

Estimation of Total Pollution Load Generated in the Yau Tong Area (from Residential, Commercial and Industrial Sources)

1. The total pollution load generated in the YT area for year 2012 was calculated by taking the forecast population and employment figures for the area and multiplying them by the “per capita” pollution load factors available from the DSD Sewerage Manual. The resulted pollution load are summarised in the below table. The population and total employment figures for the YTB sewerage catchment were obtained from the Kowloon District Office of Planning Department for estimation of domestic pollution load. Employment data by individual commercial and industrial sectors are however not available from the District Office for estimation of pollution load generated from commercial and industrial processes and were therefore taken from the Territorial Population and Employment Data Matrix (TPEDM) released from Planning Department in May 1998 for strategic planning. As there is no other better information available, the “TPEDM” is considered as the best source of reference for estimation of commercial and industrial employment.

Activities		No. of Person	Pollution Load (g/day)				
			BOD	SS	<i>E.coli</i>	TKN	NH3N
Pollution Load from Domestic Sources							
Population	Proposed YTB Development ¹	50000	2099984	1999985	2.15E+15	424997	249998
	Other development in YT catchment	97156	4080552	3886240	4.18E+15	825826	485780
Total Employment ²	Proposed YTB Development	20920	711280	711280	7.32E+14	140164	83680
	Other development in YT catchment	21389	727242	727242	7.49E+14	143309	85558
Pollution Load from Commercial and Industrial Activities							
Employment in Commercial Sector		11573	613369	289325	0.00E+00	28933	9258
Industrial Employment	Food	100	89862	63244	0.00E+00	4403	0
	Textiles	650	2393653	1362691	0.00E+00	43580	0
	Leather	0	0	0	0.00E+00	0	0
	Paper	271	583690	604866	0.00E+00	8959	0
	Manufacturing	75	69873	26643	0.00E+00	0	0
	Machinery	160	21319	14266	0.00E+00	5290	3527
	Others	888	0	0	0.00E+00	0	0
TOTAL:		--	11761226	10056183	8.19E+15	1698451	961377

Note:

1. The estimated number of population in the proposed development would only be 39,345. For conservative approach, the figure '50,000' was however used in the assessment.
2. Total employment includes both employees and students