

Links

| 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) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|---------------|--------------|
| 4.008 | 49      | 50      | 48.295     | 0.600       | 74.536    | 74.412    | 0.124    | 389.5       | 450      | 6.88          | 45.7         |
| 4.009 | 50      | 51      | 4.770      | 0.600       | 74.412    | 74.400    | 0.012    | 397.5       | 450      | 6.95          | 45.4         |
| 4.010 | 51      | BASIN 1 | 22.768     | 0.600       | 74.400    | 72.600    | 1.800    | 12.6        | 450      | 7.02          | 45.2         |
| 1.019 | BASIN 1 | 52_OUT  | 6.008      | 0.600       | 72.600    | 72.600    | 0.000    | 0.0         | 300      | 7.12          | 44.9         |
| 6.000 | 53      | 54      | 9.008      | 0.600       | 95.172    | 94.763    | 0.409    | 22.0        | 150      | 5.07          | 52.4         |
| 6.001 | 54      | 55      | 22.245     | 0.600       | 94.763    | 93.821    | 0.942    | 23.6        | 150      | 5.25          | 51.7         |
| 6.002 | 55      | 56      | 15.201     | 0.600       | 93.821    | 93.394    | 0.427    | 35.6        | 150      | 5.40          | 51.1         |
| 6.003 | 56      | 57      | 22.348     | 0.600       | 93.394    | 92.796    | 0.598    | 37.4        | 150      | 5.62          | 50.3         |
| 6.004 | 57      | 58      | 17.257     | 0.600       | 92.796    | 91.696    | 1.100    | 15.7        | 150      | 5.74          | 49.9         |
| 6.005 | 58      | 59      | 25.473     | 0.600       | 91.696    | 90.013    | 1.683    | 15.1        | 150      | 5.90          | 49.2         |
| 6.006 | 59      | 60      | 16.422     | 0.600       | 90.013    | 89.114    | 0.899    | 18.3        | 150      | 6.01          | 48.8         |
| 6.007 | 60      | 61      | 48.649     | 0.600       | 89.114    | 85.502    | 3.612    | 13.5        | 150      | 6.31          | 47.7         |
| 6.008 | 61      | 62      | 23.018     | 0.600       | 85.427    | 83.971    | 1.456    | 15.8        | 225      | 6.42          | 47.3         |
| 6.009 | 62      | 63      | 37.067     | 0.600       | 83.971    | 80.428    | 3.543    | 10.5        | 225      | 6.58          | 46.8         |
| 6.010 | 63      | 64      | 17.254     | 0.600       | 80.428    | 79.112    | 1.316    | 13.1        | 225      | 6.66          | 46.5         |
| 6.011 | 64      | 65      | 25.904     | 0.600       | 79.112    | 78.075    | 1.037    | 25.0        | 225      | 6.82          | 45.9         |
| 6.012 | 65      | 71      | 50.059     | 0.600       | 78.075    | 77.075    | 1.000    | 50.1        | 225      | 7.27          | 44.4         |
| 7.000 | 66      | 68      | 27.182     | 0.600       | 82.438    | 79.753    | 2.685    | 10.1        | 225      | 5.11          | 52.2         |
| 8.000 | 67      | 68      | 18.155     | 0.600       | 80.207    | 79.753    | 0.454    | 40.0        | 225      | 5.15          | 52.1         |
| 7.001 | 68      | 69      | 18.086     | 0.600       | 79.678    | 79.604    | 0.074    | 244.4       | 300      | 5.45          | 50.9         |
| 7.002 | 69      | 70      | 35.351     | 0.600       | 79.604    | 77.500    | 2.104    | 16.8        | 300      | 5.60          | 50.4         |
| 7.003 | 70      | 71      | 9.927      | 0.600       | 77.500    | 77.000    | 0.500    | 19.9        | 300      | 5.65          | 50.2         |
| 6.013 | 71      | 71_OUT  | 30.750     | 0.600       | 76.850    | 76.774    | 0.076    | 404.6       | 450      | 7.78          | 42.8         |
| 9.000 | 72      | 73      | 24.946     | 0.600       | 99.511    | 97.797    | 1.714    | 14.6        | 225      | 5.12          | 52.2         |

| Name  | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Add Inflow (l/s) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------|-----------|------------|--------------|--------------|-------------|--------------------|----------------|--------------------|
| 4.008 | 1.024     | 162.8     | 63.9       | 4.938        | 1.089        | 0.516       | 0.0                | 196            | 0.964              |
| 4.009 | 1.013     | 161.2     | 71.0       | 1.089        | 0.150        | 0.577       | 0.0                | 209            | 0.982              |
| 4.010 | 5.739     | 912.8     | 70.6       | 0.150        | 1.950        | 0.577       | 0.0                | 84             | 3.472              |
| 1.019 | 1.000     | 70.7      | 283.5      | 2.100        | 2.100        | 2.332       | 0.0                | 0              | ∞                  |
| 6.000 | 2.155     | 38.1      | 5.7        | 1.200        | 1.200        | 0.040       | 0.0                | 39             | 1.551              |
| 6.001 | 2.081     | 36.8      | 5.6        | 1.200        | 1.200        | 0.040       | 0.0                | 40             | 1.510              |
| 6.002 | 1.692     | 29.9      | 5.5        | 1.200        | 1.200        | 0.040       | 0.0                | 44             | 1.297              |
| 6.003 | 1.651     | 29.2      | 9.5        | 1.200        | 1.200        | 0.070       | 0.0                | 59             | 1.479              |
| 6.004 | 2.556     | 45.2      | 9.5        | 1.200        | 1.200        | 0.070       | 0.0                | 47             | 2.030              |
| 6.005 | 2.602     | 46.0      | 13.3       | 1.200        | 1.200        | 0.100       | 0.0                | 55             | 2.262              |
| 6.006 | 2.367     | 41.8      | 13.2       | 1.200        | 1.200        | 0.100       | 0.0                | 58             | 2.101              |
| 6.007 | 2.759     | 48.8      | 12.9       | 1.200        | 1.200        | 0.100       | 0.0                | 52             | 2.333              |
| 6.008 | 3.307     | 131.5     | 20.5       | 1.200        | 1.200        | 0.160       | 0.0                | 60             | 2.432              |
| 6.009 | 4.068     | 161.8     | 20.3       | 1.200        | 1.200        | 0.160       | 0.0                | 53             | 2.792              |
| 6.010 | 3.633     | 144.4     | 20.2       | 1.200        | 1.200        | 0.160       | 0.0                | 57             | 2.584              |
| 6.011 | 2.628     | 104.5     | 19.9       | 1.200        | 1.200        | 0.160       | 0.0                | 66             | 2.038              |
| 6.012 | 1.853     | 73.7      | 19.2       | 1.200        | 1.200        | 0.160       | 0.0                | 79             | 1.569              |
| 7.000 | 4.136     | 164.4     | 5.7        | 1.200        | 2.546        | 0.040       | 0.0                | 29             | 1.957              |
| 8.000 | 2.074     | 82.5      | 5.6        | 1.200        | 2.546        | 0.040       | 0.0                | 40             | 1.203              |
| 7.001 | 1.001     | 70.8      | 31.8       | 2.546        | 1.951        | 0.230       | 0.0                | 141            | 0.975              |
| 7.002 | 3.854     | 272.4     | 39.6       | 1.951        | 2.548        | 0.290       | 0.0                | 76             | 2.768              |
| 7.003 | 3.544     | 250.5     | 53.1       | 2.548        | 1.200        | 0.390       | 0.0                | 93             | 2.835              |
| 6.013 | 1.004     | 159.7     | 63.8       | 1.200        | 1.276        | 0.550       | 0.0                | 197            | 0.950              |
| 9.000 | 3.447     | 137.1     | 7.8        | 1.200        | 1.200        | 0.055       | 0.0                | 36             | 1.895              |

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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) |
|-------|---------------|----------------|-------------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------|
| 1.000 | 12.610        | 9.5            | 225         | DSG Pipe     | 94.978       | 93.553       | 1.200           | 93.654       | 92.229       | 1.200           |
| 1.001 | 16.277        | 11.0           | 225         | DSG Pipe     | 93.654       | 92.229       | 1.200           | 92.175       | 90.750       | 1.200           |
| 1.002 | 9.178         | 16.4           | 225         | DSG Pipe     | 92.175       | 90.750       | 1.200           | 91.617       | 90.192       | 1.200           |
| 1.003 | 10.302        | 15.9           | 225         | DSG Pipe     | 91.617       | 90.192       | 1.200           | 90.971       | 89.546       | 1.200           |
| 1.004 | 15.519        | 22.8           | 225         | DSG Pipe     | 90.971       | 89.546       | 1.200           | 90.291       | 88.866       | 1.200           |
| 2.000 | 18.665        | 16.2           | 225         | DSG Pipe     | 92.631       | 91.206       | 1.200           | 91.482       | 90.057       | 1.200           |
| 2.001 | 23.975        | 20.1           | 225         | DSG Pipe     | 91.482       | 90.057       | 1.200           | 90.291       | 88.866       | 1.200           |
| 1.005 | 26.167        | 32.8           | 300         | DSG Pipe     | 90.291       | 88.791       | 1.200           | 89.494       | 87.994       | 1.200           |
| 1.006 | 23.235        | 33.9           | 300         | DSG Pipe     | 89.494       | 87.994       | 1.200           | 88.809       | 87.309       | 1.200           |
| 1.007 | 31.986        | 30.3           | 375         | DSG Pipe     | 88.809       | 87.234       | 1.200           | 87.754       | 86.179       | 1.200           |
| 1.008 | 37.649        | 20.5           | 375         | DSG Pipe     | 87.754       | 86.179       | 1.200           | 85.914       | 84.339       | 1.200           |
| 1.009 | 31.724        | 17.0           | 375         | DSG Pipe     | 85.914       | 84.339       | 1.200           | 84.050       | 82.475       | 1.200           |
| 1.010 | 30.015        | 29.0           | 450         | DSG Pipe     | 84.050       | 82.400       | 1.200           | 83.014       | 81.364       | 1.200           |
| 1.011 | 13.697        | 57.6           | 450         | DSG Pipe     | 83.014       | 81.364       | 1.200           | 82.776       | 81.126       | 1.200           |
| 1.012 | 29.483        | 22.7           | 450         | DSG Pipe     | 82.776       | 81.126       | 1.200           | 81.478       | 79.828       | 1.200           |
| 1.013 | 18.310        | 22.1           | 450         | DSG Pipe     | 81.478       | 79.828       | 1.200           | 80.651       | 79.001       | 1.200           |
| 1.014 | 14.634        | 22.5           | 450         | DSG Pipe     | 80.651       | 79.001       | 1.200           | 80.002       | 78.352       | 1.200           |
| 1.015 | 29.778        | 22.2           | 450         | DSG Pipe     | 80.002       | 78.352       | 1.200           | 78.660       | 77.010       | 1.200           |
| 1.016 | 15.162        | 22.6           | 450         | DSG Pipe     | 78.660       | 77.010       | 1.200           | 77.990       | 76.340       | 1.200           |
| 1.017 | 17.658        | 9.1            | 450         | DSG Pipe     | 77.990       | 76.340       | 1.200           | 75.000       | 74.400       | 0.150           |
| 1.018 | 22.944        | 12.7           | 450         | DSG Pipe     | 75.000       | 74.400       | 0.150           | 75.000       | 72.600       | 1.950           |
| 3.000 | 10.534        | 167.2          | 225         | DSG Pipe     | 96.946       | 95.521       | 1.200           | 97.465       | 95.458       | 1.782           |
| 3.001 | 19.492        | 34.1           | 225         | DSG Pipe     | 97.465       | 95.458       | 1.782           | 96.311       | 94.886       | 1.200           |
| 3.002 | 31.430        | 16.1           | 225         | DSG Pipe     | 96.311       | 94.886       | 1.200           | 94.362       | 92.937       | 1.200           |
| 3.003 | 22.163        | 14.6           | 225         | DSG Pipe     | 94.362       | 92.937       | 1.200           | 92.844       | 91.419       | 1.200           |

| 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   |
|-------|------------|-------------|--------------|--------------|------------|-------------|--------------|--------------|
| 1.000 | 1          | 1200        | Manhole      | DSG Manholes | 2          | 1200        | Manhole      | DSG Manholes |
| 1.001 | 2          | 1200        | Manhole      | DSG Manholes | 3          | 1200        | Manhole      | DSG Manholes |
| 1.002 | 3          | 1200        | Manhole      | DSG Manholes | 4          | 1200        | Manhole      | DSG Manholes |
| 1.003 | 4          | 1200        | Manhole      | DSG Manholes | 5          | 1200        | Manhole      | DSG Manholes |
| 1.004 | 5          | 1200        | Manhole      | DSG Manholes | 8          | 1200        | Manhole      | DSG Manholes |
| 2.000 | 6          | 1200        | Manhole      | DSG Manholes | 7          | 1200        | Manhole      | DSG Manholes |
| 2.001 | 7          | 1200        | Manhole      | DSG Manholes | 8          | 1200        | Manhole      | DSG Manholes |
| 1.005 | 8          | 1200        | Manhole      | DSG Manholes | 9          | 1200        | Manhole      | DSG Manholes |
| 1.006 | 9          | 1200        | Manhole      | DSG Manholes | 10         | 1350        | Manhole      | DSG Manholes |
| 1.007 | 10         | 1350        | Manhole      | DSG Manholes | 11         | 1350        | Manhole      | DSG Manholes |
| 1.008 | 11         | 1350        | Manhole      | DSG Manholes | 12         | 1350        | Manhole      | DSG Manholes |
| 1.009 | 12         | 1350        | Manhole      | DSG Manholes | 13         | 1350        | Manhole      | DSG Manholes |
| 1.010 | 13         | 1350        | Manhole      | DSG Manholes | 14         | 1350        | Manhole      | DSG Manholes |
| 1.011 | 14         | 1350        | Manhole      | DSG Manholes | 15         | 1350        | Manhole      | DSG Manholes |
| 1.012 | 15         | 1350        | Manhole      | DSG Manholes | 16         | 1350        | Manhole      | DSG Manholes |
| 1.013 | 16         | 1350        | Manhole      | DSG Manholes | 17         | 1350        | Manhole      | DSG Manholes |
| 1.014 | 17         | 1350        | Manhole      | DSG Manholes | 18         | 1350        | Manhole      | DSG Manholes |
| 1.015 | 18         | 1350        | Manhole      | DSG Manholes | 19         | 1350        | Manhole      | DSG Manholes |
| 1.016 | 19         | 1350        | Manhole      | DSG Manholes | 20         | 1350        | Manhole      | DSG Manholes |
| 1.017 | 20         | 1350        | Manhole      | DSG Manholes | 21         |             | Junction     |              |
| 1.018 | 21         |             | Junction     |              | BASIN 1    |             | Junction     |              |
| 3.000 | 22         | 1200        | Manhole      | DSG Manholes | 23         | 1200        | Manhole      | DSG Manholes |
| 3.001 | 23         | 1200        | Manhole      | DSG Manholes | 24         | 1200        | Manhole      | DSG Manholes |
| 3.002 | 24         | 1200        | Manhole      | DSG Manholes | 25         | 1200        | Manhole      | DSG Manholes |
| 3.003 | 25         | 1200        | Manhole      | DSG Manholes | 26         | 1200        | Manhole      | DSG Manholes |

