

Annex 7

Sewerage Impact Assessment

Issue No. : 4
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SEWERAGE IMPACT ASSESSMENT

FOR

**SECTION 16 PLANNING
APPLICATION FOR
PROPOSED MINOR
RELAXATION OF BUILDING
HEIGHT RESTRICTION FOR
PERMITTED 'RELIGIOUS
INSTITUTION' AND 'SOCIAL
WELFARE FACILITY' USES, AT
N.K.I.L. NO. 3635 RP AND
3762, 43 - 45 BERWICK
STREET, SHAM SHUI PO,
KOWLOON**

Prepared by

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Document Verification



Project Title Section 16 Planning Application for Proposed Minor Relaxation of Building Height Restriction for Permitted 'Religious Institution' and 'Social Welfare Facility' Uses, at N.K.I.L. No. 3635 RP and 3762, 43 - 45 Berwick Street, Sham Shui Po, Kowloon

Project No. 2076EA

Document Title Sewerage Impact Assessment

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Sewerage Impact Assessment for Section 16 Planning Application for Proposed Minor Relaxation of Building Height Restriction for Permitted 'Religious Institution' and 'Social Welfare Facility' Uses, at N.K.I.L. No. 3635 RP and 3762, 43 - 45 Berwick Street, Sham Shui Po, Kowloon

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1. Introduction

- 1.1.1. This Sewerage Impact Assessment ("SIA") Report is prepared in support of the Section 16 Planning Application for Proposed Minor Relaxation of Building Height Restriction for Permitted 'Religious Institution' and 'Social Welfare Facility' Uses (hereafter refer to as the "Proposed Redevelopment") at N.K.I.L. No. 3635 RP and 3762, 43 - 45 Berwick Street, Sham Shui Po, Kowloon (hereafter refer to as the "Subject Site").

2. Objectives

- 2.1.1. Main objectives of the study are to review the existing drainage facilities in the vicinity of the Proposed Redevelopment at the Subject Site, evaluate potential impacts based on the proposed sewerage drainage, recommend appropriate options for sewerage discharge, if necessary.

3. Site Description

- 3.1.1. The Subject Site is currently zoned "Government, Institution or Community" ("GIC") on the Approved Cheung Sha Wan Outline Zoning Plan ("OZP") No. S/K5/41. The surrounding areas are mainly zoned as "GIC", "Residential (Group A) 7" ("R(A)7"), "Open Space" ("O") and "Residential (Group A)" ("R(A)").
- 3.1.2. The Subject Site area is approximately 685.7 m². It is located at southwestern side of Berwick Street. **Figure 3-1** shows the location of the Subject Site.
- 3.1.3. The Subject Site is intended to be redeveloped into complex building with a total GFA of approx. 6,031.4 m². The Proposed Redevelopment has adopted a building height of twelve (12) storeys building (G/F – 11/F) comprising facilities including child care centre (CCC), special child care centre (SCCC), day care centre for the elderly (DE), neighbourhood elderly centre (NEC), integrated elderly rehabilitation service centre (IERSC), office, church facilities, and flat.
- 3.1.4. The Proposed Redevelopment is anticipated to complete and handover to client in year 2032.

4. Relevant Government Standards

- 4.1.1. Water quality in Hong Kong is legislated by the provisions of the *Water Pollution Control Ordinance (Cap 358), 1980 (WPCO)*. Territorial Water has been subdivided into ten Water Control Zones (WCZ) and four supplementary water control zones. A Technical Memorandum on Standards for Effluents discharged into Drainage and Sewerage Systems, Inland and Coastal Water (TMES) has been issued, which requires licensing of all discharges into all public sewers and drains. The water quality standards will have to be met during the operation stage.
- 4.1.2. Besides as stipulated in the Building (Standards of Sanitary Fitments, Plumbing, Drainage Works and Latrines) Regulations 41(1), 40(2), 41(1), 90 and recap in ProPECC PN 1/23, domestic sewage should be discharged to a foul water sewer and surface water should be discharged via rainwater pipes to stormwater drains during operation phase.

5. Description of Sewerage System

- 5.1.1. Drainage record plans were obtained from the drawing office of the Drainage Services Department ("DSD") and the Proposed Redevelopment is indicated on the drainage record plans as shown in **Figure 3-1**. Concerned sewerage network was identified for succeeding estimation of the potential sewerage impact to the downstream sewers associated with the Proposed Redevelopment.
- 5.1.2. The sewerage network of existing gravity sewers along Nam Cheong Street collects sewage generated from the Proposed Redevelopment and the surrounding catchment areas. The sewage discharged from the corresponding catchment areas is conveyed to Sham Shui Po No.1 & No.2 Sewage Screening Plant, then to Cheung Sha Wan Sewage Pumping Station and subsequently to Stonecutters Island Sewage Treatment Works. **Figure 3-1** illustrates an overview of corresponding catchment areas and existing sewerage network along Nam Cheong Street inside the SIA study area.
- 5.1.3. The sewerage generated from the Proposed Redevelopment will be conveyed to existing public manhole FMH4017041 via proposed new sewer pipe as shown in **Figure 3-1**.

5.2. Design Standard Guideline

- 5.2.1. This assessment has been prepared in accordance with the following documents:
- For the roughness of sewers, the recommended value in "Sewerage Manual Part 1" published by DSD has been adopted;
 - The recommended unit flow factors ("UFF") and peaking factors in "Guidelines for

Estimating Sewage Flows for Sewerage Infrastructure Planning Version 1.0 (Report No.: EPD/TP1/05" ("GESF") published by Environmental Protection Department ("EPD") have been adopted to estimate the sewage generated from the Proposed Redevelopment.

5.3. Design Parameters and Assumptions

5.3.1. Based on the above reference documents, the UFF for different types of population as shown in **Table 5-1** have been used in calculating the sewerage flow from the Proposed Redevelopment, upstream and downstream developments.

Table 5-1 Global Unit Flow Factor

| Category | Unit | UFF (m ³ /day) |
|---|----------|---------------------------|
| Domestic Flow^[1] | | |
| T1, Private Permanent Housing R1 | Person | 0.19 |
| T1, Private Permanent Housing R2 | Person | 0.27 |
| T1, Private Permanent Housing R3 | Person | 0.37 |
| Commercial Flow^[1] | | |
| J11, Community, Social & Personal Services | Employee | 0.28 |
| J10, Restaurants and Hotels | Employee | 1.58 |
| Recreational Ground Visitors ^[2] | | 0.032 |
| Church ^[3] | | 0.009 |
| Students | | 0.04 |

Notes:

[1] Category of UFFs are selected according to Table T-1 and Table T-2 of the GESF.

[2] The unit flow factor for visitors of recreational ground is made reference to Kai Tak Multi-purpose Sports Complex Environmental Impact Assessment Report (AEIAR-204/2017), 0.032 m³/person/d.

[3] The unit flow factor for visitors of community facility is made reference to "Church" in Table 3-4, Chapter 3 of Wastewater Engineering Treatment Resource Recovery by Metcalf & Eddy (5th Edition), 0.009 m³/person/d.

6. Evaluation of Sewage Flow Rate

6.1. Estimation of Sewage Flow from Proposed Redevelopment

6.1.1. The total estimated Average Dry Weather Flow ("ADWF") from the Proposed Redevelopment is estimated to be 32.26 m³/day. The sewage flow estimation for Proposed Redevelopment is summarized in **Table 6-1**. The detail calculation is presented in **Appendix 6-1**.

Table 6-1 Sewage Flow Estimation for The Proposed Redevelopment

| Type of Occupancy ^[1] | Population | | Category ^[2] | UFF (m ³ /day) | ADWF (m ³ /day) |
|----------------------------------|------------|----------|---|---------------------------|----------------------------|
| Residential | 6 | Person | T1, Domestic (private permanent housing R2) | 0.27 ^[3] | 1.62 |
| Employee | 40 | Employee | Community, Social & Personal Services | 0.28 | 11.20 |
| Student | 90 | Person | Students | 0.04 | 3.60 |
| Visitors | 1760 | Person | Community Facility Visitors | 0.009 ^[4] | 15.84 |
| Total (m³/day) | | | | | 32.26 |

Notes:

[1] Information provided by Project Team on 08 July 2025.

[2] UFFs for various occupancy types are adopted according to Table T-1 and Table T-2 of the GESF.

[3] The initial flat size assumptions are based on Hong Kong Planning Standards and Guidelines, Chapter 2, Table 8. The G.F.A of the Proposed Redevelopment is around 58-64m², Hong Kong & Kowloon (R2) is adopted.

[4] The unit flow factor for church's visitors is made reference to "Church" in Table 3-4, Chapter 3 of Wastewater Engineering Treatment Resource Recovery by Metcalf & Eddy (5th Edition), 0.009m³/person/d.

