Annex B

Replacement Pages of Drainage and Sewerage Impact Assessment

Table 4-2 Sewage Flow Estimation for the Existing and Proposed Redevelopment

| | Existing Dev | velopment |
|--|---------------------------------|---|
| Care & Attention Home (G/F-2/F) | | Remarks |
| Generation from Staff | | |
| Total Floor Area | 1707 m ² | |
| Worker Density | 3.3 person/100 m ² | Refer to worker density for "Community, Social & |
| (in 100m2) | | Personal Services" in Table 8 of CIFSUS. |
| Total number of person | 57 persons | |
| Unit Flow Factor | 0.28 m ³ /person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. |
| ADWF | 16.0 m ³ /day | |
| Generation from Residents | | |
| Total number of residents Unit Flow Factor | 0.19 m³/person/day | Full capacity of subsidised places (https://www.elderlyinfo.swd.gov.hk /en/content/pok-oi-hospital-yeung-c hun-pui-care-and-attention-home) Referred to the planning unit flow for Domestic |
| | | (housing type specific) - Institutional and special class in Table T-1 of GESF. |
| ADWF | 27.2 m³/day | |
| Kitchen | | |
| Total Floor Area | 61.5 m ² | |
| Worker Density | 5.1 person/100 m ² | Refer to worker density for "Restaurants" in Table 8 |
| (in 100m²) | | of CIFSUS. |
| Total number of person | 4 persons | |
| Unit Flow Factor | 1.58 m ³ /person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J10 Restaurants & Hotels" in Table T-2 of GESF. |
| Average Sewage Discharge | 6.3 m ³ /day | |
| Total Average dry weather flow of the Existing Development | 49.5 m³/day | |
| Contributing Population | 183 | |
| Catchment Inflow Factor | 1.0 | |
| Revised Total Average Dry Weather Flow | 49.5 m³/day | |
| Peaking Factor | 8 | Referred to the Peaking Factor (including stormwater allowance) for facility with existing upstream sewerage in Table T-5 of GESF. |
| Peak Flow | 0.0046 m³/s | |
| | Proposed Red | evelopment |
| Child Care Centre (G/F) | | |
| Generation from Staff | | Remarks |
| Total Floor Area | 324 m ² | |
| Worker Density | 3.3 person/100 m ² | Refer to worker density for "Community, Social & |
| (in 100m2) | | Personal Services" in Table 8 of CIFSUS. |
| Total number of persons | 11 persons | |

Drainage and Sewerage Impact Assessment for Proposed Redevelopment of Pok Oi Hospital Yeung Chun Pui Care and Attention Home in Yuen Long

| Care and Attention Home in | ruen Long | | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|
| Unit Flow Factor | 0.28 m ³ /person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, | | | | | | | |
| Avorago Sowago Dischargo | 3.0 m ³ /day | Social & Personal Services" in Table T-2 of GESF. | | | | | | | |
| Average Sewage Discharge Elderly Day Care (1/F) | 3.0 III /uay | | | | | | | | |
| | | | | | | | | | |
| Generation from Staff | E10 2 | | | | | | | | |
| Total Floor Area | 510 m ² 3.3 person/100 m ² | Defends a consider density for "Community Conicl 9 | | | | | | | |
| Worker Density (in 100m2) | | Refer to worker density for "Community, Social & Personal Services" in Table 8 of CIFSUS. | | | | | | | |
| Total number of persons | 17 persons | | | | | | | | |
| Unit Flow Factor | 0.28 m ³ /person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. | | | | | | | |
| Average Sewage Discharge | 4.7 m ³ /day | | | | | | | | |
| Care & Attention Home (1/F | F-4/F) | | | | | | | | |
| Generation from Staff | | Remarks | | | | | | | |
| Total Floor Area | 2557 m ² | | | | | | | | |
| Worker Density (in 100m2) | 3.3 person/100 m ² | Refer to worker density for "Community, Social & Personal Services" in Table 8 of CIFSUS. | | | | | | | |
| Total number of persons | 85 persons | | | | | | | | |
| Unit Flow Factor | 0.28 m³/person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. | | | | | | | |
| Average Sewage Discharge | 23.8 m ³ /day | | | | | | | | |
| Generation from Residents | . , | | | | | | | | |
| Total number of residents | 192 persons | full capacity of 192-place residential care home for elderly | | | | | | | |
| Unit Flow Factor | 0.19 m ³ /person/day | Referred to the planning unit flow for Domestic (housing type specific) - Institutional and special class in Table T-1 of GESF. | | | | | | | |
| Average Sewage Discharge | 36.5 m ³ /day | | | | | | | | |
| Hostel for Severely Mentally | Handicapped Persons (5/ | F) | | | | | | | |
| Generation from Staff | , ,, | | | | | | | | |
| Total Floor Area | 682 m ² | | | | | | | | |
| Worker Density (in 100m2) | 3.3 persons | | | | | | | | |
| Total number of persons | 33 persons | Refer to SWD staffing establishment for HSMH, around 0.66 workers/resident (i.e.50 nos of bed). | | | | | | | |
| Unit Flow Factor | 0.28 m³/person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. | | | | | | | |
| Average Sewage Discharge | 9.2 m ³ /day | | | | | | | | |
| Generation from Residents | | | | | | | | | |
| Total number of residents | 50 persons | full capacity of 50 place for HSMH | | | | | | | |
| Unit Flow Factor | 0.19 m³/person/day | Referred to the planning unit flow for Domestic (housing type specific) - Institutional and special class in Table T-1 of GESF. | | | | | | | |
| Average Sewage Discharge | 9.5 m³/day | | | | | | | | |
| Hostel for Moderately Ment | tally Handicapped Persons | | | | | | | | |
| Generation from Staff | F272 | Remarks | | | | | | | |
| Total Floor Area | 537 m ² | | | | | | | | |
| Worker Density (in 100m2) | 3.3 persons | | | | | | | | |