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) |
|-------|---------------|----------------|-------------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------|
| 3.004 | 15.317        | 14.7           | 225         | DSG Pipe     | 92.844       | 91.419       | 1.200           | 91.805       | 90.380       | 1.200           |
| 3.005 | 13.775        | 14.6           | 300         | DSG Pipe     | 91.805       | 90.305       | 1.200           | 90.861       | 89.361       | 1.200           |
| 3.006 | 34.996        | 15.0           | 300         | DSG Pipe     | 90.861       | 89.361       | 1.200           | 88.530       | 87.030       | 1.200           |
| 3.007 | 10.027        | 15.9           | 300         | DSG Pipe     | 88.530       | 87.030       | 1.200           | 87.898       | 86.398       | 1.200           |
| 3.008 | 7.104         | 16.5           | 300         | DSG Pipe     | 87.898       | 86.398       | 1.200           | 87.468       | 85.968       | 1.200           |
| 3.009 | 7.604         | 16.2           | 375         | DSG Pipe     | 87.468       | 85.893       | 1.200           | 87.000       | 85.425       | 1.200           |
| 3.010 | 21.743        | 15.1           | 375         | DSG Pipe     | 87.000       | 85.425       | 1.200           | 85.560       | 83.985       | 1.200           |
| 3.011 | 32.562        | 14.9           | 375         | DSG Pipe     | 85.560       | 83.985       | 1.200           | 83.381       | 81.806       | 1.200           |
| 3.012 | 35.528        | 15.0           | 375         | DSG Pipe     | 83.381       | 81.806       | 1.200           | 81.009       | 79.434       | 1.200           |
| 3.013 | 17.432        | 15.2           | 375         | DSG Pipe     | 81.009       | 79.434       | 1.200           | 79.859       | 78.284       | 1.200           |
| 3.014 | 17.208        | 15.4           | 375         | DSG Pipe     | 79.859       | 78.284       | 1.200           | 78.739       | 77.164       | 1.200           |
| 3.015 | 19.219        | 7.0            | 375         | DSG Pipe     | 78.739       | 77.164       | 1.200           | 75.000       | 74.400       | 0.225           |
| 3.016 | 31.026        | 18.0           | 450         | DSG Pipe     | 75.000       | 74.325       | 0.225           | 75.000       | 72.600       | 1.950           |
| 4.000 | 15.133        | 19.0           | 225         | DSG Pipe     | 84.251       | 82.826       | 1.200           | 83.456       | 82.031       | 1.200           |
| 4.001 | 16.924        | 31.8           | 225         | DSG Pipe     | 83.456       | 82.031       | 1.200           | 82.924       | 81.499       | 1.200           |
| 4.002 | 19.625        | 45.2           | 225         | DSG Pipe     | 82.924       | 81.499       | 1.200           | 82.490       | 81.065       | 1.200           |
| 4.003 | 23.021        | 37.1           | 225         | DSG Pipe     | 82.490       | 81.065       | 1.200           | 81.869       | 80.444       | 1.200           |
| 4.004 | 24.454        | 21.1           | 300         | DSG Pipe     | 81.869       | 80.369       | 1.200           | 80.709       | 79.209       | 1.200           |
| 4.005 | 21.768        | 19.8           | 300         | DSG Pipe     | 80.709       | 79.209       | 1.200           | 79.610       | 78.110       | 1.200           |
| 4.006 | 22.557        | 6.7            | 300         | DSG Pipe     | 79.610       | 78.110       | 1.200           | 78.476       | 74.724       | 3.452           |
| 5.000 | 36.490        | 243.3          | 300         | DSG Pipe     | 76.263       | 74.911       | 1.052           | 78.034       | 74.761       | 2.973           |
| 5.001 | 8.899         | 240.5          | 300         | DSG Pipe     | 78.034       | 74.761       | 2.973           | 78.476       | 74.724       | 3.452           |
| 4.007 | 15.445        | 406.4          | 450         | DSG Pipe     | 78.476       | 74.574       | 3.452           | 79.924       | 74.536       | 4.938           |
| 4.008 | 48.295        | 389.5          | 450         | DSG Pipe     | 79.924       | 74.536       | 4.938           | 75.951       | 74.412       | 1.089           |
| 4.009 | 4.770         | 397.5          | 450         | DSG Pipe     | 75.951       | 74.412       | 1.089           | 75.000       | 74.400       | 0.150           |

| 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   |
|-------|------------|-------------|--------------|--------------|------------|-------------|--------------|--------------|
| 3.004 | 26         | 1200        | Manhole      | DSG Manholes | 27         | 1200        | Manhole      | DSG Manholes |
| 3.005 | 27         | 1200        | Manhole      | DSG Manholes | 28         | 1200        | Manhole      | DSG Manholes |
| 3.006 | 28         | 1200        | Manhole      | DSG Manholes | 29         | 1200        | Manhole      | DSG Manholes |
| 3.007 | 29         | 1200        | Manhole      | DSG Manholes | 30         | 1200        | Manhole      | DSG Manholes |
| 3.008 | 30         | 1200        | Manhole      | DSG Manholes | 31         | 1350        | Manhole      | DSG Manholes |
| 3.009 | 31         | 1350        | Manhole      | DSG Manholes | 32         | 1350        | Manhole      | DSG Manholes |
| 3.010 | 32         | 1350        | Manhole      | DSG Manholes | 33         | 1350        | Manhole      | DSG Manholes |
| 3.011 | 33         | 1350        | Manhole      | DSG Manholes | 34         | 1350        | Manhole      | DSG Manholes |
| 3.012 | 34         | 1350        | Manhole      | DSG Manholes | 35         | 1350        | Manhole      | DSG Manholes |
| 3.013 | 35         | 1350        | Manhole      | DSG Manholes | 36         | 1350        | Manhole      | DSG Manholes |
| 3.014 | 36         | 1350        | Manhole      | DSG Manholes | 37         | 1350        | Manhole      | DSG Manholes |
| 3.015 | 37         | 1350        | Manhole      | DSG Manholes | 38         |             | Junction     |              |
| 3.016 | 38         |             | Junction     |              | BASIN 1    |             | Junction     |              |
| 4.000 | 39         | 1200        | Manhole      | DSG Manholes | 40         | 1200        | Manhole      | DSG Manholes |
| 4.001 | 40         | 1200        | Manhole      | DSG Manholes | 41         | 1200        | Manhole      | DSG Manholes |
| 4.002 | 41         | 1200        | Manhole      | DSG Manholes | 42         | 1200        | Manhole      | DSG Manholes |
| 4.003 | 42         | 1200        | Manhole      | DSG Manholes | 43         | 1200        | Manhole      | DSG Manholes |
| 4.004 | 43         | 1200        | Manhole      | DSG Manholes | 44         | 1200        | Manhole      | DSG Manholes |
| 4.005 | 44         | 1200        | Manhole      | DSG Manholes | 45         | 1200        | Manhole      | DSG Manholes |
| 4.006 | 45         | 1200        | Manhole      | DSG Manholes | 48         | 1350        | Manhole      | DSG Manholes |
| 5.000 | 46         | 1200        | Manhole      | DSG Manholes | 47         | 1200        | Manhole      | DSG Manholes |
| 5.001 | 47         | 1200        | Manhole      | DSG Manholes | 48         | 1350        | Manhole      | DSG Manholes |
| 4.007 | 48         | 1350        | Manhole      | DSG Manholes | 49         | 1350        | Manhole      | DSG Manholes |
| 4.008 | 49         | 1350        | Manhole      | DSG Manholes | 50         | 1350        | Manhole      | DSG Manholes |
| 4.009 | 50         | 1350        | Manhole      | DSG Manholes | 51         |             | Junction     |              |

| Pipeline Schedule |            |             |          |           |           |           |              |           |           |              |
|-------------------|------------|-------------|----------|-----------|-----------|-----------|--------------|-----------|-----------|--------------|
| Link              | Length (m) | Slope (1:X) | Dia (mm) | Link Type | US CL (m) | US IL (m) | US Depth (m) | DS CL (m) | DS IL (m) | DS Depth (m) |
| 4.010             | 22.608     | 12.6        | 450      | DSG Pipe  | 75.000    | 74.400    | 0.150        | 75.000    | 72.600    | 1.950        |
| 1.019             | 6.768      | 0.0         | 300      | DSG Pipe  | 75.000    | 72.600    | 2.100        | 75.000    | 72.600    | 1.200        |
| 6.000             | 9.008      | 22.0        | 150      | DSG Pipe  | 96.522    | 95.172    | 1.200        | 96.113    | 94.763    | 1.200        |
| 6.001             | 22.245     | 23.6        | 150      | DSG Pipe  | 96.113    | 94.763    | 1.200        | 95.171    | 93.821    | 1.200        |
| 6.002             | 15.201     | 35.6        | 150      | DSG Pipe  | 95.171    | 93.821    | 1.200        | 94.744    | 93.394    | 1.200        |
| 6.003             | 22.348     | 37.4        | 150      | DSG Pipe  | 94.744    | 93.394    | 1.200        | 94.146    | 92.796    | 1.200        |
| 6.004             | 17.257     | 15.7        | 150      | DSG Pipe  | 94.146    | 92.796    | 1.200        | 93.046    | 91.696    | 1.200        |
| 6.005             | 25.475     | 15.1        | 150      | DSG Pipe  | 93.046    | 91.696    | 1.200        | 91.363    | 90.013    | 1.200        |
| 6.006             | 16.422     | 18.3        | 150      | DSG Pipe  | 91.363    | 90.013    | 1.200        | 90.464    | 89.114    | 1.200        |
| 6.007             | 48.649     | 13.5        | 150      | DSG Pipe  | 90.464    | 89.114    | 1.200        | 86.852    | 85.502    | 1.200        |
| 6.008             | 23.018     | 15.8        | 225      | DSG Pipe  | 86.852    | 85.427    | 1.200        | 85.396    | 83.971    | 1.200        |
| 6.009             | 37.067     | 10.5        | 225      | DSG Pipe  | 85.396    | 83.971    | 1.200        | 81.853    | 80.428    | 1.200        |
| 6.010             | 17.544     | 13.1        | 225      | DSG Pipe  | 81.853    | 80.428    | 1.200        | 80.537    | 79.112    | 1.200        |
| 6.011             | 25.904     | 25.0        | 225      | DSG Pipe  | 80.537    | 79.112    | 1.200        | 79.500    | 78.075    | 1.200        |
| 6.012             | 50.509     | 50.1        | 225      | DSG Pipe  | 79.500    | 78.075    | 1.200        | 78.500    | 77.075    | 1.200        |
| 7.000             | 27.182     | 10.1        | 225      | DSG Pipe  | 83.863    | 82.438    | 1.200        | 82.524    | 79.753    | 2.546        |
| 8.000             | 18.155     | 40.0        | 225      | DSG Pipe  | 81.632    | 80.207    | 1.200        | 82.524    | 79.753    | 2.546        |
| 7.001             | 18.086     | 244.4       | 300      | DSG Pipe  | 82.524    | 79.678    | 2.546        | 81.855    | 79.604    | 1.951        |
| 7.002             | 35.351     | 16.8        | 300      | DSG Pipe  | 81.855    | 79.678    | 1.951        | 80.348    | 77.500    | 2.548        |
| 7.003             | 9.927      | 19.9        | 300      | DSG Pipe  | 80.348    | 77.500    | 2.548        | 78.500    | 77.000    | 1.200        |
| 6.013             | 30.750     | 404.6       | 450      | DSG Pipe  | 78.500    | 76.850    | 1.200        | 78.500    | 76.774    | 1.276        |
| 9.000             | 24.946     | 14.6        | 225      | DSG Pipe  | 100.936   | 99.511    | 1.200        | 99.222    | 97.797    | 1.200        |
| 9.001             | 33.414     | 14.0        | 225      | DSG Pipe  | 99.222    | 97.959    | 1.200        | 96.830    | 95.405    | 1.200        |
| 9.002             | 28.148     | 14.3        | 225      | DSG Pipe  | 96.830    | 95.405    | 1.200        | 94.856    | 93.431    | 1.200        |
| 9.003             | 29.514     | 15.6        | 300      | DSG Pipe  | 94.856    | 93.356    | 1.200        | 92.969    | 91.469    | 1.200        |

| Link  | US Node | Dia (mm) | Node Type | MH Type      | DS Node | Dia (mm) | Node Type | MH Type      |
|-------|---------|----------|-----------|--------------|---------|----------|-----------|--------------|
| 4.010 | 51      |          | Junction  |              | BASIN 1 |          | Junction  |              |
| 1.019 | BASIN 1 |          | Junction  |              | 52_OUT  |          | Junction  |              |
| 6.000 | 53      | 1200     | Manhole   | DSG Manholes | 54      | 1200     | Manhole   | DSG Manholes |
| 6.001 | 54      | 1200     | Manhole   | DSG Manholes | 55      | 1200     | Manhole   | DSG Manholes |
| 6.002 | 55      | 1200     | Manhole   | DSG Manholes | 56      | 1200     | Manhole   | DSG Manholes |
| 6.003 | 56      | 1200     | Manhole   | DSG Manholes | 57      | 1200     | Manhole   | DSG Manholes |
| 6.004 | 57      | 1200     | Manhole   | DSG Manholes | 58      | 1200     | Manhole   | DSG Manholes |
| 6.005 | 58      | 1200     | Manhole   | DSG Manholes | 59      | 1200     | Manhole   | DSG Manholes |
| 6.006 | 59      | 1200     | Manhole   | DSG Manholes | 60      | 1200     | Manhole   | DSG Manholes |
| 6.007 | 60      | 1200     | Manhole   | DSG Manholes | 61      | 1200     | Manhole   | DSG Manholes |
| 6.008 | 61      | 1200     | Manhole   | DSG Manholes | 62      | 1200     | Manhole   | DSG Manholes |
| 6.009 | 62      | 1200     | Manhole   | DSG Manholes | 63      | 1200     | Manhole   | DSG Manholes |
| 6.010 | 63      | 1200     | Manhole   | DSG Manholes | 64      | 1200     | Manhole   | DSG Manholes |

