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|---|-------------------|---|
| Woods Hardwick | | Page 0 |
| 15-17 Goldington Road Bedford Bedfordshire MK40 3NH | |  |
| Date 02/10/2025 15:58 | Designed by a.tew | |
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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 11 Number of Storage Structures 31 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH D3 (1km) 0.264
Site Location GB 450500 225250 SP 50500 25250 E (1km) 0.292
C (1km) -0.023 F (1km) 2.461
D1 (1km) 0.328 Cv (Summer) 0.900
D2 (1km) 0.309 Cv (Winter) 0.900

Margin for Flood Risk Warning (mm) 300.0
Analysis Timestep 2.5 Second Increment (Extended)
DTS Status ON
DVD Status ON
Inertia Status ON


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) 30
Climate Change (%) 0

| PN | Storm | Return Period | Climate Change | First X Surcharge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|-------|------------|---------------|----------------|-------------------|---------------|------------------|----------|----------|
| 1.000 | 360 Winter | 30 | 0% | | | | | |
| 1.001 | 15 Summer | 30 | 0% | | | | | |
| 1.002 | 15 Summer | 30 | 0% | | | | | |
| 1.003 | 15 Summer | 30 | 0% | | | | | |
| 1.004 | 15 Summer | 30 | 0% | | | | | |
| 1.005 | 15 Summer | 30 | 0% | | | | | |
| 2.000 | 15 Summer | 30 | 0% | | | | | |
| 2.001 | 15 Summer | 30 | 0% | | | | | |
| 2.002 | 15 Summer | 30 | 0% | | | | | |
| 2.003 | 15 Summer | 30 | 0% | | | | | |
| 1.006 | 15 Summer | 30 | 0% | | | | | |
| 3.000 | 15 Summer | 30 | 0% | | | | | |
| 3.001 | 15 Summer | 30 | 0% | | | | | |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | Storm | Return Climate Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow Act. | O/F Lvl Exc. |
|--------|-------|-----------------------|----------------|------------------|---------------|-----------------------|--------------|
| 3.002 | 15 | Summer | 30 | 0% | | | |
| 3.003 | 15 | Summer | 30 | 0% | | | |
| 3.004 | 15 | Summer | 30 | 0% | | | |
| 3.005 | 15 | Summer | 30 | 0% | | | |
| 4.000 | 960 | Winter | 30 | 0% | 30/30 | Summer | |
| 4.001 | 960 | Winter | 30 | 0% | 30/15 | Summer | |
| 3.006 | 15 | Summer | 30 | 0% | | | |
| 3.007 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 3.008 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 3.009 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 1.007 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 1.008 | 15 | Summer | 30 | 0% | | | |
| 1.009 | 15 | Summer | 30 | 0% | | | |
| 1.010 | 15 | Summer | 30 | 0% | | | |
| 1.011 | 15 | Summer | 30 | 0% | | | |
| 5.000 | 15 | Summer | 30 | 0% | | | |
| 5.001 | 15 | Summer | 30 | 0% | | | |
| 5.002 | 15 | Summer | 30 | 0% | | | |
| 5.003 | 15 | Summer | 30 | 0% | | | |
| 5.004 | 15 | Summer | 30 | 0% | | | |
| 5.005 | 15 | Summer | 30 | 0% | | | |
| 5.006 | 15 | Summer | 30 | 0% | | | |
| 6.000 | 720 | Winter | 30 | 0% | | | |
| 5.007 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 5.008 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 7.000 | 15 | Summer | 30 | 0% | | | |
| 7.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 7.002 | 15 | Summer | 30 | 0% | | | |
| 5.009 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 8.000 | 600 | Winter | 30 | 0% | | | |
| 5.010 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 1.012 | 15 | Summer | 30 | 0% | | | |