Drainage and Sewerage Impact Assessment for Proposed Redevelopment of Pok Oi Hospital Yeung Chun Pui Care and Attention Home in Yuen Long

| Care and Attention frome in 1 | | | | | | | | | | |
|------------------------------------|---------------------------------|---|--|--|--|--|--|--|--|--|
| Unit Flow Factor | 0.28 m ³ /person/day | Refer to the planning unit flow factor for "Commercial | | | | | | | | |
| | | Employee" + "Commercial Activities: J11 Community | | | | | | | | |
| | 24. | Social & Personal Services" in Table T-2 of GESF. | | | | | | | | |
| Average Sewage Discharge | 4.5 m³/day | | | | | | | | | |
| Generation from Residents | 140 | [] | | | | | | | | |
| Total number of residents | 40 persons | full capacity of 40 place for HMMH | | | | | | | | |
| Unit Flow Factor | 0.19 m³/person/day | Referred to the planning unit flow for Dome (housing type specific) - Institutional and special of | | | | | | | | |
| | 244 | in Table T-1 of GESF. | | | | | | | | |
| Average Sewage Discharge | 7.6 m ³ /day | | | | | | | | | |
| Day Activity Unit, Clinic, Ma | ssage, Showroom (7/F&8/F) | | | | | | | | | |
| Generation from Staff | | | | | | | | | | |
| Total Floor Area | 1168 m ² | | | | | | | | | |
| Worker Density (in 100m2) | 3.3 person/100 m ² | Refer to worker density for "Community, Social & Personal Services" in Table 8 of CIFSUS. | | | | | | | | |
| Total number of persons | 39 persons | | | | | | | | | |
| Unit Flow Factor | 0.28 m ³ /person/day | Refer to the planning unit flow factor for "Commercial Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. | | | | | | | | |
| Average Sewage Discharge | 10.8 m ³ /day | | | | | | | | | |
| Kitchen(8/F) | | | | | | | | | | |
| Total Floor Area | 200 m ² | | | | | | | | | |
| Worker Density (in 100m2) | 5.1 person/100 m ² | Referred to the worker density of Restaurants (All | | | | | | | | |
| , , | | Types) in Table 8 of CIFSUS | | | | | | | | |
| Total number of persons | 11 persons | | | | | | | | | |
| Unit Flow Factor | 1.58 m³/person/day | Referred to the planning unit flow for Commercial | | | | | | | | |
| | | Employee + Restaurants & Hotels - J10 in Table T-2 of GESF. | | | | | | | | |
| Average Sewage Discharge | 17.4 m ³ /day | | | | | | | | | |
| Canteen(8/F) | | | | | | | | | | |
| Total Floor Area | 77 m ² | | | | | | | | | |
| Worker Density (in 100m2) | 5.1 person/100 m ² | Referred to the worker density of Restaurants (All Types) in Table 8 of CIFSUS | | | | | | | | |
| Total number of persons | 4 persons | | | | | | | | | |
| Unit Flow Factor | 1.58 m³/person/day | Referred to the planning unit flow for Commercial Employee + Restaurants & Hotels - J10 in Table T-2 (GESF. | | | | | | | | |
| Average Sewage Discharge | 6.3 m ³ /day | | | | | | | | | |
| Integrated Vocational Rehab | · | =) | | | | | | | | |
| Generation from Staff | | | | | | | | | | |
| Total Floor Area | 416 m ² | | | | | | | | | |
| Worker Density (in 100m2) | 3.3 person/100 m ² | Refer to worker density for "Community, Social & Personal Services" in Table 8 of CIFSUS. | | | | | | | | |
| Total number of persons | 14 persons | | | | | | | | | |
| Unit Flow Factor | 0.28 m³/person/day | Refer to the planning unit flow factor for "Commercial | | | | | | | | |
| | | Employee" + "Commercial Activities: J11 Community, Social & Personal Services" in Table T-2 of GESF. | | | | | | | | |
| Average Sewage Discharge | 3.9 m³/day | | | | | | | | | |
| Total Average dry weather | | | | | | | | | | |
| flow of the Proposed redevelopment | <u>137.2 m³/day</u> | | | | | | | | | |
| Contributing Population | 508 | | | | | | | | | |
| Catchment Inflow Factor | 1.0 | | | | | | | | | |
| Catelinicit illilow ractor | 1.0 | | | | | | | | | |

