

### Design Settings

|                       |                   |                                      |               |
|-----------------------|-------------------|--------------------------------------|---------------|
| Rainfall Methodology  | FSR               | Maximum Time of Concentration (mins) | 30.00         |
| Return Period (years) | 100               | Maximum Rainfall (mm/hr)             | 50.0          |
| Additional Flow (%)   | 0                 | Minimum Velocity (m/s)               | 1.00          |
| FSR Region            | England and Wales | Connection Type                      | Level Soffits |
| M5-60 (mm)            | 20.000            | Minimum Backdrop Height (m)          | 0.200         |
| Ratio-R               | 0.470             | Preferred Cover Depth (m)            | 1.200         |
| CV                    | 0.750             | Include Intermediate Ground          | ✓             |
| Time of Entry (mins)  | 4.00              | Enforce best practice design rules   | x             |

### 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) |
|--------|--------------|------------------|-----------------------|------------------|----------------|-----------------|--------------|
| SWMH1  | 0.044        | 4.00             | 73.375                | 1200             | 788108.577     | 788117.130      | 1.000        |
| SWMH2  | 0.044        | 4.00             | 73.375                | 1200             | 788063.247     | 788116.850      | 1.220        |
| SWMH3  | 0.044        | 4.00             | 73.375                | 1200             | 788074.392     | 788117.141      | 1.342        |
| SWMH4  | 0.044        | 4.00             | 73.400                | 1500             | 788074.325     | 788133.157      | 1.527        |
| SWMH5  |              |                  | 73.300                | 1500             | 788067.664     | 788133.154      | 2.150        |
| ATT    |              |                  | 73.300                |                  | 788065.414     | 788139.088      | 2.250        |
| SWMH6  |              |                  | 73.350                | 1500             | 788067.664     | 788152.772      | 2.350        |
| SWMH7  |              |                  | 73.300                | 1200             | 788045.756     | 788174.440      | 2.435        |
| OUTLET |              |                  | 73.300                |                  | 788050.393     | 788178.396      | 2.490        |

### Links

| 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) |
|-------|------------|------------|---------------|----------------|--------------|--------------|-------------|----------------|-------------|------------------|-----------------|
| 1.001 | SWMH1      | SWMH3      | 34.185        | 0.600          | 72.375       | 72.033       | 0.342       | 100.0          | 150         | 4.57             | 50.0            |
| 1.002 | SWMH2      | SWMH3      | 11.149        | 0.600          | 72.155       | 72.033       | 0.122       | 91.4           | 150         | 4.18             | 50.0            |
| 1.003 | SWMH3      | SWMH4      | 16.016        | 0.600          | 72.033       | 71.873       | 0.160       | 100.1          | 225         | 4.77             | 50.0            |
| 1.004 | SWMH4      | SWMH5      | 6.661         | 0.600          | 71.873       | 71.150       | 0.723       | 9.2            | 225         | 4.80             | 50.0            |
| 1.005 | SWMH5      | ATT        | 6.346         | 0.600          | 71.150       | 71.050       | 0.100       | 63.5           | 225         | 4.86             | 50.0            |
| 1.006 | ATT        | SWMH6      | 13.868        | 0.600          | 71.050       | 71.000       | 0.050       | 277.4          | 225         | 5.16             | 50.0            |
| 1.007 | SWMH6      | SWMH7      | 30.813        | 0.600          | 71.000       | 70.865       | 0.135       | 228.2          | 225         | 5.75             | 50.0            |
| 1.008 | SWMH7      | OUTLET     | 6.095         | 0.600          | 70.865       | 70.810       | 0.055       | 110.8          | 225         | 5.84             | 50.0            |