| 9.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 9.001 | 720 | Winter | 30 | 0% | 30/15 | Summer | |
| 1.013 | 480 | Winter | 30 | 0% | | | |
| 1.014 | 480 | Winter | 30 | 0% | 30/15 | Summer | |
| 10.000 | 15 | Summer | 30 | 0% | | | |
| 11.000 | 360 | Winter | 30 | 0% | | | |
| 11.001 | 360 | Winter | 30 | 0% | | | |
| 11.002 | 360 | Winter | 30 | 0% | | | |
| 12.000 | 15 | Summer | 30 | 0% | | | |
| 12.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | |
| 12.002 | 15 | Summer | 30 | 0% | | | |
| 12.003 | 15 | Summer | 30 | 0% | | | |
| 12.004 | 15 | Summer | 30 | 0% | | | |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | Storm | Return Climate Period | Climate Change | First X Surcharge | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|-------|--------------------------|-------------------|----------------------|------------------|---------------------|-------------|-------------|
| 12.005 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 12.006 | 15 | Summer | 30 | 0% | | | | |
| 12.007 | 15 | Summer | 30 | 0% | | | | |
| 13.000 | 15 | Summer | 30 | 0% | | | | |
| 13.001 | 15 | Summer | 30 | 0% | | | | |
| 13.002 | 15 | Summer | 30 | 0% | | | | |
| 13.003 | 15 | Summer | 30 | 0% | | | | |
| 13.004 | 15 | Summer | 30 | 0% | | | | |
| 13.005 | 15 | Summer | 30 | 0% | | | | |
| 13.006 | 15 | Summer | 30 | 0% | | | | |
| 13.007 | 15 | Summer | 30 | 0% | | | | |
| 14.000 | 15 | Summer | 30 | 0% | | | | |
| 14.001 | 15 | Summer | 30 | 0% | | | | |
| 14.002 | 15 | Summer | 30 | 0% | | | | |
| 14.003 | 15 | Summer | 30 | 0% | | | | |
| 15.000 | 360 | Winter | 30 | 0% | | | | |
| 15.001 | 15 | Summer | 30 | 0% | | | | |
| 12.008 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 16.000 | 600 | Winter | 30 | 0% | 30/60 | Summer | | |
| 12.009 | 600 | Winter | 30 | 0% | 30/15 | Summer | | |
| 11.003 | 5760 | Winter | 30 | 0% | | | | |
| 17.000 | 360 | Winter | 30 | 0% | | | | |
| 11.004 | 5760 | Winter | 30 | 0% | | | | |
| 11.005 | 5760 | Winter | 30 | 0% | | | | |
| 11.006 | 5760 | Winter | 30 | 0% | | | | |
| 11.007 | 5760 | Winter | 30 | 0% | | | | |
| 1.015 | 60 | Summer | 30 | 0% | | | | |
| 18.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 19.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 20.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.002 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 21.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 22.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 22.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.003 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.004 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 23.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 24.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.005 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.006 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 25.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 26.000 | 15 | Summer | 30 | 0% | | | | |
| 25.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 25.002 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | Storm | Return Climate Period | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|-------|--------------------------|-------------------|---------------------|------------------|---------------------|-------------|-------------|
