

| MTC Engineering (Cambridge) Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Ground Floor, 24 High Street<br>Whittlesford<br>Cambs, CB22 4LT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Church, Albert Hill<br>Street, Didsbury<br>Soakaway |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     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| Date 06/06/2023 14:47<br>File 2677- SOAKAWAY.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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SEC<br>Checked by                               |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |   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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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2020.1.3                                     |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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|     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| <div>Summary of Results for 100 year Return Period (+40%)</div> <div>Half Drain Time : 241 minutes.</div> <table><thead><tr><th>Storm<br/>Event</th><th>Max<br/>Level<br/>(m)</th><th>Max<br/>Depth<br/>(m)</th><th>Max<br/>Infiltration<br/>(l/s)</th><th>Max<br/>Volume<br/>(m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>35.420</td><td>1.820</td><td>0.4</td><td>9.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>35.483</td><td>1.883</td><td>0.8</td><td>12.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>35.548</td><td>1.948</td><td>0.8</td><td>14.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>35.604</td><td>2.004</td><td>0.8</td><td>17.4</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>35.625</td><td>2.025</td><td>0.8</td><td>18.4</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>35.635</td><td>2.035</td><td>0.8</td><td>18.8</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>35.642</td><td>2.042</td><td>0.8</td><td>19.1</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>35.643</td><td>2.043</td><td>0.8</td><td>19.2</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>35.640</td><td>2.040</td><td>0.8</td><td>19.0</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>35.634</td><td>2.034</td><td>0.8</td><td>18.8</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>35.617</td><td>2.017</td><td>0.8</td><td>18.0</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>35.577</td><td>1.977</td><td>0.8</td><td>16.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>35.520</td><td>1.920</td><td>0.8</td><td>13.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>35.478</td><td>1.878</td><td>0.8</td><td>11.8</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>35.444</td><td>1.844</td><td>0.7</td><td>10.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>35.433</td><td>1.833</td><td>0.6</td><td>9.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>35.426</td><td>1.826</td><td>0.5</td><td>9.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>35.421</td><td>1.821</td><td>0.4</td><td>9.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>35.417</td><td>1.817</td><td>0.4</td><td>8.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>35.444</td><td>1.844</td><td>0.7</td><td>10.2</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm<br/>Event</th><th>Rain<br/>(mm/hr)</th><th>Flooded<br/>Volume<br/>(m³)</th><th>Time-Peak<br/>(mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>118.613</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>79.413</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>50.812</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>31.468</td><td>0.0</td><td>120</td></tr><tr><td>180 min Summer</td><td>23.466</td><td>0.0</td><td>174</td></tr><tr><td>240 min Summer</td><td>18.940</td><td>0.0</td><td>200</td></tr><tr><td>360 min Summer</td><td>13.882</td><td>0.0</td><td>262</td></tr><tr><td>480 min Summer</td><td>11.143</td><td>0.0</td><td>330</td></tr><tr><td>600 min Summer</td><td>9.389</td><td>0.0</td><td>398</td></tr><tr><td>720 min Summer</td><td>8.158</td><td>0.0</td><td>466</td></tr><tr><td>960 min Summer</td><td>6.531</td><td>0.0</td><td>600</td></tr><tr><td>1440 min Summer</td><td>4.764</td><td>0.0</td><td>864</td></tr><tr><td>2160 min Summer</td><td>3.468</td><td>0.0</td><td>1212</td></tr><tr><td>2880 min Summer</td><td>2.766</td><td>0.0</td><td>1556</td></tr><tr><td>4320 min Summer</td><td>2.007</td><td>0.0</td><td>2208</td></tr><tr><td>5760 min Summer</td><td>1.596</td><td>0.0</td><td>2944</td></tr><tr><td>7200 min Summer</td><td>1.336</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.154</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.020</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>118.613</td><td>0.0</td><td>18</td></tr></tbody></table> |                     |                           |                                                             |                       |            |  | Storm<br>Event | Max<br>Level<br>(m) | Max<br>Depth<br>(m) | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status | 15 min Summer | 35.420 | 1.820 | 0.4 | 9.1 | O K | 30 min Summer | 35.483 | 1.883 | 0.8 | 12.0 | O K | 60 min Summer | 35.548 | 1.948 | 0.8 | 14.9 | O K | 120 min Summer | 35.604 | 2.004 | 0.8 | 17.4 | Flood Risk | 180 min Summer | 35.625 | 2.025 | 0.8 | 18.4 | Flood Risk | 240 min Summer | 35.635 | 2.035 | 0.8 | 18.8 | Flood Risk | 360 min Summer | 35.642 | 2.042 | 0.8 | 19.1 | Flood Risk | 480 min Summer | 35.643 | 2.043 | 0.8 | 19.2 | Flood Risk | 600 min Summer | 35.640 | 2.040 | 0.8 | 19.0 | Flood Risk | 720 min Summer | 35.634 | 2.034 | 0.8 | 18.8 | Flood Risk | 960 min Summer | 35.617 | 2.017 | 0.8 | 18.0 | Flood Risk | 1440 min Summer | 35.577 | 1.977 | 0.8 | 16.2 | O K | 2160 min Summer | 35.520 | 1.920 | 0.8 | 13.7 | O K | 2880 min Summer | 35.478 | 1.878 | 0.8 | 11.8 | O K | 4320 min Summer | 35.444 | 1.844 | 0.7 | 10.2 | O K | 5760 min Summer | 35.433 | 1.833 | 0.6 | 9.7 | O K | 7200 min Summer | 35.426 | 1.826 | 0.5 | 9.4 | O K | 8640 min Summer | 35.421 | 1.821 | 0.4 | 9.1 | O K | 10080 min Summer | 35.417 | 1.817 | 0.4 | 8.9 | O K | 15 min Winter | 35.444 | 1.844 | 0.7 | 10.2 | O K | Storm<br>Event | Rain<br>(mm/hr) | Flooded<br>Volume<br>(m³) | Time-Peak<br>(mins) | 15 min Summer | 118.613 | 0.0 | 19 | 30 min Summer | 79.413 | 0.0 | 33 | 60 min Summer | 50.812 | 0.0 | 62 | 120 min Summer | 31.468 | 0.0 | 120 | 180 min Summer | 23.466 | 0.0 | 174 | 240 min Summer | 18.940 | 0.0 | 200 | 360 min Summer | 13.882 | 0.0 | 262 | 480 min Summer | 11.143 | 0.0 | 330 | 600 min Summer | 9.389 | 0.0 | 398 | 720 min Summer | 8.158 | 0.0 | 466 | 960 min Summer | 6.531 | 0.0 | 600 | 1440 min Summer | 4.764 | 0.0 | 864 | 2160 min Summer | 3.468 | 0.0 | 1212 | 2880 min