6.2. Estimation of Sewage Flow from Upstream Catchments

6.2.1. Different catchment areas are defined as shown in **Figure 6-1** to consider downstream sewage generation. Catchment A to Catchment E have been identified which consist of the public housing estates, private housing, commercial centers, educational institutions, etc.

6.2.2. For residential areas, residential population is estimated with reference to the following documents and given in **Appendix 6-2** and **Appendix 6-3**:

- Future population growth rate is referred to “*Projections of Population Distribution 2023-2031 – Table 5: Projected Population Change by District Council District between 2021 and 2031*”, published by Planning Department. The population growth rate of Kowloon recorded at 0.1% from 2023 to 2031 has been adopted.
- Residential density is referred to “2021 Population Census” issued by Census and Statistics Department. The average household sizes of 2.3, 2.4, 2.5 and 2.8 persons are deployed for residential areas in Sham Shui Po (F03) Nam Cheong North, (F04) Shek Kip Mei, (F23) Ha Pak Tin and (F22) Lung Ping & Sheung Pak Tin, respectively.

6.2.3. Based on information collected from desktop study, sewage flow from different catchments at the study area under future condition are calculated as given in **Appendix 6-3**.

6.3. Estimation of Peak Discharge

6.3.1. Catchment inflow factor (“ P_{cif} ”) caters for the net overall ingress of wastewater to the sewerage system. They are catchment-dependent and applicable to major sewerage facilities of a catchment.

6.3.2. As mentioned in **Section 5.1.2**, sewage discharged from concerned catchments is conveyed to the Stonecutters Island Sewage Treatment Works. In accordance with Table T-4 and Annex 1 of Appendix VII - Part 1 of the GESF, the P_{cif} of 1.3 is adopted for existing sewerage because concerned sewerage system is identified in North West Kowloon.

6.3.3. Revised average dry weather flow (“revised ADWF”) is determined by production of average dry weather flow and catchment inflow factor. Contributing population is then calculated by dividing the revised ADWF by 0.27. The calculated contributing population is finally used for selection of peaking factors.

6.3.4. Based on **Table 6-2** which is also presented in Table T-5 in GESF, the peaking factors for each sewer are chosen in the hydraulic calculation for peak flow estimation.

Table 6-2 Peaking Factors

| Population Range for Sewers ^{[1] [2]} | Peaking Factor (including storm water allowance) for facility with existing upstream sewerage | Peaking Factor (excluding storm water allowance) for facility with new upstream sewerage |
|--|---|--|
| < 1000 | 8 | 6 |
| 1000 - 5000 | 6 | 5 |
| 5000 - 10000 | 5 | 4 |
| 10000 - 50000 | 4 | 3 |
| > 50000 | Max (7.3 / N ^{0.15} , 2.4) | Max (6 / N ^{0.175} , 1.6) |

Notes:

[1] N is the contributing population in thousands.

[2] According to Section 12.1 of GESF,

Contributing Population = Calculated Total Average Flow (m³/day) ÷ 0.27 (m³/person/day)

6.4. Peak Discharge from Catchment Areas

6.4.1. Flow rates of peak discharge from the Proposed Redevelopment and other catchment areas are estimated in accordance with the DSD's "Sewerage Manual Part 1". Peak flows from different catchments at the study area under future condition are summarized in **Table 6-3** and detailed calculation is given in **Appendix 7-1**.

Table 6-3 Population and Sewage Flow Estimation under Future Condition

| Contributing Catchment Area | Sewer No. | | | | Catchment Inflow Factor [1] | Revised ADWF (m ³ /day) [2] | Contributing Population [3] | Peaking Factor [4] | Total Peak Discharge (m ³ /s) [5] |
|-------------------------------|-----------|------------|----|------------|-----------------------------|--|-----------------------------|--------------------|--|
| | ID | From | ID | To | | | | | |
| C+D+E | 1 | FMH4016713 | 2 | FGJ4000740 | 1.30 | 19590.31 | 72557 | 3.8 | 0.914 |
| Subject Site+A+B+C+D+E | 2 | FGJ4000740 | 3 | FMH4016714 | 1.30 | 20775.72 | 76947 | 3.8 | 0.966 |

Notes:

- [1] Reference from Table T-4 of Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning, Catchment inflow factor of North West Kowloon is adopted.
- [2] Revised ADWF (m³/day) = ADWF (m³/day) × Catchment Inflow Factor.
- [3] According to Section 12.1 of GESF, Contributing Population = Calculated Total Average Flow (m³/day) ÷ 0.27 (m³/person/day).
- [4] According to Table T-5 of GESF.
- [5] The calculation includes the swimming pool backwash flow generated from the upstream contributing catchments for a conservative assessment of peak discharge conditions.

7. Sewer Capability

7.1.1. The Colebrook White's equation is adopted for hydraulic analysis of the sewerage system. Various roughness coefficients, k_s , are adopted in accordance with Table 5 of DSD's "Sewerage Manual Part 1".

7.2. Sewerage System

7.2.1. Occupancy rate and capacity of the sewerage system are tabulated in **Appendix 7-1**. Calculation results summarized in **Table 7-1** showed the proposed sewer have sufficient capacity to cater for the sewage generation from the Proposed Redevelopment in the future.

Table 7-1 Occupancy Rate of the Sewerage System

| Location of Sewer | Contributing Catchment | Total Peak Discharge (m ³ /s) | Maximum Capacity (m ³ /s) | Occupancy Rate (%) [1] | Project Peak Flow Occupancy (%) |
|----------------------------------|-------------------------------|--|--------------------------------------|------------------------|---------------------------------|
| "1" FMH4016713 to "2" FGJ4000740 | C+D+E | 0.906 | 1.158 | 79 | 0.2 |
| "2" FGJ4000740 to "3" FMH4016714 | Subject Site+A+B+C+D+E | 0.959 | 1.158 | 83 | 0.2 |

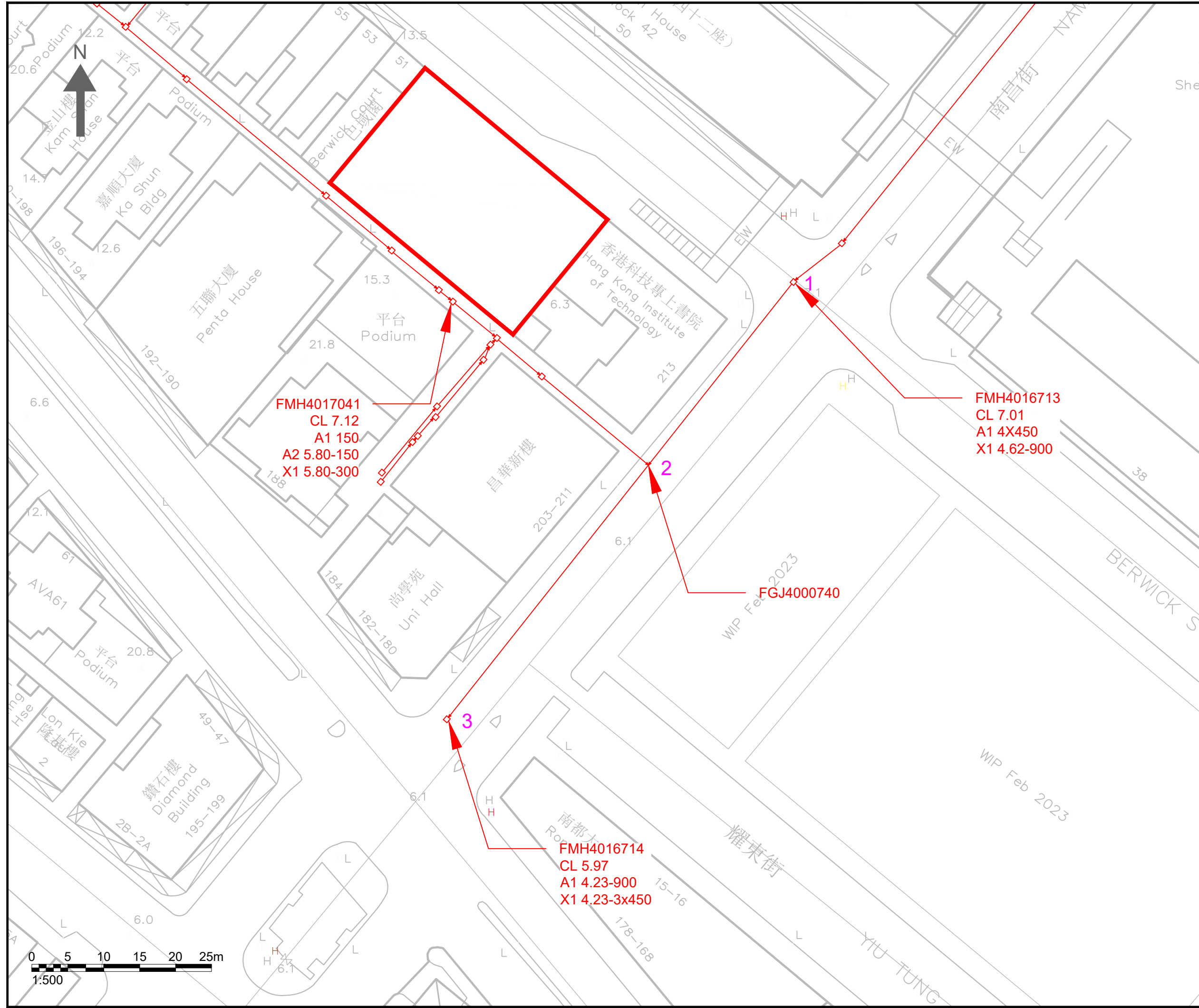
Notes:

- [1] Occupancy Rate = Peak Discharge (m³/s) ÷ Maximum Capacity of Sewer (m³/s)

- 7.2.2. Owing to sufficient capacity to cater for the additional sewage flow generated from the Proposed Redevelopment, no adverse impact to public sewerage system associated with the Proposed Redevelopment is anticipated.

