| Project: | Date: 21/10/2025 | | |
|---|---|---|---|
| | Designed by: purcella | Checked by: | Approved By: |
| Report Details: Type: Outfall Details Storm Phase: Surface Water | Company Address: | | |

## Outfalls

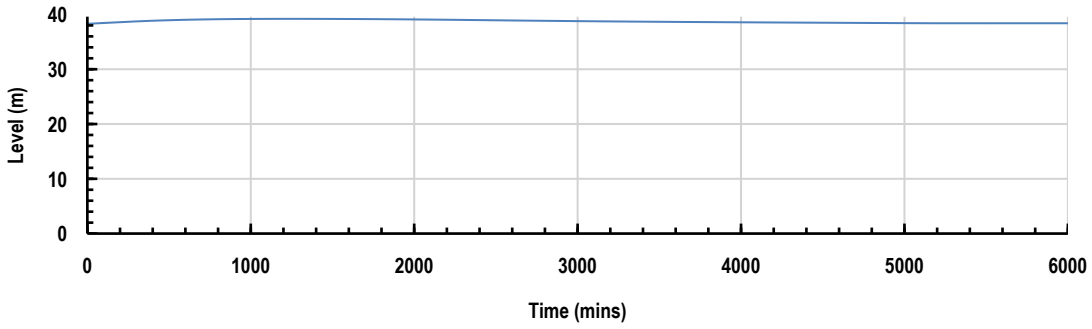
| Outfall | Outfall Type | Gated | Fixed Surcharged Level (m) | Level Curve |
|---|---|---|---|---|
| ExMH 9250 | Variable Surcharged Level | ☑ | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 15 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 15 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 30 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 30 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 60 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 60 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 120 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 120 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 180 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 180 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 240 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 240 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 360 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 360 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 480 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 480 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 600 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 600 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 720 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 720 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 960 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 960 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 1440 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 1440 mins: Winter | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 2160 mins: Summer | | | | 100yr13 |
| FEH (-13hr) : 100 years: +40 %: 2160 mins: Winter | | | | 100yr13 |

## Level Curves

| Title | Duration (mins) | Max. Level (m) | Extension Option |
|---|---|---|---|
| 100yr13 | 6000 | 39.199 | Extend Last Level |

| Project: | Date: 21/10/2025 | | |
|---|---|---|---|
| | Designed by: purcella | Checked by: | Approved By: |
| Report Details: Type: Outfall Details Storm Phase: Surface Water | Company Address: | | |

100yr13



| Project: | Date: 21/10/2025 | | |
|---|---|---|---|
| | Designed by: purcella | Checked by: | Approved By: |
| Report Title: Rainfall Analysis Criteria | Company Address: | | |

| | |
|---|---|
| Runoff Type | Dynamic |
| Output Interval (mins) | 5 |
| Time Step | Shortest |
| Urban Creep | Apply Global Value |
| Urban Creep Global Value (%) | 0 |
| Junction Flood Risk Margin (mm) | 300 |
| Perform No Discharge Analysis | ☐ |

## Rainfall

### FEH (-13hr)

Type: FEH

| | |
|---|---|
| Site Location | GB 476940 171226 SU 76940 71226 |
| Rainfall Version | 2022 |
| Summer | ☑ |
| Winter | ☑ |

## Return Period

| Return Period (years) | Increase Rainfall (%) |
|---|---|
| 100.0 | 40.000 |

## Storm Durations

| Duration (mins) | Run Time (mins) |
|---|---|
| 15 | 420 |
| 30 | 420 |
| 60 | 420 |
| 120 | 420 |
| 180 | 420 |
| 240 | 420 |
| 360 | 420 |
| 480 | 420 |
| 600 | 420 |
| 720 | 420 |
| 960 | 420 |
| 1440 | 420 |
| 2160 | 420 |

| Project: | Date: 21/10/2025 | | |
|---|---|---|---|
| | Designed by: purcella | Checked by: | Approved By: |
| Report Details: Type: Junctions Summary Storm Phase: Surface Water | Company Address: | | |

**Critical Storm Per Item: Rank By: Max. Depth**

| Junction | Storm Event | Cover Level (m) | Invert Level (m) | Max. Level (m) | Max. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S01 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.465 | 38.215 | 39.006 | 0.791 | 159.5 | 1.132 | 0.000 | 154.9 | 69.286 | Surcharged |
| S11 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.369 | 38.135 | 38.644 | 0.509 | 28.9 | 0.576 | 0.000 | 27.4 | 13.823 | Surcharged |
| S04 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.361 | 38.115 | 38.647 | 0.532 | 165.9 | 0.761 | 0.000 | 163.7 | 77.476 | Surcharged |
| S10 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.337 | 38.405 | 38.793 | 0.388 | 18.9 | 0.438 | 0.000 | 16.6 | 8.200 | Surcharged |
| S05 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.304 | 37.400 | 38.565 | 1.165 | 163.7 | 1.667 | 0.000 | 162.3 | 76.046 | Surcharged |
| S03 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.246 | 38.190 | 38.899 | 0.709 | 170.0 | 1.014 | 0.000 | 165.9 | 77.434 | Surcharged |
| S02 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.240 | 38.640 | 38.976 | 0.336 | 18.6 | 0.024 | 0.000 | 15.1 | 8.060 | Flood Risk |
| S12 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 39.155 | 37.670 | 38.582 | 0.912 | 47.6 | 1.032 | 0.000 | 46.4 | 22.426 | Surcharged |
| S15 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 38.977 | 37.510 | 38.487 | 0.977 | 100.0 | 1.398 | 0.000 | 99.3 | 46.282 | Surcharged |
| S14 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 38.962 | 37.920 | 38.560 | 0.640 | 54.6 | 0.724 | 0.000 | 53.6 | 24.463 | Surcharged |
| S06 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 38.909 | 37.340 | 38.384 | 1.044 | 261.6 | 1.844 | 0.000 | 2.1 | 133.220 | Surcharged |
| S13 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 38.900 | 37.960 | 38.676 | 0.716 | 56.3 | 0.810 | 0.000 | 54.6 | 24.468 | Flood Risk |
| S07 | FEH (-13hr): 100 years: +40 %: 360 mins: Summer | 38.880 | 37.254 | 38.296 | 1.042 | 2.2 | 1.842 | 0.000 | 10.4 | 21.884 | Surcharged |
| S25 | FEH (-13hr): 100 years: +40 %: 360 mins: Summer | 38.566 | 37.244 | 38.296 | 1.053 | 1.7 | 1.860 | 0.000 | 0.0 | 0.466 | Flood Risk |
| ExMH 9250 | FEH (-13hr): 100 years: +40 %: 15 mins: Summer | 38.760 | 37.240 | 38.874 | 1.634 | 0.0 | 0.000 | 0.000 | 0.0 | 0.000 | Flood |

| Project: | Date: 21/10/2025 | | |
|---|---|---|---|
| | Designed by: purcella | Checked by: | Approved By: |
| Report Details: Type: Stormwater Controls Summary Storm Phase: Surface Water | Company Address: | | |

**Critical Storm Per Item: Rank By: Max. US Depth**

| Stormwater Control | Storm Event | Max. US Level (m) | Max. DS Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) | Half Drain Down Time (mins) | Percentage Available (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TANK 1 | FEH (-13hr): 100 years: +40 %: 480 mins: Winter | 38.300 | 38.300 | 0.940 | 0.940 | 25.7 | 271.130 | 0.000 | 0.000 | 0.0 | 0.000 | | 6.026 |

| Status |
|---|
| OK |