



# 銅鑼灣

# Causeway Bay

**Annex E**

**Replacement Pages of Sewerage Impact  
Assessment**

**TABLE B1**  
**Sewage Flow Estimation for Proposed Development**

(Based on EPD Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning)

**Design Assumption:**

Global Peaking Factor, P (Including Stormwater Allowance) as per Table T-5  
 Global Unit Flow Factors as per Tables T-2 and T-3  
 Catchment Inflow Factor for Wan Chai (PCIF = 1.0) as per Table T-4

Development Schedule		
Sewage Flow Estimation for Caroline Hill Road - South	Estimation	Remark
Proposed Development		
<b>(S) Subject Site</b>		
GFA (m <sup>2</sup> ) for Office use	85,300	
Worker Density (No. of Worker per 100m <sup>2</sup> )	5.5	
No. of Employee	4,692	
Unit flow factor (m <sup>3</sup> /person/day) - J6 Financial, Insurance, Real Estate & Business Services	0.08	
GFA (m <sup>2</sup> ) for F&B	10,000	
Worker Density (No. of Worker per 100m <sup>2</sup> )	3.5	
No. of Employee	350	
Unit flow factor (m <sup>3</sup> /person/day) - J10 Restaurant & Hotels	1.58	
GFA (m <sup>2</sup> ) for GIC	3,100	
Worker Density (No. of Worker per 100m <sup>2</sup> )	3.3	
No. of Employee	102	
Unit flow factor (m <sup>3</sup> /person/day) - J11 Community, Social & Personal Services	0.28	
Total ADWF, (m <sup>3</sup> /day)	956.96	
70% of Total ADWF, (m <sup>3</sup> /day)	669.9	
Total ADWF, (L/s)	11.08	
70% of Total ADWF, (L/s)	7.75	<b>New Development</b>
Catchment A		
<b>A1 Silverwood</b>		
Number of flats	81	
Population	219	
Unit flow factor (m <sup>3</sup> /person/day) - Residential R2	0.27	
ADWF, (m <sup>3</sup> /day)	59.05	
ADWF, (L/s)	0.68	<b>P<sub>CF</sub> = 1 included</b>
<b>A2 103 Caroline Hill Road (CHR)</b>		
Number of flats	8	
Population	22	
Unit flow factor (m <sup>3</sup> /person/day) - Residential R2	0.270	
ADWF, (m <sup>3</sup> /day)	5.83	
ADWF, (L/s)	0.07	<b>P<sub>CF</sub> = 1 included</b>
<b>A3 Caroline Garden</b>		
Number of flats	48	
Population	130	
Unit flow factor (m <sup>3</sup> /person/day) - Residential R2	0.270	
ADWF, (m <sup>3</sup> /day)	34.99	
ADWF, (L/s)	0.41	<b>P<sub>CF</sub> = 1 included</b>
Catchment B		
<b>B1 Bowling centre</b>		
GFA (m <sup>2</sup> )	5704	
Worker Density (No. of Worker per 100m <sup>2</sup> )	3.3	
No. of Employee	188	
Unit flow factor (m <sup>3</sup> /person/day) - J11 Community, Social & Personal Services	0.28	
ADWF, (m <sup>3</sup> /day)	52.71	
ADWF, (L/s)	0.61	<b>P<sub>CF</sub> = 1 included</b>
<b>B2 Sport Complex</b>		
GFA (m <sup>2</sup> )	8352	
Worker Density (No. of Worker per 100m <sup>2</sup> )	3.3	
No. of Employee	276	
Unit flow factor (m <sup>3</sup> /person/day) - J11 Community, Social & Personal Services	0.28	
ADWF, (m <sup>3</sup> /day)	77.17	
ADWF, (L/s)	0.89	<b>P<sub>CF</sub> = 1 included</b>
<b>B3 Sports Centre (50%)</b>		
GFA (m <sup>2</sup> )	6351	
Worker Density (No. of Worker per 100m <sup>2</sup> )	3.3	
No. of Employee	210	
Unit flow factor (m <sup>3</sup> /person/day) - J11 Community, Social & Personal Services	0.28	
ADWF, (m <sup>3</sup> /day)	29.34	
ADWF, (L/s)	0.34	<b>P<sub>CF</sub> = 1 included</b>
District Court		
<b>District court - DC tower (connected to FMH7009989)</b>		
ADWF, (m <sup>3</sup> /day)	20.72	According to recent SIA from development of District Court
ADWF, (L/s)	0.24	
<b>District court - FC tower (connected to FSH7003584)</b>		
ADWF, (m <sup>3</sup> /day)	313.00	According to recent SIA from development of District Court
ADWF, (L/s)	3.62	
Proposed Scenario Caroline Hill Road - South		
Total ADWF (m <sup>3</sup> /day)	1,242	
Total ADWF (L/s)	14.37	
Contributing Population	4,600	
Global Peaking Factor	6.00	
Total Peak Flow (L/s)	86.25	

14.37

Notes:  
 Employment density shall refer to Commercial and Industrial Floor Space Utilization Survey published by PlanD.  
 Office = 5.5 employee per 100m<sup>2</sup> of GFA  
 Retail = 3.5 employee per 100m<sup>2</sup> of GFA  
 Community, Social & Personal Services = 3.3 employee per 100m<sup>2</sup> of GFA