8. Conclusions

- 8.1.1. According to the hydraulic calculation results, the public sewerage system will have adequate capacity to cater for the increased sewage generation associated with the Proposed Redevelopment. No adverse impact to public sewerage system associated with the Proposed Redevelopment is anticipated



NOTES :

- Subject Site
- Existing Sewerage System

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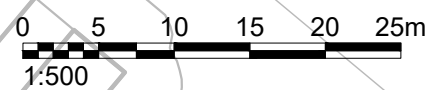
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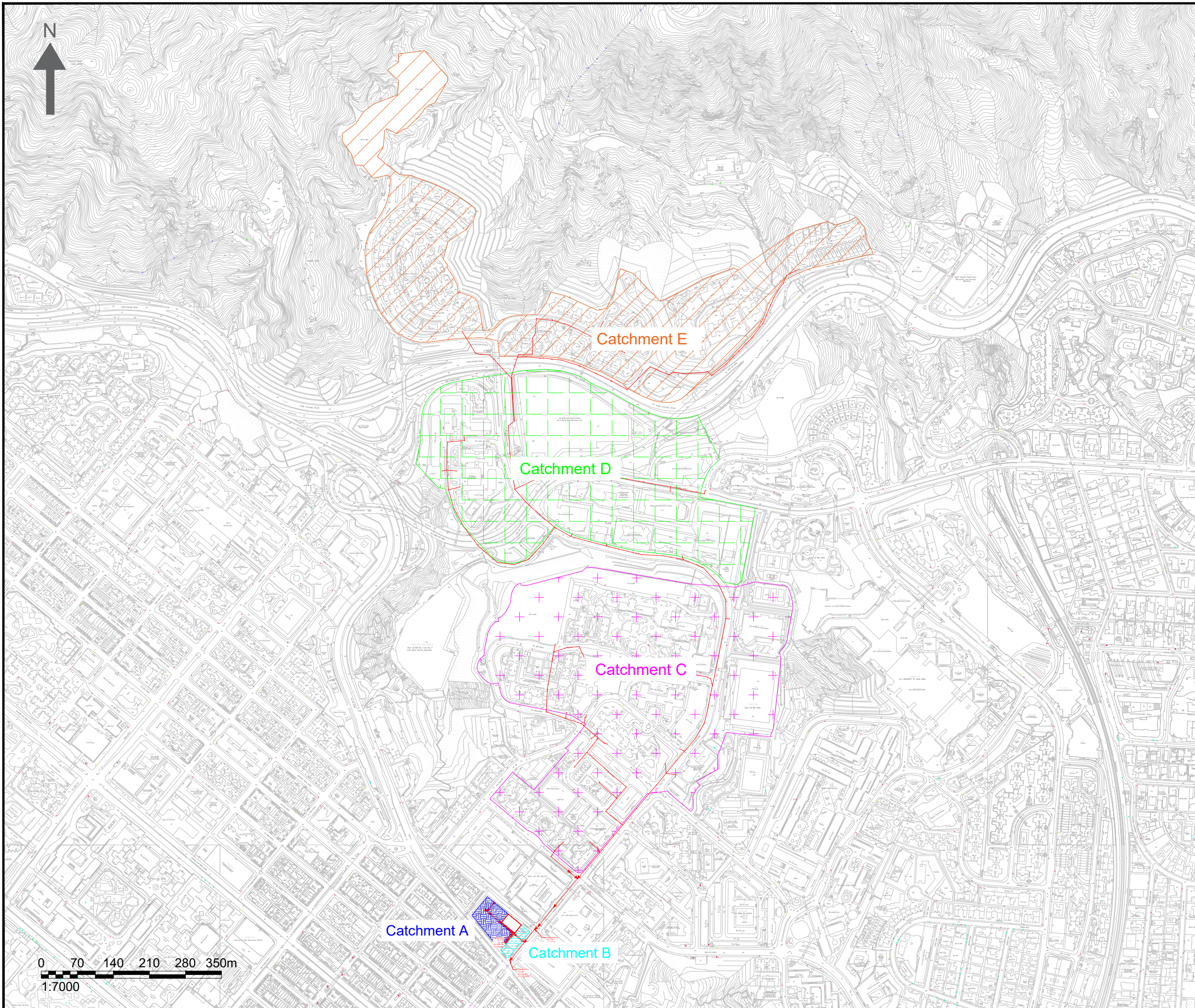
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Subject Site Location and Existing Sewerage System

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NOTES :

-  SUBJECT SITE
-  EXISTING SEWERAGE DRAINAGE SYSTEM
-  CATCHMENT A
-  CATCHMENT B
-  CATCHMENT C
-  CATCHMENT D
-  CATCHMENT E

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Catchment Areas

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Appendix 6-1

Estimation of Sewerage Flow from Proposed Redevelopment

Appendix 6-1 : Estimation of Sewage Flow from the Proposed Redevelopment

Proposed Redevelopment

| Type of Occupancy[1] | No. of Occupancy | Unit Flow Factor[2] | | Total Average Sewage Discharge (m ³ /day) |
|----------------------|------------------|---|---------------------|--|
| | | Category | m ³ /day | |
| Residential | 6 | T1, Domestic (private permanent housing R2) | 0.27 | 1.62 |
| Employee | 40 | Community, Social & Personal Services | 0.28 | 11.20 |
| Student | 90 | Students | 0.04 | 3.60 |
| Visitors | 1760 | Church[3] | 0.009 | 15.84 |
| Total | 46 | | 0.015 | 32.26 |

(m³/s)

Note:

[1] The information is provided by Project Team on 08 July 2025

[2] The unit flow factor (UFF) is made reference to "Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning (Version 1.0)", published by EPD.

[3] The unit flow factor for visitors is made reference to "Church" in Table 3-4, Chapter 3 of Wastewater Engineering Treatment Resource Recovery by Metcalf & Eddy (5th Edition), 0.009 m³/person/d.

Residential

| | | |
|---|-------|---|
| No. of Households | 2 | The information is provided by Project Team on 08 July 2025 |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 5 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |

| | |
|----------------------------|---|
| Est. Pop. [persons] (2032) | 6 |
|----------------------------|---|

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|---|--|
| R2 (110m ² per flat) | 2 | GFA of flat is 58-64m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|---|--|