| 27.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 25.003 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 25.004 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 28.000 | 15 | Summer | 30 | 0% | | | | |
| 25.005 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 25.006 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.007 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 29.000 | 60 | Summer | 30 | 0% | | | | |
| 30.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 31.000 | 360 | Winter | 30 | 0% | | | | |
| 30.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 18.008 | 60 | Summer | 30 | 0% | 30/30 | Summer | | |
| 18.009 | 60 | Winter | 30 | 0% | 30/15 | Summer | | |
| 18.010 | 60 | Summer | 30 | 0% | | | | |
| 1.016 | 60 | Summer | 30 | 0% | | | | |
| 1.017 | 60 | Summer | 30 | 0% | | | | |
| 1.018 | 60 | Summer | 30 | 0% | | | | |
| 32.000 | 15 | Summer | 30 | 0% | | | | |
| 32.001 | 15 | Summer | 30 | 0% | | | | |
| 32.002 | 15 | Summer | 30 | 0% | | | | |
| 1.019 | 60 | Summer | 30 | 0% | | | | |
| 33.000 | 15 | Summer | 30 | 0% | | | | |
| 33.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 33.002 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 33.003 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 34.000 | 15 | Summer | 30 | 0% | | | | |
| 33.004 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 35.000 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 33.005 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 33.006 | 60 | Winter | 30 | 0% | | | | |
| 33.007 | 60 | Winter | 30 | 0% | 30/15 | Summer | | |
| 33.008 | 60 | Winter | 30 | 0% | 30/15 | Summer | | |
| 1.020 | 60 | Summer | 30 | 0% | | | | |
| 1.021 | 60 | Summer | 30 | 0% | | | | |
| 36.000 | 15 | Summer | 30 | 0% | | | | |
| 36.001 | 15 | Summer | 30 | 0% | | | | |
| 36.002 | 15 | Summer | 30 | 0% | | | | |
| 36.003 | 15 | Summer | 30 | 0% | 30/15 | Summer | | |
| 37.000 | 15 | Summer | 30 | 0% | | | | |
| 38.000 | 15 | Summer | 30 | 0% | | | | |
| 39.000 | 15 | Summer | 30 | 0% | | | | |
| 40.000 | 60 | Summer | 30 | 0% | 30/15 | Summer | | |
| 37.001 | 60 | Summer | 30 | 0% | 30/15 | Summer | | |
| 36.004 | 60 | Summer | 30 | 0% | 30/15 | Summer | | |
| 36.005 | 60 | Summer | 30 | 0% | 30/15 | Summer | | |

Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | Storm | Return Climate Period | Change | First X Surchage | First Y Flood | First Z Overflow Act. | O/F | Lvl Exc. | |
|--------|-------|-----------------------|--------|------------------|---------------|-----------------------|-------|----------|----|
| 36.006 | 60 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 41.000 | 120 | Winter | 30 | 0% | | | | | |
| 41.001 | 120 | Winter | 30 | 0% | | | | | |
| 36.007 | 120 | Winter | 30 | 0% | 30/60 | Summer | | | |
| 36.008 | 30 | Winter | 30 | 0% | | | | | |
| 36.009 | 120 | Summer | 30 | 0% | | | | | |
| 1.022 | 120 | Summer | 30 | 0% | | | | | |
| 1.023 | 120 | Summer | 30 | 0% | | | | | |
| 1.024 | 60 | Summer | 30 | 0% | | | | | |
| 42.000 | 60 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 42.001 | 15 | Summer | 30 | 0% | 30/15 | Summer | 30/15 | Summer | 9 |
| 43.000 | 15 | Summer | 30 | 0% | | | | | |
| 43.001 | 15 | Summer | 30 | 0% | | | | | |
| 43.002 | 15 | Summer | 30 | 0% | | | | | |
| 43.003 | 15 | Summer | 30 | 0% | | | | | |
| 43.004 | 15 | Summer | 30 | 0% | | | | | |
