

| MJA Consulting                                                                                                                                                                                                                                                                                                 |                                              | Page 1                                                                              |                |              |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|----------------|--------------|-----|-------|
| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ                                                                                                                                                                                                                                                                  | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |                |              |     |       |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX                                                                                                                                                                                                                                                               | Designed by AMc<br>Checked by                |                                                                                     |                |              |     |       |
| Micro Drainage Network 2014.1.1                                                                                                                                                                                                                                                                                |                                              |                                                                                     |                |              |     |       |
| <p style="text-align: center;"><u>Time Area Diagram for Storm</u></p> <table> <thead> <tr> <th>Time<br/>(mins)</th> <th>Area<br/>(ha)</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>0.000</td> </tr> </tbody> </table> <p>Total Area Contributing (ha) = 0.000</p> <p>Total Pipe Volume (m³) = 191.374</p> |                                              |                                                                                     | Time<br>(mins) | Area<br>(ha) | 0-4 | 0.000 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                 | Area<br>(ha)                                 |                                                                                     |                |              |     |       |
| 0-4                                                                                                                                                                                                                                                                                                            | 0.000                                        |                                                                                     |                |              |     |       |
| ©1982-2014 XP Solutions                                                                                                                                                                                                                                                                                        |                                              |                                                                                     |                |              |     |       |

|                                                  |                                              |                                                                                     |
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| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage                                   | Network 2014.1.1                             |                                                                                     |

#### Existing Network Details for Storm

| PN    | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
|-------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|
| 1.000 | 15.000        | 0.100       | 150.0          | 0.000          | 5.00           | 0.0                | 0.600     | o           | 600         |
| 1.001 | 5.000         | 0.050       | 100.0          | 0.000          | 0.00           | 0.0                | 0.600     | H1          | -1          |
| 1.002 | 17.000        | 0.050       | 340.0          | 0.000          | 0.00           | 0.0                | 0.600     | H1          | -1          |
| 1.003 | 100.000       | 0.200       | 500.0          | 0.000          | 0.00           | 0.0                | 0.600     | H4          | -4          |
| 1.004 | 15.000        | 0.250       | 60.0           | 0.000          | 0.00           | 0.0                | 0.600     | o           | 375         |

#### Network Results Table

| PN    | US/IL<br>(m) | E I.Area<br>(ha) | E Base<br>Flow (l/s) | Vel<br>(m/s) | Cap<br>(l/s) |
|-------|--------------|------------------|----------------------|--------------|--------------|
| 1.000 | 2.700        | 0.000            | 0.0                  | 1.99         | 561.6        |
| 1.001 | 2.600        | 0.000            | 0.0                  | 2.86         | 1451.3       |
| 1.002 | 0.250        | 0.000            | 0.0                  | 1.54         | 784.1        |
| 1.003 | 2.500        | 0.000            | 0.0                  | 1.84         | 3208.9       |
| 1.004 | 1.700        | 0.000            | 0.0                  | 2.34         | 258.8        |

#### Conduit Sections for Storm

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \ / open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

| Section<br>Number | Conduit<br>Type | Major<br>Dimn.<br>(mm) | Minor<br>Dimn.<br>(mm) | Side<br>Slope<br>(Deg) | Corner<br>Splay<br>(mm) | 4*Hyd<br>Radius<br>(m) | XSect<br>Area<br>(m <sup>2</sup> ) |
|-------------------|-----------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------------------|
| -1                | H1              | 1000                   | 650                    |                        |                         | 0.775                  | 0.508                              |
| -4                | H4              | 1950                   | 1150                   |                        |                         | 1.411                  | 1.743                              |

|                                                  |                                              |                                                                                     |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
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| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ    | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage                                   | Network 2014.1.1                             |                                                                                     |

#### Area Summary for Storm

| Pipe Number | PIMP Type | PIMP Name | PIMP (%) | Gross Area (ha) | Imp. Area (ha) | Pipe Total (ha) |
|-------------|-----------|-----------|----------|-----------------|----------------|-----------------|
| 1.000       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
| 1.001       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
| 1.002       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
| 1.003       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
| 1.004       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
|             |           |           |          | Total           | Total          | Total           |
|             |           |           |          | 0.000           | 0.000          | 0.000           |

