

## **Attachment 1**

Extract of Revised Sewerage Impact  
Assessment

within the proposed composite development. The wastewater generated will be contributed by the residents and employees.

**Table: Sewage Flow Estimate**

	No. of persons	Unit Flow Factor (m <sup>3</sup> /person/day)	Estimated Dry Weather Flow	Catchment Inflow Factor <sup>[1]</sup>	Flow Rate (m <sup>3</sup> /day)	Contributing Population <sup>[2]</sup>	Peaking Factor <sup>[3]</sup>	Peak Flow (L/s)
Shop Employees	3	0.28 <sup>[4]</sup>	0.84	1.1	301.7	1,117.42	6	23.05
RCHE and/or RCHD Residents	380	0.19 <sup>[5]</sup>	72.2					
RCHE and/or RCHD employees	60	0.28 <sup>[6]</sup>	16.8					
Residents on 7/F to 26/F	683	0.27 <sup>[7]</sup>	184.44					

Remarks:

[1] Catchment Inflow Factor=1.1 (Kwai Chung) is based on EPD's GESF Table T-4.

[2] It is based on the equation from GESF: Contributing Population =  $\frac{\text{Calculated total average flow}}{0.27}$

[3] Peaking Factor=6 for population 1,000-5,000 (including stormwater allowance) as per EPD's GESF Table T-5

[4] Unit flow factor = 0.28 (Commercial Employee + J4) is based on EPD's GESF Table T-2

[5] Unit flow factor = 0.19 (Institutional and special class) is based on EPD's GESF Table T-1

[6] Unit flow factor = 0.28 (Commercial Employee + J11) is based on EPD's GESF Table T-2

[7] Unit flow factor = 0.27 (Private R2) is based on EPD's GESF Table T-1

## 5. Overall Sewer Capacity

The estimated cumulative peak discharge of all downstream sewerage generated from the proposed development with the concerned catchments account for no more than 35% of the hydraulic capacity of the concerned sewer (from manholes FMH4020964 to FMH4020951). No exceedance of hydraulic capacity for all cumulative peak discharge is anticipated. Detailed calculations of sewage generation and hydraulic capacity are provided in **Appendix 1**. All existing sewers have sufficient capacity and no upgrading is required to serve the proposed composite development.

**Table 1 Calculation for Sewage Generation Rate of the Proposed Development**

<b>1. Park Sun Redevelopment on G/F Shop</b>		
Total GFA	131	m <sup>2</sup>
Worker Density	2.1	worker/100m <sup>2</sup> - from CIFSUS (Table 8) - Worker Density (Retail Trade - Private Commercials)
Estimated Population	3	
Unit Flow Factor	0.28	m <sup>3</sup> /day/person - from GESF(Table T-2) - UFF for Commercial Flow and Student Flows (Commercial Employee and J4 Wholesale & Retail)
Estimated Dry Weather Flow	0.84	m <sup>3</sup> /day
<b>2. Park Sun Redevelopment on 1/F - 3/F RCHD and 4/F - 6/F RCHE</b>		
Nos. of Beds	380	the upper-end provision in the proposal
Nos. of Staff	60	As advised by the Applicant
Unit Flow Factor for the Residents	0.19	m <sup>3</sup> /day/person - from GESF(Table T-1) - UFF for Domestic Flows (Institutional and special class)
Unit Flow Factor for staff	0.28	m <sup>3</sup> /day/person - from GESF(Table T-2) - UFF for Commercial Flows and Student Flows (Commercial Employee and J11 Community, Social & Personal Services)
Estimated Dry Weather Flow	89.00	m <sup>3</sup> /day
<b>3. Park Sun Redevelopment on 7/F to 26/F Residential</b>		
Nos. of Flat Units	253	the upper-end provision in the proposal
Average Domestic Household Size	2.7	from 2024 Population Census
Total Estimated Population	683	
Unit Flow Factor	0.27	m <sup>3</sup> /day/person - from GESF(Table T-1) - UFF for Domestic Flow (Private R2, Planning for Future)
Estimated Dry Weather Flow	184.44	m <sup>3</sup> /day
<b>Total Flow from Proposed Development</b>		
Catchment Inflow Factor	1.1	Catchment Inflow Factor = 1.10 (Kwai Chung) from EPD's GESF Table T-4
Flow Rate	301.70	m <sup>3</sup> /day
Contributing Population	1117.42	0.27 from EPD's GESF
Peaking Factor	6	Peaking Factor=6 for population 1000 - 5000 (including stormwater allowance) from EPD's GESF Table T-5
Peak Flow	23.05	L/s