| 43.005 | 15 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 43.006 | 15 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 43.007 | 15 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 44.000 | 720 | Winter | 30 | 0% | 30/15 | Summer | | | |
| 43.008 | 720 | Winter | 30 | 0% | 30/15 | Summer | | | |
| 42.002 | 15 | Summer | 30 | 0% | 30/15 | Summer | 30/15 | Summer | 9 |
| 42.003 | 15 | Summer | 30 | 0% | 30/15 | Summer | 30/15 | Summer | 8 |
| 42.004 | 15 | Summer | 30 | 0% | 30/15 | Summer | 30/15 | Summer | 2 |
| 45.000 | 60 | Summer | 30 | 0% | | | | | |
| 46.000 | 15 | Summer | 30 | 0% | | | | | |
| 46.001 | 720 | Winter | 30 | 0% | 30/15 | Summer | | | |
| 45.001 | 60 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 47.000 | 15 | Summer | 30 | 0% | | | | | |
| 47.001 | 720 | Winter | 30 | 0% | 30/15 | Summer | | | |
| 45.002 | 60 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 45.003 | 60 | Summer | 30 | 0% | 30/15 | Summer | | | |
| 45.004 | 60 | Winter | 30 | 0% | 30/15 | Summer | | | |
| 42.005 | 30 | Winter | 30 | 0% | 30/15 | Summer | 30/15 | Summer | 16 |
| 42.006 | 30 | Winter | 30 | 0% | | | | | |
| 1.025 | 60 | Winter | 30 | 0% | | | | | |


| PN | US/MH Name | Water Level (m) | Surch'ed Depth (m) | Flooded Volume (m³) | Flow / Cap. (l/s) | O'flow (l/s) | Pipe Flow (l/s) | Status |
|-------|------------|-----------------|--------------------|---------------------|-------------------|--------------|-----------------|--------|
| 1.000 | Swale1 | 125.750 | -0.400 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 1.001 | Swale2 | 125.469 | -0.031 | 0.000 | 0.98 | 0.0 | 20.4 | OK |
| 1.002 | Swale3 | 125.170 | -0.340 | 0.000 | 0.01 | 0.0 | 20.1 | OK |
| 1.003 | Swale4 | 123.882 | -0.093 | 0.000 | 0.64 | 0.0 | 34.0 | OK |

Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | US/MH Name | Water | Flooded | | | Pipe | Status | |
|-------|---------------|--------------|----------------------|----------------|----------------|-----------------|--------|---------------|
| | | Level (m) | Surch'd Depth (m) | Volume (m³) | Flow / Cap. | O'flow (l/s) | | Flow (l/s) |
| 1.004 | Swale5 | 123.571 | -0.429 | 0.000 | 0.03 | 0.0 | 33.7 | OK |
| 1.005 | Swale6 | 123.373 | -0.152 | 0.000 | 0.22 | 0.0 | 41.0 | OK |
| 2.000 | Swale7 | 125.801 | -0.349 | 0.000 | 0.01 | 0.0 | 9.2 | OK |
| 2.001 | Swale8 | 125.308 | -0.092 | 0.000 | 0.31 | 0.0 | 9.1 | OK |
| 2.002 | Swale9 | 125.064 | -0.436 | 0.000 | 0.01 | 0.0 | 31.5 | OK |
| 2.003 | Swale10 | 123.515 | -0.075 | 0.000 | 0.50 | 0.0 | 41.6 | OK |
| 1.006 | 500 | 121.732 | -0.068 | 0.000 | 0.81 | 0.0 | 92.6 | OK |
| 3.000 | 501 | 123.091 | -0.089 | 0.000 | 0.66 | 0.0 | 29.9 | OK |
| 3.001 | 502 | 122.678 | -0.202 | 0.000 | 0.40 | 0.0 | 66.9 | OK |
| 3.002 | 503 | 122.076 | -0.159 | 0.000 | 0.62 | 0.0 | 86.7 | OK |
| 3.003 | 504 | 121.915 | -0.235 | 0.000 | 0.46 | 0.0 | 95.5 | OK |
| 3.004 | 505 | 121.783 | -0.227 | 0.000 | 0.47 | 0.0 | 115.4 | OK |
| 3.005 | 506 | 121.477 | -0.213 | 0.000 | 0.53 | 0.0 | 137.9 | OK |
| 4.000 | PH31 a | 122.104 | 0.379 | 0.000 | 0.04 | 0.0 | 4.6 | SURCHARGED |
| 4.001 | PH31 b | 122.137 | 0.602 | 0.000 | 0.06 | 0.0 | 3.6 | SURCHARGED |
| 3.006 | 507 | 121.165 | -0.105 | 0.000 | 0.56 | 0.0 | 154.6 | OK |
| 3.007 | 508 | 121.072 | 0.102 | 0.000 | 0.80 | 0.0 | 163.5 | SURCHARGED |
| 3.008 | 509 | 120.942 | 0.102 | 0.000 | 0.82 | 0.0 | 166.5 | SURCHARGED |
| 3.009 | 510 | 120.805 | 0.095 | 0.000 | 0.86 | 0.0 | 167.3 | SURCHARGED |