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Appendix 6-2

Estimation of Sewerage Flow from Each Catchment Area

Appendix 6-2: Estimation of Sewage Flow from Each Catchment Area

Table 1- Estimation of Sewage Flow from Developments in Each Catchment

| Catchment | No. | Population Description | Type of Occupancy | Estimated Population | UFF Type | | Total Average Sewage Discharge (m ³ /day) |
|-----------|---|---|-------------------|---|---|---------------------|--|
| | | | | | Category | m ³ /day | |
| A | A1 | Silver River Mansion | Residential | 61 | T1, Domestic (private permanent housing R2) | 0.270 | 16.470 |
| | | | Employee | 24 | Restaurants & Hotels | 1.580 | 37.920 |
| | A2 | Pei Ho Street 138 | Residential | 24 | T1, Domestic (private permanent housing R2) | 0.270 | 6.480 |
| | | | Employee | 5 | Wholesale & Retail | 0.280 | 1.400 |
| | A3 | Delight Court | Residential | 47 | T1, Domestic (private permanent housing R3) | 0.370 | 17.390 |
| | | | Employee | 25 | Wholesale & Retail | 0.280 | 7.000 |
| | A4 | Kam Shan House | Residential | 77 | T1, Domestic (private permanent housing R2) | 0.270 | 20.790 |
| | | | Employee | 24 | Wholesale & Retail | 0.280 | 6.720 |
| | A5 | Ka Shun Building | Residential | 100 | T1, Domestic (private permanent housing R2) | 0.270 | 27.000 |
| | | | Employee | 30 | Wholesale & Retail | 0.280 | 8.400 |
| | A6 | Penta House | Residential | 245 | T1, Domestic (private permanent housing R2) | 0.270 | 66.150 |
| | | | Employee | 85 | Restaurants & Hotels | 1.580 | 134.300 |
| | A7 | High Point | Residential | 321 | T1, Domestic (private permanent housing R2) | 0.270 | 86.670 |
| | | | Employee | 100 | Restaurants & Hotels | 1.580 | 158.000 |
| | A8 | Berwick Mansion | Residential | 27 | T1, Domestic (private permanent housing R2) | 0.270 | 7.290 |
| | | | Employee | 10 | Wholesale & Retail | 0.280 | 2.800 |
| | A9 | Berwick Street 59 | Residential | 18 | T1, Domestic (private permanent housing R2) | 0.270 | 4.860 |
| | | | Employee | 5 | Wholesale & Retail | 0.280 | 1.400 |
| A10 | Berwick Street 57 | Residential | 18 | T1, Domestic (private permanent housing R2) | 0.270 | 4.860 | |
| | | Employee | 5 | Wholesale & Retail | 0.280 | 1.400 | |
| A11 | Berwick Street 55 | Residential | 18 | T1, Domestic (private permanent housing R2) | 0.270 | 4.860 | |
| | | Employee | 5 | Wholesale & Retail | 0.280 | 1.400 | |
| A12 | Berwick Street 53 | Residential | 13 | T1, Domestic (private permanent housing R2) | 0.270 | 3.510 | |
| | | Employee | 6 | Restaurants & Hotels | 1.580 | 9.480 | |
| A13 | Berwick Court | Residential | 22 | T1, Domestic (private permanent housing R2) | 0.270 | 5.940 | |
| | | Employee | 4 | Wholesale & Retail | 0.280 | 1.120 | |
| B | B1 | Tai Po Road 184 | Residential | 13 | T1, Domestic (private permanent housing R2) | 0.270 | 3.510 |
| | | | Employee | 4 | Restaurants & Hotels | 1.580 | 6.320 |
| | B2 | Cheong Wah Building | Residential | 150 | T1, Domestic (private permanent housing R2) | 0.270 | 40.500 |
| | | | Employee | 78 | Restaurants & Hotels | 1.580 | 123.240 |
| | B3 | Hong Kong Institute of Technology | Employee | 47 | Community, Social & Personal Services | 0.280 | 13.160 |
| Students | | | 651 | Students | 0.040 | 26.040 | |
| B4 | Uni Hall | Residential | 138 | T1, Domestic (private permanent housing R2) | 0.270 | 37.260 | |
| C | C1 | Shek Kip Mei Park Sports Centre | Visitors | 45 | Recreational Ground Visitors | 0.032 | 1.440 |
| | C2 | Shek Kip Mei Park (Phase III) | Visitors | 1440 | Recreational Ground Visitors | 0.032 | 46.080 |
| | C3 | The H.K. Sze Yap Commercial & Industrial Association Wong Tai Shan Memorial College | Employee | 58 | Community, Social & Personal Services | 0.280 | 16.240 |
| | | | Students | 735 | Students | 0.040 | 29.400 |
| | C4 | The Hong Kong Jockey Club Centre for the Blind | Employee | 251 | Community, Social & Personal Services | 0.280 | 70.280 |
| | C5 | The Hong Kong Society for the Blind Headquarters - Jockey Club Multi-Service Centre for the Blind | Employee | 185 | Community, Social & Personal Services | 0.280 | 51.800 |
| | C6 | Telephone Exchange | Employee | 169 | Community, Social & Personal Services | 0.280 | 47.320 |
| | C7 | Po Tin Building | Residential | 165 | T1, Domestic (private permanent housing R2) | 0.270 | 44.550 |
| | | | Employee | 40 | Wholesale & Retail | 0.280 | 11.200 |
| | C8 | Pak Yuk House | Residential | 215 | T1, Domestic (private permanent housing R2) | 0.270 | 58.050 |
| | | | Employee | 69 | Restaurants & Hotels | 1.580 | 109.020 |
| | C9 | Tin Fung House | Residential | 215 | T1, Domestic (private permanent housing R2) | 0.270 | 58.050 |
| | | | Employee | 69 | Restaurants & Hotels | 1.580 | 109.020 |
| | C10 | Fook Tin Building | Residential | 518 | T1, Domestic (private permanent housing R2) | 0.270 | 139.860 |
| | | | Employee | 67 | Restaurants & Hotels | 1.580 | 105.860 |
| | C11 | Kam Yuck Building | Residential | 450 | T1, Domestic (private permanent housing R2) | 0.270 | 121.500 |
| Employee | | | 92 | Restaurants & Hotels | 1.580 | 145.360 | |
| C12 | Nam Cheong Commercial Building | Residential | 318 | T1, Domestic (private permanent housing R2) | 0.270 | 85.860 | |
| | | Employee | 127 | Wholesale & Retail | 0.280 | 35.560 | |
| C13 | Wai Chi Street Playground | Visitors | 44 | Recreational Ground Visitors | 0.032 | 1.408 | |
| C14 | Wai Kiu College | Employee | 48 | Community, Social & Personal Services | 0.280 | 13.440 | |
| | | Students | 738 | Students | 0.040 | 29.520 | |
| C15 | The ELCHK Faith Lutheran School (Second Campus) | Employee | 25 | Community, Social & Personal Services | 0.280 | 7.000 | |
| | | Students | 347 | Students | 0.040 | 13.880 | |
| C16 | the School Premises Maintenance Section of Education Bureau | Employee | 106 | Community, Social & Personal Services | 0.280 | 29.680 | |

| Catchment | No. | Population Description | Type of Occupancy | Estimated Population | UFF Type | | Total Average Sewage Discharge (m ³ /day) |
|-----------|---|---|-------------------------|---|---|---------------------------------------|--|
| | | | | | Category | m ³ /day | |
| C | C17 | Pak Wan Street Driving Test Centre | Employee | 4 | Community, Social & Personal Services | 0.280 | 1.120 |
| | C18 | Shek Kip Mei Estate Phase 5 | Residential | 4980 | T1, Domestic (private permanent housing R2) | 0.270 | 1344.600 |
| | C19 | WIP - Pak Tin Estate Redevelopment Phases 7, 8, 10 and 11 | Residential | 10197 | T1, Domestic (private permanent housing R1) | 0.190 | 1937.430 |
| | | | Employee | 249 | Wholesale & Retail | 0.280 | 69.720 |
| | | | Employee | 1647 | Community, Social & Personal Services | 0.280 | 461.160 |
| | C20 | WIP - Pak Tin Estate Redevelopment Phases 13 | Residential | 7423 | T1, Domestic (private permanent housing R1) | 0.190 | 1410.370 |
| | C21 | WIP - Pak Tin Estate Redevelopment Phase 12 | Residential | 5908 | T1, Domestic (private permanent housing R1) | 0.190 | 1122.520 |
| | C22 | Pak Tin Estate - Tsui Tin House | Residential | 1183 | T1, Domestic (private permanent housing R2) | 0.270 | 319.410 |
| | | | Employee | 49 | Community, Social & Personal Services | 0.280 | 13.720 |
| | C23 | Pak Tin Estate - Yue Tin House | Residential | 1183 | T1, Domestic (private permanent housing R2) | 0.270 | 319.410 |
| | | | Employee | 40 | Community, Social & Personal Services | 0.280 | 11.200 |
| | C24 | Pak Tin Estate - Yun Tin House | Residential | 1183 | T1, Domestic (private permanent housing R2) | 0.270 | 319.410 |
| | C25 | Pak Tin Estate - Fu Tin House | Residential | 1183 | T1, Domestic (private permanent housing R2) | 0.270 | 319.410 |
| | C26 | Pak Tin Estate - Chak Tin House | Residential | 1183 | T1, Domestic (private permanent housing R2) | 0.270 | 319.410 |
| | | | Employee | 37 | Community, Social & Personal Services | 0.280 | 10.360 |
| | C27 | Pak Tin Community Complex | Employee | 197 | Community, Social & Personal Services | 0.280 | 55.160 |
| | D | D1 | C.M.A. Secondary School | Employee | 103 | Community, Social & Personal Services | 0.280 |
| Students | | | | 676 | Students | 0.040 | 27.040 |
| D2 | | T.W.G.Hs Chang Ming Thien College | Employee | 60 | Community, Social & Personal Services | 0.280 | 16.800 |
| | | | Students | 701 | Students | 0.040 | 28.040 |
| D3 | | New Life Psychiatric Rehabilitation Association | Employee | 160 | Community, Social & Personal Services | 0.280 | 44.800 |
| D4 | | HKSKH Li Ka Shing Care and Attention Home for the Elderly | Employee | 242 | Community, Social & Personal Services | 0.280 | 67.760 |
| D5 | | Shek Kip Mei Fire Station | Employee | 323 | Community, Social & Personal Services | 0.280 | 90.440 |
| D6 | | Public Health Laboratory Centre | Employee | 1815 | Community, Social & Personal Services | 0.280 | 508.200 |
| D7 | | The Mental Health Association of Hong Kong Cornwell School | Employee | 69 | Community, Social & Personal Services | 0.280 | 19.320 |
| | | | Students | 112 | Students | 0.040 | 4.480 |
| D8 | | Society of Boys' Centres Chak Yan Centre | Employee | 56 | Community, Social & Personal Services | 0.280 | 15.680 |
| | | | Students | 252 | Students | 0.040 | 10.080 |
| D9 | | Run Run Shaw Creative Media Centre (City University of Hong Kong) | Employee | 1386 | Community, Social & Personal Services | 0.280 | 388.080 |
| D10 | | Shek Kip Mei Service Reservoir Playground | Visitors | 44 | Recreational Ground Visitors | 0.032 | 1.408 |
| D11 | | WIP - Public Housing Chak On Road South | Residential | 1413 | T1, Domestic (private permanent housing R1) | 0.190 | 268.470 |
| D12 | | Chak On Estate Market | Employee | 33 | Community, Social & Personal Services | 0.280 | 9.240 |
| D13 | | Chak On Estate | Residential | 5086 | T1, Domestic (private permanent housing R1) | 0.190 | 966.340 |
| D14 | Chak On Estate - Nam Cheong Street Rest Garden | Visitors | 10 | Recreational Ground Visitors | 0.032 | 0.320 | |
| D15 | City University of Hong Kong Chak On Centre | Employee | 33 | Community, Social & Personal Services | 0.280 | 9.240 | |
| D16 | Hong Kong Baptist Mr. & Mrs. Au Shue Hung Rehabilitation and Health Care Home | Employee | 181 | Community, Social & Personal Services | 0.280 | 50.680 | |
| D17 | Student Residence City University of Hong Kong Hall 11 | Residential | 303 | T1, Domestic (private permanent housing R2) | 0.270 | 81.810 | |
| E | E1 | Dynasty Height Skylodge | Residential | 685 | T1, Domestic (private permanent housing R3) | 0.370 | 253.450 |
| | E2 | Dynasty Height Dynasty Villa | Residential | 244 | T1, Domestic (private permanent housing R3) | 0.370 | 90.280 |
| | E3 | Dynasty Height Tropicana | Residential | 840 | T1, Domestic (private permanent housing R3) | 0.370 | 310.800 |
| | E4 | Beacon Heights | Residential | 1815 | T1, Domestic (private permanent housing R3) | 0.370 | 671.550 |
| | E5 | Mont Verra | Residential | 1815 | T1, Domestic (private permanent housing R3) | 0.370 | 671.550 |
| | E6 | Mont Rouge | Residential | 1815 | T1, Domestic (private permanent housing R3) | 0.370 | 671.550 |
| | E7 | WIP - Beacon Peak Phase 1 | Residential | 939 | T1, Domestic (private permanent housing R3) | 0.370 | 347.430 |

