

Joanne Fisher

From: [REDACTED]
Sent: 04 November 2025 11:13
To: drainage
Cc: Steve Ashdown; Joanne Fisher; John Bullivant
Subject: RE: 2025.11.03 Re: Follow on from Meeting 31.10.25 Re: DM/25/1535 - Twinham, 34 Hurst Road, Hassocks, West Sussex - Follow on from Telephone call today 10:25am 29.10.25 (28MINS)
Attachments: Twinham, 34 Hurst Road, Hassocks - Half Drain Time Calculations.pdf

Dear Emma,

Thank you for your email.

Please find attached the hand calculation for the Half Drain Time of the rain garden.

The rain garden has:

- Full drain time: **22.99 hours**
- Half drain time: **11.5 hours**

This is based on the rain garden receiving the full attenuation tank volume at a discharged of **0.3 L/s**, for the 1 in 100-year +45% climate change return period storm event.

Kind regards,

Kind Regards
Jethro Sifflet

From: drainage <drainage@midsussex.gov.uk>
Sent: 03 November 2025 14:16
[REDACTED], drainage <drainage@midsussex.gov.uk>
Cc: Steve Ashdown <Steve.Ashdown@midsussex.gov.uk>; Joanne Fisher <Joanne.Fisher@midsussex.gov.uk>; John Bullivant [REDACTED]
Subject: 2025.11.03 Re: Follow on from Meeting 31.10.25 Re: DM/25/1535 - Twinham, 34 Hurst Road, Hassocks, West Sussex - Follow on from Telephone call today 10:25am 29.10.25 (28MINS)

Dear Jethro,

Received with thanks. I have had a brief discussion with the Flood Risk and Drainage engineers. We will hold on further comment until we have received your further detail as advised below.
Upon receipt of all details for this submission, we will then be able to review and give an expectation on timeline and delivery of our response.

Best Wishes
Emma

Flood Risk and Drainage Co-Ordinator
Corporate Estates & Facilities Business Unit
www.midsussex.gov.uk

From: [REDACTED]
Sent: 03 November 2025 13:18
To: drainage <drainage@midsussex.gov.uk>
Cc: Steve Ashdown <Steve.Ashdown@midsussex.gov.uk>; Joanne Fisher <Joanne.Fisher@midsussex.gov.uk>; John Bullivant [REDACTED]
Subject: RE: 2025.10.31 Follow on from Meeting 31.10.25 Re: DM/25/1535 - Twinham, 34 Hurst Road, Hassocks, West Sussex - Follow on from Telephone call today 10:25am 29.10.25 (28MINS)

Dear Emma,

Thank you for your email.

Unfortunately, the simulation software does not provide a half-drain option, so I will need to undertake the calculation manually in Excel and forward tomorrow.

Please note that there is no flooding for the 1 in 100-year storm event with a 15-minute high-intensity rainfall.

Please find below Dixon Hurst Limited (DHL) comments in **Red** responding to the outstanding drainage design queries raised:

- **1:100 year + CC event source control calculation should be updated demonstrating the water level does not exceed the top of the crates.**

DHL Response: Please find attached the Micro Drainage calculation for the 1 in 100-year + 45% CC event, demonstrating that the storage volume is contained within the cellular crate system.

- **Network calculations for the critical storm event for each part of the drainage system.**

DHL Response: Please find attached the Micro Drainage simulation calculations for the 1 in 100-year + 45% CC Winter and Summer Storms, covering durations from 15 minutes to 960 minutes for both the attenuation tank and the rain garden.

- **The half-drain time for the rain garden needs to be included in the network calculations.**

DHL Response: Unfortunately, the Micro Drainage simulation software does not provide the half-drain time. Therefore, I will carry out this calculation manually in Excel using data extracted from the simulation graphs.

- **Levels and dimensions of all drainage infrastructure should be checked to confirm they are correct and match the cross sections and layout.**

DHL Response: Please find attached the amended drawings, which now correlate with the information in the Micro Drainage simulations.

- **Any double counting of the cellular and rain garden storage within the manholes and storage structures should be removed.**

DHL Response: Noted.

- **Updated calculations (and updated cross sections and layouts, if required) which demonstrate the above points.**

DHL Response: Noted.

Kind regards,

Jethro Sifflet

From: drainage <drainage@midsussex.gov.uk>

Sent: 31 October 2025 12:27

To: [REDACTED]

Cc: Steve Ashdown <Steve.Ashdown@midsussex.gov.uk>; drainage <drainage@midsussex.gov.uk>; Joanne Fisher <Joanne.Fisher@midsussex.gov.uk>

Subject: 2025.10.31 Follow on from Meeting 31.10.25 Re: DM/25/1535 - Twinham, 34 Hurst Road, Hassocks, West Sussex - Follow on from Telephone call today 10:25am 29.10.25 (28MINS)

Dear Jethro,

As discussed in the meeting held today with yourself and the teams' representatives at Mid Sussex District Council (Planning and Flood Risk and Drainage) please see below bullet points with all parties in agreement that this detail is required and currently outstanding.

We require:

- 1:100 year plus CC event source control calculation should be updated demonstrating the water level does not exceed the top of the crates.
- Network calculations for the critical storm event for each part of the drainage system.
- The half-drain time for the rain garden needs to be included in the network calculations.
- Levels and dimensions of all drainage infrastructure should be checked to confirm they are correct and match the cross section and layout.
- Any double counting of the cellular and raingarden storage within the manholes and storage structures should be removed.
- Updated calculations (and updated cross sections and layouts, if required) which demonstrate the above points.

Please send your submission to drainage@midsussex.gov.uk and as advised, should you have any issues while working on the above, do reach out prior to your formal submission.

We look forward to hearing from you into Monday 3rd November 2025,

Best Wishes

Flood Risk and Drainage Team
Estate Services and Building Control
Mid Sussex District Council
drainage@midsussex.gov.uk

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