

### Design Settings

|                                      |        |                                    |               |
|--------------------------------------|--------|------------------------------------|---------------|
| Rainfall Methodology                 | FEH-22 | Minimum Velocity (m/s)             | 1.00          |
| Return Period (years)                | 2      | Connection Type                    | Level Soffits |
| Additional Flow (%)                  | 0      | Minimum Backdrop Height (m)        | 0.500         |
| CV                                   | 0.750  | Preferred Cover Depth (m)          | 0.600         |
| Time of Entry (mins)                 | 5.00   | Include Intermediate Ground        | ✓             |
| Maximum Time of Concentration (mins) | 30.00  | Enforce best practice design rules | x             |
| Maximum Rainfall (mm/hr)             | 50.0   |                                    |               |

### Nodes

| Name    | Area<br>(ha) | T of E<br>(mins) | Cover<br>Level<br>(m) | Diameter<br>(mm) | Easting<br>(m) | Northing<br>(m) | Depth<br>(m) | Invert<br>Level<br>(m) |
|---------|--------------|------------------|-----------------------|------------------|----------------|-----------------|--------------|------------------------|
| S11     | 0.009        | 5.00             | 52.750                | 450              | 472015.019     | 164746.392      | 0.750        | 52.000                 |
| S12     | 0.019        | 5.00             | 52.750                | 450              | 472000.341     | 164756.468      | 0.927        | 51.823                 |
| S13     | 0.009        | 5.00             | 52.750                | 450              | 471984.690     | 164767.213      | 1.116        | 51.634                 |
| S10     | 0.143        | 5.00             | 52.200                | 1200             | 471992.933     | 164783.933      | 1.125        | 51.075                 |
| S14     | 0.000        | 5.00             | 52.750                | 1200             | 471981.974     | 164767.971      | 1.755        | 50.995                 |
| S15     | 0.012        | 5.00             | 52.750                | 450              | 472013.319     | 164729.727      | 0.750        | 52.000                 |
| S16     | 0.009        | 5.00             | 52.750                | 450              | 472004.055     | 164726.991      | 0.846        | 51.904                 |
| S17     | 0.019        | 5.00             | 52.750                | 450              | 471987.455     | 164738.387      | 1.046        | 51.704                 |
| S18     | 0.009        | 5.00             | 52.750                | 450              | 471972.125     | 164748.911      | 1.231        | 51.519                 |
| S19     | 0.068        | 5.00             | 52.300                | 1200             | 471960.490     | 164755.833      | 1.406        | 50.894                 |
| S20     | 0.019        | 5.00             | 52.350                | 450              | 471967.685     | 164775.325      | 0.750        | 51.600                 |
| S21     | 0.009        | 5.00             | 52.350                | 450              | 471978.645     | 164791.290      | 0.942        | 51.408                 |
| S22     | 0.017        | 5.00             | 52.350                | 450              | 471966.526     | 164799.609      | 1.088        | 51.262                 |
| S23     | 0.009        | 5.00             | 52.350                | 450              | 471960.343     | 164803.854      | 1.163        | 51.187                 |
| S24     | 0.009        | 5.00             | 52.350                | 450              | 471956.720     | 164759.363      | 0.750        | 51.600                 |
| S25     | 0.009        | 5.00             | 52.350                | 450              | 471938.423     | 164771.925      | 0.970        | 51.380                 |
| S26     | 0.002        | 5.00             | 52.350                | 450              | 471949.383     | 164787.889      | 1.355        | 50.995                 |
| Pond    | 0.059        | 5.00             | 51.800                |                  | 471932.129     | 164775.302      | 1.200        | 50.600                 |
| S27     | 0.000        | 5.00             | 51.900                | 1200             | 471943.791     | 164808.598      | 1.325        | 50.575                 |
| Outfall | 0.000        |                  | 51.500                |                  | 471939.143     | 164812.164      | 1.200        | 50.300                 |