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) |
|--------|---------------|----------------|-------------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------|
| 10.000 | 10.979        | 14.5           | 225         | DSG Pipe     | 93.727       | 92.302       | 1.200           | 92.969       | 91.544       | 1.200           |
| 9.004  | 14.975        | 14.8           | 300         | DSG Pipe     | 92.969       | 91.469       | 1.200           | 91.954       | 90.454       | 1.200           |
| 9.005  | 13.201        | 14.3           | 300         | DSG Pipe     | 91.954       | 90.454       | 1.200           | 91.028       | 89.528       | 1.200           |
| 9.006  | 9.400         | 14.7           | 375         | DSG Pipe     | 91.028       | 89.453       | 1.200           | 90.390       | 88.815       | 1.200           |
| 11.000 | 13.470        | 17.4           | 225         | DSG Pipe     | 91.162       | 89.737       | 1.200           | 90.390       | 88.965       | 1.200           |
| 9.007  | 12.147        | 17.2           | 375         | DSG Pipe     | 90.390       | 88.815       | 1.200           | 89.685       | 88.110       | 1.200           |
| 9.008  | 10.115        | 19.3           | 375         | DSG Pipe     | 89.685       | 88.110       | 1.200           | 89.160       | 87.585       | 1.200           |
| 9.009  | 8.832         | 32.8           | 375         | DSG Pipe     | 89.160       | 87.585       | 1.200           | 88.891       | 87.316       | 1.200           |
| 12.000 | 15.400        | 15.8           | 225         | DSG Pipe     | 89.863       | 88.438       | 1.200           | 88.891       | 87.466       | 1.200           |
| 9.010  | 12.448        | 16.6           | 375         | DSG Pipe     | 88.891       | 87.316       | 1.200           | 88.140       | 86.565       | 1.200           |
| 9.011  | 15.839        | 16.2           | 375         | DSG Pipe     | 88.140       | 86.565       | 1.200           | 87.160       | 85.585       | 1.200           |
| 9.012  | 8.046         | 15.8           | 375         | DSG Pipe     | 87.160       | 85.585       | 1.200           | 86.652       | 85.077       | 1.200           |
| 9.013  | 25.733        | 16.4           | 450         | DSG Pipe     | 86.652       | 85.002       | 1.200           | 85.082       | 83.432       | 1.200           |
| 9.014  | 15.041        | 23.8           | 450         | DSG Pipe     | 85.082       | 83.432       | 1.200           | 83.500       | 82.800       | 0.250           |
| 9.015  | 20.442        | 14.6           | 450         | DSG Pipe     | 83.500       | 82.800       | 0.250           | 83.500       | 81.400       | 1.650           |

| 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   |
|--------|------------|-------------|--------------|--------------|------------|-------------|--------------|--------------|
| 10.000 | 76         | 1200        | Manhole      | DSG Manholes | 77         | 1200        | Manhole      | DSG Manholes |
| 9.004  | 77         | 1200        | Manhole      | DSG Manholes | 78         | 1200        | Manhole      | DSG Manholes |
| 9.005  | 78         | 1200        | Manhole      | DSG Manholes | 79         | 1350        | Manhole      | DSG Manholes |
| 9.006  | 79         | 1350        | Manhole      | DSG Manholes | 81         | 1350        | Manhole      | DSG Manholes |
| 11.000 | 80         | 1200        | Manhole      | DSG Manholes | 81         | 1350        | Manhole      | DSG Manholes |
| 9.007  | 81         | 1350        | Manhole      | DSG Manholes | 82         | 1350        | Manhole      | DSG Manholes |
| 9.008  | 82         | 1350        | Manhole      | DSG Manholes | 83         | 1350        | Manhole      | DSG Manholes |
| 9.009  | 83         | 1350        | Manhole      | DSG Manholes | 85         | 1350        | Manhole      | DSG Manholes |
| 12.000 | 84         | 1200        | Manhole      | DSG Manholes | 85         | 1350        | Manhole      | DSG Manholes |
| 9.010  | 85         | 1350        | Manhole      | DSG Manholes | 86         | 1350        | Manhole      | DSG Manholes |
| 9.011  | 86         | 1350        | Manhole      | DSG Manholes | 87         | 1350        | Manhole      | DSG Manholes |
| 9.012  | 87         | 1350        | Manhole      | DSG Manholes | 88         | 1350        | Manhole      | DSG Manholes |
| 9.013  | 88         | 1350        | Manhole      | DSG Manholes | 89         | 1350        | Manhole      | DSG Manholes |
| 9.014  | 89         | 1350        | Manhole      | DSG Manholes | 90         |             | Junction     |              |
| 9.015  | 90         |             | Junction     |              | BASIN 2    |             | 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) |     |
|------|----------------|-----------------|-----------|--------------|-------------|-----------------------------------------------------------------------------------|------|-----------|-------------|-----|
| 1    | 537060.531     | 240617.488      | 94.978    | 1.425        | 1200        |  | 0    | 1.000     | 93.553      | 225 |
| 2    | 537049.587     | 240623.753      | 93.654    | 1.425        | 1200        |  | 1    | 1.000     | 92.229      | 225 |
|      |                |                 |           |              |             |                                                                                   | 0    | 1.001     | 92.229      | 225 |
| 3    | 537034.639     | 240630.196      | 92.175    | 1.425        | 1200        |  | 1    | 1.001     | 90.750      | 225 |
|      |                |                 |           |              |             |                                                                                   | 0    | 1.002     | 90.750      | 225 |

**Manhole Schedule**

| Node | Easting (m) | Northing (m) | CL (m) | Depth (m) | Dia (mm) | Connections                                                                        | Link | IL (m)       | Dia (mm) |
|------|-------------|--------------|--------|-----------|----------|------------------------------------------------------------------------------------|------|--------------|----------|
| 4    | 537036.621  | 240639.157   | 91.617 | 1.425     | 1200     |   | 1    | 1.002 90.192 | 225      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.003 90.192 | 225      |
| 5    | 537033.747  | 240649.050   | 90.971 | 1.425     | 1200     |   | 1    | 1.003 89.546 | 225      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.004 89.546 | 225      |
| 6    | 537057.281  | 240690.741   | 92.631 | 1.425     | 1200     |   | 0    | 2.000 91.206 | 225      |
|      |             |              |        |           |          |                                                                                    | 1    | 2.000 90.057 | 225      |
| 7    | 537042.757  | 240679.018   | 91.482 | 1.425     | 1200     |   | 0    | 2.001 90.057 | 225      |
|      |             |              |        |           |          |                                                                                    | 1    | 2.001 88.866 | 225      |
| 8    | 537025.608  | 240662.264   | 90.291 | 1.500     | 1200     |   | 2    | 1.004 88.866 | 225      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.005 88.791 | 300      |
| 9    | 537002.982  | 240649.119   | 89.494 | 1.500     | 1200     |   | 1    | 1.005 87.994 | 300      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.006 87.994 | 300      |
| 10   | 536982.438  | 240638.264   | 88.809 | 1.575     | 1350     |   | 1    | 1.006 87.309 | 300      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.007 87.234 | 375      |
| 11   | 536951.539  | 240629.995   | 87.754 | 1.575     | 1350     |   | 1    | 1.007 86.179 | 375      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.008 86.179 | 375      |
| 12   | 536913.972  | 240627.506   | 85.914 | 1.575     | 1350     |   | 1    | 1.008 84.339 | 375      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.009 84.339 | 375      |
| 13   | 536882.965  | 240634.212   | 84.050 | 1.650     | 1350     |   | 1    | 1.009 82.475 | 375      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.010 82.400 | 450      |
| 14   | 536856.747  | 240648.825   | 83.014 | 1.650     | 1350     |   | 1    | 1.010 81.364 | 450      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.011 81.364 | 450      |
| 15   | 536847.080  | 240658.529   | 82.776 | 1.650     | 1350     |   | 1    | 1.011 81.126 | 450      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.012 81.126 | 450      |
| 16   | 536867.719  | 240679.583   | 81.478 | 1.650     | 1350     |  | 1    | 1.012 79.828 | 450      |
|      |             |              |        |           |          |                                                                                    | 0    | 1.013 79.828 | 450      |

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) |
|------|----------------|-----------------|-----------|--------------|-------------|-------------------------------------------------------------------------------------|------|-----------|-------------|
| 17   | 536878.216     | 240694.585      | 80.651    | 1.650        | 1350        |    | 1    | 1.013     | 79.001 450  |
|      |                |                 |           |              |             |    | 0    | 1.014     | 79.001 450  |
| 18   | 536884.846     | 240707.631      | 80.002    | 1.650        | 1350        |    | 1    | 1.014     | 78.352 450  |
|      |                |                 |           |              |             |    | 0    | 1.015     | 78.352 450  |
| 19   | 536892.028     | 240736.530      | 78.660    | 1.650        | 1350        |    | 1    | 1.015     | 77.010 450  |
|      |                |                 |           |              |             |    | 0    | 1.016     | 77.010 450  |
| 20   | 536895.725     | 240751.234      | 77.990    | 1.650        | 1350        |    | 1    | 1.016     | 76.340 450  |
|      |                |                 |           |              |             |    | 0    | 1.017     | 76.340 450  |
| 21   | 536893.893     | 240768.797      | 75.000    | 0.600        |             |    | 1    | 1.017     | 74.400 450  |
|      |                |                 |           |              |             |    | 0    | 1.018     | 74.400 450  |
| 22   | 537118.929     | 240744.369      | 96.946    | 1.425        | 1200        |    | 0    | 3.000     | 95.521 225  |
| 23   | 537122.640     | 240734.510      | 97.465    | 2.007        | 1200        |    | 1    | 3.000     | 95.458 225  |
|      |                |                 |           |              |             |    | 0    | 3.001     | 95.458 225  |
| 24   | 537105.018     | 240726.180      | 96.311    | 1.425        | 1200        |    | 1    | 3.001     | 94.886 225  |
|      |                |                 |           |              |             |    | 0    | 3.002     | 94.886 225  |
| 25   | 537079.548     | 240707.764      | 94.362    | 1.425        | 1200        |    | 1    | 3.002     | 92.937 225  |
|      |                |                 |           |              |             |    | 0    | 3.003     | 92.937 225  |
| 26   | 537066.487     | 240725.670      | 92.844    | 1.425        | 1200        |    | 1    | 3.003     | 91.419 225  |
|      |                |                 |           |              |             |   | 0    | 3.004     | 91.419 225  |
| 27   | 537062.719     | 240740.516      | 91.805    | 1.500        | 1200        |  | 1    | 3.004     | 90.380 225  |
|      |                |                 |           |              |             |  | 0    | 3.005     | 90.305 300  |
| 28   | 537064.730     | 240754.143      | 90.861    | 1.500        | 1200        |  | 1    | 3.005     | 89.361 300  |
|      |                |                 |           |              |             |  | 0    | 3.006     | 89.361 300  |
| 29   | 537075.147     | 240787.553      | 88.530    | 1.500        | 1200        |  | 1    | 3.006     | 87.030 300  |
|      |                |                 |           |              |             |  | 0    | 3.007     | 87.030 300  |

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) |     |
|------|----------------|-----------------|-----------|--------------|-------------|-------------------------------------------------------------------------------------|------|-----------|-------------|-----|
| 30   | 537073.845     | 240797.495      | 87.898    | 1.500        | 1200        |    | 1    | 3.007     | 86.398      | 300 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.008     | 86.398      | 300 |
| 31   | 537068.908     | 240802.603      | 87.468    | 1.575        | 1350        |    | 1    | 3.008     | 85.968      | 300 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.009     | 85.893      | 375 |
| 32   | 537061.469     | 240804.180      | 87.000    | 1.575        | 1350        |    | 1    | 3.009     | 85.425      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.010     | 85.425      | 375 |
| 33   | 537039.837     | 240801.986      | 85.560    | 1.575        | 1350        |    | 1    | 3.010     | 83.985      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.011     | 83.985      | 375 |
| 34   | 537007.510     | 240798.078      | 83.381    | 1.575        | 1350        |    | 1    | 3.011     | 81.806      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.012     | 81.806      | 375 |
| 35   | 536972.098     | 240795.210      | 81.009    | 1.575        | 1350        |    | 1    | 3.012     | 79.434      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.013     | 79.434      | 375 |
| 36   | 536954.782     | 240793.203      | 79.859    | 1.575        | 1350        |    | 1    | 3.013     | 78.284      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.014     | 78.284      | 375 |
| 37   | 536939.447     | 240785.396      | 78.739    | 1.575        | 1350        |    | 1    | 3.014     | 77.164      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.015     | 77.164      | 375 |
| 38   | 536920.228     | 240785.296      | 75.000    | 0.675        |             |    | 1    | 3.015     | 74.400      | 375 |
|      |                |                 |           |              |             |                                                                                     | 0    | 3.016     | 74.325      | 450 |
| 39   | 536807.184     | 240632.358      | 84.251    | 1.425        | 1200        |    | 0    | 4.000     | 82.826      | 225 |
| 40   | 536809.120     | 240647.367      | 83.456    | 1.425        | 1200        |   | 1    | 4.000     | 82.031      | 225 |
|      |                |                 |           |              |             |                                                                                     | 0    | 4.001     | 82.031      | 225 |
| 41   | 536818.158     | 240661.676      | 82.924    | 1.425        | 1200        |  | 1    | 4.001     | 81.499      | 225 |
|      |                |                 |           |              |             |                                                                                     | 0    | 4.002     | 81.499      | 225 |
| 42   | 536834.242     | 240672.920      | 82.490    | 1.425        | 1200        |  | 1    | 4.002     | 81.065      | 225 |
|      |                |                 |           |              |             |                                                                                     | 0    | 4.003     | 81.065      | 225 |

