

| Campbell Reith Hill LLP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Strategy<br>Plot 11&12 & 13&14 Soakaway |                              |                       |  |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |  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| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| <p style="text-align: center;"><u>Summary of Results for 100 year Return Period (+30%)</u></p> <p style="text-align: center;">Half Drain Time : 309 minutes.</p> <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>71.572</td><td>0.572</td><td>0.2</td><td>4.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>71.774</td><td>0.774</td><td>0.3</td><td>5.9</td><td>O K</td></tr><tr><td>60 min Summer</td><td>71.980</td><td>0.980</td><td>0.3</td><td>7.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>72.154</td><td>1.154</td><td>0.3</td><td>8.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>72.210</td><td>1.210</td><td>0.3</td><td>9.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>72.227</td><td>1.227</td><td>0.3</td><td>9.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>72.238</td><td>1.238</td><td>0.3</td><td>9.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>72.229</td><td>1.229</td><td>0.3</td><td>9.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>72.211</td><td>1.211</td><td>0.3</td><td>9.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>72.188</td><td>1.188</td><td>0.3</td><td>9.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>72.138</td><td>1.138</td><td>0.3</td><td>8.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>72.040</td><td>1.040</td><td>0.3</td><td>8.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>71.902</td><td>0.902</td><td>0.3</td><td>6.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>71.780</td><td>0.780</td><td>0.3</td><td>6.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>71.583</td><td>0.583</td><td>0.2</td><td>4.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>71.434</td><td>0.434</td><td>0.2</td><td>3.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>71.320</td><td>0.320</td><td>0.2</td><td>2.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>71.230</td><td>0.230</td><td>0.2</td><td>1.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>71.160</td><td>0.160</td><td>0.2</td><td>1.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>71.644</td><td>0.644</td><td>0.2</td><td>4.9</td><td>O K</td></tr></tbody></table><br><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>116.002</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>79.998</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>52.662</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>33.322</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>24.998</td><td>0.0</td><td>180</td></tr><tr><td>240 min Summer</td><td>20.313</td><td>0.0</td><td>218</td></tr><tr><td>360 min Summer</td><td>15.144</td><td>0.0</td><td>280</td></tr><tr><td>480 min Summer</td><td>12.271</td><td>0.0</td><td>346</td></tr><tr><td>600 min Summer</td><td>10.413</td><td>0.0</td><td>414</td></tr><tr><td>720 min Summer</td><td>9.099</td><td>0.0</td><td>484</td></tr><tr><td>960 min Summer</td><td>7.345</td><td>0.0</td><td>624</td></tr><tr><td>1440 min Summer</td><td>5.419</td><td>0.0</td><td>896</td></tr><tr><td>2160 min Summer</td><td>3.986</td><td>0.0</td><td>1296</td></tr><tr><td>2880 min Summer</td><td>3.200</td><td>0.0</td><td>1676</td></tr><tr><td>4320 min Summer</td><td>2.349</td><td>0.0</td><td>2424</td></tr><tr><td>5760 min Summer</td><td>1.888</td><td>0.0</td><td>3176</td></tr><tr><td>7200 min Summer</td><td>1.594</td><td>0.0</td><td>3888</td></tr><tr><td>8640 min Summer</td><td>1.389</td><td>0.0</td><td>4584</td></tr><tr><td>10080 min Summer</td><td>1.237</td><td>0.0</td><td>5256</td></tr><tr><td>15 min Winter</td><td>116.002</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 | 71.572 | 0.572 | 0.2 | 4.4 | O K | 30 min Summer | 71.774 | 0.774 | 0.3 | 5.9 | O K | 60 min Summer | 71.980 | 0.980 | 0.3 | 7.5 | O K | 120 min Summer | 72.154 | 1.154 | 0.3 | 8.8 | O K | 180 min Summer | 72.210 | 1.210 | 0.3 | 9.3 | O K | 240 min Summer | 72.227 | 1.227 | 0.3 | 9.4 | O K | 360 min Summer | 72.238 | 1.238 | 0.3 | 9.5 | O K | 480 min Summer | 72.229 | 1.229 | 0.3 | 9.4 | O K | 600 min Summer | 72.211 | 1.211 | 0.3 | 9.3 | O K | 720 min Summer | 72.188 | 1.188 | 0.3 | 9.1 | O K | 960 min Summer | 72.138 | 1.138 | 0.3 | 8.7 | O K | 1440 min Summer | 72.040 | 1.040 | 0.3 | 8.0 | O K | 2160 min Summer | 71.902 | 0.902 | 0.3 | 6.9 | O K | 2880 min Summer | 71.780 | 0.780 | 0.3 | 6.0 | O K | 4320 min Summer | 71.583 | 0.583 | 0.2 | 4.5 | O K | 5760 min Summer | 71.434 | 0.434 | 0.2 | 3.3 | O K | 7200 min Summer | 71.320 | 0.320 | 0.2 | 2.4 | O K | 8640 min Summer | 71.230 | 0.230 | 0.2 | 1.8 | O K | 10080 min Summer | 71.160 | 0.160 | 0.2 | 1.2 | O K | 15 min Winter | 71.644 | 0.644 | 0.2 | 4.9 | O K | Storm<br>Event | Rain<br>(mm/hr) | Flooded<br>Volume<br>(m³) | Time-Peak<br>(mins) | 15 min Summer | 116.002 | 0.0 | 18 | 30 min Summer | 79.998 | 0.0 | 33 | 60 min Summer | 52.662 | 0.0 | 62 | 120 min Summer | 33.322 | 0.0 | 122 | 180 min Summer | 24.998 | 0.0 | 180 | 240 min Summer | 20.313 | 0.0 | 218 | 360 min Summer | 15.144 | 0.0 | 280 | 480 min Summer | 12.271 | 0.0 | 346 | 600 min Summer | 10.413 | 0.0 | 414 | 720 min Summer | 9.099 | 0.0 | 484 | 960 min Summer | 