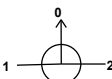
| Name  | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) | US<br>Depth<br>(m) | DS<br>Depth<br>(m) | Σ Area<br>(ha) | Σ Add<br>Inflow<br>(l/s) | Pro<br>Depth<br>(mm) | Pro<br>Velocity<br>(m/s) |
|-------|--------------|--------------|---------------|--------------------|--------------------|----------------|--------------------------|----------------------|--------------------------|
| 1.001 | 1.005        | 17.8         | 6.0           | 0.850              | 1.192              | 0.044          | 0.0                      | 60                   | 0.908                    |
| 1.002 | 1.051        | 18.6         | 6.0           | 1.070              | 1.192              | 0.044          | 0.0                      | 58                   | 0.937                    |
| 1.003 | 1.306        | 51.9         | 17.9          | 1.117              | 1.302              | 0.132          | 0.0                      | 91                   | 1.188                    |
| 1.004 | 4.336        | 172.4        | 23.9          | 1.302              | 1.925              | 0.176          | 0.0                      | 56                   | 3.059                    |
| 1.005 | 1.644        | 65.4         | 23.9          | 1.925              | 2.025              | 0.176          | 0.0                      | 94                   | 1.516                    |
| 1.006 | 0.780        | 31.0         | 23.9          | 2.025              | 2.125              | 0.176          | 0.0                      | 148                  | 0.858                    |
| 1.007 | 0.861        | 34.2         | 23.9          | 2.125              | 2.210              | 0.176          | 0.0                      | 138                  | 0.929                    |
| 1.008 | 1.241        | 49.3         | 23.9          | 2.210              | 2.265              | 0.176          | 0.0                      | 110                  | 1.231                    |

### Pipeline Schedule

| Link  | Length<br>(m) | Slope<br>(1:X) | Dia<br>(mm) | Link<br>Type                | US CL<br>(m) | US IL<br>(m) | US Depth<br>(m) | DS CL<br>(m) | DS IL<br>(m) | DS Depth<br>(m) |
|-------|---------------|----------------|-------------|-----------------------------|--------------|--------------|-----------------|--------------|--------------|-----------------|
| 1.001 | 34.185        | 100.0          | 150         | Circular_Default Sewer Type | 73.375       | 72.375       | 0.850           | 73.375       | 72.033       | 1.192           |
| 1.002 | 11.149        | 91.4           | 150         | Circular_Default Sewer Type | 73.375       | 72.155       | 1.070           | 73.375       | 72.033       | 1.192           |
| 1.003 | 16.016        | 100.1          | 225         | Circular_Default Sewer Type | 73.375       | 72.033       | 1.117           | 73.400       | 71.873       | 1.302           |
| 1.004 | 6.661         | 9.2            | 225         | Circular_Default Sewer Type | 73.400       | 71.873       | 1.302           | 73.300       | 71.150       | 1.925           |
| 1.005 | 6.346         | 63.5           | 225         | Circular_Default Sewer Type | 73.300       | 71.150       | 1.925           | 73.300       | 71.050       | 2.025           |
| 1.006 | 13.868        | 277.4          | 225         | Circular_Default Sewer Type | 73.300       | 71.050       | 2.025           | 73.350       | 71.000       | 2.125           |
| 1.007 | 30.813        | 228.2          | 225         | Circular_Default Sewer Type | 73.350       | 71.000       | 2.125           | 73.300       | 70.865       | 2.210           |
| 1.008 | 6.095         | 110.8          | 225         | Circular_Default Sewer Type | 73.300       | 70.865       | 2.210           | 73.300       | 70.810       | 2.265           |

| Link  | US<br>Node | Dia<br>(mm) | Node<br>Type | MH<br>Type | DS<br>Node | Dia<br>(mm) | Node<br>Type | MH<br>Type |
|-------|------------|-------------|--------------|------------|------------|-------------|--------------|------------|
| 1.001 | SWMH1      | 1200        | Manhole      | Adoptable  | SWMH3      | 1200        | Manhole      | Adoptable  |
| 1.002 | SWMH2      | 1200        | Manhole      | Adoptable  | SWMH3      | 1200        | Manhole      | Adoptable  |
| 1.003 | SWMH3      | 1200        | Manhole      | Adoptable  | SWMH4      | 1500        | Manhole      | Adoptable  |
| 1.004 | SWMH4      | 1500        | Manhole      | Adoptable  | SWMH5      | 1500        | Manhole      | Adoptable  |
| 1.005 | SWMH5      | 1500        | Manhole      | Adoptable  | ATT        |             | Junction     |            |
| 1.006 | ATT        |             | Junction     |            | SWMH6      | 1500        | Manhole      | Adoptable  |
| 1.007 | SWMH6      | 1500        | Manhole      | Adoptable  | SWMH7      | 1200        | Manhole      | Adoptable  |
| 1.008 | SWMH7      | 1200        | Manhole      | Adoptable  | OUTLET     |             | Junction     |            |

