

## Mark Naumann

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**From:** Akehurst, David <[REDACTED]>  
**Sent:** 04 June 2018 15:32  
**To:** Mark Naumann  
**Subject:** RE: The Rainbow Trout Inn, Chitcombe Road, Broad Oak, Ryde, TN31 6EU - SWS-SUSXE-CC-003901

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good afternoon Mark,

Thank you for your email.

With regards to your query, as you have demonstrated a pre-existing connection and your proposal is not to increase the discharge rate, Souther Water would be happy for the continuation of such drainage method as there would be no increase in demand upon the public sewer.

This documentation should be submitted alongside an S106 Sewer Connection to obtain the appropriate Southern Water approval for the change of use connection.

Please visit <https://developerservices.southernwater.co.uk/> to review all information regarding the S106 process and to submit a completed application.

Kind Regards

**David Akehurst**  
**Technical Assistant**  
Developer Services



T. [REDACTED]  
[www.southernwater.co.uk](http://www.southernwater.co.uk)  
Southern Water, Southern House, Sparrowgrove, Otterbourne, SO21 2SW

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**From:** Mark Naumann [mailto:[REDACTED]]  
**Sent:** 30 May 2018 18:36  
**To:** Akehurst, David  
**Cc:** Developer Services; AdminTeam DeveloperServices; Bojidar Boiadjev; Ben Ellis  
**Subject:** The Rainbow Trout Inn, Chitcombe Road, Broad Oak, Ryde, TN31 6EU - SWS-SUSXE-CC-003901

David,

My colleague Bojidar has been in relation to the surface water drainage scheme at Pembury and has passed me your details as you may be able to assist with a site I am working on in Broad Oak.

We have been working on a development project at the above site and submitted a sewer Pre-Development Enquiry (your ref SWS-SUSXE-CC-003901) to which we had the response that no capacity was available in the existing combined sewer on site. As we have mentioned previously given the underlying clay geology infiltration is not a viable option at this location and no watercourse is available locally for connection.

We have since undertaken some additional investigation and the have determined the roof area currently draining to the existing on site sewer. On running rainfall runoff calculations this equates to the following runoff rates : 1IN1YR - 2.7l/s; 1IN30YR - 6.2l/s; 1IN100YR - 7.8l/s (not including climate change)

Given our client owns the public house our proposal is to manage and reduce the existing storm water runoff into the sewer to provide additional capacity in the existing drain. A new storm drainage network can be provided to the existing public house to route water to a new drainage attenuation system. This can incorporate the runoff from the new proposed development to be released at a slow and manageable rate. Given the 1in1yr runoff rate is currently 2.7l/s it is proposed to use this as the maximum flow rate from the site (including foul flows).

The proposed foul runoff from the reduced scheme of 7 units is 0.32l/s based on SFAs 4000 l/unit/day.

Given the 1in1yr runoff rate is currently 2.7l/s the max allowable storm flow into the combined sewer would be 2.38l/s to allow for the additional 0.32l/s foul flow from the new development.

We have compiled the attached plan and calculations to show how water can be managed on site to the maximum flow rate of 2.7l/s overall site runoff for storms up to and including the 1in100yr including 40% climate change allowance.

We would be grateful if you could confirm the attached arrangement is acceptable as no additional flows are being discharged to the sewer and that overall flow rates to the sewer are reduced during peak rainfall times.

Should you wish to discuss any of the attached please contact me. If its easier we are happy to organise a meeting to discuss any issues agree a way to drain this development.

Kind regards,

**Mark Naumann BEng(Hons) CEng MICE** | Principal Engineer



**Ambiental**, Science Park Square, Brighton, BN1 9SB, UK

**General Enquiries** [REDACTED]

**W** [www.ambiental.co.uk](http://www.ambiental.co.uk) | **E** [REDACTED]

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