Drainage and Sewerage Impact Assessment for Proposed Redevelopment of Pok Oi Hospital Yeung Chun Pui Care and Attention Home in Yuen Long

| Revised Total Average Dry Weather Flow | 137.2 m³/day | | | | | | | |
|---|---------------------------------|---|--|--|--|--|--|--|
| Peaking Factor | 6 | Referred to the Peaking Factor (excluding stormwater allowance) for facility with new upstream sewerage in Table T-5 of GESF. | | | | | | |
| Peak Flow | <u>0.0095 m³/s</u> | | | | | | | |
| | Difference of the proposed | and existing development | | | | | | |
| Difference in ADWF and peak | ADWF: +87.7 m ³ /day | • | | | | | | |
| flow of proposed redevelopment and existing development | nent Peak flow: +0.0049 r | Peak flow: +0.0049 m ³ /s | | | | | | |

4.3. Estimation of Sewage Flow from Streams

- 4.3.1. Different streams (i.e. Stream A and B) are defined as shown in *Figure 3.1* to consider existing sewage generation. Stream A consists of discharge from Ching Chung Care and Attention Home for the Aged while Stream B consists of discharge from Sha Chau Lei Tsuen. The sewage is discharged into the existing 150 300mm public sewerage pipes along the access road to the west. Stream A is discharged at FMH1009619 to join the discharge from Project Site while Stream B joins further downstream at FMH1009602.
- 4.3.2. Both Stream A and B are assumed to have 100% capacity at the convergent sewer of all discharge to the stream to estimate the total average day flow generated from the surrounding of the Project Site.

