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| Rossett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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  |    |               |        |    |
| <div>Summary of Results for 100 year Return Period (+30%)</div> <div>Half Drain Time : 67 minutes.</div> <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>98.456</td><td>1.456</td><td>3.6</td><td>16.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.898</td><td>1.898</td><td>4.3</td><td>22.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.384</td><td>2.384</td><td>4.5</td><td>25.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.635</td><td>2.635</td><td>4.5</td><td>27.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.576</td><td>2.576</td><td>4.5</td><td>27.2</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.409</td><td>2.409</td><td>4.5</td><td>26.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.047</td><td>2.047</td><td>4.5</td><td>23.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.858</td><td>1.858</td><td>4.2</td><td>21.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.708</td><td>1.708</td><td>4.0</td><td>19.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.574</td><td>1.574</td><td>3.8</td><td>18.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.347</td><td>1.347</td><td>3.4</td><td>15.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.011</td><td>1.011</td><td>2.9</td><td>11.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>97.678</td><td>0.678</td><td>2.4</td><td>7.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>97.457</td><td>0.457</td><td>2.0</td><td>5.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>97.187</td><td>0.187</td><td>1.6</td><td>2.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>97.052</td><td>0.052</td><td>1.4</td><td>0.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>97.042</td><td>0.042</td><td>1.2</td><td>0.5</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>97.037</td><td>0.037</td><td>1.0</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>97.033</td><td>0.033</td><td>0.9</td><td>0.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>98.645</td><td>1.645</td><td>3.9</td><td>19.1</td><td>O K</td></tr><tr><td>30 min Winter</td><td>99.259</td><td>2.259</td><td>4.5</td><td>25.0</td><td>O K</td></tr><tr><td>60 min Winter</td><td>99.956</td><td>2.956</td><td>4.5</td><td>29.9</td><td>Flood Risk</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>105.574</td><td>26</td></tr><tr><td>30 min Summer</td><td>72.145</td><td>36</td></tr><tr><td>60 min Summer</td><td>47.182</td><td>58</td></tr><tr><td>120 min Summer</td><td>29.832</td><td>92</td></tr><tr><td>180 min Summer</td><td>22.475</td><td>126</td></tr><tr><td>240 min Summer</td><td>18.245</td><td>160</td></tr><tr><td>360 min Summer</td><td>13.519</td><td>226</td></tr><tr><td>480 min Summer</td><td>10.929</td><td>292</td></tr><tr><td>600 min Summer</td><td>9.259</td><td>356</td></tr><tr><td>720 min Summer</td><td>8.080</td><td>420</td></tr><tr><td>960 min Summer</td><td>6.511</td><td>544</td></tr><tr><td>1440 min Summer</td><td>4.792</td><td>790</td></tr><tr><td>2160 min Summer</td><td>3.519</td><td>1152</td></tr><tr><td>2880 min Summer</td><td>2.822</td><td>1512</td></tr><tr><td>4320 min Summer</td><td>2.063</td><td>2220</td></tr><tr><td>5760 min Summer</td><td>1.649</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.388</td><td>3640</td></tr><tr><td>8640 min Summer</td><td>1.205</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.070</td><td>5032</td></tr><tr><td>15 min Winter</td><td>105.574</td><td>26</td></tr><tr><td>30 min Winter</td><td>72.145</td><td>37</td></tr><tr><td>60 min Winter</td><td>47.182</td><td>60</td></tr></tbody></table> |                         |                  |                                                                                     |                 |            | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 98.456 | 1.456 | 3.6 | 16.9 | O K | 30 min Summer | 98.898 | 1.898 | 4.3 | 22.1 | O K | 60 min Summer | 99.384 | 2.384 | 4.5 | 25.9 | O K | 120 min Summer | 99.635 | 2.635 | 4.5 | 27.6 | O K | 180 min Summer | 99.576 | 2.576 | 4.5 | 27.2 | O K | 240 min Summer | 99.409 | 2.409 | 4.5 | 26.1 | O K | 360 min Summer | 99.047 | 2.047 | 4.5 | 23.6 | O K | 480 min Summer | 98.858 | 1.858 | 4.2 | 21.6 | O K | 600 min Summer | 98.708 | 1.708 | 4.0 | 19.9 | O K | 720 min Summer | 98.574 | 1.574 | 3.8 | 18.3 | O K | 960 min Summer | 98.347 | 1.347 | 3.4 | 15.7 | O K | 1440 min Summer | 98.011 | 1.011 | 2.9 | 11.8 | O K | 2160 min Summer | 97.678 | 0.678 | 2.4 | 7.9 | O K | 2880 min Summer | 97.457 | 0.457 | 2.0 | 5.3 | O K | 4320 min Summer | 97.187 | 0.187 | 1.6 | 2.2 | O K | 5760 min Summer | 97.052 | 0.052 | 1.4 | 0.6 | O K | 7200 min Summer | 97.042 | 0.042 | 1.2 | 0.5 | O K | 8640 min Summer | 97.037 | 0.037 | 1.0 | 0.4 | O K | 10080 min Summer | 97.033 | 0.033 | 0.9 | 0.4 | O K | 15 min Winter | 98.645 | 1.645 | 3.9 | 19.1 | O K | 30 min Winter | 99.259 | 2.259 | 4.5 | 25.0 | O K | 60 min Winter | 99.956 | 2.956 | 4.5 | 29.9 | Flood Risk | Storm Event | Rain (mm/hr) | Time-Peak (mins) | 15 min Summer | 105.574 | 26 | 30 min Summer | 72.145 | 36 | 60 min Summer | 47.182 | 58 | 120 min Summer | 29.832 | 92 | 180 min Summer | 22.475 | 126 | 240 min Summer | 18.245 | 160 | 360 min Summer | 13.519 | 226 | 480 min Summer | 10.929 | 292 | 600 min Summer | 9.259 | 356 | 720 min Summer | 8.080 | 420 | 960 min Summer | 6.511 | 544 | 1440 min Summer | 4.792 | 790 | 2160 min Summer | 3.519 | 1152 | 2880 min Summer | 2.822 | 1512 | 4320 min Summer | 2.063 | 2220 | 5760 min Summer | 1.649 | 2936 | 7200 min Summer | 1.388 | 3640 | 8640 min Summer | 1.205 | 4384 | 10080 min Summer | 1.070 | 5032 | 15 min Winter | 105.574 | 26 | 30 min Winter | 72.145 | 37 | 60 min Winter | 47.182 | 60 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Max Volume (m³) | Status     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 98.456                  | 1.456            | 3.6                                                                                 | 16.9            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 98.898                  | 1.898            | 4.3                                                                                 | 22.1            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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25.9            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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27.6            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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27.2            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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26.1            