| 1.007 | 511 | 120.667 | 0.077 | 0.000 | 1.40 | 0.0 | 217.2 | SURCHARGED |
| 1.008 | 512 | 120.377 | -0.153 | 0.000 | 0.84 | 0.0 | 228.9 | OK |
| 1.009 | 513 | 120.198 | -0.142 | 0.000 | 0.88 | 0.0 | 235.1 | OK |
| 1.010 | 514 | 120.053 | -0.137 | 0.000 | 0.89 | 0.0 | 242.7 | OK |
| 1.011 | 515 | 119.779 | -0.231 | 0.000 | 0.69 | 0.0 | 250.3 | OK |
| 5.000 | 520 | 121.414 | -0.386 | 0.000 | 0.05 | 0.0 | 13.7 | OK |
| 5.001 | 521 | 121.230 | -0.320 | 0.000 | 0.23 | 0.0 | 58.1 | OK |
| 5.002 | 522 | 121.205 | -0.485 | 0.000 | 0.18 | 0.0 | 103.4 | OK |
| 5.003 | 523 | 121.182 | -0.428 | 0.000 | 0.18 | 0.0 | 164.8 | OK |
| 5.004 | 524 | 121.164 | -0.356 | 0.000 | 0.24 | 0.0 | 228.4 | OK |
| 5.005 | 525 | 121.128 | -0.242 | 0.000 | 0.33 | 0.0 | 316.6 | OK |
| 5.006 | 526 | 121.088 | -0.162 | 0.000 | 0.38 | 0.0 | 377.3 | OK |
| 6.000 | PH11 UC | 120.860 | -0.230 | 0.000 | 0.01 | 0.0 | 5.5 | OK |
| 5.007 | 527 (FC) | 121.012 | 0.552 | 0.000 | 0.10 | 0.0 | 5.8 | SURCHARGED |
| 5.008 | 528 | 120.993 | 0.273 | 0.000 | 0.03 | 0.0 | 10.1 | SURCHARGED |
| 7.000 | 529 | 121.389 | -0.111 | 0.000 | 0.50 | 0.0 | 22.7 | OK |
| 7.001 | 530 | 121.305 | 0.005 | 0.000 | 0.65 | 0.0 | 193.0 | SURCHARGED |
| 7.002 | 531 | 121.150 | 0.000 | 0.000 | 1.01 | 0.0 | 391.9 | OK |
| 5.009 | 532 | 121.009 | 0.009 | 0.000 | 0.32 | 0.0 | 566.6 | SURCHARGED |
| 8.000 | PH12W UC | 120.451 | -0.204 | 0.000 | 0.01 | 0.0 | 6.4 | OK |
| 5.010 | 533 (FC) | 120.833 | 0.983 | 0.000 | 0.12 | 0.0 | 13.1 | SURCHARGED |
| 1.012 | 516 | 119.522 | -0.773 | 0.000 | 0.16 | 0.0 | 262.6 | OK |
| 9.000 | Future PH12E | 120.463 | 0.113 | 0.000 | 1.28 | 0.0 | 777.6 | SURCHARGED |
| 9.001 | PH12E FC +UC | 120.184 | 0.534 | 0.000 | 0.28 | 0.0 | 7.2 | SURCHARGED |
| 1.013 | Basin2 | 119.454 | -0.646 | 0.000 | 0.01 | 0.0 | 29.3 | OK |


Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | US/MH Name | Water | Flooded | | | Pipe | Status | |
|--------|-----------------|--------------|-----------------------|----------------|-----------------------------|---------------|--------|------------|
| | | Level (m) | Surch'ed Depth (m) | Volume (m³) | Flow / O'flow Cap. (l/s) | Flow (l/s) | | |
| 1.014 | 518 (FC) | 119.451 | 0.396 | 0.000 | 0.46 | 0.0 | 28.4 | SURCHARGED |
| 10.000 | 0767 | 119.341 | -0.066 | 0.000 | 0.60 | 0.0 | 13.7 | OK |
| 11.000 | Ex MHa | 125.480 | -0.225 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 11.001 | Ex MHa | 125.230 | -0.225 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 11.002 | Ex MHa | 123.800 | -0.225 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 12.000 | Swale12 | 127.441 | -0.339 | 0.000 | 0.01 | 0.0 | 15.3 | OK |
| 12.001 | Swale13 | 126.871 | 0.121 | 0.000 | 1.43 | 0.0 | 26.2 | SURCHARGED |
| 12.002 | Swale14 | 126.561 | -0.319 | 0.000 | 0.02 | 0.0 | 26.0 | OK |
| 12.003 | Swale15 | 126.001 | -0.064 | 0.000 | 0.83 | 0.0 | 52.2 | FLOOD RISK |
| 12.004 | Swale16 | 125.726 | -0.414 | 0.000 | 0.03 | 0.0 | 52.5 | OK |
| 12.005 | Swale17 | 125.558 | 0.033 | 0.000 | 1.06 | 0.0 | 57.0 | FLOOD RISK |
| 12.006 | Swale18 | 125.061 | -0.399 | 0.000 | 0.04 | 0.0 | 57.0 | OK |
| 12.007 | Swale19 | 124.798 | -0.177 | 0.000 | 0.35 | 0.0 | 77.1 | OK |
| 13.000 | Swale20 | 127.593 | -0.357 | 0.000 | 0.00 | 0.0 | 4.5 | OK |
| 13.001 | Swale21 | 126.957 | -0.138 | 0.000 | 0.32 | 0.0 | 18.3 | OK |
| 13.002 | Swale22 | 126.756 | -0.444 | 0.000 | 0.01 | 0.0 | 18.2 | OK |