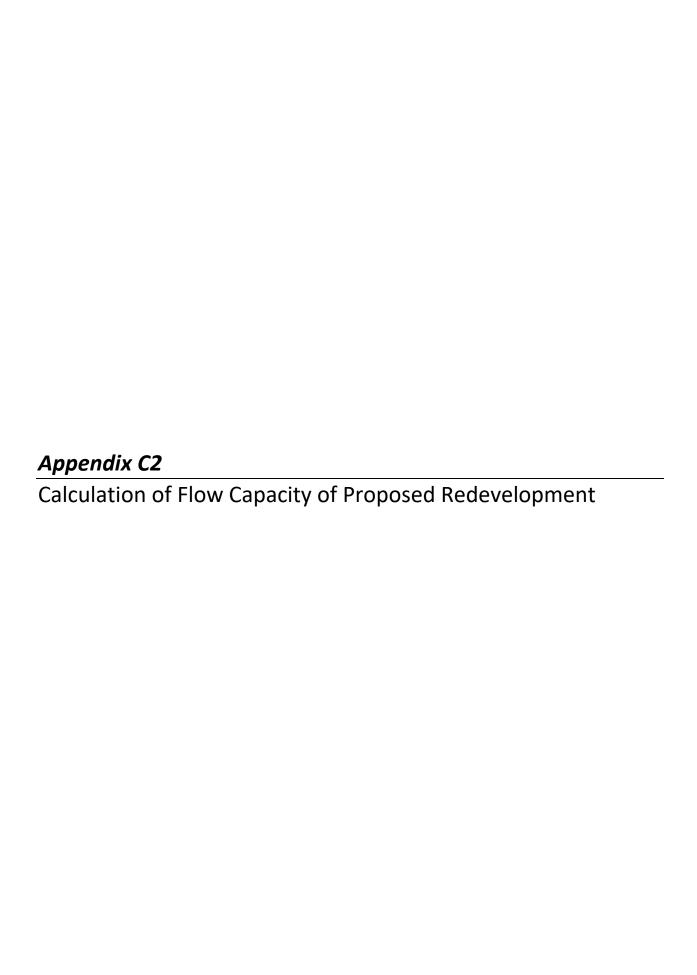
4.4. Estimation of Peak Discharge

- 4.4.1. 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.
- 4.4.2. In accordance with Table T-4 of the GESF, P_{CIF} of 1.00 is adopted for existing sewerage as concerned sewerage system is identified in "Yuen Long".
- 4.4.3. 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.
- 4.4.4. Based on **Table 4-3** 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. The peaking factor excluding stormwater allowance is used in the peak flow estimation of proposed development. Meanwhile the peaking factor including stormwater allowance is used in stream with existing upstream (Stream A and Stream B).



| iculation of Flov | ow Capacity of Existing | Developme | ent | | | | | | | | | | | | | | | | | 1 | | | , |
|-------------------|-------------------------|-----------|------------|---------------|---------------------------|----------------------------|------------|------------------------|-------------------------|---|--------------------|----------------------------|--------------------------|-----------------------------------|----------------------------|---|----------------------------|----------------|---|---|---------------------------|---|--------------------------------------|
| | Sewer | No. | | Material Inte | Internal Diameter (m) [a] | Cross-section Area (m²) | Length (m) | Inlet mPD US_IL (m) | Outlet mPD DS_IL (m) | Hydraulic pipeline roughness (m) [b] | Hydraulic Gradient | Mean Velocity (m/s) [c] | Max Capacity of Sewer | Total Average Dry Weather Flow | Catchment Inflow Factor | Revised Total Average Dry Weather Flow [g] | Contributing Population | Peaking Factor | Peak Discharge from Project Site m ³ /day | Peak Discharge through Manhole m ³ /s | Percentage of capacity | Percentage Contribution by Existing | Remark |
| ID | From | ID | To | | D | A | 1 | [a] | [a] | roughness (m) [b] | s | v | (m²/s) | /s) m²/day | (r) | m²/day | [d] | [e] | Project Site in Iday | Manhole m /s | [h] | Development | |
| TMH1 | Site | S1 | FMH1009620 | Clayware | 0.150 | 0.018 | 4.89 | 4.88 | 4.39 | 0.003 | 0.101 | 2.47 | 0.044 | 49.5 | 1.0 | 49.5 | 183 | 8.0 | 395.6 | 0.0046 | 11% | 11% | Site (Existing) |
