

All Phases

Residential		Remark
Population (R2)	37800	
Unit Factor (m ³ /head/day)	0.27	For 'modern village' from Table T-1 (see Note 1)
Daily Flow (m ³ /day)	10206	
Retail		
Total GFA	30000	
GFA (Non F&B)	21000	
Employment No.	1050	Assume 1 employee for 20m ² GFA
Unit Factor (m ³ /head/day)	0.28	For 'commercial employee' and job type 'J4' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	294	
GFA (F&B)		
GFA (F&B)	9000	
Employment No.	450	Assume 1 employee for 20m ² GFA
Unit Factor (m ³ /head/day)	1.58	For 'commercial employee' and job type 'J10' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	711	
Total Retail Flows (m³/day)		
Total Retail Flows (m ³ /day)	1005	
Education		
No. of Kindergarten	4	
No. of Classrooms	24	
No. of Students	720	Assume 30 students in a class
No. of Staff	60	Assume 2.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2 (see Note 1)
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	33.6	
No. of Primary / Secondary School		
No. of Primary / Secondary School	3	
No. of Classroom	90	
No. of Students	3600	Assume 40 students in a class
No. of Staff	135	Assume 1.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2 (see Note 1)
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	154.8	
Clubhouse		
Employee No. (Non F&B)	1485	
Unit Factor (m ³ /head/day)	0.28	For 'commercial employee' and job type 'J11' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	415.8	
Employment No. (F&B)		
Employment No. (F&B)	165	
Unit Factor (m ³ /head/day)	1.58	For 'commercial employee' and job type 'J10' from Table T-2 (see Note 1)
Daily Flow (m ³ /day)	260.7	
Total Sewage Flow,ADWF (m³/day)		
Total Sewage Flow,ADWF (m ³ /day)	12076	
Peaking Factor		
Peaking Factor	3	
Peak Flow (L/s)		
Peak Flow (L/s)	419	

Note:

- (1) EPD's Report No. EPD/TP 1/05 Guidelines for Estimating Sewage Flows (GESF) for Sewerage Infrastructure Planning Version 1.0
- (2) Clubhouse will be provided in accordance with PNAP APP-104 Exclusion of Floor Areas for Recreational Use. Assumption on the number of employee has been made for the purpose of sewage estimation.

Sewage Flow Estimation Summary - Siu Ho Wan Depot Replanning Works and Siu Ho Wan Station

SHD Replanning Works (m ³ /day)	948	
Siu Ho Wan Station (m ³ /day)	281	
Total Sewage Flow (m ³ /day)	1229	

Note:

- (1) Sewage flow estimation for SHO and SHD Replanning Works extracted from Table 6.5 of the Railway EIA Report.

Phase 1

Residential		Remark
Population (R2)	9633	
Unit Factor (m ³ /head/day)	0.27	
Daily Flow (m ³ /day)	2601	
Retail		
Total GFA	30000	
GFA (Non F&B)	21000	
Employment No.	1050	Assume 1 employee for 20m ² GFA
Unit Factor (m ³ /head/day)	0.28	
Daily Flow (m ³ /day)	294	
GFA (F&B)		
GFA (F&B)	9000	
Employment No.	450	Assume 1 employee for 20m ² GFA
Unit Factor (m ³ /head/day)	1.58	
Daily Flow (m ³ /day)	711	
Total Retail Flows (m³/day)		
Total Retail Flows (m ³ /day)	1005	
Education		
No. of Kindergarten	1	
No. of Classrooms	6	
No. of Students	180	Assume 30 students in a class
No. of Staff	15	Assume 2.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	8.4	
Clubhouse		
Employee No. (Non F&B)	268	
Unit Factor (m ³ /head/day)	0.28	
Daily Flow (m ³ /day)	75.1	
Employment No. (F&B)		
Employment No. (F&B)	30	
Unit Factor (m ³ /head/day)	1.58	
Daily Flow (m ³ /day)	47.1	
Total ADWF (m³/day)		
Total ADWF (m ³ /day)	3736	

Phase 2

Residential		Remark
Population (R2)	8883	
Unit Factor (m ³ /head/day)	0.27	
Daily Flow (m ³ /day)	2398	
Education		
No. of Kindergarten	1	
No. of Classrooms	6	
No. of Students	180	Assume 30 students in a class
No. of Staff	15	Assume 2.5 staff per class
Unit Factor (m ³ /head/day)	0.04	
Daily Flow (m ³ /day)	7.8	
No. of Primary / Secondary School		
No. of Classroom	30	
No. of Students	1200	Assume 40 students in a class
No. of Staff	45	Assume 1.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	51.6	
Clubhouse		
Employee No. (Non F&B)	271	
Unit Factor (m ³ /head/day)	0.28	
Daily Flow (m ³ /day)	75.8	
Employment No. (F&B)		
Employment No. (F&B)	30	
Unit Factor (m ³ /head/day)	1.58	
Daily Flow (m ³ /day)	47.5	
Total ADWF (m³/day)	2582	

Phase 3

Residential		Remark
Population (R2)	9310	
Unit Factor (m ³ /head/day)	0.27	
Daily Flow (m ³ /day)	2514	
Education		
No. of Kindergarten	1	
No. of Classrooms	6	
No. of Students	180	Assume 30 students in a class
No. of Staff	15	Assume 2.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	8.4	
No. of Primary / Secondary School		
No. of Classroom	30	
No. of Students	1200	Assume 40 students in a class
No. of Staff	45	Assume 1.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	51.6	
Clubhouse		
Employee No. (Non F&B)	606	
Unit Factor (m ³ /head/day)	0.28	
Daily Flow (m ³ /day)	169.7	
Employment No. (F&B)		
Employment No. (F&B)	67	
Unit Factor (m ³ /head/day)	1.58	
Daily Flow (m ³ /day)	106.4	
Total ADWF (m³/day)	2850	

Phase 4

Residential		Remark
Population (R2)	9974	
Unit Factor (m ³ /head/day)	0.27	
Daily Flow (m ³ /day)	2693	
Education		
No. of Kindergarten	1	
No. of Classrooms	6	
No. of Students	180	Assume 30 students in a class
No. of Staff	15	Assume 2.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	8.4	
No. of Primary / Secondary School	1	
No. of Classroom	30	
No. of Students	1200	Assume 40 students in a class
No. of Staff	45	Assume 1.5 staff per class
Unit Factor for Students (m ³ /head/day)	0.04	For 'school student' from Table T-2
Unit Factor for Staff (m ³ /head/day)	0.08	For 'Commercial Employee' from Table T-2
Daily Flow (m ³ /day)	51.6	
Clubhouse		
Employee No. (Non F&B)	340	
Unit Factor (m ³ /head/day)	0.28	
Daily Flow (m ³ /day)	95.3	
Employment No. (F&B)	38	
Unit Factor (m ³ /head/day)	1.58	
Daily Flow (m ³ /day)	59.7	
Total ADWF (m³/day)	2908	