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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23.6            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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21.6            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 98.708                  | 1.708            | 4.0                                                                                 | 19.9            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 98.574                  | 1.574            | 3.8                                                                                 | 18.3            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 98.347                  | 1.347            | 3.4                                                                                 | 15.7            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98.011                  | 1.011            | 2.9                                                                                 | 11.8            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.678                  | 0.678            | 2.4                                                                                 | 7.9             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.457                  | 0.457            | 2.0                                                                                 | 5.3             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.187                  | 0.187            | 1.6                                                                                 | 2.2             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.052                  | 0.052            | 1.4                                                                                 | 0.6             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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0.5             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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0.4             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97.033                  | 0.033            | 0.9                                                                                 | 0.4             | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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19.1            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 30 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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25.0            | O K        |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 60 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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29.9            | Flood Risk |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rain (mm/hr)            | Time-Peak (mins) |                                                                                     |                 |            |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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    |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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    |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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    |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |            |             |              |                  |               |         |    |               |        |    |               |        |    |                |        |    |                |        |     |                |        |     |                |        |     |                |        |     |                |       |     |                |       |     |                |       |     |                 |       |     |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                 |       |      |                  |       |      |               |         |    |               |        |    |               |        |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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  |    |               |        |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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  |    |               |        |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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             |            |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |   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  |    |               |        |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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  |    |               |        |    |
| 30 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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  |    |               |        |    |
| 60 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                                                                 |                         |               |                                                                                     |                 |            |
|-----------------------------------------------------------------|-------------------------|---------------|-------------------------------------------------------------------------------------|-----------------|------------|
| Veryards Ltd                                                    |                         |               | Page 2                                                                              |                 |            |
| Burton House                                                    | MAELOR PLACE            |               |  |                 |            |
| Rossett                                                         | RUABON                  |               |                                                                                     |                 |            |
| Wrexham LL12 0HY                                                | SA1 AND SA2             |               |                                                                                     |                 |            |
| Date 18/07/2014 16:03                                           | Designed by rtjgr0      |               |                                                                                     |                 |            |
| File RUABON.SRCX                                                | Checked by              |               |                                                                                     |                 |            |
| Micro Drainage                                                  | Source Control W.12.6.1 |               |                                                                                     |                 |            |