| 81 | FMH1009620 | S2 | FMH1009619 | Clayware | 0.300 | 0.071 | 4.96 | 4.38 | 4.34 | 0.003 | 0.008 | 1.12 | 0.079 | 49.5 | 1.0 | 49.5 | 183 | 8.0 | 395.6 | 0.0046 | 6% | 6% | Site (Existing) |
| tream A | FTH1003105 | S2 | FMH1009619 | Clayware | 0.150 | 0.018 | 3.78 | 4.374* | 4.34 | 0.003 | 0.009 | 0.73 | 0.013 | 140.4 | 1.0 | 140.4 | 520 | 8.0 | 1123.2 | 0.013 | 100% | 1 | Stream A: Assumed 100% capacity |
| 82 | FMH1009619 | 83 | FMH1009618 | Clayware | 0.300 | 0.071 | 17.31 | 4.33 | 4.26 | 0.003 | 0.004 | 0.79 | 0.056 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 32% | 8% | Site (Existing) + Stream A |
| 83 | FMH1009618 | S4 | FMH1009615 | Clayware | 0.300 | 0.071 | 2.54 | 4.26 | 4.24 | 0.003 | 0.008 | 1.10 | 0.078 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 23% | 6% | Site (Existing) + Stream A |
| 84 | FMH1009615 | 85 | FMH1009614 | Clayware | 0.300 | 0.071 | 11.55 | 4.24 | 4.18 | 0.003 | 0.005 | 0.89 | 0.063 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 28% | 7% | Site (Existing) + Stream A |
| 85 | FMH1009614 | S6 | FMH1009613 | Clayware | 0.300 | 0.071 | 19.18 | 4.15 | 4.04 | 0.003 | 0.006 | 0.94 | 0.066 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 26% | 7% | Site (Existing) + Stream A |
| S6 | FMH1009613 | 87 | FMH1009612 | Clayware | 0.300 | 0.071 | 20.61 | 4.03 | 3.87 | 0.003 | 0.008 | 1.09 | 0.077 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 23% | 6% | Site (Existing) + Stream A |
| 87 | FMH1009612 | S8 | FMH1009603 | Clayware | 0.300 | 0.071 | 22.51 | 3.85 | 3.75 | 0.003 | 0.004 | 0.83 | 0.058 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 30% | 8% | Site (Existing) + Stream A |
| S8 | FMH1009603 | S9 | FMH1009602 | Clayware | 0.300 | 0.071 | 8.43 | 3.73 | 3.62 | 0.003 | 0.013 | 1.42 | 0.100 | 189.9 | 1.0 | 189.9 | 703 | 8.0 | 1518.8 | 0.018 | 18% | 5% | Site (Existing) + Stream A |
| tream B | FMH1009604 | S9 | FMH1009602 | Clayware | 0.225 | 0.040 | 5.72 | 3.63 | 3.62 | 0.003 | 0.002 | 0.43 | 0.017 | 183.6 | 1.0 | 183.6 | 680 | 8.0 | 1468.8 | 0.017 | 100% | 1 | Stream B: Assumed 100 % capacity |
| S9 | FMH1009602 | 810 | FMH1009601 | Clayware | 0.300 | 0.071 | 11.50 | 3.61 | 3.51 | 0.003 | 0.009 | 1.16 | 0.082 | 373.5 | 1.0 | 373.5 | 1383 | 6.0 | 2240.7 | 0.026 | 32% | 6% | Site (Existing) + Stream A+ Stream B |
| | | | | | | | | | | | | | | | | | | | | | | | |