Table 2- Estimation of Swimming Pool Backwash in Each Catchment

| Catchment | No. | Population Description | Peak Discharge from Swimming pool backwash (m ³ /s) |
|-----------|-----|--------------------------|--|
| E | E3 | Dynasty Height Tropicana | 0.04304 |
| | E4 | Beacon Heights | 0.00903 |

Project No.: 2076EA

Sewerage Impact Assessment for Section 16 Planning Application for Proposed Minor Relaxation of Building Height Restriction for Permitted 'Religious Institution' and 'Social Welfare Facility' Uses, at N.K.I.L. No. 3635 RP and 3762, 43 - 45 Berwick Street, Sham Shui Po, Kowloon

Appendix 6-3

Population Estimation for Catchment Area

Population Estimation for Catchment Area

Appendix 6-3. Population Estimation

| | |
|----------------|------|
| Operation Year | 2032 |
| By Census Year | 2023 |

Catchment A

| A1 Silver River Mansion | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 26 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 60 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 61 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 26 | GFA of flat is 29-62m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 226.44 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 453 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 24 | |
| A2 Pei Ho Street 138 | | |
| <u>Residential</u> | | |
| No. of Households | 10 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 23 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 24 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 10 | GFA of flat is 25-35m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 114.81 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 115 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 5 | |

| A3 Delight Court | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 20 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 46 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 47 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 20 | GFA of flat is 35-115m ² . Adopting R3 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m ²) | 352.38 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m ²) | 705 | |
| Worker Density (per 100m ²) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 25 | |
| A4 Kam Shan House | | |
| <u>Residential</u> | | |
| No. of Households | 33 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 76 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 77 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 33 | GFA of flat is 33-63m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m ²) | 329.90 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m ²) | 660 | |
| Worker Density (per 100m ²) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 24 | |

| A5 Ka Shun Building | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 43 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 99 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 100 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 43 | GFA of flat is 20-37m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 422.76 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 846 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 30 | |
| A6 Penta House | | |
| <u>Residential</u> | | |
| No. of Households | 105 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 242 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 245 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 105 | GFA of flat is 11-69m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 823.76 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1648 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 85 | |

| A7 High Point | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 138 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 318 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 321 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 138 | GFA of flat is 23-58m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 648.01 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 3 | Reference to Google Map |
| Total Floor Area (m2) | 1944 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 100 | |
| A8 Berwick Mansion | | |
| <u>Residential</u> | | |
| No. of Households | 11 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 26 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 27 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 11 | GFA of flat is 36m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 129.99 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 260 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 10 | |

| A9 Berwick Street 59 | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 7 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 17 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 18 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 7 | GFA of flat is 91m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 125.65 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 126 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 5 | |
| A10 Berwick Street 57 | | |
| <u>Residential</u> | | |
| No. of Households | 7 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 17 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 18 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 7 | GFA of flat is 91m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 127.74 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 128 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 5 | |

A11 Berwick Street 55

Residential

| | | |
|---|-------|---|
| No. of Households | 7 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 17 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 18 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|---|--|
| R2 (110m ² per flat) | 7 | GFA of flat is 12-86m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|---|--|

Commercial

| | | |
|---|--------|---|
| Total Area (m ²) | 115.82 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m ²) | 116 | |
| Worker Density (per 100m ²) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 5 | |

A12 Berwick Street 53

Residential

| | | |
|---|-------|---|
| No. of Households | 5 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 12 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 13 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|---|--|
| R2 (110m ² per flat) | 5 | GFA of flat is 82-86m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|---|--|

Commercial

| | | |
|---|--------|--|
| Total Area (m ²) | 115.30 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m ²) | 115 | |
| Worker Density (per 100m ²) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 6 | |

A13 Berwick Court**Residential**

| | | |
|---|-------|---|
| No. of Households | 9 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 21 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 22 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|---|--|
| R2 (110m ² per flat) | 9 | GFA of flat is 31-32m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|---|--|

Commercial

| | | |
|----------------------------|--------|---|
| Total Area (m2) | 113.24 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 113 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 4 | |

Catchment B**B1 Tai Po Road 184****Residential**

| | | |
|---|-------|---|
| No. of Households | 5 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 12 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 13 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|---|--|
| R2 (110m ² per flat) | 5 | GFA of flat is 30-43m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|---|--|

Commercial

| | | |
|----------------------------|-------|--|
| Total Area (m2) | 72.30 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 72 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 4 | |

| B2 Cheong Wah Building | | |
|---|--------|---|
| Residential | | |
| No. of Households | 64 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 148 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 150 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 64 | GFA of flat is 35-47m ² . Adopting R2 to represent a worst case scenario. |
| Commercial | | |
| Total Area (m ²) | 507.99 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 3 | Reference to Google Map |
| Total Floor Area (m ²) | 1524 | |
| Worker Density (per 100m ²) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 78 | |
| B3 Hong Kong Institute of Technology | | |
| Teaching Staff Population | 47 | https://www.schooland.hk/hi/hkit |
| Student Population | 651 | https://www.schooland.hk/hi/hkit |
| B4 Uni Hall | | |
| No. of Households | 59 | https://www.unihall.com.hk/qb/flat-types-3/ https://www.collegesidekick.com/study-docs/16561754 |
| Average Household Size (2021) in Sam Shui Po (F03) Nam Cheong North | 2.3 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 136 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 138 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 59 | GFA of flat is 24-91m ² . Adopting R2 to represent a worst case scenario. |
| Catchment C | | |
| C1 Shek Kip Mei Park Sports Centre | | |
| Visitor | 45 | https://www.lcsd.gov.hk/clpss/en/webApp/Facility/Details.do?ftid=0&fclid=4&did=9 |
| C2 Shek Kip Mei Park (Phase III) | | |
| Visitor | 1440 | https://www.lcsd.gov.hk/clpss/en/webApp/Facility/Details.do?ftid=4&fclid=7&did=9 |
| C3 The H.K. Sze Yap Commercial & Industrial Association Wong Tai Shan Memorial College | | |
| Teaching Staff Population | 58 | https://wtsmc.edu.hk/wp-content/uploads/2023/11/2022-2023_School-Report.pdf |
| Student Population | 735 | https://wtsmc.edu.hk/wp-content/uploads/2023/11/2022-2023_School-Report.pdf |