#### Free Flowing Outfall Details for Storm

| Outfall Pipe Number | Outfall Name | C. Level (m) | I. Level (m) | Min I. Level (m) | D,L (mm) | W (mm) |
|---------------------|--------------|--------------|--------------|------------------|----------|--------|
|---------------------|--------------|--------------|--------------|------------------|----------|--------|

|       |  |       |       |       |   |   |
|-------|--|-------|-------|-------|---|---|
| 1.004 |  | 4.000 | 1.450 | 0.000 | 0 | 0 |
|-------|--|-------|-------|-------|---|---|

#### Simulation Criteria for Storm

|                                 |       |                                            |        |
|---------------------------------|-------|--------------------------------------------|--------|
| Volumetric Runoff Coeff         | 0.750 | Additional Flow - % of Total Flow          | 30.000 |
| Areal Reduction Factor          | 1.000 | MADD Factor * 10m <sup>3</sup> /ha Storage | 2.000  |
| Hot Start (mins)                | 0     | Inlet Coefficient                          | 0.800  |
| Hot Start Level (mm)            | 0     | Flow per Person per Day (l/per/day)        | 0.000  |
| Manhole Headloss Coeff (Global) | 0.500 | Run Time (mins)                            | 60     |
| Foul Sewage per hectare (l/s)   | 0.000 | Output Interval (mins)                     | 1      |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 2 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 4 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

#### Synthetic Rainfall Details

|                       |                   |                       |        |
|-----------------------|-------------------|-----------------------|--------|
| Rainfall Model        | FSR               | Profile Type          | Summer |
| Return Period (years) | 100               | Cv (Summer)           | 0.750  |
| Region                | England and Wales | Cv (Winter)           | 0.840  |
| M5-60 (mm)            | 19.400            | Storm Duration (mins) | 30     |
| Ratio R               | 0.350             |                       |        |

|                                                  |                                              |                                                                                     |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
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| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage                                   | Network 2014.1.1                             |                                                                                     |

Online Controls for Storm

Hydro-Brake® Manhole: 5, DS/PN: 1.004, Volume (m³): 185.3

Design Head (m) 1.850 Hydro-Brake® Type Md7 Invert Level (m) 1.700  
Design Flow (l/s) 87.5 Diameter (mm) 308

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100     | 6.8        | 1.200     | 70.1       | 3.000     | 110.9      | 7.000     | 169.4      |
| 0.200     | 22.0       | 1.400     | 75.8       | 3.500     | 119.8      | 7.500     | 175.3      |
| 0.300     | 38.0       | 1.600     | 81.0       | 4.000     | 128.0      | 8.000     | 181.1      |
| 0.400     | 48.4       | 1.800     | 85.9       | 4.500     | 135.8      | 8.500     | 186.7      |
| 0.500     | 47.6       | 2.000     | 90.5       | 5.000     | 143.2      | 9.000     | 192.1      |
| 0.600     | 49.6       | 2.200     | 95.0       | 5.500     | 150.1      | 9.500     | 197.3      |
| 0.800     | 57.3       | 2.400     | 99.2       | 6.000     | 156.8      |           |            |
| 1.000     | 64.0       | 2.600     | 103.2      | 6.500     | 163.2      |           |            |

|                                                  |                                              |                                                                                     |
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| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage Network 2014.1.1                  |                                              |                                                                                     |

  

Storage Structures for Storm

  

Complex Manhole: 2, DS/PN: 1.001

  

Tank or Pond

Invert Level (m) 2.600

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|
| 0.000     | 1165.8                 | 0.700     | 1669.5                 | 1.400     | 2201.1                 | 2.100     | 4663.4                 |
| 0.100     | 1235.7                 | 0.800     | 1748.8                 | 1.500     | 4663.4                 | 2.200     | 4663.4                 |
| 0.200     | 1305.8                 | 0.900     | 1818.7                 | 1.600     | 4663.4                 | 2.300     | 4663.4                 |
| 0.300     | 1380.3                 | 1.000     | 1888.6                 | 1.700     | 4663.4                 | 2.400     | 4663.4                 |
| 0.400     | 1445.6                 | 1.100     | 1972.5                 | 1.800     | 4663.4                 | 2.500     | 4663.4                 |
| 0.500     | 1543.6                 | 1.200     | 2051.9                 | 1.900     | 4663.4                 |           |                        |
| 0.600     | 1599.5                 | 1.300     | 2121.8                 | 2.000     | 4663.4                 |           |                        |