$$V = -2(2gDS)^{0.5} \log \left(\frac{k}{3.7D} + \frac{2.5\nu}{D(2.0DS)^{0.5}} \right)$$



| Calculation of Flow Capacity of Proposed Redevalopment | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|---------|------------|----------|---------------------------|----------------------------|------------|------------------------|-------------------------|-------------------|--------------------|----------------------------|--------------------------|-----------------------------------|----------------------------|---|----------------------------|----------------|---------------------|---------------------------|-------------|-------------------------------|--------------------------------------|
| | Sew | ver No. | | Material | Internal Diameter (m) [a] | Cross-section Area (m²) | Length (m) | Inlet mPD US_IL (m) | Outlet mPD DS_IL (m) | Hydrautic pipenne | Hydraulic Gradient | Mean Velocity (m/s) [c] | Max Capacity of Sewer | Total Average Dry Weather Flow | Catchment Inflow Factor | Revised Total Average Dry Weather Flow [g] | Contributing Population | Peaking Factor | Peak Discharge from | Peak Discharge through | Utilization | Percentage Contribution by | Remark |
| ID | From | ID | To | | D | A | - 1 | [a] | [a] | roughness (m) [b] | s | v | (m ² /s) | m²/day | (f) | m ² /day | [d] | [e] | Project Site m³/day | Manhole m ³ /s | [h] | Proposed Development [i] | |
| FTMHI | Site | S1 | FMH1009620 | Clayware | 0.200 | 0.031 | 4.89 | 4.88 | 4.39 | 0.003 | 0.101 | 3.01 | 0.094 | 137.2 | 1.0 | 137.2 | 508 | 6.0 | 823.2 | 0.010 | 10% | 10% | Site (Proposed) |
| S1 | FMH1009620 | S2 | FMH1009619 | Clayware | 0.300 | 0.071 | 4.96 | 4.38 | 4.34 | 0.003 | 0.008 | 1.12 | 0.079 | 137.2 | 1.0 | 137.2 | 508 | 8.0 | 1097.6 | 0.013 | 16% | 16% | Site (Proposed) |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Stream A | FTH1003105 | S2 | FMH1009619 | Clayware | 0.150 | 0.018 | 3.78 | 4.374* | 4.34 | 0.003 | 0.009 | 0.73 | 0.013 | 140.4 | 1.0 | 140.4 | 520 | 8.0 | 1123.2 | 0.013 | 100% | 1 | Stream A: Assumed 100% capacity |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | FMH1009619 | S3 | FMH1009618 | Clayware | 0.300 | 0.071 | 17.31 | 4.33 | 4.26 | 0.003 | 0.004 | 0.79 | 0.056 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 35% | 23% | Site (Proposed) + Stream A |
| 83 | FMH1009618 | 84 | FMH1009615 | Clayware | 0.300 | 0.071 | 2.54 | 4.26 | 4.24 | 0.003 | 0.008 | 1.10 | 0.078 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 25% | 16% | Site (Proposed) + Stream A |
| 84 | FMH1009615 | S5 | FMH1009614 | Clayware | 0.300 | 0.071 | 11.55 | 4.24 | 4.18 | 0.003 | 0.005 | 0.89 | 0.063 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 30% | 20% | Site (Proposed) + Stream A |
| 85 | FMH1009614 | S6 | FMH1009613 | Clayware | 0.300 | 0.071 | 19.18 | 4.15 | 4.04 | 0.003 | 0.006 | 0.94 | 0.066 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 29% | 19% | Site (Proposed) + Stream A |
| 96 | FMH1009613 | 87 | FMH1009612 | Clayware | 0.300 | 0.071 | 20.61 | 4.03 | 3.87 | 0.003 | 0.008 | 1.09 | 0.077 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 25% | 16% | Site (Proposed) + Stream A |
| 87 | FMH1009612 | S8 | FMH1009603 | Clayware | 0.300 | 0.071 | 22.51 | 3.85 | 3.75 | 0.003 | 0.004 | 0.83 | 0.058 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 33% | 22% | Site (Proposed) + Stream A |
| S8 | FMH1009603 | S9 | FMH1009602 | Clayware | 0.300 | 0.071 | 8.43 | 3.73 | 3.62 | 0.003 | 0.013 | 1.42 | 0.100 | 277.6 | 1.0 | 277.6 | 1028 | 6.0 | 1665.6 | 0.019 | 19% | 13% | Site (Proposed) + Stream A |
| | | | | | | | • | | | | | | | | | | | | | | | | |
| Stream B | FMH1009604 | S9 | FMH1009602 | Clayware | 0.225 | 0.040 | 5.72 | 3.63 | 3.62 | 0.003 | 0.002 | 0.43 | 0.017 | 183.6 | 1.0 | 183.6 | 680 | 8.0 | 1468.8 | 0.017 | 100% | 1 | Stream B: Assumed 100 % capacity |
| | | | | | | | _ | _ | | | | | _ | | | , | | | _ | _ | | | |
| 89 | FMH1009602 | S10 | FMH1009601 | Clayware | 0.300 | 0.071 | 11.50 | 3.61 | 3.51 | 0.003 | 0.009 | 1.16 | 0.082 | 461.2 | 1.0 | 461.2 | 1708 | 6.0 | 2767.2 | 0.032 | 39% | 16% | Site (Proposed) + Stream A+ Stream B |

The Reference for Conforth Mar. "In the fact calculated with mit 1-15 and/ord for 150 and 12 mil a consider to 150m role is a consider to 150m.

Respires values adopted in the calculations is based on the interpolated values for velocities between 0.75 mil and 1.2 mil in accordance with the DSD's Severage Manual. For pilicies were, assemed deviewer and evenes in 1yao "credition, but value of 3.0mm is adopted.

10 The velocity is calculated using the Colebros-Writins Formatic.

The secundary actual date using the Colderook-White Formula: $F = -2(2gDS)^{2} \log \frac{1}{3} \left(\frac{2}{3} \frac{2}{D} \frac{2}{D(2gDS)^{2}} \right)^{2}$ where $k = 0.0 \text{ Colderook-White requires one collection, in most to the collection of the$

C\Usen\nganchunsang\SynologyDrive\2162EA Pok OI/O4 Report\SIA\)ssue 6\(\(\)2164EA\) Prelim Total Average Sewage Discharge_250103