### Links (Input)

| Name  | US<br>Node | DS<br>Node | Length<br>(m) | ks (mm) /<br>n | US IL<br>(m) | DS IL<br>(m) | Fall<br>(m) | Slope<br>(1:X) | Dia<br>(mm) | T of C<br>(mins) | Rain<br>(mm/hr) | Design<br>Flow<br>(l/s) |
|-------|------------|------------|---------------|----------------|--------------|--------------|-------------|----------------|-------------|------------------|-----------------|-------------------------|
| 1.000 | S11        | S12        | 17.804        | 0.600          | 52.000       | 51.823       | 0.177       | 100.6          | 150         | 5.30             | 50.0            |                         |
| 1.001 | S12        | S13        | 18.984        | 0.600          | 51.823       | 51.634       | 0.189       | 100.4          | 150         | 5.61             | 49.5            |                         |
| 1.002 | S13        | S14        | 2.820         | 0.600          | 51.634       | 51.145       | 0.489       | 5.8            | 150         | 5.62             | 49.5            |                         |
| 2.000 | S10        | S14        | 19.362        | 0.600          | 51.075       | 50.995       | 0.080       | 242.0          | 300         | 5.32             | 50.0            |                         |
| 1.003 | S14        | S19        | 24.676        | 0.600          | 50.995       | 50.894       | 0.101       | 244.3          | 300         | 6.03             | 47.9            |                         |
| 3.000 | S15        | S16        | 9.660         | 0.600          | 52.000       | 51.904       | 0.096       | 100.6          | 150         | 5.16             | 50.0            |                         |
| 3.001 | S16        | S17        | 20.135        | 0.600          | 51.904       | 51.704       | 0.200       | 100.7          | 150         | 5.50             | 50.0            |                         |
| 3.002 | S17        | S18        | 18.595        | 0.600          | 51.704       | 51.519       | 0.185       | 100.5          | 150         | 5.81             | 48.7            |                         |
| 3.003 | S18        | S19        | 13.538        | 0.600          | 51.519       | 51.044       | 0.475       | 28.5           | 150         | 5.92             | 48.3            |                         |
| 1.004 | S19        | Pond       | 34.400        | 0.600          | 50.894       | 50.600       | 0.294       | 117.0          | 300         | 6.43             | 46.5            |                         |
| 4.000 | S20        | S21        | 19.365        | 0.600          | 51.600       | 51.408       | 0.192       | 100.9          | 150         | 5.32             | 50.0            |                         |
| 4.001 | S21        | S22        | 14.700        | 0.600          | 51.408       | 51.262       | 0.146       | 100.7          | 150         | 5.57             | 49.7            |                         |
| 4.002 | S22        | S23        | 7.500         | 0.600          | 51.262       | 51.187       | 0.075       | 100.0          | 150         | 5.69             | 49.2            |                         |
| 4.003 | S23        | S26        | 19.365        | 0.600          | 51.187       | 50.995       | 0.192       | 100.9          | 150         | 6.01             | 47.9            |                         |
| 5.000 | S24        | S25        | 22.194        | 0.600          | 51.600       | 51.380       | 0.220       | 100.9          | 150         | 5.37             | 50.0            |                         |
| 5.001 | S25        | S26        | 19.364        | 0.600          | 51.380       | 50.995       | 0.385       | 50.3           | 150         | 5.60             | 49.6            |                         |

### Links (Input)

| Name  | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) | T of C (mins) | Rain (mm/hr) | Design Flow (l/s) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|---------------|--------------|-------------------|
| 4.004 | S26     | Pond    | 21.357     | 0.600       | 50.995    | 50.600    | 0.395    | 54.1        | 150      | 6.27          | 47.0         |                   |
| 1.005 | Pond    | S27     | 6.000      | 0.600       | 50.600    | 50.575    | 0.025    | 240.0       | 300      | 6.53          | 46.2         |                   |
| 1.006 | S27     | Outfall | 5.858      | 0.600       | 50.585    | 50.300    | 0.285    | 20.6        | 150      | 6.57          | 46.0         | 5.0               |

### Simulation Settings

|                      |          |                            |        |                         |   |
|----------------------|----------|----------------------------|--------|-------------------------|---|
| Rainfall Methodology | FEH-22   | Analysis Speed             | Normal | Starting Level (m)      |   |
| Rainfall Events      | Singular | Skip Steady State          | x      | Check Discharge Rate(s) | x |
| Summer CV            | 0.750    | Drain Down Time (mins)     | 240    | Check Discharge Volume  | x |
| Winter CV            | 0.840    | Additional Storage (m³/ha) | 20.0   |                         |   |

### Storm Durations

|    |     |     |     |     |     |     |     |     |      |
|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|------|

| Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 2                     | 0                     | 0                     | 0                     |
| 30                    | 35                    | 0                     | 0                     |
| 100                   | 40                    | 0                     | 0                     |