| C4 The Hong Kong Jockey Club Centre for the Blind | | |
|---|---------|--|
| Total Area (m2) | 842.50 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 9 | Refer to google map for our reference |
| Total Floor Area (m2) | 7583 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a eye care & low vision services, rehabilitation and vocational training centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 251 | |
| C5 The Hong Kong Society for the Blind Headquarters - Jockey Club Multi-Service Centre for the Blind | | |
| Total Area (m2) | 697.60 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 8 | Refer to google map for our reference |
| Total Floor Area (m2) | 5581 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a eye care & low vision services, rehabilitation and vocational training centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 185 | |
| C6 Telephone Exchange | | |
| Total Area (m2) | 1021.53 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 5 | Refer to google map for our reference |
| Total Floor Area (m2) | 5108 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a eye care & low vision services, rehabilitation and vocational training centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 169 | |
| C7 Po Tin Building | | |
| <u>Residential</u> | | |
| No. of Households | 65 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 163 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. (https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html) |
| Est. Pop. [persons] (2032) | 165 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 65 | GFA of flat is 17-30m2. Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 559.31 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1119 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusR_eport.pdf) |
| Total Pop. | 40 | |

| C8 Pak Yuk House | | |
|---|--------|---|
| <u>Residential</u> | | |
| No. of Households | 85 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 213 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 215 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 85 | GFA of flat is 23-34m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 675.37 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1351 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 69 | |
| C9 Tin Fung House | | |
| <u>Residential</u> | | |
| No. of Households | 85 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 213 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 215 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 85 | GFA of flat is 23-34m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m2) | 674.17 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1348 | |
| Worker Density (per 100m2) | 5.1 | The development consists of restaurant. With reference to CIFSUS, the worker density for restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 69 | |

C10 Fook Tin Building

Residential

| | | |
|---|-------|---|
| No. of Households | 205 | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 513 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |

Est. Pop. [persons] (2032) 518

Flat size assumption (Hong Kong & Kowloon)R2 (110m² per flat) 205 GFA of flat is 23-24m². Adopting R2 to represent a worst case scenario.**Commercial**

| | | |
|----------------------------|--------|--|
| Total Area (m2) | 651.90 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1304 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |

Total Pop. 67

C11 Kam Yuck Building

Residential

| | | |
|---|-------|---|
| No. of Households | 178 | https://hk.centanet.com/estate/en/Kam%20Yuck%20Building/2-UDCQFRFHRQ |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 445 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |

Est. Pop. [persons] (2032) 450

Flat size assumption (Hong Kong & Kowloon)R2 (110m² per flat) 178 GFA of flat is 18-39m². Adopting R2 to represent a worst case scenario.**Commercial**

| | | |
|----------------------------|--------|--|
| Total Area (m2) | 896.25 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 1793 | |
| Worker Density (per 100m2) | 5.1 | The development consists of Restaurant. With reference to CIFSUS, the worker density for Restaurant is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |

Total Pop. 92

| C12 Nam Cheong Commercial Building | | |
|--|---------|---|
| Residential | | |
| No. of Households | 126 | https://hk.centanet.com/estate/en/Kam%20Yuck%20Building/2-UDCQFRFHRQ |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 315 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 318 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 126 | GFA of flat is 32-46m ² . Adopting R2 to represent a worst case scenario. |
| Commercial | | |
| Total Area (m2) | 1801.15 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 2 | Reference to Google Map |
| Total Floor Area (m2) | 3602 | |
| Worker Density (per 100m2) | 3.5 | The development consists of Retail Shop. With reference to CIFSUS, the worker density for Retail Trade is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 127 | |
| C13 Wai Chi Street Playground | | |
| Visitor | 44 | https://www.lcsd.gov.hk/clpss/en/webApp/Facility/Details.do?ftid=3&fcid=8&did=9 |
| C14 Wai Kiu College | | |
| Teaching Staff Population | 48 | http://www.wkc.edu.hk/content/report-2223.pdf |
| Student Population | 738 | http://www.wkc.edu.hk/w1/waikiu_202223.pdf |
| C15 The ELCHK Faith Lutheran School (Second Campus) | | |
| Teaching Staff Population | 25 | https://www.fl.edu.hk/wp-content/uploads/2023/10/2022-2023%E5%AD%B8%E6%A0%A1%E5%91%A8%E5%B9%B4%E5%A0%B1%E5%91%8A%E6%A0%A1%E7%B6%B2.pdf |
| Student Population | 347 | https://www.fl.edu.hk/wp-content/uploads/2023/10/2022-2023%E5%AD%B8%E6%A0%A1%E5%91%A8%E5%B9%B4%E5%A0%B1%E5%91%8A%E6%A0%A1%E7%B6%B2.pdf |
| C16 the School Premises Maintenance Section of Education Bureau | | |
| Total Area (m2) | 800.75 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 4 | Refer to google map for our reference |
| Total Floor Area (m2) | 3203 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Service Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 106 | |
| C17 Pak Wan Street Driving Test Centre | | |
| Total Area (m2) | 110.53 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Refer to google map for our reference |
| Total Floor Area (m2) | 111 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Driving test centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 4 | |

C18 Shek Kip Mei Estate Phase 5

Residential

| | | |
|---|-------|---|
| No. of Households | | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400537&dist=10 |
| Mei Yick House | 514 | |
| Mei Yin House | 514 | |
| Mei Sang House | 514 | |
| Mei Shing House | 514 | |
| Average Household Size (2021) in Sam Shui Po (F04) Shek Kip Mei | 2.4 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 4935 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 4980 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|-----|--|
| R2 (110m ² per flat) | 514 | GFA of flat is 14-56m ² . Adopting R2 to represent a worst case scenario. |
|---------------------------------|-----|--|

C19 WIP - Pak Tin Estate Redevelopment Phases 7, 8, 10 and 11

Residential

| | | |
|---|-------|---|
| No. of Households | | https://www.pland.gov.hk/file/resources/approved_pb/hd_pb/pdf/Pak_Tin_Estate_(Redevelopment_Phases_7810_11_and_13).pdf |
| Phase 7&8 | 2030 | |
| Phase 10 | 924 | |
| Phase 11 | 1088 | |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 10105 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 10197 | |

Flat size assumption (Hong Kong & Kowloon)

| | | |
|--------------------------------|------|---|
| R1 (50m ² per flat) | 4042 | GFA of flat is approximately 49m ² . Adopting R1 to represent a worst case scenario. |
|--------------------------------|------|---|

Commercial

| | | |
|---|------|---|
| Total Floor Area (m ²) | 7100 | https://www.pland.gov.hk/file/resources/approved_pb/hd_pb/pdf/Pak_Tin_Estate_(Redevelopment_Phases_7810_11_and_13).pdf |
| Worker Density (per 100m ²) | 3.5 | The development consists of retail stores. With reference to CIFSUS, the worker density Retail Trade is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 249 | |

Community Facilities

| | | |
|---|-------|--|
| Total Floor Area (m ²) | 47050 | https://www.pland.gov.hk/file/resources/approved_pb/hd_pb/pdf/Pak_Tin_Estate_(Redevelopment_Phases_7810_11_and_13).pdf |
| Worker Density (per 100m ²) | 3.5 | The development consists of community facilities. With reference to CIFSUS, the worker density Retail Trade is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 1647 | |

C20 WIP - Pak Tin Estate Redevelopment Phases 13**Residential**

| | | |
|---|-------|---|
| No. of Households | | https://www.pland.gov.hk/file/resources/approved_pb/hd_pb/pdf/Pak Tin Estate (Redevelopment Phases 7810 11 and 13).pdf |
| Phase 13 | 2627 | |
| Average Household Size (2021) in Sam Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 7356 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 7423 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R1 (50m ² per flat) | 2627 | GFA of flat is approximately 49m ² . Adopting R1 to represent a worst case scenario. |

C21 WIP - Pak Tin Estate Redevelopment Phase 12**Residential**

| | | |
|---|-------|---|
| No. of Households | 2091 | https://www.pland.gov.hk/file/resources/approved_pb/hd_pb/pdf/Pak Tin Estate Redevelopment Phase 12.pdf |
| Average Household Size (2021) in Sam Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 5855 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 5908 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R1 (50m ² per flat) | 2091 | GFA of flat is 41m ² . Adopting R1 to represent a worst case scenario. |

C22 Pak Tin Estate - Tsui Tin House**Residential**

| | | |
|---|---------|---|
| No. of Households | 468 | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400535&dist=10 |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1172 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2029) | 1183 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 468 | GFA of flat is 12-52m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m ²) | 1468.19 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m ²) | 1468 | |
| Worker Density (per 100m ²) | 3.3 | The development consists of Community Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 49 | |