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) |
|---------|----------------|-----------------|-----------|--------------|-------------|-------------------------------------------------------------------------------------|------|-----------|-------------|
| 43      | 536823.053     | 240693.039      | 81.869    | 1.500        | 1200        |    | 1    | 4.003     | 80.444 225  |
|         |                |                 |           |              |             |    | 0    | 4.004     | 80.369 300  |
| 44      | 536816.705     | 240716.655      | 80.709    | 1.500        | 1200        |    | 1    | 4.004     | 79.209 300  |
|         |                |                 |           |              |             |    | 0    | 4.005     | 79.209 300  |
| 45      | 536815.468     | 240738.388      | 79.610    | 1.500        | 1200        |    | 1    | 4.005     | 78.110 300  |
|         |                |                 |           |              |             |    | 0    | 4.006     | 78.110 300  |
| 46      | 536816.649     | 240806.310      | 76.263    | 1.352        | 1200        |    | 0    | 5.000     | 74.911 300  |
| 47      | 536815.377     | 240769.842      | 78.034    | 3.273        | 1200        |    | 1    | 5.000     | 74.761 300  |
|         |                |                 |           |              |             |    | 0    | 5.001     | 74.761 300  |
| 48      | 536815.569     | 240760.945      | 78.476    | 3.902        | 1350        |    | 1    | 5.001     | 74.724 300  |
|         |                |                 |           |              |             |    | 2    | 4.006     | 74.724 300  |
|         |                |                 |           |              |             |    | 0    | 4.007     | 74.574 450  |
| 49      | 536831.008     | 240761.375      | 79.924    | 5.388        | 1350        |    | 1    | 4.007     | 74.536 450  |
|         |                |                 |           |              |             |    | 0    | 4.008     | 74.536 450  |
| 50      | 536879.080     | 240766.009      | 75.951    | 1.539        | 1350        |    | 1    | 4.008     | 74.412 450  |
|         |                |                 |           |              |             |    | 0    | 4.009     | 74.412 450  |
| 51      | 536880.937     | 240770.403      | 75.000    | 0.600        |             |    | 1    | 4.009     | 74.400 450  |
|         |                |                 |           |              |             |    | 0    | 4.010     | 74.400 450  |
| BASIN 1 | 536889.803     | 240791.374      | 75.000    | 2.400        |             |    | 1    | 4.010     | 72.600 450  |
|         |                |                 |           |              |             |    | 2    | 3.016     | 72.600 450  |
|         |                |                 |           |              |             |   | 3    | 1.018     | 72.600 450  |
|         |                |                 |           |              |             |   | 0    | 1.019     | 72.600 300  |
| 52_OUT  | 536890.995     | 240797.263      | 75.000    | 2.400        |             |  | 1    | 1.019     | 72.600 300  |
|         |                |                 |           |              |             |  | 0    | 6.000     | 95.172 150  |
| 53      | 536731.467     | 240523.032      | 96.522    | 1.350        | 1200        |  | 1    | 6.000     | 94.763 150  |
|         |                |                 |           |              |             |  | 0    | 6.001     | 94.763 150  |

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) |
|------|----------------|-----------------|-----------|--------------|-------------|------------------------------------------------------------------------------------|------|--------------|-------------|
| 55   | 536728.540     | 240553.723      | 95.171    | 1.350        | 1200        |   | 1    | 6.001 93.821 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.002 93.821 | 150         |
| 56   | 536725.248     | 240568.563      | 94.744    | 1.350        | 1200        |   | 1    | 6.002 93.394 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.003 93.394 | 150         |
| 57   | 536719.628     | 240590.193      | 94.146    | 1.350        | 1200        |   | 1    | 6.003 92.796 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.004 92.796 | 150         |
| 58   | 536723.303     | 240607.054      | 93.046    | 1.350        | 1200        |   | 1    | 6.004 91.696 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.005 91.696 | 150         |
| 59   | 536722.337     | 240632.509      | 91.363    | 1.350        | 1200        |   | 1    | 6.005 90.013 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.006 90.013 | 150         |
| 60   | 536715.768     | 240647.560      | 90.464    | 1.350        | 1200        |   | 1    | 6.006 89.114 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.007 89.114 | 150         |
| 61   | 536709.768     | 240695.838      | 86.852    | 1.425        | 1200        |   | 1    | 6.007 85.502 | 150         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.008 85.427 | 225         |
| 62   | 536709.217     | 240718.849      | 85.396    | 1.425        | 1200        |   | 1    | 6.008 83.971 | 225         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.009 83.971 | 225         |
| 63   | 536705.290     | 240755.707      | 81.853    | 1.425        | 1200        |   | 1    | 6.009 80.428 | 225         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.010 80.428 | 225         |
| 64   | 536701.708     | 240772.585      | 80.537    | 1.425        | 1200        |   | 1    | 6.010 79.112 | 225         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.011 79.112 | 225         |
| 65   | 536701.708     | 240798.489      | 79.500    | 1.425        | 1200        |   | 1    | 6.011 78.075 | 225         |
|      |                |                 |           |              |             |                                                                                    | 0    | 6.012 78.075 | 225         |
| 66   | 536727.661     | 240731.756      | 83.863    | 1.425        | 1200        |   |      |              |             |
|      |                |                 |           |              |             |                                                                                    | 0    | 7.000 82.438 | 225         |
| 67   | 536772.766     | 240736.341      | 81.632    | 1.425        | 1200        |  |      |              |             |
|      |                |                 |           |              |             |                                                                                    | 0    | 8.000 80.207 | 225         |

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)                |                   |
|--------|----------------|-----------------|-----------|--------------|-------------|------------------------------------------------------------------------------------|-------------|---------------------------|----------------------------|-------------------|
| 68     | 536754.699     | 240734.554      | 82.524    | 2.846        | 1200        |   | 1<br>2      | 8.000<br>7.000            | 79.753<br>79.753           | 225<br>225        |
| 69     | 536752.644     | 240752.523      | 81.855    | 2.251        | 1200        |   | 0<br>1      | 7.001<br>7.001            | 79.678<br>79.604           | 300<br>300        |
| 70     | 536751.667     | 240787.860      | 80.348    | 2.848        | 1200        |   | 0<br>1      | 7.002<br>7.002            | 79.604<br>77.500           | 300<br>300        |
| 71     | 536751.762     | 240797.787      | 78.500    | 1.650        | 1350        |   | 0<br>1<br>2 | 7.003<br>7.003<br>6.012   | 77.500<br>77.000<br>77.075 | 300<br>300<br>225 |
| 71_OUT | 536782.506     | 240798.399      | 78.500    | 1.726        | 1350        |   | 0<br>1      | 6.013<br>6.013            | 76.850<br>76.774           | 450<br>450        |
| 72     | 536740.107     | 240444.404      | 100.936   | 1.425        | 1200        |   | 0           | 9.000                     | 99.511                     | 225               |
| 73     | 536764.798     | 240447.960      | 99.222    | 1.425        | 1200        |   | 1<br>0      | 9.000<br>9.001            | 97.797<br>97.797           | 225<br>225        |
| 74     | 536795.789     | 240460.453      | 96.830    | 1.425        | 1200        |   | 1<br>0      | 9.001<br>9.002            | 95.405<br>95.405           | 225<br>225        |
| 75     | 536817.567     | 240478.287      | 94.856    | 1.500        | 1200        |   | 1<br>0      | 9.002<br>9.002            | 93.431<br>93.431           | 225<br>225        |
| 76     | 536844.328     | 240496.032      | 93.727    | 1.425        | 1200        |   | 0           | 9.003                     | 93.356                     | 300               |
| 77     | 536835.121     | 240502.013      | 92.969    | 1.500        | 1200        |   | 0<br>1<br>2 | 10.000<br>10.000<br>9.003 | 92.302<br>91.544<br>91.469 | 225<br>225<br>300 |
| 78     | 536824.411     | 240512.479      | 91.954    | 1.500        | 1200        |   | 0<br>1      | 9.004<br>9.004            | 91.469<br>90.454           | 300<br>300        |
| 79     | 536819.123     | 240524.575      | 91.028    | 1.575        | 1350        |  | 0<br>1<br>0 | 9.005<br>9.005<br>9.006   | 90.454<br>89.528<br>89.453 | 300<br>300<br>375 |

Manhole Schedule

| Node    | Easting (m) | Northing (m) | CL (m) | Depth (m) | Dia (mm) | Connections                                                                        | Link        | IL (m)                   | Dia (mm)                       |
|---------|-------------|--------------|--------|-----------|----------|------------------------------------------------------------------------------------|-------------|--------------------------|--------------------------------|
| 80      | 536803.562  | 240533.239   | 91.162 | 1.425     | 1200     |   | 0           | 11.000                   | 89.737 225                     |
| 81      | 536817.023  | 240533.737   | 90.390 | 1.575     | 1350     |   | 1<br>2<br>0 | 11.000<br>9.006<br>9.007 | 88.965<br>88.815<br>88.815 375 |
| 82      | 536816.407  | 240545.868   | 89.685 | 1.575     | 1350     |   | 1<br>0      | 9.007<br>9.008           | 88.815<br>88.110 375           |
| 83      | 536820.101  | 240555.284   | 89.160 | 1.575     | 1350     |   | 1<br>0      | 9.008<br>9.008           | 88.110<br>87.585 375           |
| 84      | 536838.757  | 240555.173   | 89.863 | 1.425     | 1200     |   | 0<br>1      | 12.000<br>12.000         | 88.438<br>87.466 225           |
| 85      | 536825.207  | 240562.491   | 88.891 | 1.575     | 1350     |   | 0<br>1<br>2 | 9.009<br>9.010<br>9.010  | 87.316<br>87.316<br>86.565 375 |
| 86      | 536815.828  | 240570.675   | 88.140 | 1.575     | 1350     |   | 0<br>1      | 9.011<br>9.011           | 86.565<br>85.585 375           |
| 87      | 536808.730  | 240584.835   | 87.160 | 1.575     | 1350     |   | 0<br>1      | 9.012<br>9.012           | 85.585<br>85.077 375           |
| 88      | 536807.607  | 240592.802   | 86.652 | 1.650     | 1350     |   | 0<br>1      | 9.013<br>9.013           | 85.002<br>83.432 450           |
| 89      | 536807.491  | 240618.535   | 85.082 | 1.650     | 1350     |   | 0<br>1      | 9.014<br>9.014           | 83.432<br>82.800 450           |
| 90      | 536817.784  | 240629.503   | 83.500 | 0.700     |          |   | 0<br>1      | 9.015<br>9.015           | 82.800<br>81.400 450           |
| BASIN 2 | 536834.494  | 240641.278   | 83.500 | 2.100     |          |   | 1           | 9.015                    | 81.400 450                     |
| BASIN 3 | 536818.093  | 240509.174   | 92.000 | 0.600     |          |  |             |                          |                                |

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CONSULTING ENGINEERS

Ingent Consulting Engineers  
1a Greenwood Court  
Bury St Edmunds  
IP327GY

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Kieran Kincaid  
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Manhole Schedule

| Node    | Easting (m) | Northing (m) | CL (m) | Depth (m) | Dia (mm) | Connections | Link | IL (m) | Dia (mm) |
|---------|-------------|--------------|--------|-----------|----------|-------------|------|--------|----------|
| BASIN 4 | 536836.536  | 240484.789   | 92.000 | 0.600     |          | •           |      |        |          |
| BASIN 5 | 537082.348  | 240585.547   | 92.000 | 0.600     |          |             |      |        |          |
| BASIN 6 | 537077.102  | 240566.757   | 92.000 | 0.600     |          |             |      |        |          |

Simulation Settings

|                      |        |                |        |                        |       |                            |     |                          |   |
|----------------------|--------|----------------|--------|------------------------|-------|----------------------------|-----|--------------------------|---|
| Rainfall Methodology | FEH-22 | Winter CV      | 0.840  | Skip Steady State      | x     | Additional Storage (m³/ha) | 0.0 | Check Discharge Volume   | ✓ |
| Summer CV            | 0.750  | Analysis Speed | Normal | Drain Down Time (mins) | 10080 | Check Discharge Rate(s)    | ✓   | 100 year 360 minute (m³) |   |

Storm Durations

|    |    |    |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |       |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-------|
| 15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160 | 2880 | 4320 | 5760 | 7200 | 8640 | 10080 |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-------|

|                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) | Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) | Return Period (years) | Climate Change (CC %) | Additional Area (A %) | Additional Flow (Q %) |
| 2                     | 0                     | 0                     | 0                     | 30                    | 35                    | 0                     | 0                     | 100                   | 40                    | 10                    | 0                     |

Pre-development Discharge Rate

|                              |            |            |        |                       |                        |                |                  |
|------------------------------|------------|------------|--------|-----------------------|------------------------|----------------|------------------|
| Site Makeup                  | Greenfield | SAAR (mm)  | Region | 1                     | Growth Factor 100 year | 2.48           | Q 1 year (l/s)   |
| Greenfield Method            | IH124      | Soil Index | 1      | Growth Factor 1 year  | 0.85                   | Betterment (%) | 0                |
| Positively Drained Area (ha) |            | SPR        | 0.10   | Growth Factor 30 year | 1.95                   | QBar           | Q 30 year (l/s)  |
|                              |            |            |        |                       |                        |                | Q 100 year (l/s) |

Pre-development Discharge Volume

|                   |            |                              |     |      |                       |     |                       |     |                    |
|-------------------|------------|------------------------------|-----|------|-----------------------|-----|-----------------------|-----|--------------------|
| Site Makeup       | Greenfield | Positively Drained Area (ha) | SPR | 0.10 | Return Period (years) | 100 | Storm Duration (mins) | 360 | PR                 |
| Greenfield Method | FSR/FEH    | Soil Index                   | 1   | CWI  | Climate Change (%)    | 0   | Betterment (%)        | 0   | Runoff Volume (m³) |

Node 71\_OUT Online Weir Control

|            |   |                          |   |                  |        |           |       |                       |       |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|
| Flap Valve | x | Replaces Downstream Link | ✓ | Invert Level (m) | 78.495 | Width (m) | 1.000 | Discharge Coefficient | 0.590 |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|

Node BASIN 2 Online Weir Control

|            |   |                          |   |                  |        |           |       |                       |       |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|
| Flap Valve | x | Replaces Downstream Link | ✓ | Invert Level (m) | 83.395 | Width (m) | 1.000 | Discharge Coefficient | 0.590 |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|

Node 52\_OUT Online Weir Control

|            |   |                          |   |                  |        |           |       |                       |       |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|
| Flap Valve | x | Replaces Downstream Link | ✓ | Invert Level (m) | 74.995 | Width (m) | 1.000 | Discharge Coefficient | 0.590 |
|------------|---|--------------------------|---|------------------|--------|-----------|-------|-----------------------|-------|