### Manhole Schedule

| Node  | Easting<br>(m) | Northing<br>(m) | CL<br>(m) | Depth<br>(m) | Dia<br>(mm) | Connections                                                                          | Link  | IL<br>(m) | Dia<br>(mm) |
|-------|----------------|-----------------|-----------|--------------|-------------|--------------------------------------------------------------------------------------|-------|-----------|-------------|
| SWMH1 | 788108.577     | 788117.130      | 73.375    | 1.000        | 1200        |  |       |           |             |
|       |                |                 |           |              |             | 0                                                                                    | 1.001 | 72.375    | 150         |
| SWMH2 | 788063.247     | 788116.850      | 73.375    | 1.220        | 1200        |  |       |           |             |
|       |                |                 |           |              |             | 0                                                                                    | 1.002 | 72.155    | 150         |
| SWMH3 | 788074.392     | 788117.141      | 73.375    | 1.342        | 1200        |  | 1     | 1.002     | 72.033      |
|       |                |                 |           |              |             | 2                                                                                    | 1.001 | 72.033    | 150         |
|       |                |                 |           |              |             | 0                                                                                    | 1.003 | 72.033    | 225         |
| SWMH4 | 788074.325     | 788133.157      | 73.400    | 1.527        | 1500        |  | 1     | 1.003     | 71.873      |
|       |                |                 |           |              |             | 0                                                                                    | 1.004 | 71.873    | 225         |
| SWMH5 | 788067.664     | 788133.154      | 73.300    | 2.150        | 1500        |  | 1     | 1.004     | 71.150      |
|       |                |                 |           |              |             | 0                                                                                    | 1.005 | 71.150    | 225         |
| ATT   | 788065.414     | 788139.088      | 73.300    | 2.250        |             |  | 1     | 1.005     | 71.050      |
|       |                |                 |           |              |             | 0                                                                                    | 1.006 | 71.050    | 225         |
| SWMH6 | 788067.664     | 788152.772      | 73.350    | 2.350        | 1500        |  | 1     | 1.006     | 71.000      |
|       |                |                 |           |              |             | 0                                                                                    | 1.007 | 71.000    | 225         |

### Manhole Schedule

| Node   | Easting (m) | Northing (m) | CL (m) | Depth (m) | Dia (mm) | Connections                                                                                  | Link | IL (m) | Dia (mm) |     |
|--------|-------------|--------------|--------|-----------|----------|----------------------------------------------------------------------------------------------|------|--------|----------|-----|
| SWMH7  | 788045.756  | 788174.440   | 73.300 | 2.435     | 1200     | <div></div> | 1    | 1.007  | 70.865   | 225 |
|        |             |              |        |           |          |                                                                                              | 0    | 1.008  | 70.865   | 225 |
| OUTLET | 788050.393  | 788178.396   | 73.300 | 2.490     |          | <div></div> | 1    | 1.008  | 70.810   | 225 |

### Simulation Settings

|                      |                   |                            |        |
|----------------------|-------------------|----------------------------|--------|
| Rainfall Methodology | FSR               | Analysis Speed             | Normal |
| Rainfall Events      | Singular          | Skip Steady State          | x      |
| FSR Region           | England and Wales | Drain Down Time (mins)     | 240    |
| M5-60 (mm)           | 20.000            | Additional Storage (m³/ha) | 20.0   |
| Ratio-R              | 0.470             | Starting Level (m)         |        |
| Summer CV            | 0.750             | Check Discharge Rate(s)    | x      |
| Winter CV            | 0.840             | Check Discharge Volume     | x      |

### Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

| Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1                     | 0                     | 0                     | 0                     |
| 2                     | 0                     | 0                     | 0                     |
| 30                    | 0                     | 0                     | 0                     |
| 100                   | 40                    | 0                     | 0                     |

### Node SWMH6 Online Hydro-Brake® Control

|                          |        |                         |                                |
|--------------------------|--------|-------------------------|--------------------------------|
| Flap Valve               | x      | Objective               | (HE) Minimise upstream storage |
| Replaces Downstream Link | x      | Sump Available          | ✓                              |
| Invert Level (m)         | 71.000 | Product Number          | CTL-SHE-0119-7000-1300-7000    |
| Design Depth (m)         | 1.300  | Min Outlet Diameter (m) | 0.150                          |
| Design Flow (l/s)        | 7.0    | Min Node Diameter (mm)  | 1200                           |

### Node ATT Carpark Storage Structure

|                             |         |                           |        |               |       |
|-----------------------------|---------|---------------------------|--------|---------------|-------|
| Base Inf Coefficient (m/hr) | 0.00000 | Invert Level (m)          | 71.050 | Slope (1:X)   | 200.0 |
| Side Inf Coefficient (m/hr) | 0.00000 | Time to half empty (mins) | 91     | Depth (m)     | 1.200 |
| Safety Factor               | 2.0     | Width (m)                 | 10.000 | Inf Depth (m) |       |
| Porosity                    | 0.95    | Length (m)                | 5.000  |               |       |

**Results for 1 year Critical Storm Duration. Lowest mass balance: 99.74%**

| 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     |
|------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute winter | SWMH1      | 10             | 72.440       | 0.065        | 6.9             | 0.1298           | 0.0000        | OK         |
| 15 minute winter | SWMH2      | 10             | 72.218       | 0.063        | 6.9             | 0.1169           | 0.0000        | OK         |
| 15 minute winter | SWMH3      | 10             | 72.141       | 0.108        | 20.7            | 0.1923           | 0.0000        | OK         |
| 15 minute winter | SWMH4      | 10             | 71.933       | 0.060        | 27.5            | 0.1416           | 0.0000        | OK         |
| 30 minute winter | SWMH5      | 26             | 71.260       | 0.110        | 19.9            | 0.1935           | 0.0000        | OK         |
| 30 minute winter | ATT        | 25             | 71.234       | 0.184        | 19.8            | 8.1680           | 0.0000        | OK         |
| 30 minute winter | SWMH6      | 25             | 71.233       | 0.233        | 6.8             | 0.4121           | 0.0000        | SURCHARGED |
| 30 minute winter | SWMH7      | 26             | 70.921       | 0.056        | 6.3             | 0.0632           | 0.0000        | OK         |
| 30 minute winter | OUTLET     | 26             | 70.864       | 0.054        | 6.3             | 0.0000           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | 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) |
|--------------------------------|------------|-------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 15 minute winter               | SWMH1      | 1.001 | SWMH3      | 6.9              | 0.657             | 0.387    | 0.3550           |                       |
| 15 minute winter               | SWMH2      | 1.002 | SWMH3      | 6.9              | 0.671             | 0.371    | 0.1146           |                       |
| 15 minute winter               | SWMH3      | 1.003 | SWMH4      | 20.6             | 1.524             | 0.396    | 0.2186           |                       |
| 15 minute winter               | SWMH4      | 1.004 | SWMH5      | 27.4             | 2.022             | 0.159    | 0.0914           |                       |
| 30 minute winter               | SWMH5      | 1.005 | ATT        | 19.8             | 1.320             | 0.303    | 0.1710           |                       |
| 30 minute winter               | ATT        | 1.006 | SWMH6      | 6.8              | 0.370             | 0.219    | 0.5174           |                       |
| 30 minute winter               | SWMH6      | 1.007 | SWMH7      | 6.3              | 0.718             | 0.184    | 0.2703           |                       |
| 30 minute winter               | SWMH7      | 1.008 | OUTLET     | 6.3              | 0.839             | 0.127    | 0.0455           | 15.4                  |