| <div>Summary of Results for 100 year Return Period (+30%)</div> |                         |               |                                                                                     |                 |            |
| Storm Event                                                     | Max Level (m)           | Max Depth (m) | Max Infiltration (l/s)                                                              | Max Volume (m³) | Status     |
| 120 min Winter                                                  | 100.002                 | 3.002         | 4.5                                                                                 | 31.7            | FLOOD      |
| 180 min Winter                                                  | 100.001                 | 3.001         | 4.5                                                                                 | 30.8            | FLOOD      |
| 240 min Winter                                                  | 99.822                  | 2.822         | 4.5                                                                                 | 28.9            | Flood Risk |
| 360 min Winter                                                  | 99.223                  | 2.223         | 4.5                                                                                 | 24.8            | O K        |
| 480 min Winter                                                  | 98.872                  | 1.872         | 4.3                                                                                 | 21.8            | O K        |
| 600 min Winter                                                  | 98.663                  | 1.663         | 3.9                                                                                 | 19.3            | O K        |
| 720 min Winter                                                  | 98.484                  | 1.484         | 3.6                                                                                 | 17.2            | O K        |
| 960 min Winter                                                  | 98.195                  | 1.195         | 3.2                                                                                 | 13.9            | O K        |
| 1440 min Winter                                                 | 97.795                  | 0.795         | 2.6                                                                                 | 9.2             | O K        |
| 2160 min Winter                                                 | 97.435                  | 0.435         | 2.0                                                                                 | 5.1             | O K        |
| 2880 min Winter                                                 | 97.215                  | 0.215         | 1.7                                                                                 | 2.5             | O K        |
| 4320 min Winter                                                 | 97.046                  | 0.046         | 1.3                                                                                 | 0.5             | O K        |
| 5760 min Winter                                                 | 97.036                  | 0.036         | 1.0                                                                                 | 0.4             | O K        |
| 7200 min Winter                                                 | 97.031                  | 0.031         | 0.9                                                                                 | 0.4             | O K        |
| 8640 min Winter                                                 | 97.027                  | 0.027         | 0.7                                                                                 | 0.3             | O K        |
| 10080 min Winter                                                | 97.024                  | 0.024         | 0.7                                                                                 | 0.3             | O K        |
| Storm Event                                                     | Rain (mm/hr)            |               | Time-Peak (mins)                                                                    |                 |            |
| 120 min Winter                                                  | 29.832                  |               | 100                                                                                 |                 |            |
| 180 min Winter                                                  | 22.475                  |               | 138                                                                                 |                 |            |
| 240 min Winter                                                  | 18.245                  |               | 174                                                                                 |                 |            |
| 360 min Winter                                                  | 13.519                  |               | 242                                                                                 |                 |            |
| 480 min Winter                                                  | 10.929                  |               | 306                                                                                 |                 |            |
| 600 min Winter                                                  | 9.259                   |               | 374                                                                                 |                 |            |
| 720 min Winter                                                  | 8.080                   |               | 438                                                                                 |                 |            |
| 960 min Winter                                                  | 6.511                   |               | 566                                                                                 |                 |            |
| 1440 min Winter                                                 | 4.792                   |               | 814                                                                                 |                 |            |
| 2160 min Winter                                                 | 3.519                   |               | 1176                                                                                |                 |            |
| 2880 min Winter                                                 | 2.822                   |               | 1536                                                                                |                 |            |
| 4320 min Winter                                                 | 2.063                   |               | 2156                                                                                |                 |            |