Node BASIN 1 Depth/Area Storage Structure

|                             |         |                             |         |               |     |          |      |                  |        |                           |     |
|-----------------------------|---------|-----------------------------|---------|---------------|-----|----------|------|------------------|--------|---------------------------|-----|
| Base Inf Coefficient (m/hr) | 1.11600 | Side Inf Coefficient (m/hr) | 1.11600 | Safety Factor | 5.0 | Porosity | 0.95 | Invert Level (m) | 72.600 | Time to half empty (mins) | 226 |
|-----------------------------|---------|-----------------------------|---------|---------------|-----|----------|------|------------------|--------|---------------------------|-----|

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|                             |         |                             |         |               |     |          |      |                  |        |                           |     |
|-----------------------------|---------|-----------------------------|---------|---------------|-----|----------|------|------------------|--------|---------------------------|-----|
| Base Inf Coefficient (m/hr) | 0.03564 | Side Inf Coefficient (m/hr) | 0.03564 | Safety Factor | 3.0 | Porosity | 1.00 | Invert Level (m) | 91.400 | Time to half empty (mins) | 399 |
|-----------------------------|---------|-----------------------------|---------|---------------|-----|----------|------|------------------|--------|---------------------------|-----|

|                      |       |                     |       |                       |       |                      |       |                          |   |                |       |
|----------------------|-------|---------------------|-------|-----------------------|-------|----------------------|-------|--------------------------|---|----------------|-------|
| Entry Loss (manhole) | 0.250 | Exit Loss (manhole) | 0.250 | Entry Loss (junction) | 0.000 | Exit Loss (junction) | 0.000 | Apply Recommended Losses | x | Flood Risk (m) | 0.450 |
|----------------------|-------|---------------------|-------|-----------------------|-------|----------------------|-------|--------------------------|---|----------------|-------|

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | 1       | 10          | 93.576    | 0.023     | 3.7          | 0.0259        | 0.0000     | OK     |
| 15 minute winter | 2       | 10          | 92.264    | 0.035     | 8.4          | 0.0396        | 0.0000     | OK     |
| 15 minute winter | 3       | 10          | 90.795    | 0.045     | 10.9         | 0.0512        | 0.0000     | OK     |
| 15 minute winter | 4       | 10          | 90.241    | 0.049     | 13.8         | 0.0555        | 0.0000     | OK     |
| 15 minute winter | 5       | 10          | 89.610    | 0.064     | 18.1         | 0.0729        | 0.0000     | OK     |
| 15 minute winter | 6       | 10          | 91.237    | 0.031     | 5.4          | 0.0352        | 0.0000     | OK     |
| 15 minute winter | 7       | 10          | 90.107    | 0.050     | 12.2         | 0.0565        | 0.0000     | OK     |
| 15 minute winter | 8       | 10          | 88.881    | 0.090     | 37.6         | 0.1020        | 0.0000     | OK     |
| 15 minute winter | 9       | 11          | 88.096    | 0.102     | 44.0         | 0.1153        | 0.0000     | OK     |
| 15 minute winter | 10      | 11          | 87.333    | 0.099     | 52.5         | 0.1413        | 0.0000     | OK     |
| 15 minute winter | 11      | 11          | 86.276    | 0.097     | 63.0         | 0.1383        | 0.0000     | OK     |
| 15 minute winter | 12      | 11          | 84.440    | 0.101     | 71.9         | 0.1441        | 0.0000     | OK     |
| 15 minute winter | 13      | 11          | 82.510    | 0.110     | 80.4         | 0.1569        | 0.0000     | OK     |
| 15 minute winter | 14      | 11          | 81.516    | 0.152     | 84.3         | 0.2175        | 0.0000     | OK     |
| 15 minute winter | 15      | 11          | 81.241    | 0.115     | 92.4         | 0.1642        | 0.0000     | OK     |
| 15 minute winter | 16      | 11          | 79.948    | 0.120     | 97.4         | 0.1719        | 0.0000     | OK     |
| 15 minute winter | 17      | 11          | 79.128    | 0.127     | 101.3        | 0.1820        | 0.0000     | OK     |
| 15 minute winter | 18      | 11          | 78.475    | 0.123     | 109.3        | 0.1755        | 0.0000     | OK     |
| 15 minute winter | 19      | 11          | 77.151    | 0.141     | 113.3        | 0.2023        | 0.0000     | OK     |
| 15 minute winter | 20      | 11          | 76.440    | 0.100     | 120.3        | 0.1432        | 0.0000     | OK     |
| 15 minute winter | 21      | 11          | 74.526    | 0.126     | 123.9        | 0.0000        | 0.0000     | OK     |
| 15 minute winter | 22      | 10          | 95.563    | 0.042     | 3.0          | 0.0480        | 0.0000     | OK     |
| 15 minute winter | 23      | 10          | 95.505    | 0.047     | 8.5          | 0.0527        | 0.0000     | OK     |
| 15 minute winter | 24      | 10          | 94.941    | 0.055     | 17.5         | 0.0625        | 0.0000     | OK     |
| 15 minute winter | 25      | 10          | 93.000    | 0.063     | 23.7         | 0.0715        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 1       | 1.000 | 2       | 3.7           | 1.234          | 0.022    | 0.0380        |                    |
| 15 minute winter            | 2       | 1.001 | 3       | 8.3           | 1.736          | 0.053    | 0.0782        |                    |
| 15 minute winter            | 3       | 1.002 | 4       | 10.8          | 1.793          | 0.084    | 0.0554        |                    |
| 15 minute winter            | 4       | 1.003 | 5       | 13.7          | 1.752          | 0.105    | 0.0811        |                    |
| 15 minute winter            | 5       | 1.004 | 8       | 17.9          | 1.980          | 0.164    | 0.1406        |                    |
| 15 minute winter            | 6       | 2.000 | 7       | 5.4           | 1.104          | 0.041    | 0.0918        |                    |
| 15 minute winter            | 7       | 2.001 | 8       | 12.0          | 1.876          | 0.103    | 0.1539        |                    |
| 15 minute winter            | 8       | 1.005 | 9       | 37.3          | 1.922          | 0.192    | 0.5087        |                    |
| 15 minute winter            | 9       | 1.006 | 10      | 43.7          | 2.150          | 0.229    | 0.4731        |                    |
| 15 minute winter            | 10      | 1.007 | 11      | 52.7          | 2.313          | 0.144    | 0.7284        |                    |
| 15 minute winter            | 11      | 1.008 | 12      | 63.3          | 2.742          | 0.143    | 0.8700        |                    |
| 15 minute winter            | 12      | 1.009 | 13      | 72.3          | 3.133          | 0.149    | 0.7328        |                    |
| 15 minute winter            | 13      | 1.010 | 14      | 80.6          | 2.108          | 0.134    | 1.1535        |                    |
| 15 minute winter            | 14      | 1.011 | 15      | 84.4          | 2.151          | 0.198    | 0.5401        |                    |
| 15 minute winter            | 15      | 1.012 | 16      | 92.5          | 2.817          | 0.136    | 0.9687        |                    |
| 15 minute winter            | 16      | 1.013 | 17      | 97.4          | 2.757          | 0.141    | 0.6470        |                    |
| 15 minute winter            | 17      | 1.014 | 18      | 101.2         | 2.825          | 0.148    | 0.5244        |                    |
| 15 minute winter            | 18      | 1.015 | 19      | 109.2         | 2.823          | 0.159    | 1.1536        |                    |
| 15 minute winter            | 19      | 1.016 | 20      | 113.0         | 3.308          | 0.166    | 0.5211        |                    |
| 15 minute winter            | 20      | 1.017 | 21      | 120.1         | 3.904          | 0.112    | 0.5503        |                    |
| 15 minute winter            | 21      | 1.018 | BASIN 1 | 124.1         | 6.121          | 0.136    | 0.5267        |                    |
| 15 minute winter            | 22      | 3.000 | 23      | 2.9           | 0.532          | 0.074    | 0.0585        |                    |
| 15 minute winter            | 23      | 3.001 | 24      | 8.5           | 1.259          | 0.095    | 0.1313        |                    |
| 15 minute winter            | 24      | 3.002 | 25      | 17.3          | 2.079          | 0.133    | 0.2618        |                    |
| 15 minute winter            | 25      | 3.003 | 26      | 23.5          | 2.334          | 0.171    | 0.2231        |                    |

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | 26      | 10          | 91.491    | 0.072     | 27.9         | 0.0819        | 0.0000     | OK     |
| 15 minute winter | 27      | 10          | 90.373    | 0.068     | 31.5         | 0.0768        | 0.0000     | OK     |
| 15 minute winter | 28      | 10          | 89.438    | 0.077     | 41.5         | 0.0866        | 0.0000     | OK     |
| 15 minute winter | 29      | 11          | 87.115    | 0.085     | 44.1         | 0.0963        | 0.0000     | OK     |
| 15 minute winter | 30      | 11          | 86.493    | 0.095     | 46.0         | 0.1071        | 0.0000     | OK     |
| 15 minute winter | 31      | 11          | 85.980    | 0.087     | 48.3         | 0.1248        | 0.0000     | OK     |
| 15 minute winter | 32      | 11          | 85.509    | 0.084     | 54.3         | 0.1199        | 0.0000     | OK     |
| 15 minute winter | 33      | 11          | 84.074    | 0.089     | 63.3         | 0.1275        | 0.0000     | OK     |
| 15 minute winter | 34      | 11          | 81.902    | 0.096     | 73.2         | 0.1375        | 0.0000     | OK     |
| 15 minute winter | 35      | 11          | 79.537    | 0.103     | 78.2         | 0.1467        | 0.0000     | OK     |
| 15 minute winter | 36      | 11          | 78.396    | 0.112     | 83.1         | 0.1601        | 0.0000     | OK     |
| 15 minute winter | 37      | 11          | 77.254    | 0.090     | 92.3         | 0.1288        | 0.0000     | OK     |
| 15 minute winter | 38      | 10          | 74.447    | 0.122     | 97.1         | 0.0000        | 0.0000     | OK     |
| 15 minute winter | 39      | 10          | 82.855    | 0.029     | 4.3          | 0.0329        | 0.0000     | OK     |
| 15 minute winter | 40      | 10          | 82.078    | 0.047     | 9.1          | 0.0534        | 0.0000     | OK     |
| 15 minute winter | 41      | 10          | 81.565    | 0.066     | 14.6         | 0.0749        | 0.0000     | OK     |
| 15 minute winter | 42      | 10          | 81.143    | 0.078     | 21.2         | 0.0887        | 0.0000     | OK     |
| 15 minute winter | 43      | 10          | 80.437    | 0.068     | 27.9         | 0.0773        | 0.0000     | OK     |
| 15 minute winter | 44      | 10          | 79.289    | 0.079     | 34.1         | 0.0899        | 0.0000     | OK     |
| 15 minute winter | 45      | 11          | 78.173    | 0.063     | 40.2         | 0.0717        | 0.0000     | OK     |
| 15 minute winter | 46      | 11          | 74.958    | 0.047     | 3.9          | 0.0526        | 0.0000     | OK     |
| 15 minute winter | 47      | 11          | 74.830    | 0.069     | 7.7          | 0.0782        | 0.0000     | OK     |
| 15 minute winter | 48      | 11          | 74.776    | 0.202     | 51.8         | 0.2884        | 0.0000     | OK     |
| 15 minute winter | 49      | 11          | 74.741    | 0.205     | 65.0         | 0.2938        | 0.0000     | OK     |
| 15 minute winter | 50      | 11          | 74.618    | 0.206     | 72.9         | 0.2946        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 26      | 3.004 | 27      | 27.6          | 2.607          | 0.203    | 0.1623        |                    |
| 15 minute winter            | 27      | 3.005 | 28      | 31.4          | 2.416          | 0.107    | 0.1798        |                    |
| 15 minute winter            | 28      | 3.006 | 29      | 41.2          | 2.695          | 0.143    | 0.5349        |                    |
| 15 minute winter            | 29      | 3.007 | 30      | 44.0          | 2.483          | 0.157    | 0.1779        |                    |
| 15 minute winter            | 30      | 3.008 | 31      | 46.2          | 2.657          | 0.168    | 0.1236        |                    |
| 15 minute winter            | 31      | 3.009 | 32      | 48.4          | 2.567          | 0.097    | 0.1434        |                    |
| 15 minute winter            | 32      | 3.010 | 33      | 54.4          | 2.842          | 0.105    | 0.4165        |                    |
| 15 minute winter            | 33      | 3.011 | 34      | 63.6          | 3.012          | 0.122    | 0.6879        |                    |
| 15 minute winter            | 34      | 3.012 | 35      | 73.5          | 3.154          | 0.142    | 0.8283        |                    |
| 15 minute winter            | 35      | 3.013 | 36      | 78.4          | 3.021          | 0.152    | 0.4525        |                    |
| 15 minute winter            | 36      | 3.014 | 37      | 83.2          | 3.488          | 0.162    | 0.4114        |                    |
| 15 minute winter            | 37      | 3.015 | 38      | 92.4          | 4.664          | 0.121    | 0.3807        |                    |
| 15 minute winter            | 38      | 3.016 | BASIN 1 | 97.6          | 5.157          | 0.128    | 0.6684        |                    |
| 15 minute winter            | 39      | 4.000 | 40      | 4.3           | 0.962          | 0.036    | 0.0683        |                    |
| 15 minute winter            | 40      | 4.001 | 41      | 9.0           | 1.149          | 0.097    | 0.1335        |                    |
| 15 minute winter            | 41      | 4.002 | 42      | 14.5          | 1.316          | 0.187    | 0.2162        |                    |
| 15 minute winter            | 42      | 4.003 | 43      | 20.8          | 1.748          | 0.243    | 0.2751        |                    |
| 15 minute winter            | 43      | 4.004 | 44      | 27.8          | 2.063          | 0.114    | 0.3297        |                    |
| 15 minute winter            | 44      | 4.005 | 45      | 33.7          | 2.634          | 0.134    | 0.2799        |                    |
| 15 minute winter            | 45      | 4.006 | 48      | 40.1          | 3.799          | 0.093    | 0.2382        |                    |
| 15 minute winter            | 46      | 5.000 | 47      | 3.8           | 0.402          | 0.053    | 0.3499        |                    |
| 15 minute winter            | 47      | 5.001 | 48      | 7.5           | 0.642          | 0.106    | 0.1045        |                    |
| 15 minute winter            | 48      | 4.007 | 49      | 52.0          | 0.748          | 0.327    | 1.0744        |                    |
| 15 minute winter            | 49      | 4.008 | 50      | 65.4          | 0.927          | 0.402    | 3.4064        |                    |
| 15 minute winter            | 50      | 4.009 | 51      | 71.9          | 1.578          | 0.446    | 0.2248        |                    |

