

Westlakes Engineering Ltd

20 Dale Street  
Manchester  
M1 1EZ

Date 29/10/2021 15:02  
File 25.02.21 THE EDGE - ACT...

Innovyze

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Designed by Eleni.Zachara  
Checked by

Network 2019.1

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

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coeffiecient 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 0

Number of Online Controls 0

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model

FSR

Ratio R 0.258

Region England and Wales Cv (Summer) 0.750

M5-60 (mm)

16.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

DVD Status OFF

Analysis Timestep

Fine Inertia Status OFF

DTS Status

ON

Profile(s)

Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 360

Return Period(s) (years) 1, 30, 100

Climate Change (%) 0, 0, 40

|       | US/MH |           | Return | Climate | First (X)     | First (Y) | First (Z) | Overflow | Water |
|-------|-------|-----------|--------|---------|---------------|-----------|-----------|----------|-------|
| PN    | Name  | Storm     | Period | Change  | Surcharge     | Flood     | Overflow  | Act.     | Level |
| 1.000 | SWMH1 | 15 Winter | 100    | +40%    | 100/15 Summer |           |           |          | 6.299 |
| 1.001 | SWMH2 | 15 Winter | 100    | +40%    | 100/15 Summer |           |           |          | 6.259 |
| 1.002 | SWMH3 | 15 Winter | 100    | +40%    | 30/15 Summer  |           |           |          | 6.183 |
| 1.003 | SMWH4 | 15 Winter | 100    | +40%    | 30/15 Summer  |           |           |          | 6.005 |
| 1.004 | SMWH5 | 15 Winter | 100    | +40%    | 100/15 Summer |           |           |          | 5.852 |
| 2.000 | SWIC1 | 15 Winter | 100    | +40%    |               |           |           |          | 5.929 |
| 2.001 | SWIC2 | 15 Winter | 100    | +40%    |               |           |           |          | 5.834 |
| 2.002 | SWIC3 | 15 Winter | 100    | +40%    |               |           |           |          | 5.794 |
| 2.003 | SWIC4 | 15 Winter | 100    | +40%    |               |           |           |          | 5.767 |
| 1.005 | SWMH6 | 15 Winter | 100    | +40%    | 100/15 Summer |           |           |          | 5.661 |

Surcharged Flooded

US/MH

Depth

Volume

Flow / Overflow

Pipe

PN

Name

(m)

(m³)

Cap.

(l/s)

Flow

Status

Level

1.000

SWMH1

0.474

0.000

0.62

22.9

SURCHARGED

1.001

SWMH2

0.526

0.000

1.31

39.7

SURCHARGED

1.002

SWMH3

0.496

0.000

1.47

57.2

SURCHARGED

1.003

SMWH4

0.414

0.000

1.69

58.3

SURCHARGED

1.004

SMWH5

0.321

0.000

0.77

57.2

SURCHARGED

2.000

SWIC1

-0.111

0.000

0.15

2.1

OK

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|                                                          |                                         |                                                                                     |
|----------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|
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| Innovyze                                                 | Network 2019.1                          |                                                                                     |

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

| PN    | US/MH<br>Name | Surcharged Flooded |                             | Pipe                    |               | Status     | Level<br>Exceeded |
|-------|---------------|--------------------|-----------------------------|-------------------------|---------------|------------|-------------------|
|       |               | Depth<br>(m)       | Volume<br>(m <sup>3</sup> ) | Flow / Overflow<br>Cap. | Flow<br>(l/s) |            |                   |
| 2.001 | SWIC2         | -0.097             | 0.000                       | 0.27                    | 3.3           | OK         |                   |
| 2.002 | SWIC3         | -0.089             | 0.000                       | 0.34                    | 4.2           | OK         |                   |
| 2.003 | SWIC4         | -0.064             | 0.000                       | 0.60                    | 8.4           | OK         |                   |
| 1.005 | SWMH6         | 0.538              | 0.000                       | 1.33                    | 64.2          | SURCHARGED |                   |