**Results for 2 year Critical Storm Duration. Lowest mass balance: 99.74%**

| 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     |
|------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute winter | SWMH1      | 10             | 72.450       | 0.075        | 8.9             | 0.1503           | 0.0000        | OK         |
| 15 minute winter | SWMH2      | 10             | 72.228       | 0.073        | 8.9             | 0.1350           | 0.0000        | OK         |
| 15 minute winter | SWMH3      | 10             | 72.158       | 0.125        | 26.7            | 0.2232           | 0.0000        | OK         |
| 15 minute summer | SWMH4      | 10             | 71.942       | 0.069        | 35.5            | 0.1621           | 0.0000        | OK         |
| 30 minute winter | SWMH5      | 26             | 71.298       | 0.148        | 25.5            | 0.2614           | 0.0000        | OK         |
| 30 minute winter | ATT        | 26             | 71.298       | 0.248        | 25.7            | 11.1691          | 0.0000        | SURCHARGED |
| 30 minute winter | SWMH6      | 26             | 71.295       | 0.295        | 7.2             | 0.5214           | 0.0000        | SURCHARGED |
| 30 minute winter | SWMH7      | 27             | 70.923       | 0.058        | 6.7             | 0.0653           | 0.0000        | OK         |
| 30 minute winter | OUTLET     | 27             | 70.866       | 0.056        | 6.7             | 0.0000           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | 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) |
|--------------------------------|------------|-------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 15 minute winter               | SWMH1      | 1.001 | SWMH3      | 8.9              | 0.713             | 0.500    | 0.4176           |                       |
| 15 minute winter               | SWMH2      | 1.002 | SWMH3      | 8.9              | 0.725             | 0.479    | 0.1347           |                       |
| 15 minute winter               | SWMH3      | 1.003 | SWMH4      | 26.6             | 1.626             | 0.512    | 0.2637           |                       |
| 15 minute summer               | SWMH4      | 1.004 | SWMH5      | 35.5             | 2.151             | 0.206    | 0.1110           |                       |
| 30 minute winter               | SWMH5      | 1.005 | ATT        | 25.7             | 1.329             | 0.393    | 0.2140           |                       |
| 30 minute winter               | ATT        | 1.006 | SWMH6      | 7.2              | 0.385             | 0.231    | 0.5515           |                       |
| 30 minute winter               | SWMH6      | 1.007 | SWMH7      | 6.7              | 0.729             | 0.195    | 0.2824           |                       |
| 30 minute winter               | SWMH7      | 1.008 | OUTLET     | 6.7              | 0.853             | 0.135    | 0.0477           | 19.7                  |