  

Tank or Pond

Invert Level (m) 2.800

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|
| 0.000     | 2500.0                 | 0.700     | 3365.0                 | 1.400     | 5000.0                 | 2.100     | 5000.0                 |
| 0.100     | 2625.0                 | 0.800     | 3715.0                 | 1.500     | 5000.0                 | 2.200     | 5000.0                 |
| 0.200     | 2740.0                 | 0.900     | 3850.0                 | 1.600     | 5000.0                 | 2.300     | 5000.0                 |
| 0.300     | 2850.0                 | 1.000     | 3975.0                 | 1.700     | 5000.0                 | 2.400     | 5000.0                 |
| 0.400     | 2900.0                 | 1.100     | 4010.0                 | 1.800     | 5000.0                 | 2.500     | 5000.0                 |
| 0.500     | 3110.0                 | 1.200     | 4225.0                 | 1.900     | 5000.0                 |           |                        |
| 0.600     | 3235.0                 | 1.300     | 5000.0                 | 2.000     | 5000.0                 |           |                        |

  

Tank or Pond Manhole: 5, DS/PN: 1.004

Invert Level (m) 1.700

| Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|
| 0.000     | 142.5                  | 0.700     | 1724.3                 | 1.400     | 3947.3                 | 2.100     | 4750.0                 |
| 0.100     | 190.0                  | 0.800     | 1805.0                 | 1.500     | 4037.5                 | 2.200     | 4750.0                 |
| 0.200     | 256.5                  | 0.900     | 1852.5                 | 1.600     | 4165.8                 | 2.300     | 4750.0                 |
| 0.300     | 308.8                  | 1.000     | 1914.3                 | 1.700     | 4275.0                 | 2.400     | 4750.0                 |
| 0.400     | 365.8                  | 1.100     | 3624.3                 | 1.800     | 4393.8                 | 2.500     | 4750.0                 |
| 0.500     | 427.5                  | 1.200     | 3728.8                 | 1.900     | 4512.5                 |           |                        |
| 0.600     | 1662.5                 | 1.300     | 3847.5                 | 2.000     | 4621.8                 |           |                        |

  

Time Area Diagram at Pipe Number 1.001 for Storm

Total Area (ha) 1.997

  