### Node S27 Online Hydro-Brake® Control

|                          |        |                         |                                |
|--------------------------|--------|-------------------------|--------------------------------|
| Flap Valve               | x      | Objective               | (HE) Minimise upstream storage |
| Replaces Downstream Link | x      | Sump Available          | ✓                              |
| Invert Level (m)         | 50.585 | Product Number          | CTL-SHE-0061-1900-1315-1900    |
| Design Depth (m)         | 1.315  | Min Outlet Diameter (m) | 0.075                          |
| Design Flow (l/s)        | 1.9    | Min Node Diameter (mm)  | 1200                           |

### Node Pond Depth/Area Storage Structure

|                             |         |               |      |                           |        |
|-----------------------------|---------|---------------|------|---------------------------|--------|
| Base Inf Coefficient (m/hr) | 0.00000 | Safety Factor | 2.0  | Invert Level (m)          | 50.600 |
| Side Inf Coefficient (m/hr) | 0.00000 | Porosity      | 1.00 | Time to half empty (mins) |        |

| Depth (m) | Area (m²) | Inf Area (m²) | Depth (m) | Area (m²) | Inf Area (m²) |
|-----------|-----------|---------------|-----------|-----------|---------------|
| 0.000     | 182.0     | 182.0         | 1.200     | 589.0     | 596.8         |

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.91%**

| Node Event        | US<br>Node | Peak<br>(mins) | Level<br>(m) | Depth<br>(m) | Inflow<br>(l/s) | Node<br>Vol (m³) | Flood<br>(m³) | Status     |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 60 minute summer  | S11        | 34             | 52.020       | 0.020        | 0.7             | 0.0081           | 0.0000        | OK         |
| 60 minute summer  | S12        | 33             | 51.863       | 0.040        | 2.3             | 0.0226           | 0.0000        | OK         |
| 60 minute summer  | S13        | 33             | 51.656       | 0.022        | 3.0             | 0.0070           | 0.0000        | OK         |
| 60 minute summer  | S10        | 33             | 51.160       | 0.085        | 11.7            | 0.3104           | 0.0000        | OK         |
| 60 minute summer  | S14        | 33             | 51.090       | 0.095        | 14.7            | 0.1075           | 0.0000        | OK         |
| 60 minute summer  | S15        | 33             | 52.024       | 0.024        | 1.0             | 0.0116           | 0.0000        | OK         |
| 60 minute summer  | S16        | 33             | 51.935       | 0.031        | 1.7             | 0.0117           | 0.0000        | OK         |
| 60 minute summer  | S17        | 33             | 51.750       | 0.046        | 3.3             | 0.0240           | 0.0000        | OK         |
| 60 minute summer  | S18        | 33             | 51.555       | 0.036        | 4.0             | 0.0109           | 0.0000        | OK         |
| 60 minute summer  | S19        | 33             | 50.996       | 0.102        | 24.2            | 0.2134           | 0.0000        | OK         |
| 60 minute summer  | S20        | 33             | 51.630       | 0.030        | 1.6             | 0.0203           | 0.0000        | OK         |
| 60 minute summer  | S21        | 33             | 51.444       | 0.036        | 2.3             | 0.0127           | 0.0000        | OK         |
| 60 minute summer  | S22        | 33             | 51.311       | 0.049        | 3.7             | 0.0231           | 0.0000        | OK         |
| 60 minute summer  | S23        | 33             | 51.239       | 0.052        | 4.4             | 0.0164           | 0.0000        | OK         |
| 60 minute summer  | S24        | 34             | 51.620       | 0.020        | 0.7             | 0.0081           | 0.0000        | OK         |
| 60 minute summer  | S25        | 34             | 51.404       | 0.024        | 1.4             | 0.0083           | 0.0000        | OK         |
| 60 minute summer  | S26        | 34             | 51.046       | 0.051        | 6.0             | 0.0096           | 0.0000        | OK         |
| 480 minute winter | Pond       | 376            | 50.869       | 0.269        | 8.4             | 61.3937          | 0.0000        | OK         |
| 480 minute winter | S27        | 376            | 50.869       | 0.294        | 1.6             | 0.3321           | 0.0000        | SURCHARGED |
| 480 minute winter | Outfall    | 376            | 50.321       | 0.021        | 1.6             | 0.0000           | 0.0000        | OK         |