| Link Event        | US      | Link         | DS      | Outflow | Velocity | Flow/Cap | Link     | Discharge |
|-------------------|---------|--------------|---------|---------|----------|----------|----------|-----------|
| (Upstream Depth)  | Node    |              | Node    | (l/s)   | (m/s)    |          | Vol (m³) | Vol (m³)  |
| 15 minute winter  | 51      | 4.010        | BASIN 1 | 71.9    | 4.861    | 0.079    | 0.3943   |           |
| 30 minute winter  |         | 1.019        | 52_OUT  | 0.3     | 0.142    | 0.005    | 0.1079   |           |
| 30 minute winter  | BASIN 1 | Infiltration |         | 70.5    |          |          |          |           |
| 30 minute winter  | 52_OUT  | Weir         |         | 0.0     |          |          |          | 0.0       |
| 15 minute winter  | 53      | 6.000        | 54      | 5.2     | 1.455    | 0.136    | 0.0320   |           |
| 15 minute winter  | 54      | 6.001        | 55      | 5.1     | 1.371    | 0.139    | 0.0830   |           |
| 15 minute winter  | 55      | 6.002        | 56      | 5.1     | 0.953    | 0.169    | 0.0811   |           |
| 15 minute winter  | 56      | 6.003        | 57      | 8.9     | 1.596    | 0.303    | 0.1244   |           |
| 15 minute winter  | 57      | 6.004        | 58      | 8.9     | 1.755    | 0.197    | 0.0876   |           |
| 15 minute winter  | 58      | 6.005        | 59      | 12.7    | 2.068    | 0.275    | 0.1559   |           |
| 15 minute winter  | 59      | 6.006        | 60      | 12.7    | 2.103    | 0.303    | 0.0992   |           |
| 15 minute winter  | 60      | 6.007        | 61      | 12.6    | 2.301    | 0.259    | 0.2666   |           |
| 15 minute winter  | 61      | 6.008        | 62      | 20.0    | 2.484    | 0.152    | 0.1857   |           |
| 15 minute winter  | 62      | 6.009        | 63      | 20.0    | 2.664    | 0.124    | 0.2782   |           |
| 15 minute winter  | 63      | 6.010        | 64      | 19.9    | 2.279    | 0.138    | 0.1511   |           |
| 15 minute winter  | 64      | 6.011        | 65      | 19.8    | 1.805    | 0.190    | 0.2887   |           |
| 15 minute winter  | 65      | 6.012        | 71      | 19.6    | 1.562    | 0.266    | 1.2714   |           |
| 15 minute winter  | 66      | 7.000        | 68      | 5.2     | 1.474    | 0.031    | 0.1548   |           |
| 15 minute winter  | 67      | 8.000        | 68      | 5.2     | 0.971    | 0.062    | 0.1848   |           |
| 15 minute winter  | 68      | 7.001        | 69      | 29.4    | 1.338    | 0.415    | 0.4025   |           |
| 15 minute winter  | 69      | 7.002        | 70      | 36.9    | 2.366    | 0.135    | 0.5519   |           |
| 15 minute winter  | 70      | 7.003        | 71      | 49.6    | 2.515    | 0.198    | 0.4375   |           |
| 15 minute winter  | 71      | 6.013        | 71_OUT  | 114.7   | 1.871    | 0.718    | 2.4613   |           |
| 180 minute winter | 71_OUT  | Weir         |         | 0.0     |          |          |          | 0.0       |
| 180 minute winter | 71_OUT  | Infiltration |         | 7.0     |          |          |          |           |

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter  | 72      | 10          | 99.546    | 0.035     | 7.2          | 0.0394        | 0.0000     | OK     |
| 15 minute winter  | 73      | 10          | 97.849    | 0.052     | 16.8         | 0.0592        | 0.0000     | OK     |
| 15 minute winter  | 74      | 10          | 95.471    | 0.066     | 24.8         | 0.0742        | 0.0000     | OK     |
| 15 minute winter  | 75      | 10          | 93.425    | 0.069     | 32.9         | 0.0779        | 0.0000     | OK     |
| 15 minute winter  | 76      | 10          | 92.324    | 0.022     | 2.6          | 0.0247        | 0.0000     | OK     |
| 15 minute winter  | 77      | 10          | 91.546    | 0.077     | 39.6         | 0.0873        | 0.0000     | OK     |
| 15 minute winter  | 78      | 10          | 90.536    | 0.082     | 43.1         | 0.0933        | 0.0000     | OK     |
| 15 minute winter  | 79      | 11          | 89.532    | 0.079     | 45.6         | 0.1128        | 0.0000     | OK     |
| 15 minute winter  | 80      | 10          | 89.765    | 0.028     | 3.9          | 0.0313        | 0.0000     | OK     |
| 15 minute winter  | 81      | 11          | 88.903    | 0.088     | 52.7         | 0.1264        | 0.0000     | OK     |
| 15 minute winter  | 82      | 11          | 88.203    | 0.093     | 55.6         | 0.1326        | 0.0000     | OK     |
| 15 minute winter  | 83      | 11          | 87.702    | 0.117     | 58.1         | 0.1681        | 0.0000     | OK     |
| 15 minute winter  | 84      | 10          | 88.467    | 0.029     | 4.4          | 0.0324        | 0.0000     | OK     |
| 15 minute winter  | 85      | 11          | 87.415    | 0.099     | 65.8         | 0.1421        | 0.0000     | OK     |
| 15 minute winter  | 86      | 11          | 86.664    | 0.099     | 70.3         | 0.1412        | 0.0000     | OK     |
| 15 minute winter  | 87      | 11          | 85.695    | 0.110     | 72.7         | 0.1576        | 0.0000     | OK     |
| 15 minute winter  | 88      | 11          | 85.098    | 0.096     | 79.9         | 0.1370        | 0.0000     | OK     |
| 15 minute winter  | 89      | 11          | 83.547    | 0.115     | 90.1         | 0.1644        | 0.0000     | OK     |
| 15 minute winter  | 90      | 10          | 82.921    | 0.121     | 107.4        | 0.0000        | 0.0000     | OK     |
| 180 minute winter | BASIN 2 | 132         | 81.550    | 0.150     | 32.9         | 67.5162       | 0.0000     | OK     |
| 30 minute winter  | BASIN 3 | 25          | 91.470    | 0.070     | 5.8          | 2.7417        | 0.0000     | OK     |
| 240 minute winter | BASIN 4 | 172         | 91.490    | 0.090     | 3.4          | 10.4055       | 0.0000     | OK     |
| 360 minute winter | BASIN 5 | 256         | 91.439    | 0.039     | 1.2          | 6.2433        | 0.0000     | OK     |
| 360 minute winter | BASIN 6 | 264         | 91.451    | 0.051     | 1.6          | 8.3909        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 72      | 9.000        | 73      | 7.2           | 1.329          | 0.052    | 0.1357        |                    |
| 15 minute winter            | 73      | 9.001        | 74      | 16.7          | 2.017          | 0.119    | 0.2771        |                    |
| 15 minute winter            | 74      | 9.002        | 75      | 24.4          | 2.593          | 0.176    | 0.2648        |                    |
| 15 minute winter            | 75      | 9.003        | 77      | 32.7          | 2.471          | 0.116    | 0.3911        |                    |
| 15 minute winter            | 76      | 10.000       | 77      | 2.6           | 1.334          | 0.019    | 0.0213        |                    |
| 15 minute winter            | 77      | 9.004        | 78      | 39.3          | 2.619          | 0.135    | 0.2248        |                    |
| 15 minute winter            | 78      | 9.005        | 79      | 43.0          | 2.875          | 0.145    | 0.1973        |                    |
| 15 minute winter            | 79      | 9.006        | 81      | 45.7          | 2.501          | 0.087    | 0.1718        |                    |
| 15 minute winter            | 80      | 11.000       | 81      | 3.9           | 1.409          | 0.031    | 0.0369        |                    |
| 15 minute winter            | 81      | 9.007        | 82      | 52.9          | 2.588          | 0.109    | 0.2483        |                    |
| 15 minute winter            | 82      | 9.008        | 83      | 55.8          | 2.211          | 0.122    | 0.2559        |                    |
| 15 minute winter            | 83      | 9.009        | 85      | 58.3          | 2.212          | 0.166    | 0.2331        |                    |
| 15 minute winter            | 84      | 12.000       | 85      | 4.4           | 1.514          | 0.033    | 0.0444        |                    |
| 15 minute winter            | 85      | 9.010        | 86      | 66.0          | 2.845          | 0.134    | 0.2889        |                    |
| 15 minute winter            | 86      | 9.011        | 87      | 70.5          | 2.818          | 0.141    | 0.3964        |                    |
| 15 minute winter            | 87      | 9.012        | 88      | 72.9          | 2.983          | 0.144    | 0.1968        |                    |
| 15 minute winter            | 88      | 9.013        | 89      | 80.0          | 2.841          | 0.100    | 0.7264        |                    |
| 15 minute winter            | 89      | 9.014        | 90      | 90.2          | 2.776          | 0.136    | 0.4913        |                    |
| 15 minute winter            | 90      | 9.015        | BASIN 2 | 108.0         | 5.631          | 0.127    | 0.4479        |                    |
| 180 minute winter           | BASIN 2 | Weir         |         | 0.0           |                |          |               | 0.0                |
| 180 minute winter           | BASIN 2 | Infiltration |         | 11.4          |                |          |               |                    |
| 30 minute winter            | BASIN 3 | Infiltration |         | 1.9           |                |          |               |                    |
| 240 minute winter           | BASIN 4 | Infiltration |         | 1.2           |                |          |               |                    |
| 360 minute winter           | BASIN 5 | Infiltration |         | 0.4           |                |          |               |                    |
| 360 minute winter           | BASIN 6 | Infiltration |         | 0.5           |                |          |               |                    |

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Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event       | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter | 1       | 10          | 93.598    | 0.045     | 14.8         | 0.0506        | 0.0000     | OK     |
| 15 minute winter | 2       | 10          | 92.299    | 0.070     | 33.7         | 0.0794        | 0.0000     | OK     |
| 15 minute winter | 3       | 10          | 90.849    | 0.099     | 44.2         | 0.1114        | 0.0000     | OK     |
| 15 minute winter | 4       | 10          | 90.301    | 0.109     | 56.2         | 0.1231        | 0.0000     | OK     |
| 15 minute winter | 5       | 10          | 89.696    | 0.150     | 73.9         | 0.1700        | 0.0000     | OK     |
| 15 minute winter | 6       | 10          | 91.268    | 0.062     | 21.7         | 0.0700        | 0.0000     | OK     |
| 15 minute winter | 7       | 10          | 90.159    | 0.102     | 49.6         | 0.1149        | 0.0000     | OK     |
| 15 minute winter | 8       | 10          | 89.007    | 0.216     | 153.5        | 0.2445        | 0.0000     | OK     |
| 15 minute winter | 9       | 11          | 88.265    | 0.271     | 179.1        | 0.3062        | 0.0000     | OK     |
| 15 minute winter | 10      | 10          | 87.456    | 0.222     | 212.8        | 0.3178        | 0.0000     | OK     |
| 15 minute winter | 11      | 10          | 86.393    | 0.214     | 255.8        | 0.3060        | 0.0000     | OK     |
| 15 minute winter | 12      | 11          | 84.568    | 0.229     | 291.1        | 0.3281        | 0.0000     | OK     |
| 15 minute winter | 13      | 11          | 82.648    | 0.248     | 325.3        | 0.3542        | 0.0000     | OK     |
| 15 minute winter | 14      | 11          | 81.737    | 0.373     | 340.8        | 0.5340        | 0.0000     | OK     |
| 15 minute winter | 15      | 11          | 81.384    | 0.258     | 374.3        | 0.3692        | 0.0000     | OK     |
| 15 minute winter | 16      | 11          | 80.113    | 0.285     | 395.0        | 0.4072        | 0.0000     | OK     |
| 15 minute winter | 17      | 11          | 79.313    | 0.312     | 412.0        | 0.4459        | 0.0000     | OK     |
| 15 minute winter | 18      | 11          | 78.638    | 0.286     | 445.6        | 0.4093        | 0.0000     | OK     |
| 15 minute winter | 19      | 11          | 77.364    | 0.354     | 462.7        | 0.5066        | 0.0000     | OK     |
| 15 minute winter | 20      | 11          | 76.567    | 0.227     | 492.2        | 0.3245        | 0.0000     | OK     |
| 15 minute winter | 21      | 10          | 74.642    | 0.242     | 507.4        | 0.0000        | 0.0000     | OK     |
| 15 minute winter | 22      | 10          | 95.613    | 0.092     | 12.2         | 0.1043        | 0.0000     | OK     |
| 15 minute winter | 23      | 10          | 95.558    | 0.100     | 34.9         | 0.1128        | 0.0000     | OK     |
| 15 minute winter | 24      | 10          | 95.005    | 0.119     | 71.1         | 0.1345        | 0.0000     | OK     |
| 15 minute winter | 25      | 10          | 93.080    | 0.143     | 96.5         | 0.1618        | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 1       | 1.000 | 2       | 14.7          | 1.848          | 0.087    | 0.1018        |                    |
| 15 minute winter            | 2       | 1.001 | 3       | 33.6          | 2.474          | 0.213    | 0.2219        |                    |
| 15 minute winter            | 3       | 1.002 | 4       | 44.0          | 2.462          | 0.341    | 0.1639        |                    |
| 15 minute winter            | 4       | 1.003 | 5       | 55.9          | 2.364          | 0.427    | 0.2431        |                    |
| 15 minute winter            | 5       | 1.004 | 8       | 73.5          | 2.731          | 0.673    | 0.4221        |                    |
| 15 minute winter            | 6       | 2.000 | 7       | 21.6          | 1.660          | 0.167    | 0.2450        |                    |
| 15 minute winter            | 7       | 2.001 | 8       | 49.3          | 2.393          | 0.423    | 0.5229        |                    |
| 15 minute winter            | 8       | 1.005 | 9       | 152.1         | 2.499          | 0.782    | 1.5827        |                    |
| 15 minute winter            | 9       | 1.006 | 10      | 177.8         | 2.868          | 0.929    | 1.4365        |                    |
| 15 minute winter            | 10      | 1.007 | 11      | 213.6         | 3.216          | 0.586    | 2.1244        |                    |
| 15 minute winter            | 11      | 1.008 | 12      | 256.2         | 3.782          | 0.577    | 2.5503        |                    |
| 15 minute winter            | 12      | 1.009 | 13      | 292.4         | 4.407          | 0.600    | 2.1044        |                    |
| 15 minute winter            | 13      | 1.010 | 14      | 325.9         | 2.795          | 0.541    | 3.4497        |                    |
| 15 minute winter            | 14      | 1.011 | 15      | 341.9         | 2.879          | 0.801    | 1.6060        |                    |
| 15 minute winter            | 15      | 1.012 | 16      | 375.1         | 3.758          | 0.551    | 2.9424        |                    |
| 15 minute winter            | 16      | 1.013 | 17      | 396.1         | 3.555          | 0.575    | 2.0392        |                    |
| 15 minute winter            | 17      | 1.014 | 18      | 412.7         | 3.694          | 0.604    | 1.6345        |                    |
| 15 minute winter            | 18      | 1.015 | 19      | 446.3         | 3.701          | 0.648    | 3.5744        |                    |
| 15 minute winter            | 19      | 1.016 | 20      | 462.8         | 4.282          | 0.679    | 1.6208        |                    |
| 15 minute winter            | 20      | 1.017 | 21      | 492.0         | 5.962          | 0.457    | 1.4574        |                    |
| 15 minute winter            | 21      | 1.018 | BASIN 1 | 509.3         | 7.394          | 0.560    | 2.3082        |                    |
| 15 minute winter            | 22      | 3.000 | 23      | 12.1          | 0.748          | 0.301    | 0.1700        |                    |
| 15 minute winter            | 23      | 3.001 | 24      | 34.6          | 1.810          | 0.387    | 0.3728        |                    |
| 15 minute winter            | 24      | 3.002 | 25      | 70.6          | 2.946          | 0.542    | 0.7527        |                    |
| 15 minute winter            | 25      | 3.003 | 26      | 95.9          | 3.112          | 0.700    | 0.6782        |                    |

