

From: Amanda Scholes on behalf of Planning.Responses
Sent: 23 November 2018 12:14
To: Planning Scanning
Subject: FW: ASDA Ferring PFS - Micro drainage Calculations

From engineers

From: Anita Gardner
Sent: 23 November 2018 09:40
To: Planning.Responses
Subject: RE: ASDA Ferring PFS - Micro drainage Calculations

Fg/182/18/doc

Anita Gardner | Principal Planner, Directorate of Place, [Arun District Council](http://www.arun.gov.uk) | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Amanda Scholes **On Behalf Of** Planning.Responses
Sent: 23 November 2018 08:35
To: Anita Gardner
Subject: FW: ASDA Ferring PFS - Micro drainage Calculations

Hi Anita
Application number please.
Mandy

From: Anita Gardner
Sent: 22 November 2018 11:10
To: Planning.Responses
Subject: FW: ASDA Ferring PFS - Micro drainage Calculations

Please scan as a consultee response

Anita Gardner | Principal Planner, Directorate of Place, [Arun District Council](http://www.arun.gov.uk) | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Laura Gibbons
Sent: 22 November 2018 10:40
To: 'Paul Gill'
Cc: Bob Marshall
Subject: RE: ASDA Ferring PFS - Micro drainage Calculations

Hi Paul,

Thank you for sending through the details. I am happy with these and will be happy to recommend the discharge of the condition when they are formally submitted to planning.

Kind Regards,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Paul Gill [REDACTED]
Sent: 22 November 2018 10:05
To: Laura Gibbons
Cc: Bob Marshall
Subject: ASDA Ferring PFS - Micro drainage Calculations

Laura

Further to our telephone conversation yesterday confirming the option which reuses the existing flow control device is to be progressed with, please find attached our updated drawing and the calcs attached again – for completeness.

We trust all is in order and look forward to receiving confirmation that the drainage solution is acceptable to lift the planning condition.

Best regards,

Paul Gill – B.Eng (Hons) GMICE
Associate Director
For and on behalf of Adept Consulting Engineers Ltd



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From: Paul Gill
Sent: 21 November 2018 14:02
To: 'Laura Gibbons' [REDACTED]
Cc: Bob Marshall [REDACTED]
Subject: ASDA Ferring PFS - Micro drainage Calculations [Filed 21 Nov 2018 14:02]
Importance: High

Laura

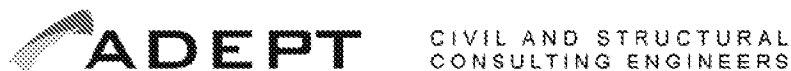
Further to our site meeting yesterday where it was established that the stone in the trial holes was suitable to be classed as an open graded material for the purposes of storm water attenuation, we have updated the calculations as below:-

1. We have reduced the available depth of sub base material from 550mm depth to 470mm depth to suit the average depth recorded from the two trial pits. This depth has been shown for both of the calculations below.
2. We have included a calculation which shows the existing (presumed Crown product) flow control device rated at 2 lps with a design head of 0.86m (*the maximum head the network actually achieves now due to the addition of the new PFS attenuation is 0.758m*). This is the information which we have on record as being the flow control device delivered to site for installation. This calculation "**SW Crown 470.mdx**" shows no flooding of the access road or the site.
3. We have included a calculation which shows the existing flow control device replaced with a new Hydrobrake flow control device. This is rated at 2 lps with a design head of 1.1m (*the maximum head the network actually achieves due to the addition of the new PFS attenuation is 0.756m*). This calculation "**SW Hydro 470.mdx**" shows no flooding of the access road or the site. The actual flow downstream of this flow control would be 1.8 lps due to the design head never being reached on the Hydrobrake. However it still works as the newer Hydrobrake is more efficient than the existing Crown version.

As a result we trust the attached (and above) meets with your approval. To save costs on site we could retain the existing Crown Flow Control device if this is your preferred option for the network – please advise which is your preference and we will incorporate into the final drainage plan to be sent through for your approval before the end of the week.

Best regards,

Paul Gill – B.Eng (Hons) GMICE
Associate Director
For and on behalf of Adept Consulting Engineers Ltd



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