| 13.003 | Swale23 | 126.115 | -0.070 | 0.000 | 0.80 | 0.0 | 35.5 | OK |
| 13.004 | Swale24 | 125.931 | -0.429 | 0.000 | 0.02 | 0.0 | 35.1 | OK |
| 13.005 | Swale25 | 125.442 | -0.053 | 0.000 | 0.91 | 0.0 | 48.7 | OK |
| 13.006 | Swale26 | 125.123 | -0.407 | 0.000 | 0.03 | 0.0 | 49.0 | OK |
| 13.007 | Swale27 | 124.870 | -0.105 | 0.000 | 0.54 | 0.0 | 67.3 | OK |
| 14.000 | Swale28 | 125.754 | -0.376 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 14.001 | Swale29 | 125.754 | -0.096 | 0.000 | 0.28 | 0.0 | 4.6 | OK |
| 14.002 | Swale30 | 125.629 | -0.291 | 0.000 | 0.04 | 0.0 | 40.5 | OK |
| 14.003 | Swale31 | 124.937 | -0.138 | 0.000 | 0.32 | 0.0 | 40.5 | OK |
| 15.000 | Swale32 | 125.730 | -0.400 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 15.001 | Swale33 | 124.957 | -0.083 | 0.000 | 0.42 | 0.0 | 24.2 | OK |
| 12.008 | 534 | 124.573 | 0.233 | 0.000 | 1.27 | 0.0 | 214.5 | SURCHARGED |
| 16.000 | Basin3 | 124.466 | 0.166 | 0.000 | 0.01 | 0.0 | 2.1 | SURCHARGED |
| 12.009 | 535 (FC) | 124.475 | 0.450 | 0.000 | 0.04 | 0.0 | 2.0 | SURCHARGED |
| 11.003 | 536 | 123.678 | -0.197 | 0.000 | 0.04 | 0.0 | 2.0 | OK |
| 17.000 | Ex MHd | 123.600 | -0.225 | 0.000 | 0.00 | 0.0 | 0.0 | OK |
| 11.004 | Ex MHe | 122.578 | -0.357 | 0.000 | 0.01 | 0.0 | 2.0 | OK |
| 11.005 | Ex MHf | 121.568 | -0.357 | 0.000 | 0.01 | 0.0 | 2.0 | OK |
| 11.006 | Ex MHg | 120.661 | -0.514 | 0.000 | 0.00 | 0.0 | 2.0 | OK |
| 11.007 | 0768 | 119.659 | -0.516 | 0.000 | 0.00 | 0.0 | 2.0 | OK |
| 1.015 | 519 reconstruct | 119.013 | -0.227 | 0.000 | 0.13 | 0.0 | 30.4 | OK |
| 18.000 | PP (D5a) | 120.081 | 0.081 | 0.000 | 1.32 | 0.0 | 20.6 | SURCHARGED |
| 18.001 | 1 (D5a) | 120.020 | 0.120 | 0.000 | 0.18 | 0.0 | 37.1 | SURCHARGED |
| 19.000 | PP (D5a) | 119.938 | 0.078 | 0.000 | 1.03 | 0.0 | 21.1 | SURCHARGED |
| 20.000 | PP (D5a) | 119.995 | 0.105 | 0.000 | 0.63 | 0.0 | 5.1 | SURCHARGED |
| 18.002 | 2 (D5a) | 119.934 | 0.224 | 0.000 | 0.50 | 0.0 | 63.8 | SURCHARGED |
| 21.000 | PP (D5a) | 120.019 | 0.239 | 0.000 | 1.23 | 0.0 | 7.8 | SURCHARGED |
| 22.000 | PP (D5a) | 120.000 | 0.190 | 0.000 | 0.83 | 0.0 | 11.3 | SURCHARGED |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | US/MH Name | Water Level (m) | Surch'ed Depth (m) | Flooded Volume (m³) | Flow / O'flow Cap. (l/s) | Pipe Flow (l/s) | Status |
|--------|-----------------|-----------------|--------------------|---------------------|--------------------------|-----------------|------------------|
| 22.001 | 3 (D5a) | 119.960 | 0.215 | 0.000 | 0.69 | 0.0 | 22.2 SURCHARGED |
| 18.003 | 4 (D5a) | 119.905 | 0.245 | 0.000 | 0.69 | 0.0 | 80.4 SURCHARGED |
| 18.004 | 5 (D5a) | 119.883 | 0.253 | 0.000 | 0.68 | 0.0 | 96.8 SURCHARGED |
| 23.000 | PP (D5a) | 120.225 | 0.295 | 0.000 | 1.26 | 0.0 | 10.3 SURCHARGED |
| 24.000 | PP (D5a) | 120.250 | 0.320 | 0.000 | 1.21 | 0.0 | 12.3 SURCHARGED |
| 18.005 | 6 (D5a) | 119.819 | 0.299 | 0.000 | 1.06 | 0.0 | 120.8 SURCHARGED |
| 18.006 | 7 (D5a) | 119.778 | 0.298 | 0.000 | 0.96 | 0.0 | 135.0 SURCHARGED |
| 25.000 | 8 (D5a) | 120.483 | 0.103 | 0.000 | 0.27 | 0.0 | 20.5 SURCHARGED |
| 26.000 | PP (D5a) | 120.586 | -0.014 | 0.000 | 0.71 | 0.0 | 9.1 OK |
| 25.001 | 9 (D5a) | 120.465 | 0.370 | 0.000 | 0.68 | 0.0 | 88.9 SURCHARGED |
| 25.002 | 10 (D5a) | 120.363 | 0.468 | 0.000 | 0.75 | 0.0 | 83.2 SURCHARGED |
| 27.000 | PP (D5a) | 120.638 | 0.468 | 0.000 | 1.42 | 0.0 | 21.7 SURCHARGED |