Summer | 2.766 | 0.0 | 1556 | 4320 min Summer | 2.007 | 0.0 | 2208 | 5760 min Summer | 1.596 | 0.0 | 2944 | 7200 min Summer | 1.336 | 0.0 | 3672 | 8640 min Summer | 1.154 | 0.0 | 4408 | 10080 min Summer | 1.020 | 0.0 | 5144 | 15 min Winter | 118.613 | 0.0 | 18 |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Max<br>Infiltration<br>(l/s)                                | Max<br>Volume<br>(m³) | Status     |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |     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       |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.420              | 1.820                     | 0.4                                                         | 9.1                   | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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|     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.483              | 1.883                     | 0.8                                                         | 12.0                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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|     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.548              | 1.948                     | 0.8                                                         | 14.9                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.604              | 2.004                     | 0.8                                                         | 17.4                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.625              | 2.025                     | 0.8                                                         | 18.4                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.635              | 2.035                     | 0.8                                                         | 18.8                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.642              | 2.042                     | 0.8                                                         | 19.1                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.643              | 2.043                     | 0.8                                                         | 19.2                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.640              | 2.040                     | 0.8                                                         | 19.0                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.634              | 2.034                     | 0.8                                                         | 18.8                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.617              | 2.017                     | 0.8                                                         | 18.0                  | Flood Risk |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.577              | 1.977                     | 0.8                                                         | 16.2                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.520              | 1.920                     | 0.8                                                         | 13.7                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.478              | 1.878                     | 0.8                                                         | 11.8                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.444              | 1.844                     | 0.7                                                         | 10.2                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.433              | 1.833                     | 0.6                                                         | 9.7                   | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.426              | 1.826                     | 0.5                                                         | 9.4                   | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.421              | 1.821                     | 0.4                                                         | 9.1                   | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35.417              | 1.817                     | 0.4                                                         | 8.9                   | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.444              | 1.844                     | 0.7                                                         | 10.2                  | O K        |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Time-Peak<br>(mins)                                         |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 118.613             | 0.0                       | 19                                                          |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 79.413              | 0.0                       | 33                                                          |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50.812              | 0.0                       | 62                                                          |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 31.468              | 0.0                       | 120                                                         |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13.882              | 0.0                       | 262                                                         |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 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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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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|     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      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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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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                             |                       |            |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                |        |       |     |      |            |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|     |                 |        |       |     |      |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |      |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |

|                                                                 |                     |                                                             |                              |                       |                                                                                     |