| Link Event<br>(Outflow) | US<br>Node | Link  | DS<br>Node | Outflow<br>(l/s) | Velocity<br>(m/s) | Flow/Cap | Link<br>Vol (m³) | Discharge<br>Vol (m³) |
|-------------------------|------------|-------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 60 minute summer        | S11        | 1.000 | S12        | 0.7              | 0.283             | 0.040    | 0.0460           |                       |
| 60 minute summer        | S12        | 1.001 | S13        | 2.3              | 0.882             | 0.130    | 0.0506           |                       |
| 60 minute summer        | S13        | 1.002 | S14        | 3.0              | 1.974             | 0.040    | 0.0043           |                       |
| 60 minute summer        | S10        | 2.000 | S14        | 11.7             | 0.662             | 0.165    | 0.3428           |                       |
| 60 minute summer        | S14        | 1.003 | S19        | 14.6             | 0.733             | 0.207    | 0.4956           |                       |
| 60 minute summer        | S15        | 3.000 | S16        | 1.0              | 0.447             | 0.056    | 0.0217           |                       |
| 60 minute summer        | S16        | 3.001 | S17        | 1.7              | 0.473             | 0.096    | 0.0727           |                       |
| 60 minute summer        | S17        | 3.002 | S18        | 3.3              | 0.846             | 0.185    | 0.0724           |                       |
| 60 minute summer        | S18        | 3.003 | S19        | 4.0              | 1.253             | 0.118    | 0.0428           |                       |
| 60 minute summer        | S19        | 1.004 | Pond       | 24.2             | 1.373             | 0.236    | 0.6986           |                       |
| 60 minute summer        | S20        | 4.000 | S21        | 1.6              | 0.548             | 0.090    | 0.0566           |                       |
| 60 minute summer        | S21        | 4.001 | S22        | 2.3              | 0.558             | 0.130    | 0.0608           |                       |
| 60 minute summer        | S22        | 4.002 | S23        | 3.7              | 0.708             | 0.208    | 0.0390           |                       |
| 60 minute summer        | S23        | 4.003 | S26        | 4.4              | 0.822             | 0.247    | 0.1031           |                       |
| 60 minute summer        | S24        | 5.000 | S25        | 0.7              | 0.432             | 0.040    | 0.0361           |                       |
| 60 minute summer        | S25        | 5.001 | S26        | 1.4              | 0.418             | 0.056    | 0.0683           |                       |
| 60 minute summer        | S26        | 4.004 | Pond       | 6.0              | 1.039             | 0.246    | 0.2039           |                       |
| 120 minute winter       | Pond       | 1.005 | S27        | 1.6              | 0.195             | 0.023    | 0.3629           |                       |
| 480 minute winter       | S27        | 1.006 | Outfall    | 1.6              | 1.078             | 0.040    | 0.0086           | 53.7                  |

**Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.63%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 60 minute summer  | S11     | 33          | 52.042    | 0.042     | 3.0          | 0.0166        | 0.0000     | OK         |
| 60 minute summer  | S12     | 33          | 51.909    | 0.086     | 9.4          | 0.0490        | 0.0000     | OK         |
| 60 minute summer  | S13     | 32          | 51.675    | 0.041     | 12.4         | 0.0133        | 0.0000     | OK         |
| 720 minute winter | S10     | 705         | 51.348    | 0.273     | 5.7          | 1.0011        | 0.0000     | OK         |
| 720 minute winter | S14     | 705         | 51.348    | 0.353     | 7.3          | 0.3987        | 0.0000     | SURCHARGED |
| 60 minute summer  | S15     | 33          | 52.051    | 0.051     | 4.1          | 0.0244        | 0.0000     | OK         |
| 60 minute summer  | S16     | 33          | 51.970    | 0.066     | 7.1          | 0.0245        | 0.0000     | OK         |
| 60 minute summer  | S17     | 33          | 51.809    | 0.105     | 13.5         | 0.0547        | 0.0000     | OK         |
| 60 minute summer  | S18     | 32          | 51.595    | 0.076     | 16.5         | 0.0231        | 0.0000     | OK         |
| 720 minute winter | S19     | 705         | 51.348    | 0.454     | 12.1         | 0.9516        | 0.0000     | SURCHARGED |
| 60 minute summer  | S20     | 33          | 51.663    | 0.063     | 6.4          | 0.0419        | 0.0000     | OK         |
| 60 minute summer  | S21     | 35          | 51.555    | 0.147     | 9.4          | 0.0513        | 0.0000     | OK         |
| 60 minute summer  | S22     | 35          | 51.519    | 0.257     | 14.9         | 0.1212        | 0.0000     | SURCHARGED |
| 60 minute summer  | S23     | 35          | 51.464    | 0.277     | 17.2         | 0.0869        | 0.0000     | SURCHARGED |
| 60 minute summer  | S24     | 33          | 51.642    | 0.042     | 3.0          | 0.0166        | 0.0000     | OK         |
| 60 minute summer  | S25     | 33          | 51.430    | 0.050     | 6.0          | 0.0172        | 0.0000     | OK         |
| 720 minute winter | S26     | 705         | 51.348    | 0.353     | 3.2          | 0.0666        | 0.0000     | SURCHARGED |
| 720 minute winter | Pond    | 705         | 51.348    | 0.748     | 16.8         | 231.5634      | 0.0000     | SURCHARGED |
| 720 minute winter | S27     | 705         | 51.348    | 0.773     | 1.6          | 0.8738        | 0.0000     | SURCHARGED |
| 180 minute winter | Outfall | 80          | 50.321    | 0.021     | 1.6          | 0.0000        | 0.0000     | OK         |

