

SRBsr12198 20171116 ADC.docx

16th November 2017

Paul Cann
Engineering Services
Arun District Council
First Floor
Arun Civic Centre
Maltravers Road
Littlehampton BN17 5LF

Dear Mr Cann

**PLANNING PERMISSION REF: FP/ 100/ 15/ PL
DISCHARGE CONDITION NO.5 RELATING TO DISCHARGE OF SURFACE WATER FROM THE SITE.**

Further to recent correspondence in relation to the discharge of Condition 5 we provide below a statement of the final surface water drainage management proposals, together with relevant drawings and calculations.

We have reviewed the published Lidsey Surface Water Management Plan and have noted that the site does not fall within any of the identified Local Flood Risk Zones (LFRZ). It has been identified sitting between LFRZ23 and LFRZ15.

The proposed surface water drainage from this property is to be collected in a system of piped drainage around the building and taken to the existing public surface water manhole, located to the east of the site (Ref: 8651X). This proposal provides a betterment on the existing (pre-development) surface water discharge which is understood to have entered the public foul sewer at the north of the site (within Sea Drive).

Consent has been obtained from Southern Water for the proposed connection into the public sewer and a copy of the consent is attached.

We have also provided WinDES calculations for the 1:2yr, 1:30yr and 1:100yr plus climate change flows within the proposed system. We understand that the surface water system (public) at this location is likely to be surcharged in times of high tide and have, using figures provided within the Lidsey Surface Water Management Plan, assumed that for the purposes of the calculations they coincide with mean high tide of 2.65m AOD.

Based on the above, modelled within WinDES, the system does not surcharge for a 2yr event, partially surcharges but does not flood during a 30yr event, and partially surcharges but does not flood during a 100yr event with 20% climate change.

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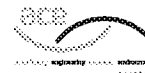
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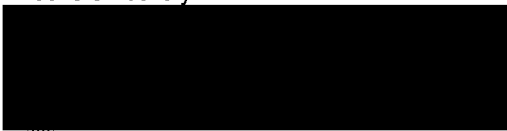


Please note, that within the calculations we have used the levels bench mark provided of 50.00m. In order to correlate the public sewer records and the mean high tide levels, provided to ordnance datum, we identified that the public foul manhole (reference 7703X) had been surveyed. Correlating the ordnance survey level with the temporary bench mark for the survey, we have calculated that the OS levels required an adjustment of +45.17. Thus:

Manhole 8651X Cover is raised from 4.49m AOD to 49.660
Manhole 8651X Invert is raised from 0.82m AOD to 45.990
Mean High Water Level is raised from 2.65m AOD to 47.820

The proposed drainage has been approved by Southern Water, and has been shown to operate satisfactorily within design storm periods, included a surcharged outfall, and we now seek your approval to the discharge of Condition 5.

Yours sincerely



SIMON BOOTS

For and on behalf of **CAMPBELL REITH HILL LLP**

Enc Southern Water Approval Letter (Section 106)
 Drawing 12198-CRH-Z1-XX-DR-5050 C2
 12198-Sw Design Calculations

cc Richard Temple Arun District Council
 Trevor Pullen Pullen and Wells Architects