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-----------|-------|-----|-------|-----|-------|-----|---|---------|---|---------|---|----------|-------------|-----------|-------------|-----------|-------------|-----------|-------|-----|-------|-----|-------|-----|---|---------|---|---------|---|----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------|-----|-------|-----|-------|-----|-------|-----|---|---------|---|---------|---|----------|----|----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------|-----|-------|-----|-------|-----|-------|-----|---|---------|----|----------|----|----------|----|----------|---|---------|----|----------|----|----------|--|--|---|----------|----|----------|----|----------|--|--|
| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |             |             |             |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Designed by AMc<br>Checked by                |                                                                                     |             |             |             |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| Micro Drainage<br>Network 2014.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |                                                                                     |             |             |             |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| <p><u>Time Area Diagram at Pipe Number 1.001 for Storm</u></p> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr><tr><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th></tr></thead><tbody><tr><td>0</td><td>4 0.642</td><td>4</td><td>8 1.308</td><td>8</td><td>12 0.047</td></tr></tbody></table> <p><u>Time Area Diagram at Pipe Number 1.001 for Storm</u></p> <p>Total Area (ha) 1.764</p> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr><tr><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th></tr></thead><tbody><tr><td>0</td><td>4 0.462</td><td>4</td><td>8 1.125</td><td>8</td><td>12 0.177</td></tr></tbody></table> <p><u>Time Area Diagram at Pipe Number 1.001 for Storm</u></p> <p>Total Area (ha) 4.200</p> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr><tr><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th></tr></thead><tbody><tr><td>0</td><td>4 0.550</td><td>4</td><td>8 1.700</td><td>8</td><td>12 1.800</td><td>12</td><td>16 0.150</td></tr></tbody></table> <p><u>Time Area Diagram at Pipe Number 1.004 for Storm</u></p> <p>Total Area (ha) 2.750</p> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr><tr><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th><th>From:</th><th>To:</th></tr></thead><tbody><tr><td>0</td><td>4 0.150</td><td>12</td><td>16 0.350</td><td>24</td><td>28 0.550</td><td>36</td><td>40 0.100</td></tr><tr><td>4</td><td>8 0.200</td><td>16</td><td>20 0.350</td><td>28</td><td>32 0.200</td><td></td><td></td></tr><tr><td>8</td><td>12 0.200</td><td>20</td><td>24 0.450</td><td>32</td><td>36 0.200</td><td></td><td></td></tr></tbody></table> |                                              |                                                                                     | Time (mins) | Area (ha)   | Time (mins) | Area (ha)   | Time (mins) | Area (ha) | From: | To: | From: | To: | From: | To: | 0 | 4 0.642 | 4 | 8 1.308 | 8 | 12 0.047 | Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) | From: | To: | From: | To: | From: | To: | 0 | 4 0.462 | 4 | 8 1.125 | 8 | 12 0.177 | Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) | From: | To: | From: | To: | From: | To: | From: | To: | 0 | 4 0.550 | 4 | 8 1.700 | 8 | 12 1.800 | 12 | 16 0.150 | Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) | From: | To: | From: | To: | From: | To: | From: | To: | 0 | 4 0.150 | 12 | 16 0.350 | 24 | 28 0.550 | 36 | 40 0.100 | 4 | 8 0.200 | 16 | 20 0.350 | 28 | 32 0.200 |  |  | 8 | 12 0.200 | 20 | 24 0.450 | 32 | 36 0.200 |  |  |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Area (ha)                                    | Time (mins)                                                                         | Area (ha)   | Time (mins) | Area (ha)   |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To:                                          | From:                                                                               | To:         | From:       | To:         |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 0.642                                      | 4                                                                                   | 8 1.308     | 8           | 12 0.047    |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Area (ha)                                    | Time (mins)                                                                         | Area (ha)   | Time (mins) | Area (ha)   |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To:                                          | From:                                                                               | To:         | From:       | To:         |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 0.462                                      | 4                                                                                   | 8 1.125     | 8           | 12 0.177    |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Area (ha)                                    | Time (mins)                                                                         | Area (ha)   | Time (mins) | Area (ha)   | Time (mins) | Area (ha)   |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To:                                          | From:                                                                               | To:         | From:       | To:         | From:       | To:         |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 0.550                                      | 4                                                                                   | 8 1.700     | 8           | 12 1.800    | 12          | 16 0.150    |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Area (ha)                                    | Time (mins)                                                                         | Area (ha)   | Time (mins) | Area (ha)   | Time (mins) | Area (ha)   |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To:                                          | From:                                                                               | To:         | From:       | To:         | From:       | To:         |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 0.150                                      | 12                                                                                  | 16 0.350    | 24          | 28 0.550    | 36          | 40 0.100    |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 0.200                                      | 16                                                                                  | 20 0.350    | 28          | 32 0.200    |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12 0.200                                     | 20                                                                                  | 24 0.450    | 32          | 36 0.200    |             |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |       |     |       |     |       |     |   |         |   |         |   |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |   |         |   |          |    |          |             |           |             |           |             |           |             |           |       |     |       |     |       |     |       |     |   |         |    |          |    |          |    |          |   |         |    |          |    |          |  |  |   |          |    |          |    |          |  |  |
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|                                                  |                                              |                                                                                     |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| MJA Consulting                                   |                                              | Page 7                                                                              |
| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ    | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage Network 2014.1.1                  |                                              |                                                                                     |

  

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm

  

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 30.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

  

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 2 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 4 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

  

Synthetic Rainfall Details

|                                      |        |             |       |
|--------------------------------------|--------|-------------|-------|
| Rainfall Model                       | FSR    | Ratio R     | 0.350 |
| Region England and Wales Cv (Summer) |        |             | 0.750 |
| M5-60 (mm)                           | 19.400 | Cv (Winter) | 0.840 |