| 5760 min Winter                                                 | 1.649                   |               | 2936                                                                                |                 |            |
| 7200 min Winter                                                 | 1.388                   |               | 3584                                                                                |                 |            |
| 8640 min Winter                                                 | 1.205                   |               | 4288                                                                                |                 |            |
| 10080 min Winter                                                | 1.070                   |               | 5000                                                                                |                 |            |
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|                       |                    |                                                                                     |
|-----------------------|--------------------|-------------------------------------------------------------------------------------|
| Veryards Ltd          |                    | Page 3                                                                              |
| Burton House          | MAELOR PLACE       |  |
| Rossett               | RUABON             |                                                                                     |
| Wrexham LL12 0HY      | SA1 AND SA2        |                                                                                     |
| Date 18/07/2014 16:03 | Designed by rtjgr0 |                                                                                     |
| File RUABON.SRCX      | Checked by         |                                                                                     |

Micro Drainage Source Control W.12.6.1

#### Rainfall Details

|                       |                   |                       |       |
|-----------------------|-------------------|-----------------------|-------|
| Rainfall Model        | FSR               | Winter Storms         | Yes   |
| Return Period (years) | 100               | Cv (Summer)           | 0.750 |
| Region                | England and Wales | Cv (Winter)           | 0.840 |
| M5-60 (mm)            | 18.000            | Shortest Storm (mins) | 15    |
| Ratio R               | 0.319             | Longest Storm (mins)  | 10080 |
| Summer Storms         | Yes               | Climate Change %      | +30   |

#### Time / Area Diagram

Total Area (ha) 0.104

| Time<br>(mins) | Area<br>(ha) | Time<br>(mins) | Area<br>(ha) | Time<br>(mins) | Area<br>(ha) | Time<br>(mins) | Area<br>(ha) |
|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| 0-4            | 0.026        | 4-8            | 0.026        | 8-12           | 0.026        | 12-16          | 0.026        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------|------|--------------------------------------|---------|----------------|-----|---------------|-----|-----------------|---|----------|------|----------------------|-------|------------------|--------|----------------------------|-------|
| Veryards Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | Page 4                                                                              |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Burton House                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAELOR PLACE       |  |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Rossett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RUABON             |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Wrexham LL12 0HY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SA1 AND SA2        |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Date 18/07/2014 16:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Designed by rtjgr0 |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| File RUABON.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Checked by         |                                                                                     |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | Source Control W.12.6.1                                                             |                                      |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| <p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 100.000</p> <p style="text-align: center;"><u>Lined Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.21000</td> <td>Ring Diameter (m)</td> <td>2.10</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.21000</td> <td>Pit Multiplier</td> <td>1.6</td> </tr> <tr> <td>Safety Factor</td> <td>1.0</td> <td>Number Required</td> <td>2</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>3.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>97.000</td> <td>Cap Infiltration Depth (m)</td> <td>2.000</td> </tr> </table> |                    |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.21000 | Ring Diameter (m) | 2.10 | Infiltration Coefficient Side (m/hr) | 0.21000 | Pit Multiplier | 1.6 | Safety Factor | 1.0 | Number Required | 2 | Porosity | 0.30 | Cap Volume Depth (m) | 3.000 | Invert Level (m) | 97.000 | Cap Infiltration Depth (m) | 2.000 |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.21000            | Ring Diameter (m)                                                                   | 2.10                                 |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Infiltration Coefficient Side (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.21000            | Pit Multiplier                                                                      | 1.6                                  |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.0                | Number Required                                                                     | 2                                    |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.30               | Cap Volume Depth (m)                                                                | 3.000                                |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97.000             | Cap Infiltration Depth (m)                                                          | 2.000                                |         |                   |      |                                      |         |                |     |               |     |                 |   |          |      |                      |       |                  |        |                            |       |
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