7.345 | 0.0 | 624 | 1440 min Summer | 5.419 | 0.0 | 896 | 2160 min Summer | 3.986 | 0.0 | 1296 | 2880 min Summer | 3.200 | 0.0 | 1676 | 4320 min Summer | 2.349 | 0.0 | 2424 | 5760 min Summer | 1.888 | 0.0 | 3176 | 7200 min Summer | 1.594 | 0.0 | 3888 | 8640 min Summer | 1.389 | 0.0 | 4584 | 10080 min Summer | 1.237 | 0.0 | 5256 | 15 min Winter | 116.002 | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71.572              | 0.572                                                                              | 0.2                          | 4.4                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71.774              | 0.774                                                                              | 0.3                          | 5.9                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71.980              | 0.980                                                                              | 0.3                          | 7.5                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 8.8                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.3                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.4                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.5                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.4                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.3                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 9.1                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 0.3                          | 8.7                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 0.3                          | 8.0                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 0.3                          | 6.9                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 0.3                          | 6.0                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 0.2                          | 4.5                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 71.434              | 0.434                                                                              | 0.2                          | 3.3                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 71.320              | 0.320                                                                              | 0.2                          | 2.4                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 71.230              | 0.230                                                                              | 0.2                          | 1.8                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                            | 0.2                          | 1.2                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                            | 0.2                          | 4.9                   | O K                                                                                 |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | Time-Peak<br>(mins)          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                            | 18                           |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                            | 33                           |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                            | 62                           |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 122                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 180                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 218                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15.144              | 0.0                                                                                | 280                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 346                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 414                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 484                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            | 624                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 896                          |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 1296                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 1676                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 2424                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 3176                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 3888                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |    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      |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                            | 4584                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                            | 5256                         |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 116.002             | 0.0                                                                                | 18                           |                       |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
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   |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |                |                 |                           |                     |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |

|                                                             |                     |                                                                                    |                              |                       |                                                                                     |
|-------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Campbell Reith Hill LLP                                     |                     |                                                                                    |                              | Page 2                |                                                                                     |
| Raven House<br>29 Linkfield Lane<br>Surrey RH1 1SS          |                     | 11557: Station Road, Barnsley<br>Prelim SW Strategy<br>Plot 11&12 & 13&14 Soakaway |                              |                       |  |
| Date 12/06/2014 10:24<br>File PLOTS 11-14.SRCX              |                     | Designed by TF<br>Checked by                                                       |                              |                       |                                                                                     |
| Micro Drainage                                              |                     | Source Control 2014.1.1                                                            |                              |                       |                                                                                     |
| <u>Summary of Results for 100 year Return Period (+30%)</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                                               | 71.872              | 0.872                                                                              | 0.3                          | 6.7                   | O K                                                                                 |
| 60 min Winter                                               | 72.108              | 1.108                                                                              | 0.3                          | 8.5                   | O K                                                                                 |
| 120 min Winter                                              | 72.314              | 1.314                                                                              | 0.3                          | 10.1                  | O K                                                                                 |
| 180 min Winter                                              | 72.388              | 1.388                                                                              | 0.4                          | 10.6                  | O K                                                                                 |
| 240 min Winter                                              | 72.416              | 1.416                                                                              | 0.4                          | 10.8                  | O K                                                                                 |
| 360 min Winter                                              | 72.423              | 1.423                                                                              | 0.4                          | 10.9                  | O K                                                                                 |
| 480 min Winter                                              | 72.413              | 1.413                                                                              | 0.4                          | 10.8                  | O K                                                                                 |
| 600 min Winter                                              | 72.387              | 1.387                                                                              | 0.3                          | 10.6                  | O K                                                                                 |
| 720 min Winter                                              | 72.352              | 1.352                                                                              | 0.3                          | 10.3                  | O K                                                                                 |
| 960 min Winter                                              | 72.273              | 1.273                                                                              | 0.3                          | 9.7                   | O K                                                                                 |
| 1440 min Winter                                             | 72.121              | 1.121                                                                              | 0.3                          | 8.6                   | O K                                                                                 |
| 2160 min Winter                                             | 71.917              | 0.917                                                                              | 0.3                          | 7.0                   | O K                                                                                 |
| 2880 min Winter                                             | 71.745              | 0.745                                                                              | 0.3                          | 5.7                   | O K                                                                                 |
| 4320 min Winter                                             | 71.483              | 0.483                                                                              | 0.2                          | 3.7                   | O K                                                                                 |
| 5760 min Winter                                             | 71.296              | 0.296                                                                              | 0.2                          | 2.3                   | O K                                                                                 |
| 7200 min Winter                                             | 71.162              | 0.162                                                                              | 0.2                          | 1.2                   | O K                                                                                 |
| 8640 min Winter                                             | 71.072              | 0.072                                                                              | 0.2                          | 0.5                   | O K                                                                                 |
| 10080 min Winter                                            | 71.047              | 0.047                                                                              | 0.2                          | 0.4                   | O K                                                                                 |
| Storm<br>Event                                              | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                                                          | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                               | 79.998              | 0.0                                                                                | 33                           |                       |                                                                                     |
| 60 min Winter                                               | 52.662              | 0.0                                                                                | 62                           |                       |                                                                                     |
| 120 min Winter                                              | 33.322              | 0.0                                                                                | 118                          |                       |                                                                                     |
| 180 min Winter                                              | 24.998              | 0.0                                                                                | 176                          |                       |                                                                                     |
| 240 min Winter                                              | 20.313              | 0.0                                                                                | 230                          |                       |                                                                                     |
| 360 min Winter                                              | 15.144              | 0.0                                                                                | 290                          |                       |                                                                                     |
| 480 min Winter                                              | 12.271              | 0.0                                                                                | 366                          |                       |                                                                                     |
| 600 min Winter                                              | 10.413              | 0.0                                                                                | 444                          |                       |                                                                                     |
| 720 min Winter                                              | 9.099               | 0.0                                                                                | 522                          |                       |                                                                                     |
| 960 min Winter                                              | 7.345               | 0.0                                                                                | 674                          |                       |                                                                                     |
| 1440 min Winter                                             | 5.419               | 0.0                                                                                | 966                          |                       |                                                                                     |
| 2160 min Winter                                             | 3.986               | 0.0                                                                                | 1384                         |                       |                                                                                     |
| 2880 min Winter                                             | 3.200               | 0.0                                                                                | 1784                         |                       |                                                                                     |
| 4320 min Winter                                             | 2.349               | 0.0                                                                                | 2548                         |                       |                                                                                     |
| 5760 min Winter                                             | 1.888               | 0.0                                                                                | 3288                         |                       |                                                                                     |
| 7200 min Winter                                             | 1.594               | 0.0                                                                                | 3960                         |                       |                                                                                     |
| 8640 min Winter                                             | 1.389               | 0.0                                                                                | 4576                         |                       |                                                                                     |
| 10080 min Winter                                            | 1.237               | 0.0                                                                                | 5096                         |                       |                                                                                     |
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|                                                    |                                                                                    |                                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Campbell Reith Hill LLP                            |                                                                                    | Page 4                                                                              |
| Raven House<br>29 Linkfield Lane<br>Surrey RH1 1SS | 11557: Station Road, Barnsley<br>Prelim SW Strategy<br>Plot 11&12 & 13&14 Soakaway |  |
| Date 12/06/2014 10:24<br>File PLOTS 11-14.SRCX     | Designed by TF<br>Checked by                                                       |                                                                                     |
| Micro Drainage                                     | Source Control 2014.1.1                                                            |                                                                                     |

#### Model Details

Storage is Online Cover Level (m) 73.500

#### Trench Soakaway Structure

|                                      |         |                            |       |
|--------------------------------------|---------|----------------------------|-------|
| Infiltration Coefficient Base (m/hr) | 0.04390 | Trench Width (m)           | 3.0   |
| Infiltration Coefficient Side (m/hr) | 0.04390 | Trench Length (m)          | 8.5   |
| Safety Factor                        | 2.0     | Slope (1:X)                | 0.0   |
| Porosity                             | 0.30    | Cap Volume Depth (m)       | 0.000 |
| Invert Level (m)                     | 71.000  | Cap Infiltration Depth (m) | 1.500 |

Event: 360 min Winter