|-----------------------------------------------------------------|---------------------|-------------------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| MTC Engineering (Cambridge) Ltd                                 |                     |                                                             |                              | Page 2                |                                                                                     |
| Ground Floor, 24 High Street<br>Whittlesford<br>Cambs, CB22 4LT |                     | The Old Church, Albert Hill<br>Street, Didsbury<br>Soakaway |                              |                       |  |
| Date 06/06/2023 14:47<br>File 2677- SOAKAWAY.SRCX               |                     | Designed by SEC<br>Checked by                               |                              |                       |                                                                                     |
| Innovyze                                                        |                     | Source Control 2020.1.3                                     |                              |                       |                                                                                     |
| <u>Summary of Results for 100 year Return Period (+40%)</u>     |                     |                                                             |                              |                       |                                                                                     |
| Storm<br>Event                                                  | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                         | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                                   | 35.518              | 1.918                                                       |                              | 0.8 13.6              | O K                                                                                 |
| 60 min Winter                                                   | 35.593              | 1.993                                                       |                              | 0.8 17.0              | O K                                                                                 |
| 120 min Winter                                                  | 35.660              | 2.060                                                       |                              | 0.8 20.0              | Flood Risk                                                                          |
| 180 min Winter                                                  | 35.687              | 2.087                                                       |                              | 0.8 21.2              | Flood Risk                                                                          |
| 240 min Winter                                                  | 35.696              | 2.096                                                       |                              | 0.8 21.6              | Flood Risk                                                                          |
| 360 min Winter                                                  | 35.697              | 2.097                                                       |                              | 0.8 21.6              | Flood Risk                                                                          |
| 480 min Winter                                                  | 35.693              | 2.093                                                       |                              | 0.8 21.4              | Flood Risk                                                                          |
| 600 min Winter                                                  | 35.683              | 2.083                                                       |                              | 0.8 21.0              | Flood Risk                                                                          |
| 720 min Winter                                                  | 35.670              | 2.070                                                       |                              | 0.8 20.4              | Flood Risk                                                                          |
| 960 min Winter                                                  | 35.638              | 2.038                                                       |                              | 0.8 19.0              | Flood Risk                                                                          |
| 1440 min Winter                                                 | 35.570              | 1.970                                                       |                              | 0.8 15.9              | O K                                                                                 |
| 2160 min Winter                                                 | 35.483              | 1.883                                                       |                              | 0.8 12.0              | O K                                                                                 |
| 2880 min Winter                                                 | 35.447              | 1.847                                                       |                              | 0.7 10.3              | O K                                                                                 |
| 4320 min Winter                                                 | 35.430              | 1.830                                                       |                              | 0.5 9.6               | O K                                                                                 |
| 5760 min Winter                                                 | 35.421              | 1.821                                                       |                              | 0.4 9.1               | O K                                                                                 |
| 7200 min Winter                                                 | 35.416              | 1.816                                                       |                              | 0.4 8.9               | O K                                                                                 |
| 8640 min Winter                                                 | 35.411              | 1.811                                                       |                              | 0.3 8.7               | O K                                                                                 |
| 10080 min Winter                                                | 35.408              | 1.808                                                       |                              | 0.3 8.5               | O K                                                                                 |