C23 Pak Tin Estate - Yue Tin House

Residential

| | | |
|---|---------|---|
| No. of Households | 468 | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400535&dist=10 |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1172 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2029) | 1183 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 468 | GFA of flat is 12-52m ² . Adopting R2 to represent a worst case scenario. |
| <u>Commercial</u> | | |
| Total Area (m ²) | 1211.37 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m ²) | 1211 | |
| Worker Density (per 100m ²) | 3.3 | The development consists of Work Office, Church and Study Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 40 | |

C24 Pak Tin Estate - Yun Tin House

Residential

| | | |
|---|-------|---|
| No. of Households | 468 | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400535&dist=10 |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1172 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2029) | 1183 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 468 | GFA of flat is 12-52m ² . Adopting R2 to represent a worst case scenario. |

C25 Pak Tin Estate - Fu Tin House

Residential

| | | |
|---|-------|---|
| No. of Households | 468 | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400535&dist=10 |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1172 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2029) | 1183 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 468 | GFA of flat is 12-52m ² . Adopting R2 to represent a worst case scenario. |

C26 Pak Tin Estate - Chak Tin House

| | | |
|---|---------|---|
| No. of Households | 468 | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400535&dist=10 |
| Average Household Size (2021) in Sam Shui Po (F23) Ha Pak Tin | 2.5 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1172 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2029) | 1183 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | 468 | GFA of flat is 12-52m ² . Adopting R2 to represent a worst case scenario. |
| Commercial | | |
| Total Area (m2) | 1101.84 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 1102 | |
| Worker Density (per 100m2) | 3.3 | The development consists of Community Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusReport.pdf) |
| Total Pop. | 37 | |

C27 Pak Tin Community Hall

| | | |
|----------------------------|---------|---|
| Total Area (m2) | 1192.90 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 5 | https://www.had.gov.hk/en/public_services/community_halls_centres.htm |
| Total Floor Area (m2) | 5964 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Community Hall. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusReport.pdf) |
| Total Pop. | 197 | |

Catchment D

D1 C.M.A. Secondary School

| | | |
|---------------------------|-----|---|
| Teaching Staff Population | 103 | https://drive.google.com/file/d/17z18tSMRh2laXkro4A5TmdfhGlb_iR/view |
| Student Population | 676 | https://drive.google.com/file/d/17z18tSMRh2laXkro4A5TmdfhGlb_iR/view |

D2 T.W.G.Hs Chang Ming Thien College

| | | |
|---------------------------|-----|---|
| Teaching Staff Population | 60 | https://twghcmts.edu.hk/sites/default/files/files/2022-23xue_nian_xue_xiao_bao_gao_.pdf |
| Student Population | 701 | https://twghcmts.edu.hk/sites/default/files/files/2022-23xue_nian_xue_xiao_bao_gao_.pdf |

D3 New Life Psychiatric Rehabilitation Association

| | | |
|----------------------------|--------|--|
| Total Area (m2) | 807.40 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 6 | Refer to google map for our reference |
| Total Floor Area (m2) | 4844 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Rehabilitation Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusReport.pdf) |
| Total Pop. | 160 | |

| D4 HKSKH Li Ka Shing Care and Attention Home for the Elderly | | |
|---|---------|---|
| Total Area (m2) | 1466.48 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 5 | Refer to google map for our reference |
| Total Floor Area (m2) | 7332 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Elderly Care Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusRreport.pdf) |
| Total Pop. | 242 | |
| D5 Shek Kip Mei Fire Station | | |
| Total Area (m2) | 1957.06 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 5 | Refer to google map for our reference |
| Total Floor Area (m2) | 9785 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Fire Station. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusRreport.pdf) |
| Total Pop. | 323 | |
| D6 Public Health Laboratory Centre | | |
| Total Area (m2) | 3665.00 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 15 | https://www.archsd.gov.hk/en/exhibition/public-health-laboratory-centre-at-nam-cheong-street.html |
| Total Floor Area (m2) | 54975 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Laboratory Centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusRreport.pdf) |
| Total Pop. | 1815 | |
| D7 The Mental Health Association of Hong Kong Cornwell School | | |
| Teaching Staff Population | 69 | https://www.mhahk-cws.edu.hk/attachment/upload/files/PDF/2223%E5%91%A8%E5%B9%B4%E6%A0%A1%E5%8B%99%E5%A0%B1%E5%91%8A.pdf |
| Student Population | 112 | https://www.mhahk-cws.edu.hk/attachment/upload/files/PDF/2223%E5%91%A8%E5%B9%B4%E6%A0%A1%E5%8B%99%E5%A0%B1%E5%91%8A.pdf |
| D8 Society of Boys' Centres Chak Yan Centre | | |
| Teaching Staff Population | 56 | file:///C:/Users/User/Downloads/uploads_file_202310_a7a19562cb437ae1d26f9ee4bb13aed3%20(1).pdf |
| Student Population | 252 | file:///C:/Users/User/Downloads/uploads_file_202310_a7a19562cb437ae1d26f9ee4bb13aed3%20(1).pdf |
| D9 Run Run Shaw Creative Media Centre (City University of Hong Kong) | | |
| Total Area (m2) | 4198.18 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 10 | Reference to Google Map |
| Total Floor Area (m2) | 41982 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a Academic Building. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifus/cifusRreport.pdf) |
| Total Pop. | 1386 | |
| D10 Shek Kip Mei Service Reservoir Playground | | |
| Visitor | 44 | https://www.lcsd.gov.hk/clpss/en/webApp/Facility/Details.do?ftid=11&fcid=8&did=9 |

| D11 WIP - Public Housing Chak On Road South | | |
|---|--------|---|
| No. of Households | 500 | https://www.devb.gov.hk/filemanager/en/content_1322/Sites_for_Public_Housing_Development_EN.pdf |
| Average Household Size (2021) in Sam Shui Po (F22) Lu Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1400 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 1413 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R1 (50m ² per flat) | 500 | GFA of flat is <50m ² . Adopting R1 to represent a worst case scenario. |
| D12 Chak On Estate Market | | |
| Total Area (m2) | 974.20 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 974 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a community service centre, rehabilitation centre, student development services function room, etc. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 33 | |
| D13 Chak On Estate | | |
| No. of Households | | https://www.housingauthority.gov.hk/en/global-elements/estate-locator/detail.html?propId=1&id=1321348400534&dist=10 |
| Fu Chak House | 450 | |
| Lai Chak House | 450 | |
| Wing Chak House | 450 | |
| Wah Chak House | 450 | |
| Average Household Size (2021) in Sam Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 5040 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 5086 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R1 (50m ² per flat) | 1800 | GFA of flat is 11-39m ² . Adopting R1 to represent a worst case scenario. |
| D14 Chak On Estate - Nam Cheong Street Rest Garden | | |
| Visitor | 10 | https://moostrip.com/listing/namcheongstreetrestgarden/ |
| D15 City University of Hong Kong Chak On Centre | | |
| Total Area (m2) | 974.00 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 1 | Reference to Google Map |
| Total Floor Area (m2) | 974 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a educational centre. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusReport.pdf) |
| Total Pop. | 33 | |

D16 Hong Kong Baptist Mr. & Mrs. Au Shue Hung Rehabilitation and Health Care Home

| | | |
|----------------------------|--------|---|
| Total Area (m2) | 685.00 | Reference to basemap from HKMS (https://www.hkmapservice.gov.hk/) |
| Number of Floors | 8 | Reference to Google Map |
| Total Floor Area (m2) | 5480 | |
| Worker Density (per 100m2) | 3.3 | The development is currently a rehabilitation and health care home, etc. With reference to CIFSUS, the worker density for Community, Social & Personal Services is adopted. (https://www.pland.gov.hk/pland_en/p_study/comp_s/cifsus/cifsusRreport.pdf) |
| Total Pop. | 181 | |

D17 Student Residence City University of Hong Kong Hall 11

| | | |
|---|-------|---|
| Total Pop. | 300 | https://www.cityu.edu.hk/sro/AboutUs/KLT/ResidenceHalls/SR11.htm#:~:text=Along%20with%20Hall%2010%2C%20Hall%2011%20is%20the,value%20a%20bottom-up%20approach%20to%20residence%20life%20management. |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 303 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R2 (110m ² per flat) | | GFA of flat is 38m ² . Adopting R2 to represent a worst case scenario. |

Catchment E

E1 Dynasty Height Skylodge

| | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgmt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Block 1 | 60 | |
| Block 2 | 60 | |
| Block 3 | 52 | |
| Block 5 | 28 | |
| Block 6 | 42 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 678 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 685 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | | GFA of flat is 58-206m ² . Adopting R3 to represent a worst case scenario. |