  

|                                    |       |                     |    |
|------------------------------------|-------|---------------------|----|
| Margin for Flood Risk Warning (mm) | 250.0 | DVD Status          | ON |
| Analysis Timestep                  |       | Fine Inertia Status | ON |
| DTS Status                         | OFF   |                     |    |

  

|                          |                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                         |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600,<br>720, 960, 1440, 2160, 2880, 4320, 5760,<br>7200, 8640, 10080 |
| Return Period(s) (years) | 2, 30, 100                                                                                                |
| Climate Change (%)       | 0, 0, 30                                                                                                  |

  

| PN    | Storm      | Return Period | Climate Change | First X Surchage | First Y Flood   | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|------------|---------------|----------------|------------------|-----------------|------------------|----------|----------|
| 1.000 | 60 Winter  | 2             | 0%             | 100/180 Winter   |                 |                  |          |          |
| 1.001 | 60 Winter  | 2             | 0%             | 100/120 Winter   |                 |                  |          |          |
| 1.002 | 960 Winter | 2             | 0%             | 2/15 Summer      | 100/1440 Summer |                  |          |          |
| 1.003 | 360 Winter | 2             | 0%             |                  |                 |                  |          |          |
| 1.004 | 360 Winter | 2             | 0%             | 2/15 Summer      |                 |                  |          |          |

  

| PN    | US/MH Name | Water     |                   | Flooded     |                   | Pipe         |            | Status     |
|-------|------------|-----------|-------------------|-------------|-------------------|--------------|------------|------------|
|       |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. (l/s) | O'flow (l/s) | Flow (l/s) |            |
| 1.000 | 1          | 2.905     | -0.395            | 0.000       | 0.00              | 0.0          | 0.0        | OK         |
| 1.001 | 2          | 2.905     | -0.345            | 0.000       | 0.46              | 0.0          | 293.0      | OK         |
| 1.002 | 3          | 2.916     | 2.016             | 0.000       | 0.37              | 0.0          | 134.4      | SURCHARGED |
| 1.003 | 4          | 2.873     | -0.777            | 0.000       | 0.10              | 0.0          | 212.0      | OK         |
| 1.004 | 5          | 2.837     | 0.762             | 0.000       | 0.35              | 0.0          | 68.3       | SURCHARGED |

  

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|                                                  |                                              |                                                                                     |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| MJA Consulting                                   |                                              | Page 8                                                                              |
| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ    | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage                                   | Network 2014.1.1                             |                                                                                     |

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 30.000  
Hot Start (mins) 0 MADD Factor \* 10m³/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 0.800  
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000  
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2  
Number of Online Controls 1 Number of Time/Area Diagrams 4  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.350  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 250.0 DVD Status ON  
Analysis Timestep Fine Inertia Status ON  
DTS Status OFF

Profile(s) Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,  
720, 960, 1440, 2160, 2880, 4320, 5760,  
7200, 8640, 10080  
Return Period(s) (years) 2, 30, 100  
Climate Change (%) 0, 0, 30

| PN    | Storm      | Return Period | Climate Change | First X Surchage | First Y Flood   | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|------------|---------------|----------------|------------------|-----------------|------------------|----------|----------|
| 1.000 | 480 Winter | 30            | 0%             | 100/180 Winter   |                 |                  |          |          |
| 1.001 | 480 Winter | 30            | 0%             | 100/120 Winter   |                 |                  |          |          |
| 1.002 | 480 Winter | 30            | 0%             | 2/15 Summer      | 100/1440 Summer |                  |          |          |
| 1.003 | 600 Winter | 30            | 0%             |                  |                 |                  |          |          |
| 1.004 | 360 Winter | 30            | 0%             | 2/15 Summer      |                 |                  |          |          |