| 25.003 | 11 (D5a) | 120.234 | 0.419 | 0.000 | 0.59 | 0.0 | 93.9 SURCHARGED |
| 25.004 | 11a (D5a) | 120.123 | 0.398 | 0.000 | 0.76 | 0.0 | 113.3 SURCHARGED |
| 28.000 | 546 | 120.681 | -0.119 | 0.000 | 0.45 | 0.0 | 45.9 OK |
| 25.005 | 12 (D5a) | 120.077 | 0.422 | 0.000 | 1.03 | 0.0 | 173.3 SURCHARGED |
| 25.006 | 13 (D5a) | 119.840 | 0.390 | 0.000 | 1.68 | 0.0 | 189.1 SURCHARGED |
| 18.007 | 14 (D5a) | 119.718 | 0.298 | 0.000 | 2.54 | 0.0 | 330.1 SURCHARGED |
| 29.000 | PH11 road | 119.585 | -0.030 | 0.000 | 0.50 | 0.0 | 16.0 OK |
| 30.000 | Pitch stone | 121.514 | 0.114 | 0.000 | 1.03 | 0.0 | 39.5 SURCHARGED |
| 31.000 | Pitch chamber a | 121.100 | -0.150 | 0.000 | 0.00 | 0.0 | 0.0 OK |
| 30.001 | Pitch chamber b | 120.987 | 0.087 | 0.000 | 1.03 | 0.0 | 38.5 SURCHARGED |
| 18.008 | Pond (D5a) | 119.578 | 0.063 | 0.000 | 0.85 | 0.0 | 91.5 SURCHARGED |
| 18.009 | 15 (D5a) | 119.603 | 0.253 | 0.000 | 0.56 | 0.0 | 80.6 SURCHARGED |
| 18.010 | 16 (D5a) | 119.026 | -0.124 | 0.000 | 0.70 | 0.0 | 80.2 OK |
| 1.016 | 17 (D5a) | 119.004 | -0.191 | 0.000 | 0.73 | 0.0 | 110.5 OK |
| 1.017 | PI (D5a) | 118.899 | -0.126 | 0.000 | 0.93 | 0.0 | 110.1 OK |
| 1.018 | 18 (D5a) | 118.773 | -0.222 | 0.000 | 0.63 | 0.0 | 110.2 OK |
| 32.000 | 0768 | 118.738 | -0.357 | 0.000 | 0.22 | 0.0 | 48.6 OK |
| 32.001 | 0765 | 118.604 | -0.341 | 0.000 | 0.26 | 0.0 | 47.6 OK |
| 32.002 | Ex MHh | 118.564 | -0.351 | 0.000 | 0.24 | 0.0 | 47.0 OK |
| 1.019 | 0769 | 118.533 | -0.589 | 0.000 | 0.18 | 0.0 | 113.1 OK |
| 33.000 | 19 (TC) | 119.725 | -0.110 | 0.000 | 0.51 | 0.0 | 22.4 OK |
| 33.001 | 20 (TC) | 119.490 | 0.005 | 0.000 | 0.82 | 0.0 | 35.7 SURCHARGED |
| 33.002 | 21 (TC) | 119.286 | 0.111 | 0.000 | 1.01 | 0.0 | 43.9 SURCHARGED |
| 33.003 | 22 (TC) | 119.152 | 0.127 | 0.000 | 1.27 | 0.0 | 62.0 SURCHARGED |
| 34.000 | 23 (TC) | 118.853 | -0.087 | 0.000 | 0.29 | 0.0 | 10.6 OK |
| 33.004 | 24 (TC) | 118.862 | 0.022 | 0.000 | 0.80 | 0.0 | 57.1 SURCHARGED |
| 35.000 | FD (TC) | 118.773 | 0.048 | 0.000 | 0.15 | 0.0 | 4.6 SURCHARGED |
| 33.005 | 25 (TC) | 118.772 | 0.072 | 0.000 | 1.60 | 0.0 | 62.0 SURCHARGED |
| 33.006 | 26 (TC) | 118.622 | -0.103 | 0.000 | 0.34 | 0.0 | 36.8 OK |
| 33.007 | Tank (TC) | 118.617 | 0.257 | 0.000 | 1.33 | 0.0 | 7.4 SURCHARGED |
| 33.008 | 1285 (TC) | 118.528 | 0.218 | 0.000 | 2.05 | 0.0 | 7.4 SURCHARGED |
| 1.020 | Ditch A | 117.879 | -1.321 | 0.000 | 0.04 | 0.0 | 120.5 OK |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | US/MH Name | Water Level (m) | Surch'ed Depth (m) | Flooded Volume (m ³) | Flow / O'flow Cap. (l/s) | Pipe Flow (l/s) | Status |
|--------|---------------|-----------------|--------------------|----------------------------------|--------------------------|-----------------|------------------|
| 1.021 | Ditch B | 117.840 | -1.340 | 0.000 | 0.03 | 0.0 | 120.5 OK |
| 36.000 | IC 1 (TC) | 119.004 | -0.046 | 0.000 | 0.82 | 0.0 | 14.2 OK |
| 36.001 | 26a (TC) | 118.851 | -0.049 | 0.000 | 0.94 | 0.0 | 45.5 OK |
| 36.002 | 27 (TC) | 118.421 | -0.034 | 0.000 | 0.66 | 0.0 | 44.8 OK |
| 36.003 | 28 (TC) | 118.357 | 0.052 | 0.000 | 1.01 | 0.0 | 59.5 SURCHARGED |
| 37.000 | IC 2 (TC) | 118.902 | -0.098 | 0.000 | 0.26 | 0.0 | 6.4 OK |
| 38.000 | 1191 (TC) | 119.402 | -0.094 | 0.000 | 0.30 | 0.0 | 11.0 OK |
| 39.000 | 1266 (TC) | 118.950 | -0.078 | 0.000 | 0.46 | 0.0 | 11.4 OK |
