Appendix 5.5

Calculation of Pollution Inventory due to Project

Stormwater loading

a) Dry weather load:

All the sewage generated from the additional population and employment would be collected and pumped to Siu Ho Wan Sewage Treatment Works for treatment before discharge. The dry weather load due to the unsewered developments and aged drainage connection in the new development is negligible.

b) Rainfall related load:

Catchment Information

Catchment	Area (m2)
Tung Chung East and Seafront for	1,240,000
Tung Chung West	419,938

Rainfall Information

Season	Runoff value (m/day)	Runoff value (m/s)
Dry	0.00102	1.1806E-08
Wet	0.01104	1.2778E-07

Event Mean Concentrations for Stormwater Runoff*

TSS (g/m^3)	BOD_5 (g/m^3)	NH_3N (g/m^3)	Cu (g/m^3)	TP (g/m^3)	OrthoP (g/m^3)	Silicate (g/m^3)	TON (g/m^3)	TKN (g/m^3)
43.25	22.48	0.2	0.01	0.2	0.04	3.28	0.4	1.4

*Agreement No. CE 7/2005 (EP)

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Rainfall Related Load

				Pollution Loading for Ultimate Year								
Catchment	**Season**	**Area (m2)**	**Daily volume of runoff in**	**TSS (g/s)**	**BOD5 (g/s)**	**NH3N (g/s)**	**Cu (g/s)**	**TP(g/s)**	**OrthoP(g/s)**	**Silicate(g/s)**	**TON (g/s)**	**TKN (g/s)**
Tung Chung East and Seafront for Road P1 Reclamation	Dry	1,240,000	0.0146	0.6331	0.3291	0.0029	0.0001	0.0029	0.0006	0.0480	0.0059	0.0205
	Wet	1,240,000	0.1584	6.8527	3.5618	0.0317	0.0016	0.0317	0.0063	0.5197	0.0634	0.2218
Tung Chung West	Dry	419,938	0.0050	0.2144	0.1114	0.0010	0.0000	0.0010	0.0002	0.0163	0.0020	0.0069
	Wet	419,938	0.0537	2.3207	1.2062	0.0107	0.0005	0.0107	0.0021	0.1760	0.0215	0.0751

* Assumed that the reclaimed land and additional paved area are impermeable