| PN    | US/MH Name | Water     |                    | Flooded     |                   | Pipe         |            | Status     |
|-------|------------|-----------|--------------------|-------------|-------------------|--------------|------------|------------|
|       |            | Level (m) | Surch'ed Depth (m) | Volume (m³) | Flow / Cap. (l/s) | O'flow (l/s) | Flow (l/s) |            |
| 1.000 | 1 3.133    | -0.167    | 0.000              | 0.00        | 0.0               | 0.0          | 0.0        | OK         |
| 1.001 | 2 3.133    | -0.117    | 0.000              | 0.36        | 0.0               | 228.0        |            | OK         |
| 1.002 | 3 3.449    | 2.549     | 0.000              | 0.63        | 0.0               | 228.0        |            | SURCHARGED |
| 1.003 | 4 3.095    | -0.555    | 0.000              | 0.10        | 0.0               | 221.3        |            | OK         |
| 1.004 | 5 3.048    | 0.973     | 0.000              | 0.38        | 0.0               | 74.3         |            | SURCHARGED |

|                                                  |                                              |                                                                                     |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| MJA Consulting                                   |                                              | Page 9                                                                              |
| 58-62 Ock Street<br>Abingdon<br>Oxon OX14 5BZ    | Site 6 Felpham<br>Attenuation Ponds<br>A - D |  |
| Date March 2011<br>File POND SYSTEM - AUG 12.MDX | Designed by AMc<br>Checked by                |                                                                                     |
| Micro Drainage Network 2014.1.1                  |                                              |                                                                                     |

  

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

  

Simulation Criteria

|                                 |       |                                     |        |
|---------------------------------|-------|-------------------------------------|--------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow   | 30.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage       | 2.000  |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                   | 0.800  |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day) | 0.000  |
| Foul Sewage per hectare (l/s)   | 0.000 |                                     |        |

  

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 2 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 4 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

  

Synthetic Rainfall Details

|                          |             |             |       |
|--------------------------|-------------|-------------|-------|
| Rainfall Model           | FSR         | Ratio R     | 0.350 |
| Region England and Wales | Cv (Summer) |             | 0.750 |
| M5-60 (mm)               | 19.400      | Cv (Winter) | 0.840 |

  

|                                    |       |                     |    |
|------------------------------------|-------|---------------------|----|
| Margin for Flood Risk Warning (mm) | 250.0 | DVD Status          | ON |
| Analysis Timestep                  |       | Fine Inertia Status | ON |
| DTS Status                         | OFF   |                     |    |

  

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                                   |
| Duration(s) (mins)       | 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 2, 30, 100                                                                                          |
| Climate Change (%)       | 0, 0, 30                                                                                            |

  

| PN    | Storm      | Return Period | Climate Change | First X Surchage | First Y Flood   | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|------------|---------------|----------------|------------------|-----------------|------------------|----------|----------|
| 1.000 | 600 Winter | 100           | +30%           | 100/180 Winter   |                 |                  |          |          |
| 1.001 | 600 Winter | 100           | +30%           | 100/120 Winter   |                 |                  |          |          |
| 1.002 | 480 Winter | 100           | +30%           | 2/15 Summer      | 100/1440 Summer |                  |          |          |
| 1.003 | 600 Winter | 100           | +30%           |                  |                 |                  |          |          |
| 1.004 | 720 Winter | 100           | +30%           | 2/15 Summer      |                 |                  |          |          |

  

| PN    | US/MH Name | Water     |                   | Flooded     |                   | Pipe         |            | Status     |
|-------|------------|-----------|-------------------|-------------|-------------------|--------------|------------|------------|
|       |            | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. (l/s) | O'flow (l/s) | Flow (l/s) |            |
| 1.000 | 1          | 3.426     | 0.126             | 0.000       | 0.00              | 0.0          | 0.0        | SURCHARGED |
| 1.001 | 2          | 3.427     | 0.177             | 0.000       | 0.53              | 0.0          | 334.4      | SURCHARGED |
| 1.002 | 3          | 3.669     | 2.769             | 0.000       | 0.72              | 0.0          | 261.4      | SURCHARGED |
| 1.003 | 4          | 3.433     | -0.217            | 0.000       | 0.16              | 0.0          | 343.0      | OK         |
| 1.004 | 5          | 3.336     | 1.261             | 0.000       | 0.42              | 0.0          | 81.9       | SURCHARGED |

  

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