| Link Event (Outflow) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|----------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 60 minute summer     | S11     | 1.000 | S12     | 3.0           | 0.422          | 0.169    | 0.1286        |                    |
| 60 minute summer     | S12     | 1.001 | S13     | 9.4           | 1.319          | 0.530    | 0.1367        |                    |
| 60 minute summer     | S13     | 1.002 | S14     | 12.4          | 2.592          | 0.166    | 0.0211        |                    |
| 60 minute summer     | S10     | 2.000 | S14     | 48.0          | 0.859          | 0.675    | 1.1005        |                    |
| 60 minute summer     | S14     | 1.003 | S19     | 60.0          | 0.975          | 0.848    | 1.5266        |                    |
| 60 minute summer     | S15     | 3.000 | S16     | 4.1           | 0.647          | 0.232    | 0.0614        |                    |
| 60 minute summer     | S16     | 3.001 | S17     | 7.1           | 0.687          | 0.401    | 0.2072        |                    |
| 60 minute summer     | S17     | 3.002 | S18     | 13.5          | 1.221          | 0.762    | 0.2048        |                    |
| 60 minute summer     | S18     | 3.003 | S19     | 16.5          | 1.745          | 0.494    | 0.1466        |                    |
| 60 minute summer     | S19     | 1.004 | Pond    | 98.6          | 1.647          | 0.960    | 2.3163        |                    |
| 60 minute summer     | S20     | 4.000 | S21     | 6.4           | 0.790          | 0.364    | 0.2296        |                    |
| 60 minute summer     | S21     | 4.001 | S22     | 9.2           | 0.734          | 0.522    | 0.2581        |                    |
| 60 minute summer     | S22     | 4.002 | S23     | 14.2          | 0.914          | 0.803    | 0.1320        |                    |
| 60 minute summer     | S23     | 4.003 | S26     | 16.1          | 1.085          | 0.913    | 0.3409        |                    |
| 60 minute summer     | S24     | 5.000 | S25     | 3.0           | 0.660          | 0.170    | 0.1011        |                    |
| 60 minute summer     | S25     | 5.001 | S26     | 6.0           | 0.582          | 0.239    | 0.2200        |                    |
| 60 minute summer     | S26     | 4.004 | Pond    | 21.3          | 1.397          | 0.881    | 0.3760        |                    |
| 60 minute winter     | Pond    | 1.005 | S27     | 2.9           | 0.306          | 0.041    | 0.4225        |                    |
| 180 minute winter    | S27     | 1.006 | Outfall | 1.6           | 1.078          | 0.040    | 0.0086        | 32.9               |