E2 Dynasty Height Dynasty Villa

| | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Villa 1 | 6 | |
| Villa 2 | 8 | |
| Villa 3 | 8 | |
| Villa 5 | 8 | |
| Villa 6 | 8 | |
| Villa 7 | 8 | |
| Villa 8 | 8 | |
| Villa 9 | 8 | |
| Villa 10 | 8 | |
| Villa 11 | 8 | |
| Villa 12 | 8 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 241 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 244 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 86 | GFA of flat is 173-218m ² . Adopting R3 to represent a worst case scenario. |

E3 Dynasty Height Tropicana

| | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Block 1 | 41 | |
| Block 2 | 44 | |
| Block 3 | 56 | |
| Block 5 | 52 | |
| Block 6 | 52 | |
| Block 7 | 52 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 832 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 840 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 297 | GFA of flat is 58-172m ² . Adopting R3 to represent a worst case scenario. |

| | | |
|--|----------------|--|
| Swimming Pool Area, m ² | 1033 | From Geoinfo Map |
| Height of Swimming Pool, m | 1.5 | Main Pool of Public Swimming Pool |
| Estimated volume of the Swimming pool, m ³ | 1549 | |
| Turnover Rate, hour | 6 | |
| Surface Loading Rate of Filter, m ³ /m ² /hr | 50 | Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted) |
| Required Filter Area, m ² | 5.16 | |
| Backwash Duration (mins) | 7.00 | |
| Backwash Flow Rate, m ³ /m ² /hr | 30 | |
| Maximum backwash volume, m ³ /day | 18.1 | |
| Maximum backwash volume, L/s | 43.04 | |
| Maximum backwash volume, m³/s | 0.04304 | |

E4 Beacon Heights

| | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Block 1 | 44 | |
| Block 2 | 90 | |
| Block 3 | 22 | |
| Block 4 | 90 | |
| Block 5 | 22 | |
| Block 6 | 90 | |
| Block 7 | 44 | |
| Block 8 | 32 | |
| Block 10 | 16 | |
| Block 12 | 16 | |
| Block 14 | 32 | |
| Block 15 | 48 | |
| Block 17 | 48 | |
| Block 19 | 48 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1798 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |

| | |
|----------------------------|------|
| Est. Pop. [persons] (2032) | 1815 |
|----------------------------|------|

Flat size assumption (Hong Kong & Kowloon)

| | | |
|---------------------------------|-----|---|
| R3 (210m ² per flat) | 642 | GFA of flat is 75-122m ² . Adopting R3 to represent a worst case scenario. |
|---------------------------------|-----|---|

| | | |
|--|-----------------|--|
| Swimming Pool Area, m ² | 217 | From Geoinfo Map |
| Height of Swimming Pool, m | 1.5 | Main Pool of Public Swimming Pool |
| Estimated volume of the Swimming pool, m ³ | 325 | |
| Turnover Rate, hour | 6 | |
| Surface Loading Rate of Filter, m ³ /m ² /hr | 50 | Swimming Pools: Design and Construction, Fourth Edition By Philip H. Perkins (50 m ³ /m ² /hr adopted) |
| Required Filter Area, m ² | 1.08 | |
| Backwash Duration (mins) | 7.00 | |
| Backwash Flow Rate, m ³ /m ² /hr | 30 | |
| Maximum backwash volume, m ³ /day | 3.8 | |
| Maximum backwash volume, L/s | 9.03 | |
| Maximum backwash volume, m³/s | 0.009026 | |

| E5 Mont Verra | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgmt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Block 1 | 44 | |
| Block 2 | 90 | |
| Block 3 | 22 | |
| Block 4 | 90 | |
| Block 5 | 22 | |
| Block 6 | 90 | |
| Block 7 | 44 | |
| Block 8 | 32 | |
| Block 10 | 16 | |
| Block 12 | 16 | |
| Block 14 | 32 | |
| Block 15 | 48 | |
| Block 17 | 48 | |
| Block 19 | 48 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1798 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 1815 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 642 | GFA of flat is75-122m2. Adopting R3 to represent a worst case scenario. |

| E6 Mont Rouge | | |
|--|-------|---|
| No. of Households | | https://bmis1.buildingmgmt.gov.hk/bd_hadbiex/content/searchbuilding/building_detail.jsf |
| Block 1 | 44 | |
| Block 2 | 90 | |
| Block 3 | 22 | |
| Block 4 | 90 | |
| Block 5 | 22 | |
| Block 6 | 90 | |
| Block 7 | 44 | |
| Block 8 | 32 | |
| Block 10 | 16 | |
| Block 12 | 16 | |
| Block 14 | 32 | |
| Block 15 | 48 | |
| Block 17 | 48 | |
| Block 19 | 48 | |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 1798 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 1815 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 642 | GFA of flat is75-122m2. Adopting R3 to represent a worst case scenario. |

E7 WIP - Beacon Peak Phase 1

| | | |
|--|-------|---|
| No. of Households | 332 | https://www.richitt.com/taiwopingyipingroadproject/ |
| Average Household Size (2021) in Sham Shui Po (F22) Lung Ping & Sheung Pak Tin | 2.8 | https://www.census2021.gov.hk/en/district_profiles.html |
| Total Pop. | 930 | |
| Average Population Growth Per Year | 0.10% | According to the Projections of Population Distribution 2023-2031 published by Planning Department, the population growth of 2023 is 0.1%. https://www.pland.gov.hk/pland_en/resources/population_data/pop_dist_proj/index.html |
| Est. Pop. [persons] (2032) | 939 | |
| Flat size assumption (Hong Kong & Kowloon) | | |
| R3 (210m ² per flat) | 332 | GFA of flat is 65-278m ² . Adopting R3 to represent a worst case scenario. |

Project No.: 2076EA

Sewerage Impact Assessment for Section 16 Planning Application for Proposed Minor Relaxation of Building Height Restriction for Permitted 'Religious Institution' and 'Social Welfare Facility' Uses, at N.K.I.L. No. 3635 RP and 3762, 43 - 45 Berwick Street, Sham Shui Po, Kowloon

Appendix 7-1

Calculation of Occupancy Rate of Sewerage System

Appendix 7-1. Calculation of Occupancy Rate of Sewerage System

| Sewer No. | | | | Diameter (m) [a] | Cross-section Area (m ²) A | Length (m) [a] | Inlet mPD (m) [a] | Outlet mPD (m) [a] | Hydraulic pipeline roughness (m) [b] | Hydraulic Gradient s | Mean Velocity (m/s) [c] V | Max Capacity of Sewer (m ³ /s) | Total Average Dry Weather Flow m ³ /day | Peaking Factor (including stormwater allowance) [d] | Catchment Inflow Factor [e] | Revised Total Average Dry Weather Flow m ³ /day | Contributing Population [f] | Peak Discharge through Manhole (m ³ /s) | Peak Discharge from Swimming pool backwash (m ³ /s) | Total Peak Discharge through Manhole (m ³ /s) | Total Peak Flow Occupancy (%) | Project Site Peak Flow Occupancy (%) | Contributing Catchment No. |
|-----------|------------|---|------------|---------------------|---|-------------------|----------------------|-----------------------|---|-------------------------|---------------------------------|---|---|--|--------------------------------|---|--------------------------------|--|--|--|-------------------------------|--------------------------------------|---|
| 1 | FMH4016713 | 2 | FGJ4000740 | 0.900 | 0.6362 | 32.1 | 4.62 | 4.46 [g] | 0.003 | 0.005 | 1.82 | 1.158 | 15069.47 | 3.8 | 1.30 | 19590.31 | 72557 | 0.862 | 0.05207 | 0.914 | 79% | 0.2% | <u>C + D + E</u> |
| 2 | FGJ4000740 | 3 | FMH4016714 | 0.900 | 0.6362 | 44.7 | 4.46 [g] | 4.23 | 0.003 | 0.005 | 1.82 | 1.158 | 15995.37 | 3.8 | 1.30 | 20793.98 | 77015 | 0.915 | 0.05207 | 0.967 | 83% | 0.2% | <u>Subject Site + A + B + C + D + E</u> |

Note:

[a] Information from DSD drainage plan.

[b] Assume slimed of clayware in "Poor" condition for existing sewer

[c] The velocity is calculated using the Colebrook-White Formula:

$$V = -2(2gDS)^{0.5} \log \left(\frac{k}{3.7D} + \frac{2.5v}{D(2gDS)^{0.5}} \right)$$

where

k = Colebrook-White roughness coefficient, in meter

V = mean velocity (m/s)

D = circular cross-section pipe, inside diameter (m)

S = slope, in meters per meter

v = kinematic viscosity of water, in meter per second (0.00001306 m/s)

g = gravitational acceleration (m/s²) (9.807m/s²)

$$\text{Contributing Population} = \frac{\text{Calculated total average flow (m3/day)}}{0.27 \text{ (m3/person/day)}}$$

[d] Reference from Table T-5 (a) of Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning

[e] Reference from Table T-4 of Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning, Catchment inflow factor of North West Kowloon is adopted.

[f] The Contributing Population is defined as:

[g] The invert level is estimated based on the interpolation between invert level of manholes FMH4016713 and FMH4016714.