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Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event                  | US Node | Peak (mins) | Level (m) | Depth (m)     | Inflow (l/s)   | Node Vol (m³) | Flood (m³)    | Status             |
|-----------------------------|---------|-------------|-----------|---------------|----------------|---------------|---------------|--------------------|
| 15 minute winter            | 26      | 10          | 91.602    | 0.183         | 113.8          | 0.2069        | 0.0000        | OK                 |
| 15 minute winter            | 27      | 10          | 90.458    | 0.153         | 128.6          | 0.1735        | 0.0000        | OK                 |
| 15 minute winter            | 28      | 10          | 89.528    | 0.167         | 169.0          | 0.1883        | 0.0000        | OK                 |
| 15 minute winter            | 29      | 10          | 87.241    | 0.211         | 179.8          | 0.2381        | 0.0000        | OK                 |
| 15 minute winter            | 30      | 11          | 86.646    | 0.248         | 187.0          | 0.2802        | 0.0000        | OK                 |
| 15 minute winter            | 31      | 11          | 86.099    | 0.206         | 195.7          | 0.2945        | 0.0000        | OK                 |
| 15 minute winter            | 32      | 11          | 85.609    | 0.184         | 220.0          | 0.2636        | 0.0000        | OK                 |
| 15 minute winter            | 33      | 11          | 84.180    | 0.195         | 257.1          | 0.2794        | 0.0000        | OK                 |
| 15 minute winter            | 34      | 11          | 82.017    | 0.211         | 296.6          | 0.3025        | 0.0000        | OK                 |
| 15 minute winter            | 35      | 11          | 79.676    | 0.242         | 316.6          | 0.3457        | 0.0000        | OK                 |
| 15 minute winter            | 36      | 11          | 78.556    | 0.272         | 336.7          | 0.3891        | 0.0000        | OK                 |
| 15 minute winter            | 37      | 11          | 77.361    | 0.197         | 374.3          | 0.2820        | 0.0000        | OK                 |
| 15 minute winter            | 38      | 10          | 74.559    | 0.234         | 393.8          | 0.0000        | 0.0000        | OK                 |
| 15 minute winter            | 39      | 10          | 82.884    | 0.058         | 17.5           | 0.0654        | 0.0000        | OK                 |
| 15 minute winter            | 40      | 10          | 82.130    | 0.099         | 37.0           | 0.1114        | 0.0000        | OK                 |
| 15 minute winter            | 41      | 10          | 81.658    | 0.159         | 59.5           | 0.1797        | 0.0000        | OK                 |
| 15 minute winter            | 42      | 11          | 81.304    | 0.239         | 85.8           | 0.2702        | 0.0000        | SURCHARGED         |
| 15 minute winter            | 43      | 10          | 80.516    | 0.147         | 111.8          | 0.1664        | 0.0000        | OK                 |
| 15 minute winter            | 44      | 10          | 79.390    | 0.181         | 136.9          | 0.2046        | 0.0000        | OK                 |
| 15 minute winter            | 45      | 10          | 78.236    | 0.126         | 162.5          | 0.1422        | 0.0000        | OK                 |
| 15 minute winter            | 46      | 11          | 75.345    | 0.434         | 18.7           | 0.4909        | 0.0000        | SURCHARGED         |
| 15 minute winter            | 47      | 11          | 75.346    | 0.585         | 35.5           | 0.6618        | 0.0000        | SURCHARGED         |
| 15 minute winter            | 48      | 11          | 75.336    | 0.762         | 212.0          | 1.0909        | 0.0000        | SURCHARGED         |
| 15 minute winter            | 49      | 11          | 75.229    | 0.693         | 264.8          | 0.9916        | 0.0000        | SURCHARGED         |
| 15 minute winter            | 50      | 12          | 74.830    | 0.418         | 297.8          | 0.5984        | 0.0000        | OK                 |
| Link Event (Upstream Depth) | US Node | Link        | DS Node   | Outflow (l/s) | Velocity (m/s) | Flow/Cap      | Link Vol (m³) | Discharge Vol (m³) |
| 15 minute winter            | 26      | 3.004       | 27        | 112.7         | 3.535          | 0.828         | 0.4880        |                    |
| 15 minute winter            | 27      | 3.005       | 28        | 128.3         | 3.373          | 0.439         | 0.5260        |                    |
| 15 minute winter            | 28      | 3.006       | 29        | 168.2         | 3.609          | 0.584         | 1.6268        |                    |
| 15 minute winter            | 29      | 3.007       | 30        | 178.5         | 3.098          | 0.637         | 0.5761        |                    |
| 15 minute winter            | 30      | 3.008       | 31        | 187.2         | 3.487          | 0.682         | 0.3775        |                    |
| 15 minute winter            | 31      | 3.009       | 32        | 196.1         | 3.388          | 0.393         | 0.4401        |                    |
| 15 minute winter            | 32      | 3.010       | 33        | 220.7         | 3.947          | 0.427         | 1.2154        |                    |
| 15 minute winter            | 33      | 3.011       | 34        | 257.6         | 4.224          | 0.495         | 1.9856        |                    |
| 15 minute winter            | 34      | 3.012       | 35        | 297.7         | 4.280          | 0.573         | 2.4701        |                    |
| 15 minute winter            | 35      | 3.013       | 36        | 317.8         | 3.952          | 0.616         | 1.4002        |                    |
| 15 minute winter            | 36      | 3.014       | 37        | 337.4         | 4.655          | 0.658         | 1.2412        |                    |
| 15 minute winter            | 37      | 3.015       | 38        | 374.9         | 6.702          | 0.492         | 1.0752        |                    |
| 15 minute winter            | 38      | 3.016       | BASIN 1   | 394.5         | 6.265          | 0.516         | 3.0103        |                    |
| 15 minute winter            | 39      | 4.000       | 40        | 17.4          | 1.423          | 0.145         | 0.1872        |                    |
| 15 minute winter            | 40      | 4.001       | 41        | 36.7          | 1.565          | 0.397         | 0.3950        |                    |
| 15 minute winter            | 41      | 4.002       | 42        | 58.8          | 1.709          | 0.758         | 0.6758        |                    |
| 15 minute winter            | 42      | 4.003       | 43        | 83.2          | 2.333          | 0.971         | 0.8298        |                    |
| 15 minute winter            | 43      | 4.004       | 44        | 111.5         | 2.834          | 0.459         | 0.9630        |                    |
| 15 minute winter            | 44      | 4.005       | 45        | 136.0         | 3.756          | 0.542         | 0.7879        |                    |
| 15 minute winter            | 45      | 4.006       | 48        | 162.0         | 3.906          | 0.374         | 1.1100        |                    |
| 15 minute winter            | 46      | 5.000       | 47        | 23.6          | 0.467          | 0.333         | 2.5696        |                    |
| 15 minute winter            | 47      | 5.001       | 48        | 39.1          | 0.712          | 0.548         | 0.6267        |                    |
| 15 minute winter            | 48      | 4.007       | 49        | 212.0         | 1.338          | 1.330         | 2.4472        |                    |
| 15 minute winter            | 49      | 4.008       | 50        | 267.4         | 1.688          | 1.642         | 7.5319        |                    |
| 15 minute winter            | 50      | 4.009       | 51        | 308.2         | 2.851          | 1.913         | 0.5115        |                    |

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Royston

Surface Water Strategy Rev -

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | 51      | 11          | 74.586    | 0.186     | 308.2        | 0.0000        | 0.0000     | OK         |
| 120 minute winter | BASIN 1 | 104         | 73.238    | 0.638     | 389.3        | 688.8268      | 0.0000     | SURCHARGED |
|                   |         |             |           |           |              |               |            |            |
| 120 minute winter | 52_OUT  | 104         | 73.238    | 0.638     | 0.5          | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | 53      | 10          | 95.260    | 0.088     | 21.2         | 0.0998        | 0.0000     | OK         |
| 15 minute winter  | 54      | 10          | 94.844    | 0.081     | 21.1         | 0.0917        | 0.0000     | OK         |
| 15 minute winter  | 55      | 12          | 94.032    | 0.211     | 20.9         | 0.2381        | 0.0000     | SURCHARGED |
| 15 minute winter  | 56      | 12          | 93.826    | 0.432     | 34.8         | 0.4883        | 0.0000     | SURCHARGED |
| 15 minute winter  | 57      | 12          | 92.897    | 0.101     | 32.0         | 0.1142        | 0.0000     | OK         |
| 15 minute winter  | 58      | 12          | 92.101    | 0.405     | 46.0         | 0.4576        | 0.0000     | SURCHARGED |
| 15 minute winter  | 59      | 13          | 90.414    | 0.401     | 44.2         | 0.4530        | 0.0000     | SURCHARGED |
| 15 minute winter  | 60      | 13          | 89.225    | 0.111     | 42.0         | 0.1255        | 0.0000     | OK         |
| 15 minute winter  | 61      | 10          | 85.555    | 0.128     | 70.5         | 0.1446        | 0.0000     | OK         |
| 15 minute winter  | 62      | 11          | 84.076    | 0.105     | 70.5         | 0.1188        | 0.0000     | OK         |
| 15 minute winter  | 63      | 11          | 80.544    | 0.116     | 70.7         | 0.1307        | 0.0000     | OK         |
| 15 minute winter  | 64      | 11          | 79.249    | 0.137     | 70.8         | 0.1544        | 0.0000     | OK         |
| 15 minute winter  | 65      | 11          | 78.269    | 0.194     | 71.0         | 0.2192        | 0.0000     | OK         |
| 15 minute winter  | 66      | 10          | 82.492    | 0.054     | 21.2         | 0.0614        | 0.0000     | OK         |
| 15 minute winter  | 67      | 10          | 80.284    | 0.077     | 21.2         | 0.0873        | 0.0000     | OK         |
| 15 minute winter  | 68      | 10          | 80.113    | 0.435     | 121.5        | 0.4917        | 0.0000     | SURCHARGED |
| 15 minute winter  | 69      | 10          | 79.761    | 0.157     | 149.7        | 0.1772        | 0.0000     | OK         |
| 15 minute winter  | 70      | 10          | 77.994    | 0.494     | 201.7        | 0.5583        | 0.0000     | SURCHARGED |
| 15 minute winter  | 71      | 7           | 77.716    | 0.866     | 273.3        | 1.2388        | 0.0000     | SURCHARGED |
| 240 minute winter | 71_OUT  | 236         | 77.290    | 0.516     | 55.1         | 227.7085      | 0.0000     | OK         |

| Link Event (Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 51      | 4.010        | BASIN 1 | 326.4         | 5.701          | 0.358    | 2.1243        | 0.0                |
| 120 minute winter           | BASIN 1 | 1.019        | 52_OUT  | 0.5           | 0.106          | 0.007    | 0.4231        |                    |
| 120 minute winter           | BASIN 1 | Infiltration |         | 70.5          |                |          |               |                    |
| 120 minute winter           | 52_OUT  | Weir         |         | 0.0           |                |          |               |                    |
| 15 minute winter            | 53      | 6.000        | 54      | 21.1          | 2.059          | 0.554    | 0.0923        | 0.0                |
| 15 minute winter            | 54      | 6.001        | 55      | 20.9          | 1.930          | 0.569    | 0.3008        |                    |
| 15 minute winter            | 55      | 6.002        | 56      | 19.5          | 1.190          | 0.652    | 0.2676        |                    |
| 15 minute winter            | 56      | 6.003        | 57      | 32.0          | 1.983          | 1.095    | 0.3376        |                    |
| 15 minute winter            | 57      | 6.004        | 58      | 31.7          | 2.202          | 0.702    | 0.2607        |                    |
| 15 minute winter            | 58      | 6.005        | 59      | 44.2          | 2.590          | 0.961    | 0.4484        |                    |
| 15 minute winter            | 59      | 6.006        | 60      | 42.0          | 2.617          | 1.004    | 0.2593        |                    |
| 15 minute winter            | 60      | 6.007        | 61      | 41.9          | 3.053          | 0.859    | 0.6674        |                    |
| 15 minute winter            | 61      | 6.008        | 62      | 70.5          | 3.405          | 0.536    | 0.4768        |                    |
| 15 minute winter            | 62      | 6.009        | 63      | 70.7          | 3.657          | 0.437    | 0.7168        |                    |
| 15 minute winter            | 63      | 6.010        | 64      | 70.8          | 3.097          | 0.490    | 0.3944        |                    |
| 15 minute winter            | 64      | 6.011        | 65      | 71.0          | 2.324          | 0.679    | 0.7978        |                    |
| 15 minute winter            | 65      | 6.012        | 71      | 71.2          | 2.052          | 0.967    | 1.9065        |                    |
| 15 minute winter            | 66      | 7.000        | 68      | 21.1          | 1.434          | 0.128    | 0.6404        |                    |
| 15 minute winter            | 67      | 8.000        | 68      | 21.1          | 0.960          | 0.256    | 0.4702        |                    |
| 15 minute winter            | 68      | 7.001        | 69      | 118.0         | 1.928          | 1.668    | 0.9733        |                    |
| 15 minute winter            | 69      | 7.002        | 70      | 148.8         | 2.760          | 0.546    | 1.9023        |                    |
| 15 minute winter            | 70      | 7.003        | 71      | 202.7         | 2.879          | 0.809    | 0.6991        |                    |
| 15 minute winter            | 71      | 6.013        | 71_OUT  | 278.2         | 2.432          | 1.742    | 3.2953        |                    |
| 240 minute winter           | 71_OUT  | Weir         |         | 0.0           |                |          |               | 0.0                |
| 240 minute winter           | 71_OUT  | Infiltration |         | 7.0           |                |          |               |                    |