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.64%**

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 60 minute summer  | S11     | 33          | 52.049    | 0.049     | 4.1          | 0.0196        | 0.0000     | OK         |
| 60 minute summer  | S12     | 32          | 51.925    | 0.102     | 12.8         | 0.0582        | 0.0000     | OK         |
| 60 minute summer  | S13     | 34          | 51.721    | 0.087     | 17.0         | 0.0279        | 0.0000     | OK         |
| 60 minute summer  | S10     | 34          | 51.745    | 0.670     | 65.8         | 2.4612        | 0.0000     | SURCHARGED |
| 60 minute summer  | S14     | 34          | 51.664    | 0.669     | 77.7         | 0.7570        | 0.0000     | SURCHARGED |
| 60 minute summer  | S15     | 33          | 52.060    | 0.060     | 5.5          | 0.0288        | 0.0000     | OK         |
| 60 minute summer  | S16     | 33          | 51.982    | 0.078     | 9.6          | 0.0292        | 0.0000     | OK         |
| 60 minute summer  | S17     | 35          | 51.928    | 0.224     | 18.3         | 0.1169        | 0.0000     | SURCHARGED |
| 60 minute summer  | S18     | 35          | 51.734    | 0.215     | 22.1         | 0.0657        | 0.0000     | SURCHARGED |
| 960 minute winter | S19     | 930         | 51.513    | 0.619     | 11.5         | 1.2981        | 0.0000     | SURCHARGED |
| 60 minute summer  | S20     | 36          | 52.000    | 0.400     | 8.7          | 0.2661        | 0.0000     | SURCHARGED |
| 60 minute summer  | S21     | 36          | 51.967    | 0.559     | 12.0         | 0.1957        | 0.0000     | SURCHARGED |
| 60 minute summer  | S22     | 36          | 51.911    | 0.649     | 17.4         | 0.3062        | 0.0000     | SURCHARGED |
| 60 minute summer  | S23     | 36          | 51.827    | 0.640     | 20.3         | 0.2011        | 0.0000     | SURCHARGED |
| 60 minute summer  | S24     | 33          | 51.649    | 0.049     | 4.1          | 0.0196        | 0.0000     | OK         |
| 60 minute summer  | S25     | 36          | 51.592    | 0.212     | 8.2          | 0.0732        | 0.0000     | SURCHARGED |
| 60 minute summer  | S26     | 36          | 51.566    | 0.571     | 26.2         | 0.1079        | 0.0000     | SURCHARGED |
| 600 minute winter | Pond    | 600         | 51.513    | 0.913     | 24.1         | 308.3016      | 0.0000     | FLOOD RISK |
| 600 minute winter | S27     | 600         | 51.513    | 0.938     | 1.6          | 1.0606        | 0.0000     | SURCHARGED |
| 600 minute winter | Outfall | 600         | 50.321    | 0.021     | 1.6          | 0.0000        | 0.0000     | OK         |

| Link Event (Outflow) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|----------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 60 minute summer     | S11     | 1.000 | S12     | 4.1           | 0.467          | 0.232    | 0.1581        |                    |
| 60 minute summer     | S12     | 1.001 | S13     | 12.9          | 1.375          | 0.727    | 0.2159        |                    |
| 60 minute summer     | S13     | 1.002 | S14     | 16.6          | 2.580          | 0.222    | 0.0398        |                    |
| 60 minute summer     | S10     | 2.000 | S14     | 61.5          | 0.873          | 0.865    | 1.3635        |                    |
| 60 minute summer     | S14     | 1.003 | S19     | 77.3          | 1.098          | 1.093    | 1.7377        |                    |
| 60 minute summer     | S15     | 3.000 | S16     | 5.5           | 0.692          | 0.311    | 0.0769        |                    |
| 60 minute summer     | S16     | 3.001 | S17     | 9.6           | 0.712          | 0.543    | 0.2684        |                    |
| 60 minute summer     | S17     | 3.002 | S18     | 18.0          | 1.254          | 1.017    | 0.3274        |                    |
| 60 minute summer     | S18     | 3.003 | S19     | 21.0          | 1.732          | 0.628    | 0.2383        |                    |
| 60 minute summer     | S19     | 1.004 | Pond    | 125.9         | 1.788          | 1.226    | 2.4224        |                    |
| 60 minute summer     | S20     | 4.000 | S21     | 8.1           | 0.813          | 0.461    | 0.3409        |                    |
| 60 minute summer     | S21     | 4.001 | S22     | 10.1          | 0.737          | 0.572    | 0.2588        |                    |
| 60 minute summer     | S22     | 4.002 | S23     | 16.4          | 0.929          | 0.921    | 0.1320        |                    |
| 60 minute summer     | S23     | 4.003 | S26     | 19.3          | 1.095          | 1.091    | 0.3409        |                    |
| 60 minute summer     | S24     | 5.000 | S25     | 4.1           | 0.718          | 0.232    | 0.2457        |                    |
| 60 minute summer     | S25     | 5.001 | S26     | 8.0           | 0.582          | 0.318    | 0.3409        |                    |
| 60 minute summer     | S26     | 4.004 | Pond    | 25.5          | 1.470          | 1.053    | 0.3760        |                    |
| 60 minute winter     | Pond    | 1.005 | S27     | 3.1           | 0.326          | 0.043    | 0.4225        |                    |
| 600 minute winter    | S27     | 1.006 | Outfall | 1.6           | 1.085          | 0.041    | 0.0087        | 70.6               |