	0.23	0.002967	0.019	0.000698	-	0.0022124	0.0034971	0.0214290	0.0338722	0.0027800	0.0043942	0.0422788	0.0668290	0.0001042	0.0001648	0.0052125	0.0082392	0.0000087	0.0000137

Notes:

1. The maximum contaminant concentration of available elutriate data was adopted in the dilution caculation.
2. All measured PCBs, PAHs and TBT levels in the elutriates are below the detection limits. The detection limits are however higher than the assessment criteria. The detection limits are adopted as initial concentrations for conservative assessment.
3. Continuous release of inert tracer at separate sources (R1 and R2, see figure below) was simulated using the refined DFM-HK Model. The average tracer concentration predicted at WSR is compared with that at the discharge point to derive the dilution potential.
4. The predicted concentrations in dry and wet seasons are averaged for comparison with the WQOs for TIN and UIA, which are defined as annual mean values.
5. Details of assessment criteria are presented in Section 5.7.2.
6. Construction of marine viaducts at TKO 132 will not involve dredging. Pre-cast pile cap shell would be used to contain any pollutant release. Contaminant release from the small scale pilling works conducted within steel casing would be minimal and therefore not considered.

'-' No applicable WQOs / criteria


FAT TONG CHAU
TIN HA
TKO 137
DEVELOPMENT
SITE
R1
TIT CHAM
CHAU


JUNK BAY
CHINESE PERMANENT
CEMETERY
SPS
0.07ha
TKO 132
DEVELOPMENT
SITE
R2