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Surface Water Strategy Rev -

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|--------|
| 15 minute winter  | 72      | 10          | 99.581    | 0.070     | 29.1         | 0.0791        | 0.0000     | OK     |
| 15 minute winter  | 73      | 10          | 97.907    | 0.110     | 68.1         | 0.1241        | 0.0000     | OK     |
| 15 minute winter  | 74      | 10          | 95.556    | 0.151     | 100.5        | 0.1712        | 0.0000     | OK     |
| 15 minute winter  | 75      | 10          | 93.504    | 0.148     | 133.7        | 0.1678        | 0.0000     | OK     |
| 15 minute winter  | 76      | 10          | 92.344    | 0.042     | 10.6         | 0.0476        | 0.0000     | OK     |
| 15 minute winter  | 77      | 10          | 91.646    | 0.177     | 161.2        | 0.1997        | 0.0000     | OK     |
| 15 minute winter  | 78      | 10          | 90.651    | 0.197     | 175.4        | 0.2223        | 0.0000     | OK     |
| 15 minute winter  | 79      | 10          | 89.634    | 0.181     | 185.5        | 0.2591        | 0.0000     | OK     |
| 15 minute winter  | 80      | 10          | 89.793    | 0.056     | 15.9         | 0.0638        | 0.0000     | OK     |
| 15 minute winter  | 81      | 10          | 89.018    | 0.203     | 215.2        | 0.2900        | 0.0000     | OK     |
| 15 minute winter  | 82      | 10          | 88.337    | 0.227     | 226.0        | 0.3249        | 0.0000     | OK     |
| 15 minute winter  | 83      | 10          | 87.878    | 0.293     | 235.1        | 0.4195        | 0.0000     | OK     |
| 15 minute winter  | 84      | 10          | 88.494    | 0.056     | 18.0         | 0.0633        | 0.0000     | OK     |
| 15 minute winter  | 85      | 11          | 87.551    | 0.235     | 266.1        | 0.3363        | 0.0000     | OK     |
| 15 minute winter  | 86      | 11          | 86.795    | 0.230     | 284.4        | 0.3288        | 0.0000     | OK     |
| 15 minute winter  | 87      | 11          | 85.865    | 0.280     | 294.4        | 0.4006        | 0.0000     | OK     |
| 15 minute winter  | 88      | 11          | 85.211    | 0.209     | 324.0        | 0.2995        | 0.0000     | OK     |
| 15 minute winter  | 89      | 11          | 83.693    | 0.261     | 365.4        | 0.3742        | 0.0000     | OK     |
| 15 minute winter  | 90      | 10          | 83.033    | 0.233     | 436.3        | 0.0000        | 0.0000     | OK     |
| 180 minute winter | BASIN 2 | 180         | 82.178    | 0.778     | 106.6        | 349.7770      | 0.0000     | OK     |
| 120 minute winter | BASIN 3 | 88          | 91.687    | 0.287     | 10.0         | 15.2269       | 0.0000     | OK     |
| 180 minute winter | BASIN 4 | 172         | 91.702    | 0.302     | 13.0         | 41.7531       | 0.0000     | OK     |
| 240 minute winter | BASIN 5 | 236         | 91.535    | 0.135     | 4.9          | 22.5248       | 0.0000     | OK     |
| 360 minute winter | BASIN 6 | 344         | 91.577    | 0.177     | 4.7          | 31.1415       | 0.0000     | OK     |

| Link Event (Upstream Depth) | US Node | Link         | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|--------------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 72      | 9.000        | 73      | 29.0          | 1.960          | 0.211    | 0.3707        |                    |
| 15 minute winter            | 73      | 9.001        | 74      | 67.7          | 2.834          | 0.484    | 0.7958        |                    |
| 15 minute winter            | 74      | 9.002        | 75      | 99.3          | 3.651          | 0.717    | 0.7651        |                    |
| 15 minute winter            | 75      | 9.003        | 77      | 133.2         | 3.421          | 0.472    | 1.1487        |                    |
| 15 minute winter            | 76      | 10.000       | 77      | 10.6          | 1.511          | 0.077    | 0.1235        |                    |
| 15 minute winter            | 77      | 9.004        | 78      | 160.1         | 3.479          | 0.551    | 0.6890        |                    |
| 15 minute winter            | 78      | 9.005        | 79      | 174.4         | 3.951          | 0.590    | 0.5829        |                    |
| 15 minute winter            | 79      | 9.006        | 81      | 185.1         | 3.280          | 0.354    | 0.5329        |                    |
| 15 minute winter            | 80      | 11.000       | 81      | 15.8          | 2.101          | 0.126    | 0.1013        |                    |
| 15 minute winter            | 81      | 9.007        | 82      | 214.4         | 3.295          | 0.443    | 0.7926        |                    |
| 15 minute winter            | 82      | 9.008        | 83      | 225.0         | 2.766          | 0.492    | 0.8204        |                    |
| 15 minute winter            | 83      | 9.009        | 85      | 235.6         | 2.841          | 0.673    | 0.7290        |                    |
| 15 minute winter            | 84      | 12.000       | 85      | 17.9          | 2.092          | 0.136    | 0.1647        |                    |
| 15 minute winter            | 85      | 9.010        | 86      | 267.0         | 3.723          | 0.541    | 0.8928        |                    |
| 15 minute winter            | 86      | 9.011        | 87      | 285.4         | 3.579          | 0.571    | 1.2594        |                    |
| 15 minute winter            | 87      | 9.012        | 88      | 295.6         | 3.941          | 0.585    | 0.6000        |                    |
| 15 minute winter            | 88      | 9.013        | 89      | 324.6         | 3.870          | 0.405    | 2.1578        |                    |
| 15 minute winter            | 89      | 9.014        | 90      | 366.6         | 4.198          | 0.551    | 1.3336        |                    |
| 15 minute winter            | 90      | 9.015        | BASIN 2 | 436.9         | 6.832          | 0.514    | 1.9250        |                    |
| 180 minute winter           | BASIN 2 | Weir         |         | 0.0           |                |          |               | 0.0                |
| 180 minute winter           | BASIN 2 | Infiltration |         | 11.4          |                |          |               |                    |
| 120 minute winter           | BASIN 3 | Infiltration |         | 3.4           |                |          |               |                    |
| 180 minute winter           | BASIN 4 | Infiltration |         | 2.1           |                |          |               |                    |
| 240 minute winter           | BASIN 5 | Infiltration |         | 0.6           |                |          |               |                    |
| 360 minute winter           | BASIN 6 | Infiltration |         | 0.6           |                |          |               |                    |

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Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.13%

| Node Event        | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (l/s) | Node Vol (m³) | Flood (m³) | Status     |
|-------------------|---------|-------------|-----------|-----------|--------------|---------------|------------|------------|
| 15 minute winter  | 1       | 10          | 93.607    | 0.054     | 21.6         | 0.0610        | 0.0000     | OK         |
| 15 minute winter  | 2       | 10          | 92.315    | 0.086     | 49.2         | 0.0970        | 0.0000     | OK         |
| 15 minute winter  | 3       | 12          | 91.039    | 0.289     | 64.4         | 0.3266        | 0.0000     | SURCHARGED |
| 15 minute winter  | 4       | 12          | 90.879    | 0.687     | 77.3         | 0.7772        | 0.0000     | SURCHARGED |
| 15 minute winter  | 5       | 11          | 90.590    | 1.044     | 96.3         | 1.1811        | 0.0000     | FLOOD RISK |
| 15 minute winter  | 6       | 10          | 91.281    | 0.075     | 31.6         | 0.0850        | 0.0000     | OK         |
| 15 minute winter  | 7       | 11          | 90.388    | 0.331     | 72.3         | 0.3747        | 0.0000     | SURCHARGED |
| 15 minute winter  | 8       | 11          | 89.944    | 1.153     | 198.5        | 1.3042        | 0.0000     | FLOOD RISK |
| 15 minute winter  | 9       | 11          | 88.894    | 0.900     | 233.1        | 1.0173        | 0.0000     | SURCHARGED |
| 15 minute winter  | 10      | 11          | 87.508    | 0.274     | 283.2        | 0.3924        | 0.0000     | OK         |
| 15 minute winter  | 11      | 11          | 86.444    | 0.265     | 343.3        | 0.3794        | 0.0000     | OK         |
| 15 minute winter  | 12      | 11          | 84.624    | 0.285     | 394.9        | 0.4079        | 0.0000     | OK         |
| 15 minute winter  | 13      | 11          | 82.757    | 0.357     | 443.9        | 0.5111        | 0.0000     | OK         |
| 15 minute winter  | 14      | 11          | 82.011    | 0.647     | 466.9        | 0.9265        | 0.0000     | SURCHARGED |
| 15 minute winter  | 15      | 12          | 81.472    | 0.346     | 513.5        | 0.4945        | 0.0000     | OK         |
| 15 minute winter  | 16      | 12          | 80.534    | 0.706     | 533.7        | 1.0099        | 0.0000     | SURCHARGED |
| 15 minute winter  | 17      | 12          | 79.769    | 0.768     | 543.3        | 1.0983        | 0.0000     | SURCHARGED |
| 15 minute winter  | 18      | 12          | 79.044    | 0.692     | 587.4        | 0.9896        | 0.0000     | SURCHARGED |
| 15 minute winter  | 19      | 12          | 77.697    | 0.687     | 607.2        | 0.9837        | 0.0000     | SURCHARGED |
| 15 minute winter  | 20      | 12          | 76.611    | 0.271     | 644.0        | 0.3885        | 0.0000     | OK         |
| 180 minute winter | 21      | 160         | 74.712    | 0.312     | 177.5        | 0.0000        | 0.0000     | OK         |
| 15 minute winter  | 22      | 10          | 95.638    | 0.117     | 17.7         | 0.1318        | 0.0000     | OK         |
| 15 minute winter  | 23      | 10          | 95.583    | 0.125     | 50.6         | 0.1419        | 0.0000     | OK         |
| 15 minute winter  | 24      | 11          | 95.072    | 0.186     | 103.7        | 0.2104        | 0.0000     | OK         |
| 15 minute winter  | 25      | 11          | 93.948    | 1.011     | 137.9        | 1.1434        | 0.0000     | FLOOD RISK |

| Link Event (Upstream Depth) | US Node | Link  | DS Node | Outflow (l/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|-----------------------------|---------|-------|---------|---------------|----------------|----------|---------------|--------------------|
| 15 minute winter            | 1       | 1.000 | 2       | 21.5          | 2.055          | 0.127    | 0.1335        |                    |
| 15 minute winter            | 2       | 1.001 | 3       | 49.0          | 2.646          | 0.311    | 0.4325        |                    |
| 15 minute winter            | 3       | 1.002 | 4       | 59.6          | 2.550          | 0.463    | 0.3650        |                    |
| 15 minute winter            | 4       | 1.003 | 5       | 71.8          | 2.388          | 0.549    | 0.4097        |                    |
| 15 minute winter            | 5       | 1.004 | 8       | 95.2          | 2.635          | 0.871    | 0.6172        |                    |
| 15 minute winter            | 6       | 2.000 | 7       | 31.5          | 1.737          | 0.243    | 0.4753        |                    |
| 15 minute winter            | 7       | 2.001 | 8       | 67.5          | 2.358          | 0.579    | 0.9535        |                    |
| 15 minute winter            | 8       | 1.005 | 9       | 196.6         | 2.792          | 1.010    | 1.8427        |                    |
| 15 minute winter            | 9       | 1.006 | 10      | 232.4         | 3.300          | 1.214    | 1.6351        |                    |
| 15 minute winter            | 10      | 1.007 | 11      | 283.1         | 3.356          | 0.777    | 2.7132        |                    |
| 15 minute winter            | 11      | 1.008 | 12      | 344.1         | 3.972          | 0.775    | 3.2602        |                    |
| 15 minute winter            | 12      | 1.009 | 13      | 396.0         | 4.544          | 0.813    | 2.8373        |                    |
| 15 minute winter            | 13      | 1.010 | 14      | 445.1         | 2.866          | 0.739    | 4.4030        |                    |
| 15 minute winter            | 14      | 1.011 | 15      | 466.4         | 3.036          | 1.093    | 1.9798        |                    |
| 15 minute winter            | 15      | 1.012 | 16      | 504.7         | 3.822          | 0.742    | 4.2616        |                    |
| 15 minute winter            | 16      | 1.013 | 17      | 524.0         | 3.571          | 0.760    | 2.9011        |                    |
| 15 minute winter            | 17      | 1.014 | 18      | 545.7         | 3.724          | 0.799    | 2.3187        |                    |
| 15 minute winter            | 18      | 1.015 | 19      | 587.3         | 3.724          | 0.853    | 4.7181        |                    |
| 15 minute winter            | 19      | 1.016 | 20      | 608.5         | 4.373          | 0.892    | 1.9588        |                    |
| 15 minute winter            | 20      | 1.017 | 21      | 644.7         | 6.339          | 0.599    | 1.7960        |                    |
| 180 minute winter           | 21      | 1.018 | BASIN 1 | 177.5         | 4.111          | 0.195    | 3.1642        |                    |
| 15 minute winter            | 22      | 3.000 | 23      | 17.5          | 0.819          | 0.438    | 0.2290        |                    |
| 15 minute winter            | 23      | 3.001 | 24      | 50.5          | 1.924          | 0.565    | 0.5505        |                    |
| 15 minute winter            | 24      | 3.002 | 25      | 100.1         | 2.972          | 0.769    | 1.1769        |                    |
| 15 minute winter            | 25      | 3.003 | 26      | 128.1         | 3.221          | 0.936    | 0.8814        |                    |