| Storm<br>Event                                                  |                     | Rain<br>(mm/hr)                                             | Flooded<br>Volume<br>(m³)    | Time-Peak<br>(mins)   |                                                                                     |
| 30 min Winter                                                   |                     | 79.413                                                      | 0.0                          | 32                    |                                                                                     |
| 60 min Winter                                                   |                     | 50.812                                                      | 0.0                          | 62                    |                                                                                     |
| 120 min Winter                                                  |                     | 31.468                                                      | 0.0                          | 118                   |                                                                                     |
| 180 min Winter                                                  |                     | 23.466                                                      | 0.0                          | 174                   |                                                                                     |
| 240 min Winter                                                  |                     | 18.940                                                      | 0.0                          | 228                   |                                                                                     |
| 360 min Winter                                                  |                     | 13.882                                                      | 0.0                          | 284                   |                                                                                     |
| 480 min Winter                                                  |                     | 11.143                                                      | 0.0                          | 360                   |                                                                                     |
| 600 min Winter                                                  |                     | 9.389                                                       | 0.0                          | 434                   |                                                                                     |
| 720 min Winter                                                  |                     | 8.158                                                       | 0.0                          | 508                   |                                                                                     |
| 960 min Winter                                                  |                     | 6.531                                                       | 0.0                          | 652                   |                                                                                     |
| 1440 min Winter                                                 |                     | 4.764                                                       | 0.0                          | 910                   |                                                                                     |
| 2160 min Winter                                                 |                     | 3.468                                                       | 0.0                          | 1236                  |                                                                                     |
| 2880 min Winter                                                 |                     | 2.766                                                       | 0.0                          | 1500                  |                                                                                     |
| 4320 min Winter                                                 |                     | 2.007                                                       | 0.0                          | 2208                  |                                                                                     |
| 5760 min Winter                                                 |                     | 1.596                                                       | 0.0                          | 2944                  |                                                                                     |
| 7200 min Winter                                                 |                     | 1.336                                                       | 0.0                          | 3656                  |                                                                                     |
| 8640 min Winter                                                 |                     | 1.154                                                       | 0.0                          | 4416                  |                                                                                     |
| 10080 min Winter                                                |                     | 1.020                                                       | 0.0                          | 5144                  |                                                                                     |
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|                                                                 |                                                             |                                                                                     |
|-----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|
| MTC Engineering (Cambridge) Ltd                                 |                                                             | Page 3                                                                              |
| Ground Floor, 24 High Street<br>Whittlesford<br>Cambs, CB22 4LT | The Old Church, Albert Hill<br>Street, Didsbury<br>Soakaway |  |
| Date 06/06/2023 14:47<br>File 2677- SOAKAWAY.SRCX               | Designed by SEC<br>Checked by                               |                                                                                     |
| Innovyze                                                        |                                                             | Source Control 2020.1.3                                                             |