| 40.000 | IC 3 (TC) | 118.637 | 0.067 | 0.000 | 0.11 | 0.0 | 1.5 SURCHARGED |
| 37.001 | 29 (TC) | 118.636 | 0.221 | 0.000 | 1.40 | 0.0 | 8.2 FLOOD RISK |
| 36.004 | 30 (TC) | 118.253 | 0.053 | 0.000 | 0.83 | 0.0 | 44.8 SURCHARGED |
| 36.005 | 31 (TC) | 118.206 | 0.036 | 0.000 | 0.35 | 0.0 | 20.6 FLOOD RISK |
| 36.006 | 32 (TC) | 118.190 | 0.070 | 0.000 | 0.46 | 0.0 | 27.2 FLOOD RISK |
| 41.000 | 33 (TC) | 118.139 | -0.106 | 0.000 | 0.02 | 0.0 | 3.9 OK |
| 41.001 | 34 (TC) | 118.138 | -0.047 | 0.000 | 0.04 | 0.0 | 7.8 OK |
| 36.007 | 35 (TC) | 118.136 | 0.011 | 0.000 | 0.14 | 0.0 | 25.6 SURCHARGED |
| 36.008 | 36 (TC) | 118.075 | 0.000 | 0.000 | 0.26 | 0.0 | 21.7 OK |
| 36.009 | 37 (TC) | 117.824 | -0.231 | 0.000 | 0.31 | 0.0 | 25.6 OK |
| 1.022 | Ditch C | 117.720 | -1.430 | 0.000 | 0.01 | 0.0 | 145.0 OK |
| 1.023 | Pipe | 117.449 | -0.521 | 0.000 | 0.20 | 0.0 | 145.0 OK |
| 1.024 | Ditch D | 117.115 | -1.390 | 0.000 | 0.01 | 0.0 | 144.8 OK |
| 42.000 | North FF | 128.677 | 0.250 | 0.000 | 0.87 | 0.0 | 959.3 SURCHARGED |
| 42.001 | MH2114 | 127.649 | 1.268 | 257.884 | 1.08 | 0.0 | 1240.4 FLOOD |
| 43.000 | 537 | 129.387 | -0.083 | 0.000 | 0.67 | 0.0 | 29.8 OK |
| 43.001 | 538 | 128.606 | -0.164 | 0.000 | 0.41 | 0.0 | 52.1 OK |
| 43.002 | 539 | 127.785 | -0.185 | 0.000 | 0.49 | 0.0 | 74.9 OK |
| 43.003 | 540 | 127.612 | -0.158 | 0.000 | 0.61 | 0.0 | 98.7 OK |
| 43.004 | 541 | 127.424 | -0.146 | 0.000 | 0.64 | 0.0 | 116.4 OK |
| 43.005 | 542 | 127.044 | 0.274 | 0.000 | 0.56 | 0.0 | 142.3 SURCHARGED |
| 43.006 | 543 | 126.886 | 0.316 | 0.000 | 0.67 | 0.0 | 144.9 SURCHARGED |
| 43.007 | 544 | 126.748 | 0.328 | 0.000 | 0.73 | 0.0 | 168.9 SURCHARGED |
| 44.000 | Basin5 | 126.680 | 0.305 | 0.000 | 0.01 | 0.0 | 1.5 SURCHARGED |
| 43.008 | 545 (FC) | 126.680 | 0.670 | 0.000 | 0.02 | 0.0 | 1.5 SURCHARGED |
| 42.002 | Ex MH TBC | 126.864 | 1.184 | 214.234 | 0.98 | 0.0 | 1361.6 FLOOD |
| 42.003 | MH1164 | 124.898 | 2.078 | 658.706 | 1.36 | 0.0 | 2350.6 FLOOD |
| 42.004 | MH1162 | 123.155 | 1.735 | 25.356 | 1.09 | 0.0 | 3801.2 FLOOD |
| 45.000 | Ex ditch | 121.063 | -0.062 | 0.000 | 0.01 | 0.0 | 0.2 OK |
| 46.000 | Future PH21 | 122.539 | -0.326 | 0.000 | 0.50 | 0.0 | 436.7 OK |
| 46.001 | Future PH21 | 121.490 | 0.575 | 0.000 | 0.20 | 0.0 | 8.5 SURCHARGED |
| 45.001 | Ex ditch 1 | 121.063 | 0.238 | 0.000 | 0.40 | 0.0 | 17.3 SURCHARGED |
| 47.000 | Future PH21 a | 121.883 | -0.242 | 0.000 | 0.50 | 0.0 | 188.5 OK |
| 47.001 | Future PH21 b | 121.307 | 0.582 | 0.000 | 0.03 | 0.0 | 3.2 SURCHARGED |
| 45.002 | Ex ditch 2 | 121.033 | 0.808 | 0.000 | 0.68 | 0.0 | 22.6 SURCHARGED |
| 45.003 | Ex ditch 3 | 120.995 | 1.270 | 0.000 | 1.30 | 0.0 | 37.5 FLOOD RISK |

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Summary of Critical Results by Maximum Level (Rank 1) for SW Proposed

| PN | US/MH Name | Water Level (m) | Surch'ed Depth (m) | Flooded Volume (m ³) | Flow / O'flow Cap. (l/s) | Pipe Flow (l/s) | Status |
|--------|-----------------|-----------------|--------------------|----------------------------------|--------------------------|-----------------|------------|
| 45.004 | Outfall assumed | 120.984 | 1.309 | 0.000 | 0.72 | 0.0 38.4 | FLOOD RISK |
| 42.005 | PI | 120.964 | 2.014 | 933.952 | 3.15 | 0.0 2364.7 | FLOOD |
| 42.006 | Trb 2 | 118.455 | -0.786 | 0.000 | 0.14 | 0.0 2369.8 | OK |
| 1.025 | Ditch E | 116.992 | -1.008 | 0.000 | 0.12 | 0.0 2511.3 | OK |