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.74%**

| 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     |
|------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute winter | SWMH1      | 10             | 72.496       | 0.121        | 17.0            | 0.2427           | 0.0000        | OK         |
| 15 minute winter | SWMH2      | 10             | 72.352       | 0.197        | 17.0            | 0.3645           | 0.0000        | SURCHARGED |
| 15 minute winter | SWMH3      | 10             | 72.225       | 0.192        | 50.0            | 0.3431           | 0.0000        | OK         |
| 15 minute winter | SWMH4      | 10             | 71.977       | 0.104        | 66.8            | 0.2436           | 0.0000        | OK         |
| 60 minute winter | SWMH5      | 49             | 71.606       | 0.456        | 31.2            | 0.8059           | 0.0000        | SURCHARGED |
| 60 minute winter | ATT        | 49             | 71.605       | 0.555        | 30.2            | 25.7546          | 0.0000        | SURCHARGED |
| 60 minute winter | SWMH6      | 49             | 71.602       | 0.602        | 7.8             | 1.0633           | 0.0000        | SURCHARGED |
| 15 minute summer | SWMH7      | 21             | 70.924       | 0.059        | 7.0             | 0.0669           | 0.0000        | OK         |
| 15 minute summer | OUTLET     | 21             | 70.867       | 0.057        | 7.0             | 0.0000           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | 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) |
|--------------------------------|------------|-------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 15 minute winter               | SWMH1      | 1.001 | SWMH3      | 16.6             | 0.957             | 0.932    | 0.5605           |                       |
| 15 minute winter               | SWMH2      | 1.002 | SWMH3      | 16.5             | 0.937             | 0.888    | 0.1963           |                       |
| 15 minute winter               | SWMH3      | 1.003 | SWMH4      | 49.8             | 1.799             | 0.958    | 0.4326           |                       |
| 15 minute winter               | SWMH4      | 1.004 | SWMH5      | 66.0             | 2.333             | 0.383    | 0.1921           |                       |
| 60 minute winter               | SWMH5      | 1.005 | ATT        | 30.2             | 1.283             | 0.462    | 0.2524           |                       |
| 60 minute winter               | ATT        | 1.006 | SWMH6      | 7.8              | 0.387             | 0.251    | 0.5515           |                       |
| 60 minute winter               | SWMH6      | 1.007 | SWMH7      | 7.0              | 0.739             | 0.204    | 0.2921           |                       |
| 15 minute summer               | SWMH7      | 1.008 | OUTLET     | 7.0              | 0.865             | 0.142    | 0.0493           | 26.4                  |

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.74%**

| 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     |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute winter  | SWMH1      | 11             | 73.375       | 1.000        | 30.9            | 2.0110           | 0.1897        | FLOOD      |
| 15 minute winter  | SWMH2      | 11             | 73.003       | 0.848        | 30.9            | 1.5713           | 0.0000        | SURCHARGED |
| 15 minute winter  | SWMH3      | 11             | 72.705       | 0.672        | 79.0            | 1.2006           | 0.0000        | SURCHARGED |
| 15 minute winter  | SWMH4      | 12             | 72.285       | 0.412        | 104.5           | 0.9646           | 0.0000        | SURCHARGED |
| 60 minute winter  | SWMH5      | 60             | 72.267       | 1.117        | 56.3            | 1.9739           | 0.0000        | SURCHARGED |
| 60 minute winter  | ATT        | 60             | 72.266       | 1.216        | 54.3            | 56.4313          | 0.0000        | SURCHARGED |
| 60 minute winter  | SWMH6      | 60             | 72.263       | 1.263        | 8.5             | 2.2323           | 0.0000        | SURCHARGED |
| 120 minute winter | SWMH7      | 226            | 70.924       | 0.059        | 7.0             | 0.0669           | 0.0000        | OK         |
| 120 minute winter | OUTLET     | 226            | 70.867       | 0.057        | 7.0             | 0.0000           | 0.0000        | OK         |

| Link Event<br>(Upstream Depth) | 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) |
|--------------------------------|------------|-------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 15 minute winter               | SWMH1      | 1.001 | SWMH3      | 23.3             | 1.325             | 1.314    | 0.6018           |                       |
| 15 minute winter               | SWMH2      | 1.002 | SWMH3      | 25.4             | 1.444             | 1.368    | 0.1963           |                       |
| 15 minute winter               | SWMH3      | 1.003 | SWMH4      | 74.0             | 1.861             | 1.425    | 0.6370           |                       |
| 15 minute winter               | SWMH4      | 1.004 | SWMH5      | 98.5             | 2.478             | 0.572    | 0.2649           |                       |
| 60 minute winter               | SWMH5      | 1.005 | ATT        | 54.3             | 1.553             | 0.831    | 0.2524           |                       |
| 60 minute winter               | ATT        | 1.006 | SWMH6      | 8.5              | 0.430             | 0.275    | 0.5515           |                       |
| 60 minute winter               | SWMH6      | 1.007 | SWMH7      | 7.0              | 0.739             | 0.204    | 0.2921           |                       |
| 120 minute winter              | SWMH7      | 1.008 | OUTLET     | 7.0              | 0.865             | 0.142    | 0.0493           | 98.5                  |