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               | 0.360             | Longest Storm (mins)  | 10080 |
| Summer Storms         | Yes               | Climate Change %      | +40   |

Time Area Diagram

Total Area (ha) 0.045

| Time (mins) | Area     |
|-------------|----------|
| From:       | To: (ha) |
| 0           | 4 0.045  |

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| MTC Engineering (Cambridge) Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             | Page 4                                                                              |           |           |                |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|-------|------|------|-------|-----|------|
| Ground Floor, 24 High Street<br>Whittlesford<br>Cambs, CB22 4LT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The Old Church, Albert Hill<br>Street, Didsbury<br>Soakaway |  |           |           |                |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| Date 06/06/2023 14:47<br>File 2677- SOAKAWAY.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Designed by SEC<br>Checked by                               |                                                                                     |           |           |                |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |                                                                                     |           |           |                |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                             |                                                                                     |           |           |                |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 35.900</div> <div>Complex Structure</div> <div>Cellular Storage</div> <div>Invert Level (m) 33.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02800 Porosity 0.30<br/>Infiltration Coefficient Side (m/hr) 0.02800</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>15.0</td><td>15.0</td><td>1.300</td><td>15.0</td><td>35.1</td></tr><tr><td>0.100</td><td>15.0</td><td>16.5</td><td>1.400</td><td>15.0</td><td>36.7</td></tr><tr><td>0.200</td><td>15.0</td><td>18.1</td><td>1.500</td><td>15.0</td><td>38.2</td></tr><tr><td>0.300</td><td>15.0</td><td>19.6</td><td>1.600</td><td>15.0</td><td>39.8</td></tr><tr><td>0.400</td><td>15.0</td><td>21.2</td><td>1.700</td><td>15.0</td><td>41.3</td></tr><tr><td>0.500</td><td>15.0</td><td>22.7</td><td>1.800</td><td>15.0</td><td>42.9</td></tr><tr><td>0.600</td><td>15.0</td><td>24.3</td><td>1.900</td><td>0.0</td><td>43.7</td></tr><tr><td>0.700</td><td>15.0</td><td>25.8</td><td>2.000</td><td>0.0</td><td>43.7</td></tr><tr><td>0.800</td><td>15.0</td><td>27.4</td><td>2.100</td><td>0.0</td><td>43.7</td></tr><tr><td>0.900</td><td>15.0</td><td>28.9</td><td>2.200</td><td>0.0</td><td>43.7</td></tr><tr><td>1.000</td><td>15.0</td><td>30.5</td><td>2.300</td><td>0.0</td><td>43.7</td></tr><tr><td>1.100</td><td>15.0</td><td>32.0</td><td>2.400</td><td>0.0</td><td>43.7</td></tr><tr><td>1.200</td><td>15.0</td><td>33.6</td><td>2.500</td><td>0.0</td><td>43.7</td></tr></table> <div>Porous Car Park</div> <div>Infiltration Coefficient Base (m/hr) 0.02800 Width (m) 10.0<br/>Membrane Percolation (mm/hr) 1000 Length (m) 15.0<br/>Max Percolation (l/s) 41.7 Slope (1:X) 0.0<br/>Safety Factor 2.0 Depression Storage (mm) 5<br/>Porosity 0.30 Evaporation (mm/day) 3<br/>Invert Level (m) 35.400 Membrane Depth (m) 0</div> |                                                             |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 15.0 | 15.0 | 1.300 | 15.0 | 35.1 | 0.100 | 15.0 | 16.5 | 1.400 | 15.0 | 36.7 | 0.200 | 15.0 | 18.1 | 1.500 | 15.0 | 38.2 | 0.300 | 15.0 | 19.6 | 1.600 | 15.0 | 39.8 | 0.400 | 15.0 | 21.2 | 1.700 | 15.0 | 41.3 | 0.500 | 15.0 | 22.7 | 1.800 | 15.0 | 42.9 | 0.600 | 15.0 | 24.3 | 1.900 | 0.0 | 43.7 | 0.700 | 15.0 | 25.8 | 2.000 | 0.0 | 43.7 | 0.800 | 15.0 | 27.4 | 2.100 | 0.0 | 43.7 | 0.900 | 15.0 | 28.9 | 2.200 | 0.0 | 43.7 | 1.000 | 15.0 | 30.5 | 2.300 | 0.0 | 43.7 | 1.100 | 15.0 | 32.0 | 2.400 | 0.0 | 43.7 | 1.200 | 15.0 | 33.6 | 2.500 | 0.0 | 43.7 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                                   | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 15.0                                                                                | 1.300     | 15.0      | 35.1           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 16.5                                                                                | 1.400     | 15.0      | 36.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 18.1                                                                                | 1.500     | 15.0      | 38.2           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 19.6                                                                                | 1.600     | 15.0      | 39.8           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 21.2                                                                                | 1.700     | 15.0      | 41.3           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 22.7                                                                                | 1.800     | 15.0      | 42.9           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 24.3                                                                                | 1.900     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 25.8                                                                                | 2.000     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 27.4                                                                                | 2.100     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 0.900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 28.9                                                                                | 2.200     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 30.5                                                                                | 2.300     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 1.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 32.0                                                                                | 2.400     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
| 1.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.0                                                        | 33.6                                                                                | 2.500     | 0.0       | 43.7           |           |           |                |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |       |      |      |       |     |      |
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